

Episode 1: How do I make SCI journal?

I had a hard time because of SCI journal.

Science citation index journal

I can't be treated as a scientist if I do not publish my papers in SCI journals these days.

It's really hard to publish SCI articles depending on the fields.

Nature Science

Why don't I establish my own journal?

I learned something at the science museum.

Science museum

The science museum differs from the natural history museum.

The science museum exhibits man-made things such as machines,

Natural history museum

but the natural history museum displays natural things like dinosaurs.

Although I do have a little compunction, I named my journal as 'Nature Science.'

Nature Science

Exceptional scientists will contribute papers which are actually for 'Nature' and 'Science.'

The papers in 'Nature Science' would be frequently quoted to make SCI journal.

High impact factor

I, the editor-in-chief, can publish my papers as much as I please. Hooray!

Her remarks reminded me of my preference.

Science Nature

Synthetic things in my youth, unprocessed things in old age.

I also thought of journals called Science and Nature.

Journal Science (US) Journal Nature (UK)

Does Science deal with artificial objects in US and Nature with pure ones in UK? I don't think so.

Episode 8: Manual labor of high-quality scientists

I talked to my graduate student that we should prepare the international competition.

Korean science should get approval from the world.

For that, high-quality humans are required

to compete with the developing countries.

I saw a diamond in the natural history museum.

Jewel exhibition

Frankly, I enjoy watching women who come after the diamond.

The artificial diamond is a fruit of combination of graphite and pressure.

Pressure changes the configuration of carbon atoms.

Also manual job is needed

to overcome the developed countries, where personal expenses are high.

The student got proud and diligent from the story of high-quality and manual work, respectively.

To drive student, I should train her moral.

Likewise, graduate student needs some pressure in order to be a great scientist.

Justification to afflict student: Pressure makes diamond.

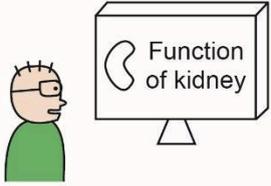
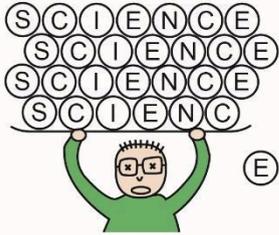
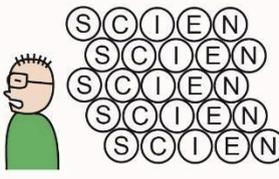
(Pop quiz) Another way to produce diamond?

The answer: Kill almond. You know 'die' and 'almond'.

Just don't kill him.

Episode 16: Unselfishness of beauties and scientists

Episode 18: Hard high school science

<p>An international beauty contest was held.</p> <p>I participated in this competition to popularize my country's beauty.</p>  <p>I'm for the world peace.</p>	<p>But I think the real purpose is for the beauties to get famous and rich.</p>  <p>I wrote a paper with a plausible purpose.</p> 	<p>I watched a high school science lecture on the TV.</p>  <p>Anatomy part was hard to understand even for me, an anatomy professor.</p>	<p>Because they teach too much,</p>  <p>science becomes a boring and hard subject.</p>
<p>Experiment aim: To develop science that's beneficial to every people.</p>  <p>Actually the real one is for me to become famous and rich.</p> <p>But there is no problem to this.</p>	<p>Participating a contest and doing research are</p>  <p>both selfish and altruistic.</p> <p>The beauty festival seems more contributing to the public than my investigation.</p>	<p>It's better to not teach students science at all than to overeducate.</p>  <p>If one had learned math in high school well enough,</p>	<p>it wouldn't hurt to start science in college.</p>  <p>That's actually true since college students learn science systemically through experiments.</p>

Episode 21: Pleasure of drawing comics

I told that drawing popular comics is more fun than writing scientific articles.

Articles

Comics

Should a professor spend time for articles rather than comics?

I produce comics when I have time after finishing articles.

But the older I get, the larger proportion comics occupy.

I've drawn a line between professor and graduate student's works.

Research fund

Paper

Professor receives fund and submits paper.

Winning over the grants is like social science, and writing articles is close to humanities.

Research fund

Paper

Few read my articles, but many enjoy my comics.

Comics

My family never read my articles, but my comics.

Why do we see your articles?

Comics enable me to boast myself.

He has to think about making people read his articles.

On the other hand, student is doing the experiment, now that is a real natural science.

How about swapping the jobs?

That's impossible. We both are not age-appropriate enough to change the jobs.

Social science Humanities

Natural science

Why do I feel like I'm falling behind?

Episode 24: A food chain between professionals

I looked into the relationship between scientist, public official and journalist.

I'm broke...

Research plan

Scientist asks official so as to win the funds for his/her research.

Official fawns upon journalist to publicize new science policies.

Could you...?

News release

Especially politician including minister is always cowed in the presence of the reporter.

I met a professor from Kyoto University.

Your University has won more Nobel prizes than Tokyo University. What's the secret?

Well, Tokyo Univ. is the best one in Japan.

Tokyo Univ.

So it produces the best scientists.

Journalist begs to scientist to report beneficial science topics.

Are there interesting issues concerning...?

Space of paper

You see a perfect food chain indeed.

Flatters to each other

All these professionals say they work for the people of the nation. But...

But Kyoto Univ. yields the unique scientists.

Kyoto Univ.

I guess this uniqueness is getting a credit which leads to winning the prizes.

Japaneses read Nobel prize as Nobel show. It's just as much as that.

I wish Koreans acquire the Nobel awards so I can make a joke like that.

Episode 28: Statistics doesn't care about minority.

I used statistics well.

The deer without an eye is named no idea (no eye deer). Isn't it funny?

No. Haha, Yes.

I am really happy that everyone answers it is interesting.

Why do you ignore my opinion?

The students who say yes are 20, and the rest is 1.

Therefore, the negative respondent is less than 5%.

Is it fair to take no notice of minority?

In statistics, hypothesis is right, if probability that the hypothesis is wrong is less than 5%.

$P < 0.05$

So it is painful if you belong to a few.

In Korea and Japan, high schools offer two different curriculum tracks: Natural science and liberal art.

There politicians usually studied liberal art.

It is difficult for natural science graduates to become high-ranking officials.

A solution is not to divide into two courses.

It is not late to separate at colleges.

Then high school students should learn natural science mainly,

because older ones can master liberal art easily, the reverse is not simple.

Episode 36: The more knowledge, the easier explanation.

I talked to a woman who had a master's degree in physics.

What did you research in graduate school?

Physics

Blah blah... I can't follow you.

Master's dissertation

You don't seem to know about calculus. No wonder you don't comprehend.

I take 45 as my middle age of life.

0 ⇒ 45 ⇒ 90

Age to be born Age to die

I live 90 years even if I ain't sure of my damaged physique.

25 ⇒ 45 ⇒ 65

Age to become assistant Age to retire from professor

I make money from 25 to 65. Using science, I can earn during 40 years.

This time, I asked to man with a doctor's degree.

Blah blah...

Doctor's dissertation

I figure it out now. It was that woman, not me, who had the problem.

How is doctor's thesis more understandable than master's?

Easy, right?

That's because the more one knows, the better explanation one has.

Achievement

45

Age to become full professor

At 45, my career declines, after then I survive with my past accomplishment.

So scientist has to work hard at his/her youth like an ant.

Liberal art graduate may play like grasshopper, because he/she attains a lot at old age.

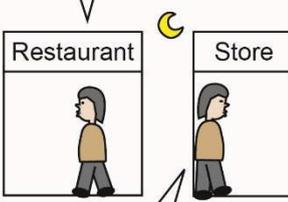
Episode 39: Highly educated manual laborer

I saw a graduate student who devoted her life into science research.



I research and write paper for 24 hours on 7 days.

The near restaurant I'm regular at is like my house kitchen.



Also convenience store is like my fridge.

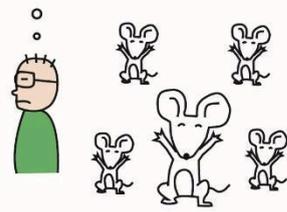
I overheard the conversations of life scientists.

Did you knock it up?



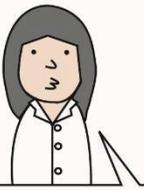
No, I think I'm not that much good at this.

Perverts...



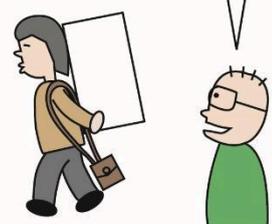
But as it turns out, they were talking about the succession of mice.

I wear the same cloth I wore yesterday because I can't go home.

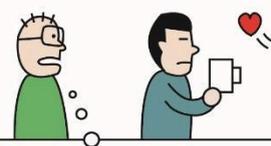


So I am just dressed in a white coat.

A student like this does anything. So it wouldn't hurt to call her as a highly educated manual laborer.



That scientist sometimes secretly takes video tape of their coupling.



What the hell?

As it becomes apparent, it was an experiment of behavioral science.

Taking film does not actually go against the moral codes, you know.

Unbelievable...



It's not like he's enjoying, right?

Episode 44: Role playing

My lab guys go out to fish girls. First, a handsome graduate brings girls.

Come and join!

Bait

Next, technician takes the place to attract girls, and professor pays the bill.

Blar blar...

What drink?

(Continuing)
The experience of fishing girls is recorded in article.

In introduction, the fishing purpose is clarified. In materials and methods, individual roles are described.

In results, suitable figures are attached and explained.

More girls are desirable for the statistic analysis.

A guy, who doesn't have special ability, I don't possess good feature, tongue, or money.

You still have the opportunity to work.

contributes to the plan with his labor.

You are pretty.

To play with an ugly girl is a laboring job for team approach.

(To be continued)

In discussion, our own methods and results are compared with those of other trials.

Reference

How about fishing in other countries?

In acknowledgment, financial support is thanked.

Paper Grant

To write a good paper is followed by funding for the next inquiry.

Episode 51: Using cell phone in karaoke

I had to pretend listening to other people's song in karaoke.

For maintaining close friendship.

I swing the lit cell phone in the air, which makes the singer impressed.

Just talking

Paying great attention to my song!

I saw a popular artist revering a pure artist.

A popular singer does the same to vocalist as well as a film actor does to the drama actor.

Public artist may make more money, but it is pure artist that has the true talent.

Like this, scientist respects the professional working persistently at the root of one's field.

Other functions of cell phone I utilize are making call, sending text and using it as a watch.

Not smart phone

I don't need its complicated functions.

I think I'm employing the cutting-edge scientific stuff to the fullest.

Smart phone

It's not the scientist but the youngster who uses the best of it.

Clinical doctor regards me, a scientist studying basic medicine;

I look up to investigator majoring basic science, which is the source of medical science.

In this way, we should all esteem mathematician who practices the fundamental research.

He also dominates the entrance exam for colleges.

Episode 58: Scientist respects mathematician.

Episode 58: Scientist respects mathematician.

Episode 60: Only without other specialists

Episode 62: Scientist is like mercenary.

I meet an engineer for medical engineering research.

In medical doctor's view...



I pretend to know every medicine if there's no real doctor around.

But that's not in the case of the doctor's presence.

In my view...



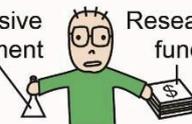
Do you think it's right?

I think he is not good enough.

I've gotten to understand the money game.

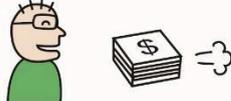
Expensive equipment

Research fund



Unlike social science, natural science requires a lot of money for experiment.

Money doesn't come to scientist who just does nothing.



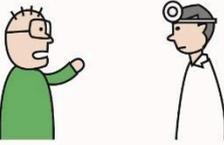
Actually, it's quite the opposite.

Competitor



Likewise I act like an engineer if there's only doctor and no one else.

Engineers think...



It's actually tiny knowledge picked up from engineers.

I become obsequious when engineer comes there.

I guess...



What is your idea?

I can't believe this guy.

I am busy pursuing money.

Research fund

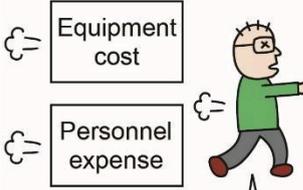


They say I'm like a mercenary.

If I don't, I would get pursued by money.

Equipment cost

Personnel expense



They also say I should be like a mercenary.

Episode 63: Should we teach fixed or changeable subject?

Episode 64: Scientist-like scientist

I had a quarrel with a biochemist.

Biochemistry class Anatomy class

I reckon there's been little change in the field of gross anatomy for last centuries, right?

What's the point teaching it then?

You teach a dead subject.

Look who's talking.

A priest, a lawyer and a scientist went to guillotine.

Priest went up first, and executor dropped the sword.

But the sword never fell down.

God protects me!

He claimed innocence and he got free.

Ever-changing subject like biochemistry is not worth teaching.

Undergraduate students should learn something that's totally been proved by history.

And we're not the only people having dispute.

Don't teach classical physics; it hardly changes.

Physics class

Don't teach up-to-date physics; it's so changeable.

Same thing happened with lawyer.

You can't convict twice with a same guilt.

He also asserted his acquittal and set free.

Scientist examined the scaffold for him and shouted.

I found out what's wrong with the sword!

The very cause of his death was his job spirit.

Episode 65: Classification by appearances

Episode 67: Migratory and resident birds

A professor gave lecture about biosystematics.

Biology class

The basic of this study is to classify organisms based on their morphologies.

For example, this bird has unique footsteps.

So it's possible to name it with its footsteps.

I met a prosecutor.

Lots of young prosecutors move about every two years in Korea.

Old office New office

She's like a migratory bird.

Why do you move so frequently?

Careers

Many cases

Well, to build careers from various cases, I guess.

At the moment, he caught a student who was not paying attention.

I can name different sources for chicken leg.

Haha

What's your name, there?

The student put his naked foot on the desk and said.

You tell me my name.

We, scientists, rarely move.

Unlike me, a resident bird.

Many scientists don't move even once after becoming a professor.

Why not?

Results

One lab

It takes a lot of times to re-install the laboratory. We can't bring about good results by migrations.

Episode 68: Bingo game during conference

During boring talks, check the real happenings. You win if four marks are straight horizontally, vertically or diagonally.



Laser pointer is shaken violently.	Someone is dozing.	Presenter is late.	Answer is that I will do it later.
Chairperson declares that time is over.	Beam projector causes problem.	No one has a question.	Video is not working.
Presenter wears sneakers.	Voice is too low or loud.	Laser pointer is misused or changed.	Someone's phone is ringing.
Question is praised.	'Well' is said.	Microphone does not operate well.	Colleagues are shown in picture of slide.

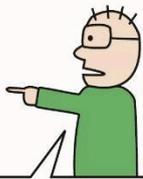
Episode 69: Connection of CC

I explained CC (campus couple) with a chemistry formula.

$$\begin{array}{c} \text{H} & \text{H} \\ | & | \\ \text{H}-\text{C} & -\text{C}-\text{H} \\ | & | \\ \text{H} & \text{H} \end{array} \quad \text{Ethane}$$

Organic chemistry explains the couple's organization.

First, CC has a weak single connection.



It has a lot of Hs (hospitable classmates) instead.

As the time goes, it gets cohesive; double and triple connection.

$$\begin{array}{c} \text{H} & & \text{H} \\ & \backslash & / \\ & \text{C}=\text{C} \\ & / & \backslash \\ \text{H} & & \text{H} \end{array} \quad \text{Ethylene}$$

$$\text{H}-\text{C}\equiv\text{C}-\text{H} \quad \text{Acetylene}$$

But it loses H as much; one loses friends when one gets closer to lover.

$$2(\text{H}-\text{C}\equiv\text{C}-\text{H}) + 5\text{O}_2 \rightarrow 4\text{CO}_2 + 2\text{H}_2\text{O} + \text{Heat}$$

Chemical reaction for oxyacetylene welding

Then O₂ (offensive obstinacy) emerges to break bond, resulting in much heat (hot confusion in campus).

Episode 70: Hardships of science reporter

I heard about science journalist's hardships.

Trend + Science



First difficulty is that I always take current trends into accounts.

If flu gets prevalent, I have to write about science of flu; if there's Olympic Games or World Cup, I must produce sports science article.



She combines any fashions with science.

Secondly, I can never get to be professional.

Unprofessional



There are innumerable fields in science, so I have to begin afresh every time I deal with new fields.

Political, economic or social correspondents can at least pretend to be professionals, but I can never do it.

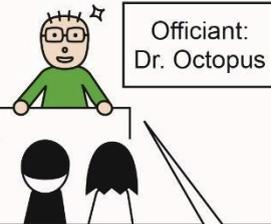


So that's why science reporter is humble.

Episode 73: Officiating in a scientific way

I officiated at my student's wedding.

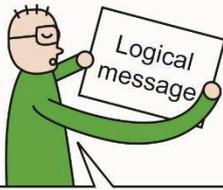
Officiant: Dr. Octopus



I cut my hair to shine this wedding.

I memorized the officiating message to make it scientific.

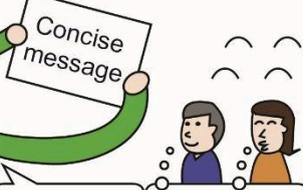
Logical message



I only can memorize reasoned message.

And I wanted to finish officiating early.

Concise message



I only can memorize short one.

Brief talk is good for guests too.

Another reason I remembered it was to refuse being the officiant in other wedding.

Would you retry for us?

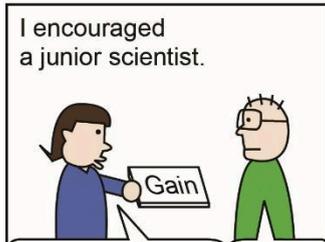


Sorry, I don't have any memory room for another message.

Episode 75: A sudden improvement to get richer

Episode 76: Morals for papers and cartoons

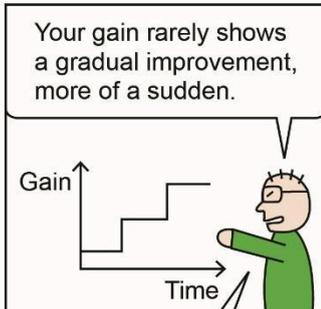
I encouraged a junior scientist.



No matter how I work hard, I haven't made a great deal of scientific gain.

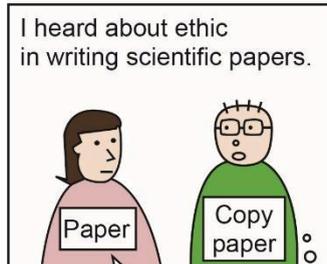
Cheer up!

Your gain rarely shows a gradual improvement, more of a sudden.



Like ice turning into water and then vapor.

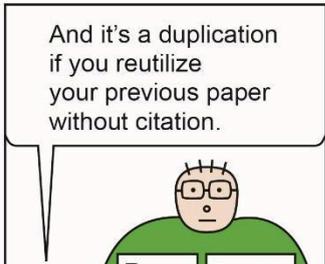
I heard about ethic in writing scientific papers.



It's a plagiarism if you copy other's paper.

Ouch!

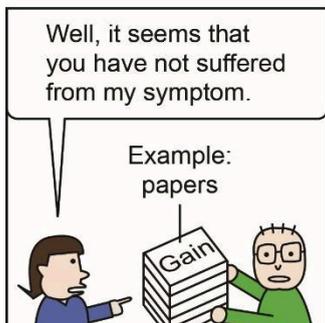
And it's a duplication if you reutilize your previous paper without citation.



Ouch again!

Well, it seems that you have not suffered from my symptom.

Example: papers



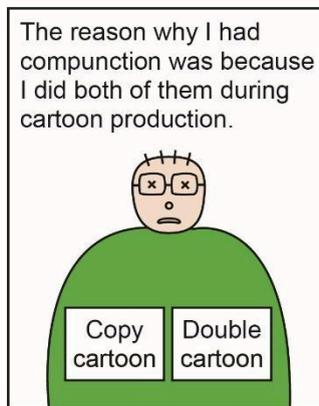
Buoy up!

My junior career was poorer than yours. It's like the rich getting richer and the poor getting poorer.



Don't forget concept of rolling a large snowball to make bigger snowball.

The reason why I had compunction was because I did both of them during cartoon production.



They would let it slide for comics?

Dr. Scifun



I don't think so.

How am I supposed to survive from these moral problems?

Episode 77: Genuine scientist

We call one a genuine undergraduate if he hangs out a lot.

I'm so jealous.

Likewise, we call them genuine scientists if they play a lot.

I envy them.

The real scientists are either fool or genius.

I've given a look at an assemblyman's opinion towards science.

Science first

It's science that feeds our nation; it leads the economy after all.

Thus we should spend our budget a lot on science.

He does care about science. I think our science has a bright future.

The fool is not having any good results no matter how hard he tries the research.

Pain, but no gain.

I'd better enjoy.

The genius produces great results without much lucubration.

No pain, but gain.

I'd better enjoy.

But I think my local district comes first over science.

Election first

He thinks building bridge in his town is more important than science.

Like this, science is always the second priority for the all assemblymen.

Science would never win gold if the assembly were Olympic Games.

Episode 80: Misunderstandings of professor and student

Student forgets that professor used to be a student once.

Science field training

You're just trying to goof off. How does he know?

I did it when I was young too.

Student should know that professor is on the top of her head.

I make economical cards for myself.

Dr. Scifun

I type up all my information, print, and cut out the paper.

These paper cards are practical. First, they're easy to make.

Dr. Scifun

I really don't have to pay much and they're simple to fix.

On the other hand, professor forgets that student could one day also become a professor.

Stop slacking off! I won't forget it.

How does he never accept that I can make success?

Professor should know that it's his student that takes care of him in the future.

Second, they're easy to carry around.

I keep 50 thin cards in my wallet.

I exhausted all of my cards. That's because yours are expensive and thick.

Third, they're easy to rip.

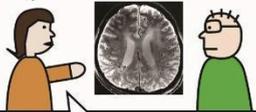
You're sorry. Damn him.

My cards have a small volume, and they don't harm the environment. What a scientific card?

Episode 83: Word 'nuclear' is scary.

I heard a story from a clinician.

We first called this nuclear magnetic resonance image (NMRI).



That's because the nucleus is important for this image.

But then, we switched the name to MRI excluding the nuclear.

Nuclear bomb

Likewise, nuclear power plant became atomic power plant because the word nuclear is sensitive.

Episode 85: If you want to be a cartoonist, study first.

A mother of an elementary school student came to me.

My son and I really enjoy reading your comics.



My junior can draw better cartoon than you.

Do you think he can be a famous cartoonist in case he learns drawing from now?

Does every singer who can sing very well become popular?

Namely, environment of the society changes the scientific terms.



However, nuclear medicine, which uses radioactive isotope, did not change its name.

Is it because they trust doctors in the nuclear medicine?



Just like nuclear family, there are believable things that don't need to take out the word nuclear.

Just like that, not anyone can be a cartoonist.



If your child wants to be that, he should study his proper subjects.

After he becomes a scientist, next job can be a science cartoonist better than me. A good engineer can be followed by a famous cartoonist on engineering.

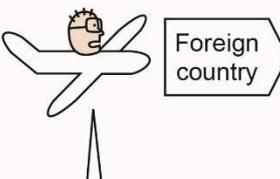
Disappointed.



It's not late to learn how to draw cartoon.

Episode 87: Thankful Western scientists

I have a ride an airplane.



Foreign country

How uncomfortable our lives would be if there were no planes?

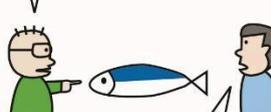
The persons who invented the airplane were Wright Brothers and other Western scientists including engineers.



Not only that, people who made our daily lives pleasant were the Western scientists.

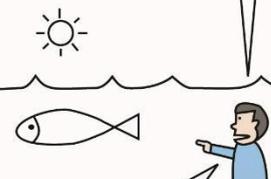
I ate blue-back fish with a marine biologist.

Do I get smarter if I eat this?



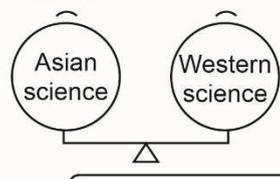
Well, if you listen to my story, it will certainly make you clever.

The fish with a blue back lives in a shallow surface.



When the sunlight shines on its back, the back color becomes similar with the abdomen color.

However, some Asians look down on Western scientists or



Asian science Western science

The difference between the Asian and Western sciences was tiny.

think that Western scientists were bad.

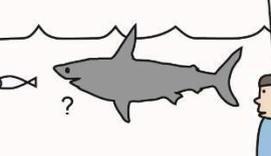
Asia ~ Western science



Their science was a tool to invade Asia.

Western politicians aside, we certainly need to be thankful for Western scientists.

So, it can camouflage in order to protect itself.

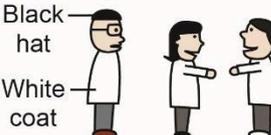


When I go to lab, I use my own protection colors.

So I can easily spot several students fooling around during their procedures.

Black hat

White coat



I guess you are a scary professor.

Episode 90: Similarity between cartoon and paper

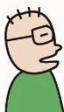
I find resemblance between cartoon and scientific paper.



I improved the ability of writing paper by drawing cartoon. That's because there are common features of these two.

First of all, they demand something new.

New cartoon and paper



Just like the cartoon, the article needs the new in methods and results.

(Continuing) I also find a difference of cartoon from paper.

Cartoon necessitates broad knowledge,



while something in real depth should be known to write a paper.



In good words, a person having wide knowledge draws cartoon,



in bad words, shallow knowledge is enough for the cartoon.

Secondly, these two are required to be funny.

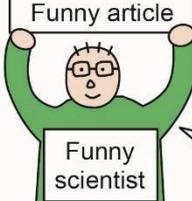
Funny cartoon and paper



Much the same as cartoon, the article needs to have a something interesting in introduction and discussion sections.

When American scientists compliment an article, they tend to say that it's funny.

Funny article



Funny scientist

Why ain't I to be comic?

(To be continued)

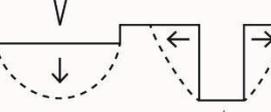
But cartoonist who has broad understanding is



not so different from scientist, equipped with profound comprehension.



When we dig a hole widely, it's easy to make it deep,

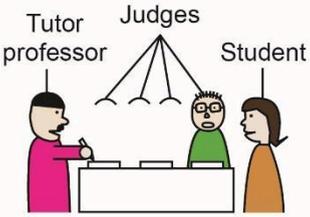


and if we dig deep, it's easy to make it wide.

Art and science are not that much dissimilar.

Episode 92: SCI article = PhD degree

Several years ago, tutor professor and judges seriously decided whether a student could receive PhD degree or not.



Tutor professor Judges Student

We looked for student's ability to perform science by herself.

We also evaluated the student's personality.

I divide graduate students in two separate categories.

Scholarship, payment, degree

The second student has perfect credential

Scientist, professor

to become a scientist or a professor in future.

However, these days, SCI article decides.

This is the published SCI article that I wrote.

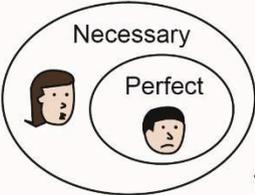
SCI paper is a perfect credential to receive the doctor's degree.

Previously, we gave the degree to scientist who was ready.

These days, we give that to scientist who is perfect.

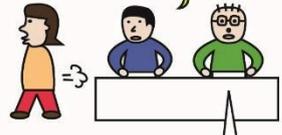
It became harder to be the PhD.

Student with necessary credential is large set including student with perfect credential.



Necessary Perfect

The former student gets out of job at exact time,



while the latter stays until midnight like a scientist or professor.

(To be continued)

Episode 95: Herbivores and omnivores

(Continuing)
In two separate categories, the first student is like a herbivore.

Peace state



This student listens to professor really well.

The second student is like an omnivore.

War state



This student does things even though the professor does not ask him to do.

I think of a difference between a businessman and a scientist.

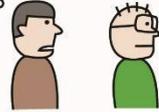
Economy class



Businessman Scientist

When the businessman sits in the economy class, he feels humiliated.

If I succeeded with my company, I could have sat on the first or the business class. Next time...



However, the scientist does not feel ashamed on the economy class.

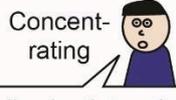
Scientist and professor are like omnivores, so they prefer omnivore student.

Looking around



Because herbivore has to look at a wide area, her eyes are apart.

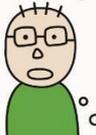
Concentrating



Do all scientist and professor have the intensive eyes?

No. Do you actually believe everything I say?

Success in my lab doesn't mean that I buy the expensive seat.



Grant for research isn't mine for the privacy.

Actually, me sitting in the cheap class shows that I'm a modest person of integrity.



What a fool! Great and successful scientists utilize the privileged class.

Episode 97: Scientist sits at the economy class.

Episode 100: Why do I create Dr. Scifun?

Episode 102: Medicine : Clinics = Science : Technology

I remembered why I started to draw cartoons.

Bookstore

Even though there were a lot of scientific comic books drawn for children, there were few for the grownups.

Continually, in spite of many cartoons drawn by cartoonists, those by scientists were not easily found.

I am reluctant of cartoons for children, by cartoonists.

I heard that medicine is not a part of science.

Why does a medical professor ask for scientific grant?

Medical school

Why do you draw science comics in medical school?

That's because medicine is included by science.

Just like physiology or medicine, a field of Nobel science prize.

It wasn't that much different when a scientist just lent the one's name.

Supervised by Dr. Sat

The important thing is the content, not the name value.

As a scientist, I attempted the comic scientific cartoons for adults.

Dr. Scifun

'For adults' means no limitation of funny stories happening to me.

You are probably confused because medical professors take care of patients.

Affiliated hospital

It can be said that clinical activity is not science but technology.

College of natural sciences deals with science, while college of engineering deals with technology.

Natural sciences	Engineering
Science	Technology

School of medicine takes charge of both.

Episode 103: Scientist's lie 1/2

Mountain hiker lies that the destination is near.

We will arrive soon.

This hiker said that 10 minutes ago.

I understand because scientist often lies by saying that the results are almost out while they aren't.

(Continuing)
I heard a scientist lying.

My research is easy to understand and interesting.

Seminar

That's what a lot of scientists say before doing their presentation

so as to get everybody's attention.

Boring presentation

However, when we hear the talk, we realize that it was a lie.

Fisherman lies about the size of the fish that he caught or will catch.

The fish is about this big.

I also comprehend since scientist often lies by telling how big effect of one's research is.

Most importantly, in order to receive more lab money, scientist lies.

Proposal of research

(To be continued)

The research might be uncomplicated and fascinating only for her.

Boring science

Scientists must recognize that science could be tedious.

To make it intriguing, scientists need to try harder.

As well, his comics are not funny; they have just too many words.

Episode 105: Desolate campus of natural science

I am walking through the campus inside a famous university.

The old and beautiful buildings are for the humanities and social science colleges.

Recent and desolate buildings are for the natural science colleges.

Just a pure coincidence?

Accidentally, I get on the same airplane with my old classmate in the med school.

What a surprise!

Counter to US

Your line is short.

I realize that he is a first class passenger, whereas I am on economy class.

Proud First

I envy the clinician.

When students are getting taught of humanities and social science, they need attractive place for composing their emotions.

We need fascinating space to have a dream and ambition.

In other hand, students specializing in natural science need large room in order to do experiment.

We need just enough space to have equipments for our lab.

But it is disclosed that he stays in the US for 1 week; I do during 1 month.

I am really jealous of the scientist.

Proud Large baggage

Scientist enjoys long trip rather than high trip.

Time to spare is more precious than money to spare.

Episode 106: Money to spare, time to spare

Episode 108: Declaration when I receive the tenure

I remember the day when I received the tenure from my university.

My graduate students! I finally acquired the retiring guarantee.



Lab

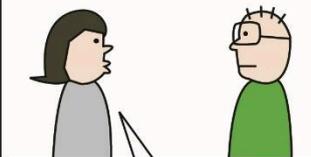
Congratulations!

From now on, the research that we do is not for me.

But don't you have to keep making your scientific accomplishments?

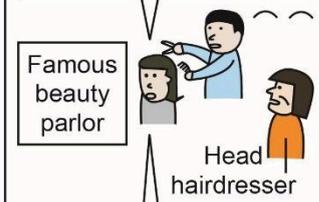
Episode 109: Beauty parlor and university

I heard a story which occurred in the beauty parlor from wife.



The famous beauty parlor is so busy that the head hairdresser does not serve the customers.

Instead her assistants serve clients.



Famous beauty parlor

Head hairdresser

If we want the head to do that, we go to other small one.

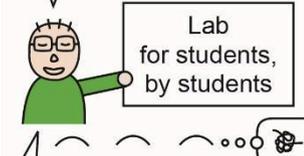
I have plenty of things to perform, including drawing cartoons.



Is this guy really a scientist?

But you are required to write the scientific articles in order to graduate and get a job.

I declare this lab is for your benefit. I really don't care from now.



Lab for students, by students

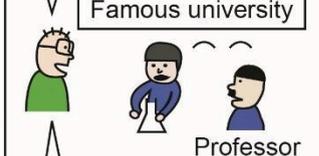
The contribution from me will be my treat to you, students. Be grateful.

So I told her about a similar happening in the university.



In well known university, there are so many projects that are going on. So a professor cannot deal with all.

Instead, the graduate students lead those studies.



Famous university

Professor

If we want the professor to do that, we ask other small university.

Episode 110: Scientific English is daily one.

I had an oral presentation in a foreign scientific meeting.

I appreciate your kind attention.

ABC?

When I was done, someone asked me a question in hard English.

I calmly requested.

Make it easy for me to understand.

The scientific English must be uncomplicated.

I remembered when I was doing a military practice in South Korea.

A drill instructor

Anticommunism

Study why communism is bad. I will see you next time.

This task is especially hard for me, a scientist.

Book on communism

You are having a hard time due to communism. So you hate communism and wish it to disappear.

After the meeting, I became a backpacker in the city.

Where?

DEF!

When I asked a citizen, she answered in complicated English.

I appealed again.

Make it easy for me to understand.

When I just apply the scientific English, it becomes a daily English.

Be a good soldier to destroy communism.

I think this kind of new teaching approach is effective.

Now, I instruct my students that way.

Study why having presumption in science is bad.

Presumption

The presumption is causing you so much pain. So it should vanish.

Episode 114: Greenhouse and wild life

I divide the labs into greenhouse and wild life.

Pro-
fessor

Greenhouse

Lab money

Articles

The rich lab that gets a lot of grants and papers is the greenhouse.

In the greenhouse, a professor can scold student more often (bad thing),

but the student gets more product out of it (good thing).

Scientists are similar to the noble people. They usually hold academic meeting in the hotel like a palace.

Hotel

But the fancy hotel discomforts me.

Scientists receive a great hospitality in the venue.

Opening ceremony

City Mayor

University President

It is an honor to have such a great scientists in our city today.

Boring.

The opposite poor lab is the wild life. The professor doesn't blame the student as much (good thing),

Pro-
fessor

Wild life

but the student gains little amount of the fruit (bad thing).

However, if the student researches hard in the wild life, he can become a very successful scientist equipped with independence.

The flower that grows in the wild life gets stronger.

Scientists wear expensive clothes.

Banquet (Dress code...)

However, there are scientists who put on comfortable outfits like me.

Scientists also have to pay a lot of money for the meeting.

Registration

I pay as much as I enjoy the noble game.

(To be continued)

Episode 116: Scientists look like the poors.

(Continuing)
The scientists are the poors in their labs.

In order to be a noble in public,

I need to be a vulgar fellow during experiment.

Please eat.

Please sleep.

In the case of biological field, the scientists take care of the mice really well.

I met such a fierce scientist.

I can categorize what scientists say into two things.

Scientists like to classify things. That's usually crucial job.

The first thing is the important conversation.

Consequential talks

Those are our words when we are doing the research or trying to teach.

The scientists also help the mice get pregnant.

I wish this mate is better than the last one.

They have more preferable life than me.

Some scientists say they treat lab mice like their pets, but I treat them as noble beings.

It's a good thing that the mice don't wear any dress. Just thanks.

The second one is the funny conversation.

Humorous talks

Scientists cannot always be serious. I also like to say things that are amusing like Dr. Scifun.

Scientists never say things that are neither significant nor interesting.

Useless talks

She warns me not to speak futile words. She's rigorous.

Episode 118: First, second, and third trials

Science has first, second, and third trials. For example, I cut the cadaver into many pieces to get sectioned images.

I produce the raw data, so that's the first trial.

The computer expert stacks these images to reconstruct three-dimensional model.

If cutting is like differential, putting back together is like integral.

She makes something with the materials so that's the second trial.

Three scientists were walking through the restaurants, where solicitation disturbed them.

Food court

Come to our restaurant.

The first scientist just ignored her silently.

I'll give you a great discount.

Scientist needs to resist the temptation and run way from it.

Medical doctor does application job with the model.

Virtual surgery of the model on computer enhances my operation skill.

He employs the end product, so that's the third trial.

All say their trials are the most important part.

The first trial creates from nothing to something.

The second trial is most scientific.

The third trial is like using the real sword, not the practice sword.

The second scientist just told her nicely.

I'm not really that hungry right now.

Then please come by later.

OK.

Scientist needs to make a good negotiation with anybody.

The third scientist just disarmed her easily.

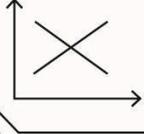
Grabbed a picking tool as if he came out from the lunch.

Scientist needs to prepare tool that will help oneself.

Episode 119: Philosophies of three scientists

Episode 120: Scientists chasing the prevalence

Science follows the popularity.



The college acceptance rate used to be higher for the physics and chemistry, but now, the biological science has higher.

That's because biology became more prevalent.

Nobel awards → Biology

These days, even the Nobel awards for physics and chemistry are related to biology.

Episode 121: Marketing manager and scientist

I met a marketing manager.

I have no arriving and leaving time in my company. I just do amount of work as want.

Achievement

I get paid only by how much I sell.

I am exactly like that. I am not praised because I am in my office for large amount of time.

Achievement

I get approved only by how much I publish.

Following current fashion, scientists sometimes have to make big changes to their research.

Prevalence

That is how they receive the grants and publish papers.

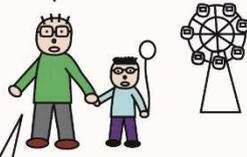
But there are genuine scientists who just ignore the trend that's going on.

Prevalence

Pure scientist Popular scientist

Both pure and popular scientists are needed.

For the scientist, break days are both good and bad.



Break time is in reverse proportion with my accomplishment.

I am horrified by a bad product.

I feel hell by a bad result.



Marketing manager and scientist are the perfect examples of capitalism.

Episode 122: Physical tragedy of scientist

I think about how I get really battered. First, my face becomes pale because I am stuck in the lab 24/7.

Lab

Even people need photosynthesis by sunlight.

Second, I eat whenever I am thinking; and eventually overeat since I am stressed.

Restaurant

I guess the food that I have doesn't go to my head, but to my belly.

(Continuing) I see how my social relationships get ruined.

No entry

When I am concentrating on experiment and paper job, I only meet the lab people and nobody else.

First, my communication with friends gets less frequent.

Not only mates but also other scientists are ignored by me.

Third, when I sit on the chair for a long time for writing, my ass gets really big.

Article

Office

Scientist is not the person with great brain but with heavy butt.

Like this, scientist sacrifices one's body for science.

Science

Isn't it for your own good?

(To be continued)

Second, I get separated from my family too.

I understand that I'm going to get blamed by my child when he grows up and that my wife might divorce with me.

However, when I overcome these hardships and become full scholar,

Friends Family

then I have some free time to catch up with the friends and family.

Episode 124: I envy school teacher.

The school teacher and professor are envious of each other.

62 year old-retiring age

65 year old-retiring age

Professor retires 3 years later than teacher in Korea. I envy you.

Teacher gets the job 5-10 years faster than professor, right?

Started at the age of 24

Started at the age of 31

The amount of money we takes seems similar.

I see some awkward calculation.

$$360 \text{ days} \times \frac{8 \text{ hours}}{24 \text{ hours}} = 120 \text{ days}$$

Roughly, one year is 360 days and a day consists of 24 hours, while I work for 8 hours. So it means that I work for 120 days in a year.

One year includes 100 Saturdays and Sundays. Also there are 10 national holidays and other 10 vacation holidays.

$$120 \text{ days} - 100 \text{ days} - 10 \text{ days} - 10 \text{ days} = 0 \text{ days}$$

Consequently, I don't have a single day that I work.

Professor receives additional money for research.

Do you know how hard I work to get it? Moreover, I can't bring the money home.

Teacher doesn't have to write scientific articles. I am jealous.

If you envy, why don't you switch our jobs then?

Could I do it?

This calculation is wrong, because not working time (16 hours) and holidays (120 days) overlap.

360 days

24 hours

16 hours

120 days

I can draw the assembly diagram to make it simple.

120 days

16 hours

In conclusion, I have to work.

Episode 126: I can't eat the dish!

I ate rolling sushi.
After eating, they calculate by the amount of empty dishes in front of me.

One dish costs X \$.

I dislike the dishes.

If I desired to pay less, I just would eat the dish itself.

Even though I already know that I can't eat the dish.

I go to the airport to catch a ride. But I arrive too early, so my body is uncomfortable.

What is the best way to exhaust time here?

In reverse, if I go to the airport late, my mind gets very uncomfortable.

I'm nervous about missing the airplane.

Airport bus

I'd rather have my body uneasy.

I went to the lab and examined the lab results.

A result that came out to be great A result that came out to be not that great

I hate the negative result that interferes hypothesis.

I felt the urge to just destroy the negative result.

Even though I already know that I can't throw away the result.

When I'm doing research with other scientist, I need to keep the promise. So my body becomes uncomfortable.

Cooperative research

There are so many things to do until the due date.

If I break the appointment, my mind is genuinely uncomfortable.

Phone

I should say sorry. I'm afraid that he's going to be mad at me.

I'd rather have my body uneasy.

Episode 128: Don't take the ride, just walk. 1/2

I see a graduate student who likes to ride in travel.

- Bus
- Train
- Boat
- Cable Car

I'm going to get on all of them.

If one rides something, one sees it from the far distance, which is basically the same thing as TV.

I walk around so I can see it closely, and get a chance to touch.

(Continuing) I see a graduate student who slacks off during her study.

The first experiment's result came out to be...

Good job doing the research. But...

How are these two results similar?

I never thought about their relationship.

This student never connects two results.

I just take rides to approach destinations.

Museum

Bus

That is the traveling by points, whereas walking through is the touring to connect those points.

Walk

Watch

Walk

Watch

I recommend the old downtown consisting of condensed sightseeings to enjoy walking.

(To be continued)

Your problem is that you just know by points.

Know

Know

Know

Why don't you study associative things between the knowledges?

Instead of memorizing, try to understand the correlation.

Realize

Know

Know

Know

Just like traveling, connect points and make lines.

Episode 130: Dr. Scifun and perfume store

I saw a person who criticized my cartoons.

Dr. Scifun

The unsatisfactory comics don't teach students scientific knowledge unlike study cartoons.

Dissimilar to current-affair comics, your stuffs really do not show what the correct scientific policy should be.

Yours just exhibit useless backstories.

Useless?

I find a problem while eating a buffet.

I try to eat everything I can, but overeating causes body aching.

Reversely, if I don't eat a lot, it seems that I just wasted my money to yield mind aching.

I need to have a proper meal to save my body and mind, but that's hard.

Just go around inside a perfume store, don't buy anything and come out.

Why is he talking about perfumes?

And the fragrance of the perfume will cover your body.

Like that, read the science episodes in my cartoons with a light heart.

Dr. Scifun

Well

Then, the thought of scientists will penetrate your mind.

In my work place, the similar thing occurs.

Scientists always think that they are still young.

When I work too hard, my body starts to ache.

To the contrary, if I do little bit of research and the results come out to be bad, my mind gets to ache.

Papers

I need to do appropriate amount of work, but that's difficult.

Episode 132: Participating in foreign meetings

I think about the participation in foreign scientific meetings.



Unlike the domestic ones, it takes a lot of time and effort, so I consider carefully.

During 30s, I care about science itself.

New research coming soon.



How are these talks going to help me do experiment and write papers?

I explained the scientific accomplishment using baseball.

For scientists, it's better to submit 10 articles and get 3 published



than submitting 5 articles and getting 2 published.

It's the same thing as the number of hits is more valuable than the batting average.



Number of hits

The batting average of 0.300 is OK, so write and submit as many manuscripts as possible.

During 40s, I usually care about sightseeing.



What are the famous and attractive places in the country? Are those cities safe even during the nighttime?

During 50s and 60s, I just care about relaxation.



What is the weather like in the site? How am I going to overcome the jet lag? Is everything cheap there?

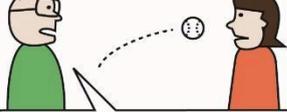
However, the run batted in is definitely more important than the number of hits.



Run batted in

This means that scientists should increase their quality of articles by considering the impact factor of the journals.

Finally, the homerun is the most significant.



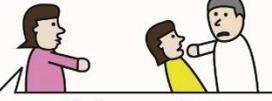
Homerun

The homerun is real impact like the great article affecting other scientists and people.

Episode 135: Daughter first, student first

I hear a funny story from a dentist.

Dental clinic



Get cured first.

When both mom and daughter have some kind of problem with their teeth, mom always tells her daughter to go first.

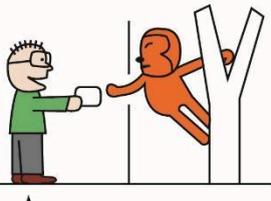
When daughter screams in pain, mom decides to go to another dentist.

Ouch! Be calm.



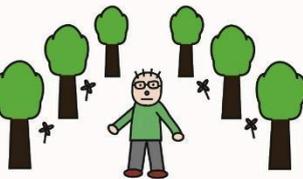
This is not a good place for me.

When I was young, I used to like the zoo.



I really enjoy giving foods to animals and seeing their reactions.

However, when I get old, I like arboretum better.



I enjoy walking around while I'm thinking.

I use similar tactic in the academic meeting.

I'm giving you a chance.



Podium talk

I tell my graduate student to go on a stand first.

If the response comes out to be negative, I decide not to do the presentation next year.

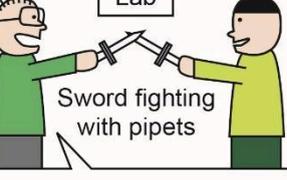
That is a bogus research! What?



This is not a good place for me.

When I was a graduate student, I used to work in the loud lab.

Lab



Sword fighting with pipets

I enjoy fooling around with my colleagues like animals.

However, after I become a professor, I work in a quiet office.

Office

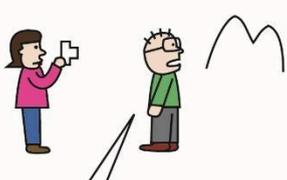


I enjoy writing papers while I'm thinking.

The lab is like a zoo, whereas the office is like a botanical garden.

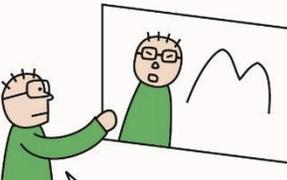
Episode 137: Background decides picture, or model does?

When I take a picture, I try to focus on the environment.



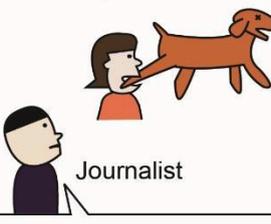
Where do you think I can get the best background?

However, when I see the picture, I concentrate more on the model.



Why's my face looking so weird?

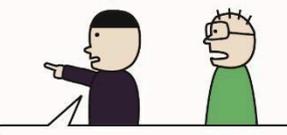
I heard from a news reporter.



Journalist

When a dog bites a man, it can't be a story, but the reverse situation can be.

Unusual incident or something against common sense makes good article of newspaper.



If a scientist achieves greatly, it will be introduced on the science page.

When doing experiment, I focus on the materials and methods.



How should I do this experiment in order to get the best results?

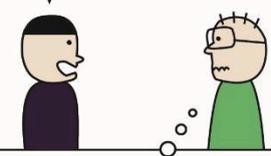
However, when I'm writing, I concentrate more on the introduction and discussion.



Why did I investigate this topic?

Main concern of paper is the purpose of research.

But if he/she commits an illegal act, it appears in the general news page.



Can I say that crime is another way to popularize science?

If scientist hits someone, it materializes in the paper.



However, if the scientist gets hit, no news.

Should I be beaten?

Episode 139: Side job of scientists

I emphasized that the greed for side job is bad.

Junior scientist

To be the dean of college or the director of research center deprives scientists of research time.

In addition, the positions are succeeded, one after another.

Good bye!

Unavoidably they get away from science.

I compared South Korean economy with its science.

Gross national product

1960 1970

Korean economy became very profitable after 1960's.

The wealth progress is sudden,

so that Korea has lesser quality comparing to the developed countries that have been prosperous for long period.

Scientists look down their noses at the side job.

How long have you committed the job?

I did not still very much.

Likewise the researchers in the duties may be fun.

Be closer to science rather than positions.

I know. Thankfully I see many investigators regarding the sideline.

It's like thinking that people who get suddenly rich have no intelligence whatsoever.

Overnight millionaire

It's obvious that Korean scientists have a hard time obtaining the Nobel prizes.

However, if Koreans continue to improve their achievements in science,

Air ticket for Sweden

it's just a matter of time they receive Nobel prizes.

Episode 141: How long did it take?

I heard a boring talk.

Muttering... I finish with that. Thank you.

Chairperson

Do you have any question?

I really didn't understand what the presentation was about, but I had to ask a question.

...

Silent

It would be really embarrassing the presenter if nobody asks.

I explained what the job of scientists is like.

Monthly plan

For scientists, monthly plan is more important than the daily plan.

In other words, we scientists get evaluated by our monthly work, not by our daily work.

Monthly evaluation

Let's divide a month into the first half and the second half.

In this kind of situation, I could simply ask.

How long did it take to do the research?

This question is very useful even though I am not in a scientific area.

My hobby is to collect coins...

How long did it take to collect them?

If we work like an ant during the first, we can play like a grasshopper during the second.

In reverse, a grasshopper is succeeded by an ant.

In reality, scientists start like a grasshopper and then finish like an ant.

D-3

I guess the late night working continues throughout our lives.

Episode 144: 0 floor and 0 year

I see the 0 floor in Europe.

In US, when I step into a building, it starts as the 1st floor, while in Europe, it starts as 0 (lobby).

European 0 floor is quite scientific.

What's the difference between the 1st floor and the -1st floor?

Thanks to 0 floor, the calculation is real.

However, there is no 0 year.

The different between 1 AC and 1 BC?

But, there is no 0 year, so the answer should really be 1.

Because of absence of 0 year, the first century starts from 1 to 100. The 21st century runs from 2001 to 2100.

However, actually the 21st century is from 2000 to 2099. This is less scientific and confusing.

Episode 145: Destruction of environment

I met a scientist who specializes in ecology.

Ecosystem is a balance between organisms and environment that coexist with each other.

There are people who destroy this ecosystem. For example, they cut down trees and spoil it that way.

Destruction of ecosystem?

Then, I realized the balance between the men and the women.

In reality, male and female coexist with one another and make the equilibrium.

However, there are people who destroy this.

For instance, a handsome guy occupies a lot of girls, so an ugly one like me has no chance.

Episode 146: Learning by getting scolded

I remembered when I was scolded by my professor during my graduate student year.

Experiment A



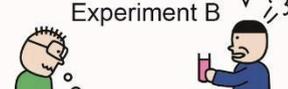
I have something to tell you about experiment A.

Do you have to say experiment A? Think before you speak!

Next day, I was blamed again.

Why didn't you state experiment B? If you are confused, just spit out everything!

Experiment B



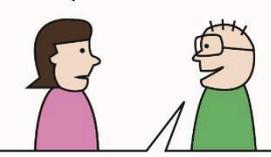
I don't know whether I should tell him or not.

I met a professor in Seoul National University, the best in Korea.



People tend to think that because students in my university are excellent, I am better than professors in other university.

But in reality, professors in all are similar, right?



I agree. Every professor is the professional.

He was upset while I was writing article.

Is it really necessary to write experiment C? Also, why did you forget to mention experiment D?

Experiment C



I wonder which one I should write.

But thanks to the boss, I finally learned about scientific talk and paper.



A student studies how to speak and write by getting scolded, whereas he/she can teach oneself how to do an experiment.

Furthermore, it is thought that the professor in my university should be a mentor everywhere she/he goes.

Cheers!



I'm just a scientist who enjoys doing labs and having fun.

As a scientist, my university is an inconvenient site to be in.



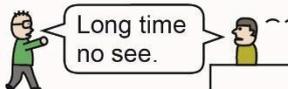
Different universities or other research centers would be better.

You're not going to move to anywhere.

Episode 148: Businessman and scientist 1/2

I went to a high school reunion.

Meeting of alumni



Long time no see.

Throughout the alumni, businessman is treated the best.

That is because he takes the president of reunion, who pays a lot.

Businessman

Scientist



The scientist sometimes eats complimentary food and drink.

(Continuing) I listen to what is in my friend's mind, who is doing a business.



A businessman cannot expect to earn money after slacking off, while an employee can.

Meeting my worker, I come out with a calculation.

Company coffee

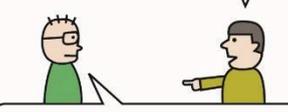


Haha

I am giving the worker those amount of salary a month. That means XXX dollars a day, XX dollars an hour.

The businessman often looks down on scientist.

Learning during high school years is not that important. Even if you study, all you can become is a doctor or a professor.



That's correct.

But other times, he looks up to scientist.

Let's meet up with my family next time. I want to show off to them that a scientist is my friend.



I'm all in if you buy me. (To be continued)

In conclusion, it kills me when the workers do something else during duty hours.

Boss!



In order to make both the company and ourselves better, we need to think of our time as gold...

That makes me realize that business is far more complicated than science.

Respecting



It's not the dumb person who does business. A person, who's not good at the business, had better be a scientist like me.

Episode 149: Businessman and scientist 2/2

Episode 150: Big lab vs. small lab

My junior colleague was worrying about doing research in a foreign country.

I don't know if I should go to a big lab or a small lab.

If I work in a big lab, I can see and experience a lot, which will expand my knowledge.

Experimental lab
Crowded

My experiment skill will increase dramatically.

I emphasized no sexual prejudice in science.

Career counseling of female student

Is there still sexual bias? Even if it were so,

science is the field having least sexual discrimination.

It is because they don't care about the gender in profession.

If I work in a small lab, I can meet up with the professor more often.

Professor's office
Cozy

My article writing skills will hopefully improve a lot.

Which one should I go to?
Has he been always hard-working?

Just choose any place and be industrious. The diligence of learning is more important than the environment of learning.

For lady scientists, the policy is sometimes bad,

Since they have to overwork for achievement after women's holiday.

No sexual prejudice means more responsibility of female.

I hope you would be a feminine researcher having a big right and duty.

Episode 154: Making title of thesis

I recall that I had troubled with my thesis.

Academic advisor
Master's degree
Doctoral degree

You should decide the title of your thesis.

I brought a title with contents which was unfamiliar to my advisor.

I can't help you with it, and then you might get stuck with your experiment.

I advise a graduate student to be thrifty with allowance.

Skip the meal.

And you can lose weight and save money.

Walk instead of riding.

And you will also be healthy and economical. I feel like he tries to give me less labor charge.

So, I created another title with poor contents to carry out effortlessly.

If you go with this title, you will have a hard time getting published.

I came with another title with profound contents to succeed in the review.

Then it is difficult to experiment. Deciding the title is half of the research.

However, I nag her not to spare the experiment charge.

Cheap equipments and reagents might bring about bad results.

On the other hand, spending lots of money is suggested for the good outcomes.

Why don't you raise my personal expenses?
(To be continued)

Episode 156: Don't save money.

(Continuing) I heard a secret of success of a restaurant's owner.

I shouldn't get along with the chef.

Nagging

She is so annoying.

I use costly food materials exceedingly to make her go out of the business.

Then, customers come a lot. There is no problem with material charge.

Episode 157: Scientist on broadcasting 1/3

I watched a scientist in a TV with my son.

Science broadcasting

Dad is a scientist, then why aren't you there like her?

I don't need to be popular like a celebrity.

It doesn't mean I am incapable. I am just doing my research.

I adapt the secret to my laboratory.

I ain't on good firms with the graduate student.

Scolding

He is bothersome.

I employ dear reagent much to bankrupt the lab.

Then results appear the best. There exists no issue with reagent expense.

In fact, I can't be on transmission. The newspapers and magazines need only acquired effort.

These cartoons demand the same attempt too.

However, showing on a broadcasting media calls for congenital talent.

The scientist on the air gets one's gift by nature, not by endeavour.

(To be continued)

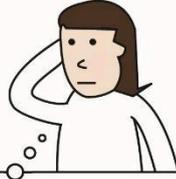
Episode 158: Scientist on broadcasting 2/3

(Continuing) Korean broadcasting director prefers the oriental doctor to the medical doctor.



Is steamed rice healthier than bread?

Medical doctor is afraid to be blamed by other clinicians.



I will be in trouble if I say the unclear truth.

(Concluding) I met a scientist who is on TV frequently.

Do people recognize you on the street?



Yes, it discomforts me,

especially when I do bad things.

Night club



Do honorable people like you spend time here?

So she doesn't tell a story that the director wants.

I am not sure.



But oriental doctor does.

Yes, according to Ying-Yang and Five Elements theory, ...



Any scientist can be on TV after ignoring censure.

Is the earth going to be destroyed?



Yes, in accordance with ancient scientists...

(To be concluded)

I am being bullied by colleague scientists.



He discomforts us, so we should go clubbing without him.

I won't be on air even if my comic gets popular.

Attending karaoke bar



Can I say a mysterious cartoonist without face?

Episode 161: Reason to blame

I criticize a girl who wears a short skirt.

Whose daughter is she?



Sexual assaults happen because women expose too much.

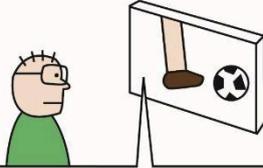
The truth is that I want to watch her so long.

I can just glance at her if I don't blame.



I will accuse a swimming miss in bikini the next time.

I watched a soccer match on TV.



That team has great talent, but they can't get a goal because they are not good at shooting.

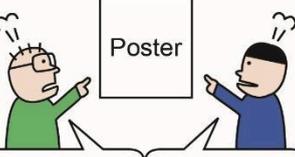
This is nonsense! Poor shooting skills means no soccer skills.



Real soccer is won by spectacular shooting.

In the academic meeting, I condemn a good lab.

Poster



They get too much funds compared to others.

They publish too many articles with the work.

The real reason of criticism is that I am curious about the secret of their success.

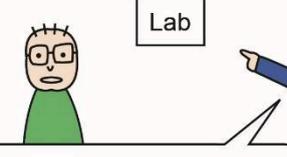


During the chatter I may reveal their recipe.

I can imitate what they are doing.

I heard an opinion about a laboratory.

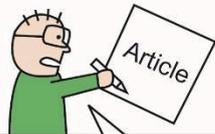
Lab



They have fine research skills but can't produce articles because of their lack of writing skills.

This is ridiculous. Poor writing skills means no research skills.

Article



Real research is accomplished by publishing manuscripts.

Episode 163: Evidences of oldness

Episode 164: The colder climate, the bigger body.

I told a senior scientist that he is old.

Scientist tries to live young, so he forgets getting old.

After finishing daily research, which do you want to eat, fast or slow food?

I prefer slow food.

That's an evidence of oldness.

People who live in a cold climate are big.

They can survive in the extreme cold weather with large body because of heat efficiency.

Suppose that human body is a ball with radius r.

Are you keeping a secret due to your tied tongue or bad memory?

Now a day I've forgotten a lot.

That's another verification to be old.

Does your heart pound or your leg shake in podium talk?

I used to have quickly beating heart, but my legs tremble a lot recently.

That's the other proof.

Heat production and emission from a body is proportional to its volume and surface area, respectively.

$$\text{Efficiency} = \frac{\text{Production}}{\text{Emission}}$$

$$= \frac{4/3\pi r^3}{4\pi r^2} = 1/3r$$

Therefore, long radius means high heat efficiency.

Now there is no need to be huge in the great heating system. It just causes big meal.

Episode 165: Main experiment < Preliminary one

I met a person who looks down on a preliminary experiment.

Unlike main experiment, preliminary one is done roughly, right?

No, Preliminary study is more difficult.

In the process of trial and error, the investigatory method must be set up.

During a visit to China, I asked a product price.

How much?

The owner couldn't speak English and didn't have a piece of paper to show me the cost.

Then, she pulled money from her pocket.

10 Yuan

Brilliant! She knows how to communicate without words.

Let's say that the main is a physical labor,

Physical labor < Mental labor

and then the preliminary is a mental labor.

If main experiment is a factory job by a graduate student,

Factory job < Laboratory job

preliminary experiment is a genuine laboratory job by a scientist.

I do the same in my lab.

How should I make the poster for the conference?

Former poster

Make one like this one.

How should I write an article?

Use this as a model.

Former article

It is easy and clear to express my intention by stuff rather than words.

Episode 167: Science and comics are consistent.

I found something common in science and comics.

When I draw these science comic strips, I often compare them.

Both are consistent.

Liberal arts or social science can be changed.

Is communism good or bad?

Science has constancy.

1 + 1 = 2

I met an antisocial scientist.

In his office, Internet is used for the research only, and E-mails are opened once a day to be replied.

He doesn't possess a cell phone.

I am not irritated. I am sorry a little for the others because they are annoyed.

Arts can be changed.

When Vincent van Gogh was alive, he sold only one work.

Comics have persistency.

Whenever, wherever, whoever laughs after reading comics, the comics are good.

We cannot lie with the objective science and comics.

He doesn't get the phone in the office.

He silenced it.

In the same institute, people just call with trivial things,

but they reach me with important business.

He is willing to meet visitors.

Even if someone blame me, I prefer the antisocial life as I can concentrate on the research.

Dr. Scifun

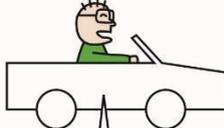
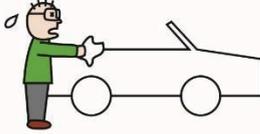
MS Chung (anatomy.co.kr)

Dr. Scifun

MS Chung (anatomy.co.kr)

Episode 169: Scientist, not memorizing human names

Episode 170: What is what's slave?

<p>I realize that a scientist can't memorize people's names.</p>  <p>Scholar tries to understand the research, and he/she makes no effort committing to memory.</p>	<p>As getting older, he/she can't remember the names seriously.</p> <p>Your names are...?</p>  <p>Problem gets bigger because the aged person has many acquaintances.</p>	<p>I inquired what is a slave.</p> <p>Car is human's slave.</p>  <p>Car does the work that servant did in the ancient times.</p>	<p>Someone is car's slave.</p>  <p>I cleans, fixes and waxes my car every day.</p>
<p>While a boss is called simply,</p> <p>Professor!</p> <p>Mr. Kim!</p>  <p>the colleagues are designated separately to distinguish. Therefore, drawback is worse.</p>	<p>The last difficulty is that the junior hopes the senior's awareness of oneself.</p> <p>Can you say my name?</p>  <p>I can't retain even your face, what do you want?</p>	<p>Science is the slave of people.</p> <p>Washing machine</p>  <p>Scientific product does what lackey did in the old days.</p>	<p>Scientist is the slave of science.</p>  <p>I give my body and soul for the research every day and every night.</p>

Dr. Scifun

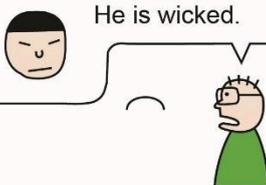
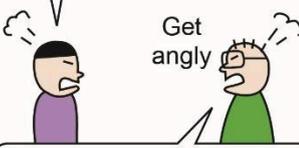
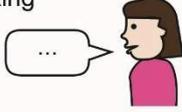
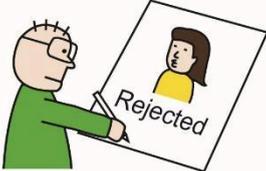
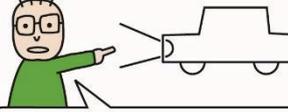
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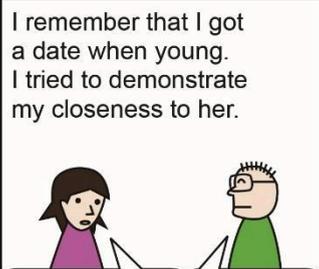
Episode 171: Blame not existing person.

Episode 172: Basic lights, headlights

<p>I backbite an absentee.</p> <p>He is wicked.</p>  <p>There is a problem when I blame attendee, but it is OK to do someone who is not there.</p>	<p>I can be questioned later.</p> <p>Did you say that I am bad?</p> <p>Get angry</p>  <p>I mentioned that you are badly diligent. Who told you an untruth?</p>	<p>A graduate student doesn't talk her opinion and just listens to others.</p> <p>Speaking</p>  <p>On the second thought, she is very cautious, but she is also cunning.</p>	<p>I think this is it, isn't this?</p> <p>...</p>  <p>Why don't you say your thought?</p> <p>If I tell, some people may make problem with it.</p>
<p>During the article or proposal evaluation, I fail someone's.</p>  <p>Occasionally, it gets caught that I judged.</p>	<p>I can be challenged.</p> <p>Did you eliminate mine?</p> <p>Be furious</p>  <p>I gave you a good score. Who lied to you?</p>	<p>In spite of the complication, scientist should talk one's idea.</p>  <p>In a car, basic lights are to show one's own car, and headlights are to see other's car.</p>	<p>Turning on the basic ones is followed by kindling the headlights.</p>  <p>It is the same for the conversation. Say your view point first, and then hear other's.</p>

Episode 173: Stationery store in school

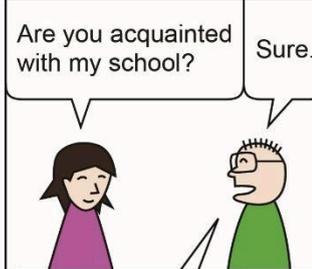
I remember that I got a date when young. I tried to demonstrate my closeness to her.



I went to So-and-so high school. I know.

Are you acquainted with my school? Sure.

There is a stationery store inside the school. (Matter of course)



During a protest, tonsure ceremony happened. People were interested in why he had his hair cut.



What is the purpose?

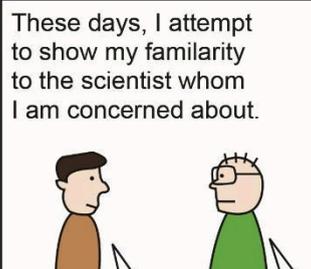
But I minded how he took the tonsure,



What kind of haircut tool is employed?

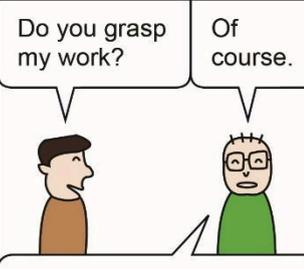
because I have the identical hair style.

These days, I attempt to show my familiarity to the scientist whom I am concerned about.



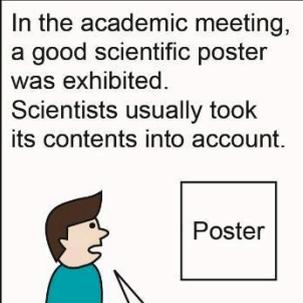
I am doing this kind of experiment. I catch it.

Do you grasp my work? Of course.



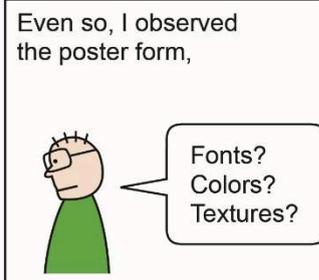
Experimenters are more important for your research than the equipments or reagent. (Common sense)

In the academic meeting, a good scientific poster was exhibited. Scientists usually took its contents into account.



What kind of research do they conduct?

Even so, I observed the poster form,



Fonts? Colors? Textures?

because I produce my poster soon.

Episode 175: Article succeeded by presentation

Episode 176: Accompanying magnificent scientist

Most scientists present their research in an academic meeting, and then publish it in a journal.

I do the reverse. I publish my research in a journal, and then present it in a meeting.

(Some academic meetings don't allow this kind of presentation.)

The research fund is not divided equally, and the magnificent scientist takes its majority.

Science follows the law of the rich-get-richer.

A person needing the research grant must become a great scientist, or should accompany the prominent researcher.

In the latter manner, I can get a good script and slides from my article.

I memorize a first-class speech to improve my English.

Moreover, I get authorized by a slide showing that the article was already published.

There is no argument about my research which is already published.

Chose I to accompany, I would definitely be servile.

I will do whatever you tell.

Science keeps the law that the strong prey upon the weak.

Brown-nosing is also an essential job.

I heard that you have been distinguished ever since you were young.

I do feel not bad.

Episode 177: Proposal writing after experiment

Episode 178: Diary in advance, article in advance

I write a proposal for research grant after finishing the experiment.

Because I possess the result already, I can write competently.

So I have a better chance of receiving the fund.

The fund is used for the next experiment.

In my elementary school, I wrote a diary, which was the summer vacation homework, thoroughly at the end of the break.

However, a friend wrote it all at the beginning.

If I finish early, I can comfortably spend vacation.

But your diary is a lie.

I can follow the plan as I wrote in the diary.

He is smart.

After a year, obtaining the next result, I create another proposal.

The fund is for the next too.

I am happy to be given the money continuously.

Research foundation is satisfied as the result is coming out clearly.

I met a similar scientist.

That scientist composed the article before even doing the experiment.

After finishing, I can enjoy the lab job.

But that is a fake article.

I can conform to the procedures in the written paper and get the same results.

She is smart.

Episode 179: Fact + Theory = Article

The fact and theory make the article.

Fact + Theory = Article



The fact mainly appears in materials & methods, results, whereas the theory in introduction and discussion.

The article with no fact is a fantasy.

~~Fact~~ + Theory = Fantasy



I can't believe any story that is like a fantasy novel or fantasy film.

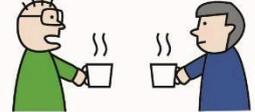
I classified the patterns that a scientist visit my laboratory.

Long time, no see.



I want him to stay longer.

However, he just has coffee that I name transit.



At the airport, transit means that an airplane stops by. Passengers can only see the airplane.

The article excluding theory is chaos.

Fact + ~~Theory~~ = Chaos



I don't recognize what the author is talking about. It is just confusing.

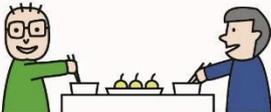
Fact and theory are needed when enjoying a chat.

Fact: I saw a neighbor's husband with a girl.



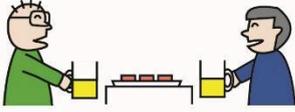
Theory: Can we say that he was cheating?

If he has lunch, I call it transfer.



Transfer means that the airplane is changed. They can see the airport.

After drinking, he sleeps, which is stopover.



Stopover means that the next airplane is taken after one day or more. They can see the downtown.

Episode 181: To play a trick on colleague

I scolded a graduate student who bullied her colleague.

Even though he was mean, you must not tell a lie that made him work in vain.

He wasted time, but you could be expelled from the laboratory.

I used a metaphor to give enlightenment.

When I was young, most papers were written in Korean and submitted to Korean journals.

Domestic journal

At that time, the border between diligent and lazy scientists was obscure.

Idle ones could publish articles,

Domestic journal

Yawn ≈ Manuscript

because reviews were not strict.

You are climbing a cliff by a rope, held by your colleague on the top.

If I release the rope, he gets a big bump on ass.

Let go the rope. What is going to happen to you?

Remember that you become hurt more than him.

Even a non-participating senior scientist could be the author.

I helped you become a professor.

Nowadays, SCI journals don't permit quack articles.

SCI journal

Scientist's laziness cannot be concealed.

The authorship is no longer free.

Episode 183: To confess the illogic

I meet a scientist who isn't familiar with a lecture.

Illogic, so difficult

She speaks illogically.

Stories aren't connected with each other.

Understanding

Memo-rizing

In students' place, understanding decreases, but memorizing increases.

In a public area, scientists enjoyed dirty jokes.

A passer-by

After taking Viagra, a brave male sparrow says, 'Where is a female eagle?'

Haha. Dr. Scifun is funny.

How can a doctor say such an obscene with drinking?

It is better to say illogic frankly.

Illogic

I am sorry that you just memorize this.

It is illogic because people don't know yet; it needs more research.

Illogic

Illogic

I am ignorant and have to study further.

It is more scientific to be straight.

Professor Scifun! Have you had fun at the strip bar yesterday?

How dare a professor take pleasure in such a vulgar place? Look at his wicked hair.

In the communal, it is etiquette to cover each other's status.

Call me Mr. Scifun or just Scifun.

Episode 185: Advanced country cars

I was disappointed when I traveled in the developed countries.

United States, Europe, Japan

The cars in the nations looked not strong enough,

because the mobiles gave me the road.

The vehicles maybe are cracked if I bump them. I look down on them.

I realize that I have been changed in the academic meeting.

Oral

When I was a graduate student, I seduced people that they should attend my talk.

I pursued attendees who passed by to see my poster.

Poster

Take a rest.

I was confident about my research.

I also despaired when I met a great scientist.

World famous laboratory

She appeared incapable,

since she said that I should talk first.

The investigator is thought to be going to lose if we have a debate. I underestimate her.

After being a professor, I lose assurance, since I comprehend my limitation.

Oral

Poster

It is OK even though you don't listen and look. I will present the similar ones next year.

Especially in abroad, I am a happy presenter with no Korean audience, since I need not care about reputation in my country.

International conference

I commit a perfect crime.

Episode 187: Modest mathematician

I heard that mathematician is humble.

The basic of mathematics is to solve the question.

Mathematician

Sometimes a student answers the problem that I cannot do.

It is like the national martial artist is beaten by a gangster.

I can make an excuse, but I cannot avoid the shame.

I give praise to a novice scientist.

SCI

I have published just one article in an SCI journal so far; therefore, I am ashamed.

One article or one hundred articles make no difference, since all authors are world-class scientists. Be proud of yourself.

SCI

SCI

Consequently, we should be modest.

That is because I don't do typical experiment unlike other scientists.

After listening to the story, I realized that I am armed by experimental equipment and reagent.

I am compensated for the hard job getting and managing my lab tools.

The journal that published my article has a less than 1 impact factor, which drives me regretful.

0.8

10

The more significant thing is impact not impact factor.

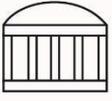
Your article must have a huge impact. Have some self-esteem.

Even if the newspaper has 0 impact factor, it is influential.

Episode 190: Science museum 1/2

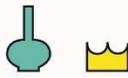
In the foreign country, I looked around history and science museums.

History



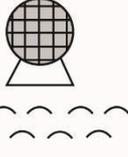
The history museum demonstrates how intelligent the ancestors were.

The smarter they were, they could give the descendants more remains.



Even though they bought or stole the antiquities from other countries, we have to approve them.

(Continuing)
I saw plenty of children at the science museum.



To learn science in the museum is good but unnecessary.

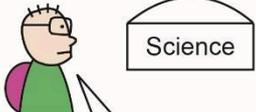
Instead, science should be enjoyed there.



The children require to realize how fun science is, and then they study the science at school eagerly.

The science museum indicates how clever the present people are.

Science



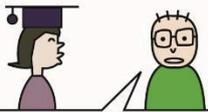
They can invent the outstanding displays without the relics.

Getting bright brings about not only the high level of science but also the fun and educational science exhibition.



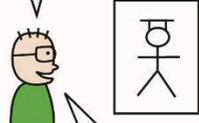
The museum is place to show off the power of their nation. (To be continued)

Furthermore, kids would have a dream to become scientists.



There are fewer youngsters who want to investigate in future.

In conclusion, the science museum is expected to be an amusing playground for juveniles.



In the aspect, my comics suit for the museum exhibition.

Episode 192: SCI, SCIE, SCIEN...

I analyzed the abbreviation "SCI" (science citation index) and others.

SCIE (expanded) journals have a wider range.

Usually SCIE journals mean what are not involved in the SCI journals.

I talked to a graduate student about money.

My precious money!

To learn gambling, we have to lose money.

Similarly studying science costs.

During undergraduate course, I paid for the registration fee, but after graduation, you spend instead of me.

(Jest starts.) SCIEN (national) journals have an even wider scope than SCIE journals.

They commonly contain domestic articles.

SCIENC and SCIENCE journals are wider and wider. (What do the "C" and "E" stand for?)

Eventually, the spellings build SCIENCE.

It is because you labor at my laboratory.

In other words, you pay for it with your work.

There is no such thing as a free lunch.

I mean you have to learn eagerly and accomplish something.

Episode 194: Don't be fearful of mistakes.

I told a graduate student that one should not be afraid of mistakes.

Everyone makes mistakes.

More misses mean better experiment.

When we travel, we need trial and error to grasp the city.

Just following a tour guide, we are comfortable, but not going through the city.

AM and PM are confused with one another.

Come to me at PM 12:30.

Does it mean daytime or nighttime?

PM 12:30 is during the day,

because it is just after midday.

Infants learn the language with coo and gurgle.

We realize the importance of health after destroying it.

It is inappropriate metaphor.

We comprehend the value of spouse after divorcing.

It is not right to suggest separation to the student who is never married. Absurd analogy.

It is confusing since PM 12:30 succeeds AM 11:30.

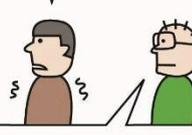
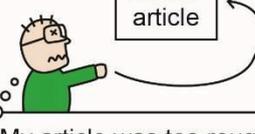
It would be clearer to use PM 0:30.

Best way to avoid misunderstanding is the employment of day 12:30.

It is scientific to make manifest.

Episode 197: Submit more articles. 1/3

Episode 198: Submit more articles. 2/3

<p>I saw a meticulous scientist who is so nervous about submitting articles.</p> <p>Publish, or perish.</p> <p>This sentence makes me nervous.</p> 	<p>If my article is rejected, I feel like I would vanish.</p>  <p>However, if you don't submit the manuscript, you really would vanish.</p>	<p>(Continuing) I met a scientist who is bold about submitting articles.</p>  <p>I submit a draft of my article, then reviewers tell me why they drop it.</p>	<p>Based on the comments, I polish the article and send it to another journal.</p> <p>Old article → New article</p>  <p>It is like finishing the article with the peer reviewers.</p>
<p>Don't be embarrassed about failing, but be ashamed of not submitting.</p>  <p>I prepare for rejection whenever I submit.</p>	<p>Sentence in the first frame is result-centered.</p> <p>Submit, or subside.</p>  <p>This process-centered one is more suitable to you.</p> <p>(To be continued)</p>	<p>There is no need to add the appreciated reviewers as authors.</p> <p>Anonymous peers</p>  <p>Another happy fact is that their teaching is free.</p>	<p>I followed the procedure, but the journal editor said that my article was not worth evaluating.</p> <p>Shame article</p>  <p>My article was too rough.</p> <p>(To be continued)</p>

Episode 199: Submit more articles. 3/3

(Continuing)
I met a scientist who is not tenacious about submitting article.

SCI
→ SCIE
→ Domestic

If I fail two times, I submit it to a domestic journal.

Why don't you try more SCI journals?
It is too early to give up.

Evaluation takes a couple of months, and it makes me sick.

When I was an adolescence, in the movie theater,

Government film

I had to watch in advance the movie to announce the government activities.

I got irritated.

Government film

What do I do during the main film time?

But now the movie is so valuable for the record of that period.

Submit several articles to different SCI journals at once.

Article A → Journal 1
Article B → Journal 2
Article C → Journal 3
Article D → Journal 4
Article E → Journal 5

In case all are rejected, change the order and challenge other journals.

A → 2
B → 3
C → 4
D → 5
E → 1

You have 5 chances. It is like a machine gun.

When I was a graduate student,

Undergraduate laboratory

I should assist the lab practice of undergraduate.

I was annoyed.

Undergraduate laboratory

What do I do during my experiment time?

But now the experience is so precious for my inquiry concerning the education.

Episode 203: Scientist is silent.

Different specialists gathered and chatted.
At the beginning, sociologist led the conversation.

Social club

In this international situation, the government...

Making the money with stock...

The fist is closer than the law...

Then, the liberal artist continued the gossip.

Issue was the white coats in laboratory.

Our coats are similar, so it is confusing.

My suggestion is that we use hierarchical military ranks.

Master's students are like soldiers, while PhD students are like company officers,

2nd year for PhD

postdocs are like field officers, and professors are like generals.

The psychology problem of the modern human...

To learn a foreign language properly... Do you know poem?

There was a chance for the scientist to speak.

My work has no fun, so we can just skip.

How about talking about the movie stars?

If the scientist wants to lead the meeting, he/she needs hobby not job.

Those ranks are useless.

National soccer team uniforms have stars that match the number of World Cup championships.

We should put stars according to how many SCI articles we have published as the first or corresponding author.

If I get a lot of stars, I will arrange them like the Stars and Stripes.

Episode 205: Red faces in committee

Scientists attend committees of university, institute, academic meeting, etc.

Committee →

I participate there regardless of my wish.

Scientists are naive, so they discuss eagerly.

There is no reason. There is no profit.

Committee

Red faces because of debating

In stadium, the gap between the rich and the poor is getting bigger.

The athletes who exercised enough exercise more.

On the contrary, the spectators who need to exercise don't exercise.

They just take a look, or eat and drink.

After exchange of views, Korean scientists have alcohol to release their stress.

Party

Red faces due to drinking

If scientists are flushed day and night,

the committee seems to work properly.

In academic meeting, the gap is getting bigger too.

Presentation Question

The scientists who studied enough study more.

In reverse, the scientists who need to study don't study.

They just take a look, or eat and drink.

Episode 207: What looks good often tastes bad.

There is a university, which has a beautiful wall.

The scene is spectacular.

Wall

But not good for our living.

We have to cross the broad driveway to restaurants and shops.

Wall

The facilities had better intervene between the wall and driveway.

I think about one's satisfaction and others' approval.

Satisfaction Approval

There could be research that satisfies a scientist, but others don't approve it.

For example, there is no article published in the journal.

Article

It could mean that the research is too advanced or too behind.

The office of a scientist is very neat.

Your room is arranged; everything is in order.

But not good for my research.

The space should be messy if I activate properly as a scientist.

The clean room signifies clean brain.

On the contrary, others might approve the research that doesn't satisfy the scientist.

Article Storage

For example, there is no pride in the article.

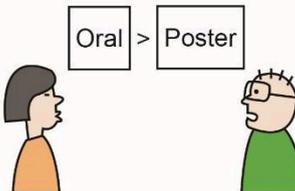
It is because the author follows the research fad by reading others' faces.

Scientist should compromise for others' approval, but be stubborn for satisfying oneself.

Episode 210: Oral presentation > Poster

Episode 211: Hopeful, disappointed

I think about oral and poster presentations in the academic conference.



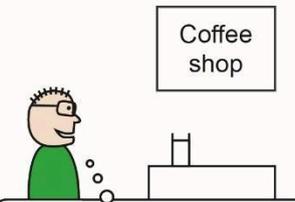
Generally the oral one is preferred to the poster.

Nevertheless, there is a scientist who says the poster is better.



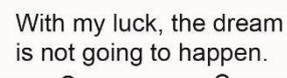
The poster allows personal discussion with no time limit.

I recalled youth, when I had blind date. Before I met my partner, I expected a pretty girl.



Expectedly, my girl...

Immediately after meeting, I got disappointed.



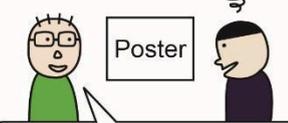
So did the miss.

You are likely to be not qualified for the podium talk.



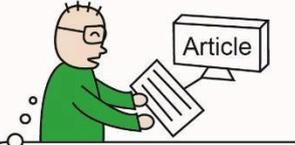
There is another scientist who applies for poster presentation.

You seem old enough to enjoy the meeting.



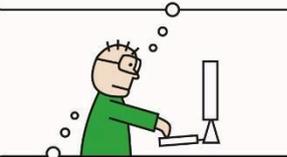
The next time, submit abstract for the oral one.

I became a scientist. Before publishing my manuscript, I am hopeful.



My article might hugely influence the field of science.

One year after issuing, I become disappointed.



Did only the editor and reviewers read the paper?

Episode 212: Illusion of gambling and research

I found the similarity of gambling and research.

Cards

Toto

Racing

Lotto

Casino

...



The best pleasure made by nature and human is sex and gambling, respectively. - A gamester

Every betting has an illusion that the gambler will be a winner.



I thought I would earn money.

Without this illusion, gambling wouldn't survive.

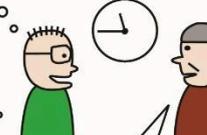
I remember a trick that I did in the graduate school.

Prof. room



I must talk with the boss, but I will be exhausted if it takes a long time.

So, I visit him around 11:45 am.



Make it short. I have to eat lunch.

Next time, I will come around closing hour.

Every investigation has the similar illusion that it will be influential.

I thought I would change the world.



Without this illusion, research wouldn't exist.

This kind of misapprehension of scientist is good, unless it is too extreme.

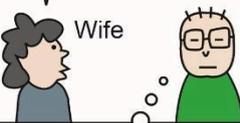


Dr. Scifun

I expected my comics to be prevailing worldwide. It was a mirage.

These days, I do the same stratagem.

Call your mother to say hello.



Wife

Long conversation tires me.

So, I phone her 8:25 pm.



(Mom) Hurry up your talk. I must watch TV drama.

What other TV program does she like?

Episode 214: Fast food, Chinese food

Fast food is compared with Chinese food.



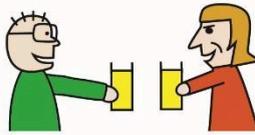
The fast food of international brand tastes same in any countries.

On the contrary, the Chinese food has different flavor in every nation.



Unique Chinese dishes are invented for the individual regions.

Scientists have an excuse to have fun.



Getting along, scientists have coffee, meal, or drink.

So, they can share thought about directions of research and article.

Coffee shop

Lab

Pub

Restaurant

Scientists have to find the suitable places to hang out together.

There is research like fast food,

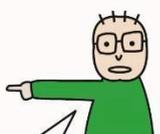
For all countries



For one country

or one like Chinese food.

For one state, aboriginal materials and subjects can be used.



Scientists should choose one of two; globalization or localization of research.

Getting alone, scientists enjoy cultural life or exercise.



Then, they can polish idea about directions of research and article.

Gallery

Lab

Trail

Gymnasium

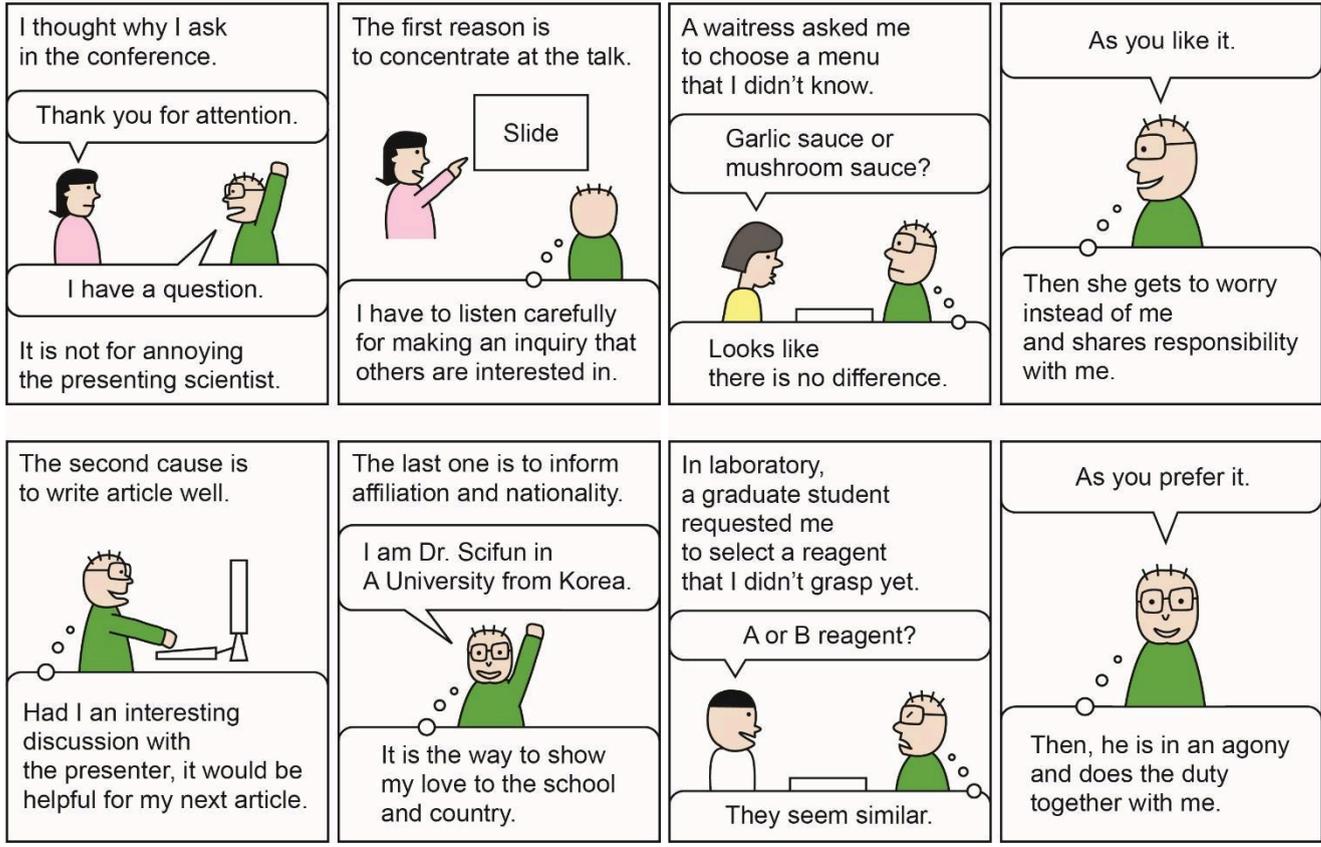
They also should be aware of the appropriate sites to relax lonely.

It is like artists who play to create the works.



Episode 216: Ask question in academic meeting.

Episode 217: As you like it.



Episode 218: Experiment thief, paper thief

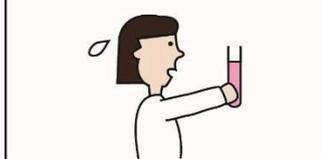
In Korea, rice thief represents the delicious side dish.



Thief has a good meaning. Unsavory dish must be the rice police officer.

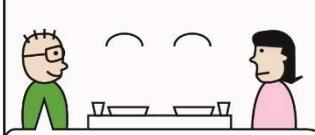
A diligent graduate student may be called the experiment thief.

Don't delay experiment.



Episode 219: A party to celebrate an article publishing

We had a party to celebrate an article from our lab being published in a journal.



I don't love Christmas parties, birthday parties, and so on.

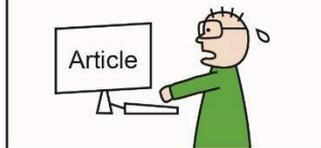
Instead, I like parties like this, which are only for people who have worked hard.

Lab party

To keep our celebration going, let's talk about our individual contributions to the paper.

A sincere scientist can have the nickname, paper thief.

Don't stop writing academic articles.



Lazy ones become the experiment and paper thieves.

Thief > Police

The thieves are busy doing research, while the police are too busy to do research.

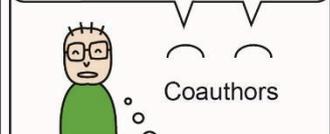
I was just in front. Call me the front.



Corresponding author First author

I just spurred you on. Call me the whip.

We just got a free ride for this article. Call us the freeloaders.



Coauthors

A down-to-earth conversation like this makes the party fun and brings our lab closer together.

Episode 220: Ignorant starting

I heard that students must enter the graduate school after listening to its full inside story.

Orientation matters.

That's right. However, do we think in reverse?

They may dislike the graduate school if completely informed.



I thought scientists research freely, but...

Graduates seemed comfortable, but...

Episode 221: Due to workplace, due to oneself

I met scientists who blame their workplaces.

I can't get famous due to my second-class university.



If my research center supported more, I would...

A common employee can criticize her/his workplace because the workplace determines her/him.



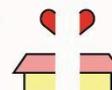
Workplace

But a scientist should accuse herself/himself,

Fiance and fiancée live together to know each other.



However, many get divorced after marriage.




Maybe getting married with strangers in Korean old times is better.



Perhaps stepping inside the science without information is preferable.



since the scientist regulates the workplace.



Workplace

In the case of bad affiliation, to make better is the skill of scientist.

Scientist makes the name of the affiliation, but not in reverse.



You condemn your school occasionally.

Little. It is just for fun.

Episode 223: Wedding ceremony, laboratory event

I met a scientist whose kid was getting married soon.

I wonder how many invitations should be sent?



Don't worry because they will insult you anyway.

If they received the invitation, they would say it is a bill.

Must I waste my money and time?

If not, they would say to be disregarded.

Am not I friendly?

Episode 224: Scientific article and newspaper article

Allow me to compare scientific article and newspaper article.

A scientific article has to cite its sources.



Similarly to how a scientist writes an article after experiment,

the reporter does so after holding interview.

Not doing so is plagiarism, because it would make other's research look like it belonged to the scientist.

If invited, they would accuse you in the back. If not, they would blame you in front.



Don't worry and just decide whatever you want.

Then I met a scientist who held an important event of laboratory.

I am thinking of how many I invite.



Don't be anxious...

However, a newspaper article shouldn't reveal its sources.



Doing so would be irresponsible because the journalist would be failing to protect them.

Usually, my sources ask for anonymity...



...unlike the scientist, who want their names to be publicly known.

Episode 225: In apposition with

I teach a graduate student about apposition.

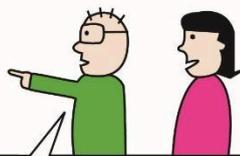
Introduction
- Discussion

Materials & methods
- Results

In the article, these sections are comparable to each other.

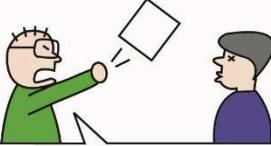


You have to realize which matches which,



then you can trim down your thoughts, words, and the whole article.

I kept bugging one of my graduate students to create tables.



Your article has no structure. For systemic writing, tables are essential.

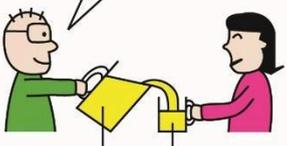
But he didn't understand what I was saying, so I used a simple metaphor.



There are four results if you try to seduce a girl who has a boyfriend.

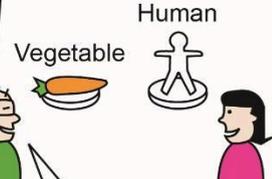
I like using fun examples of apposition in real life.

The pitcher is equivalent to the catcher.



Pitcher (Draft beer) Catcher (Glass)

The vegetarian is equivalent to the humanitarian (= cannibal).

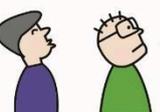


Vegetable Human

You ain't equivalent to me.

	Seduce her	Can't seduce her
Found out by boyfriend	Have a fun, get a smack	Have no fun, get a smack
Not found out by boyfriend	Have a fun, get no smack	Have no fun, get no smack

Even if the table is not included in the article, you have to create it to understand the logical structure of the article.



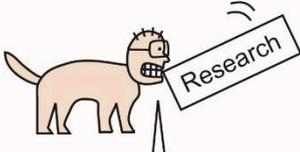
Episode 227: Health of scientists

Scientists' physical strength is an ability.



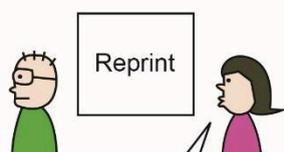
Research requires laboring time more than thinking time.

Scientists who have the most patience win.



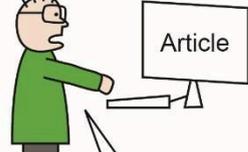
Science research is a long race not a short one.

I don't read my articles once they have been published in journals.



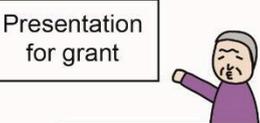
Why do you avoid your articles, which are like your own kids?

First, because I get so tired of them.



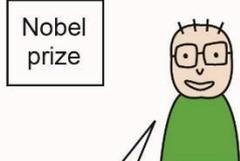
I've practically memorized it, since I've proofread and edited it over 100 times.

Scientists can get money when they are healthy.



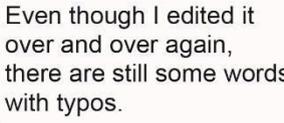
Research fund is a debt, so we don't give the capital to one who could be dead soon.

Scientists can receive Nobel prize when they are alive.



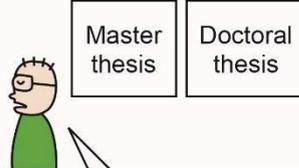
To live longer is capacity.

Second, because I'm afraid of typos.



I can't fix them now, so I'd rather not know.

I take special care to avoid my theses, because I'm ashamed of them.



At that time, I didn't know a thing.

Episode 229: Individuality of scientist

I talked about the individual characteristic of scientist.

Individuality

Without trait, there is no research.

As a scientist, I have distinctive personality in real life.

I am the just one with cropped hairs at my school and academic association. So, people remember well that I attended a meeting.

Two graduate students brag about their laboratories.

My laboratory is well funded.

Thanks to the funding, I don't have to skimp on equipment and reagents.

Frequently, I dine out and go abroad on business trips.

Also, I have many colleagues to learn from.

I am the only congratulator who presents 60 dollars for wedding gift money.

Usually 30, 50, 100 dollars

Due to that, the bride and the groom memorize that I was in their ceremony.

Dr. Scifun has a specific attribute not as a scientist but as an antisocial person.

He is a deviant.

I am jealous of you. My laboratory doesn't have that kind of advantage. Instead, I publish many articles.

I really envy you.

Scientists covet research funding because it benefits them immediately.

However, students desire to publish articles that they can profit from later.

(To be continued)

Episode 231: Funding or article? 2/2

(Continuing)
I remember when I set up my first laboratory.

I'm using my own money as I don't have a fund yet.

At the time, I said that I would do anything for research grants.

Money

On the contrary, I would do nothing unless I was able to get money.

I watch a chocolate advertising with a slim celebrity.

She is so slender even after eating the chocolate that much.

She is lean because she doesn't try chocolate. So she can be on the chocolate commercial.

Don't be fooled.

Recently, I declare that I would do anything for articles.

Articles

After the laboratory is set up, papers become more significant.

Independently of money and articles, I would help other researchers without conditions.

Neither money nor articles

This means that I don't help enough.

I attend the fun lecture of a famous scientist.

Three tenors were Domino, Papparazzi, and Curry rice.

Haha

The scientist gets popular because she researches at laboratory without fun.

So she is able to give the lecture leisurely.

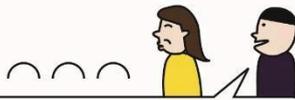
Don't be naive.
(To be continued)

Episode 233: Two-faced scientist 2/2

Episode 235: Time is gold.

(Continuing) I heard this from a graduate student under the famous scientist.

Undergraduate



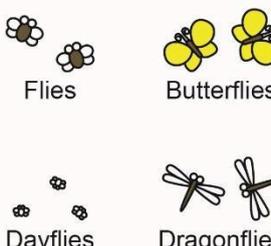
My professor is very generous to undergraduate students,

because the undergraduates are to be seduced.



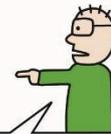
But she is cruel to graduates. Bait is not thrown to the fishes in the cage.

I emphasized how much time is precious to scientists.



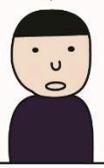
Flies Butterflies
Dayflies Dragonflies

What are the faster flies? Time flies!



A Korean proverb: There is nothing stronger than alcohol, whipping, and what is the rest?

Instead of bait, she gives us food.



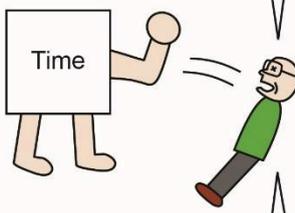
She makes us learn experiments a lot and write abundant articles.

Cruel and competent boss is better than gracious and incompetent one.



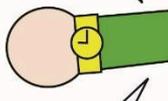
If you know a professor who is gracious and competent, inform me.

Time!



Time is gold. What is its meaning?

Real watch is the expensive golden one! Isn't it?



Anyhow, the present time is the present, gifted to scientists.

Episode 236: Search or meditation

For research, I turn on the computer.

PubMed to find articles

I can't research without Internet.

For meditating, I turn off the computer.

I get information from the computer, and knowledge from the book.

When I was a military officer, my commander found out that I enjoyed gambling.

Military

The pitcher goes so often to the well that it is broken at last.

But he doesn't scold us.

In the army, betting is worse than working, but it is better than not keeping the seat.

During traveling, I turn on the smart phone to look for.

Hand carry computer

I have hunger about information for sightseeing, entertaining, and eating.

For musing, I turn off the phone.

I contemplate about the research a lot during walking with beautiful scenery.

Nowadays, I often notice that graduate student plays computer games.

Laboratory

Game

I got caught, but he doesn't blame me.

In the lab, playing is worse than researching, but it is better than not securing the bench.

Episode 238: Encourage or discourage

I told another scientist a method to encourage or discourage the graduate.

Lab → Pub → Home

Before a party in my house, drink little at the pub.

And student feels free.

Hostess! Give me more alcohol.

Home

I can hearten him.

I told a graduate student about the invention of metal type.

Korean (AD 1377)

German (AD 1455)

Korean metal type is less valuable even though it was invented first.

Because it did not spread like Gutenberg type.

Korean

German

This shows how important international communication is.

Lab → Home

However, going home straight uncomferts him.

Mister! Take more.

I can dispirit him.

When did you research the trick?

By the way, if you encourage student, wife would be discouraged, and vice versa.

The Korean version of metal type was like a clump of floating oil;

Korean

German

the German version was like ink that mixed readily.

So, how can we make our lab results like ink?

Open mind with international sense...

Don't be vague. The answer is to publish articles in English.

Episode 241: Academic meeting by business

I attended at the organizing committee for an academic meeting.

The most concern for scientists who prepare conference is earnings.

How can we increase the registration income?

Income = Charge X Number

Which one is more profitable, raise the charge or lower?

I think about the differences between the articles and comics.

Articles Comics

I write articles, and I also draw comics.

In the articles, I don't use a diverse range of words. But in the comics, I use many different words, including slang.

Comics

I expand my vocabulary when I create comics.

How can we advertise the meeting for more revenue?

For commercial exhibition profit, it should be located in the best spot.

The scientists attending the meeting think science, but those arranging the meeting consider business.

Money Money Money

When writing articles, I don't exaggerate.

Articles Comics

If I do, I'm a fraud.

When drawing comics, I overstate things.

Comics

If I don't, I'm stupid.

It is confusing to make both simultaneously.

Articles like comics Comics like articles

So, I divide my time into months for generating articles and months for producing comics.

Episode 243: 00 + 00 year, 0000 year

I think about the year reading as a scientist.

20th century can be read nineteen + 00.

1913 = Nineteen thirteen

It is shorter than one thousand nine hundred thirteen.

5th century can be read four + 00.

413 = Four thirteen

1st century can be read 00.

13 = Thirteen

From 1st to 20th centuries, no problem with this rule.

I teach the number of cases to a student who doesn't figure out it.

Source Noodle

The delivered spaghetti source and noodle are wrapped.

By mistake, the source is poured into the noodle without the wrap removed.

Wrap

Source Noodle

Number of cases is four.

However, 21st century causes an obstacle.

2003 = Twenty three

It is confused with 23 year. So, follow 0000 rule.

2003 = Two thousand three

2013 = Twenty thirteen

There is no hitch; but inertia makes us obey the 0000 rule.

2013 = Two thousand thirteen

Two thousand is so short that we may use this until 2100.

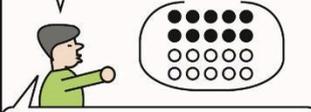
	Noodle wrap removed	Noodle wrap not removed
Source wrap removed	No problem	Problem
Source wrap not removed	No problem	No problem

I, spaghetti mania, experienced all of four cases.

Episode 245: Binomial distribution

I gambled during elementary school student.

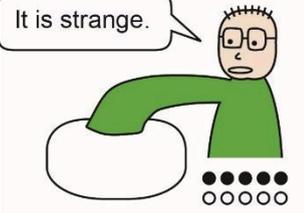
There are 10 white stones and 10 black stones.



If the 10 stones to draw are all black or all white, 1,000 times money back!

Every time I tried it, the outcomes were similar.

It is strange.



The results were 5:5 or 4:6, sometimes 3:7.

I told a graduate student that she shouldn't say the word, can't.

You have to positively think everything is possible.



It just takes time.

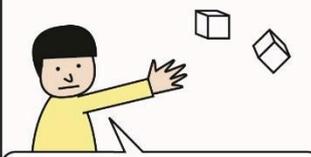
I taught her another thing.

It is an inadequate idea that it can't without me.



To be self-conceited is a badness.

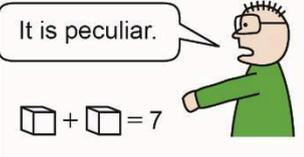
It happened again when I was at middle school.



Throw two dices. If sum of the two is 2 or 12, I will give you 5 times.

7 or 6 or 8, occasionally 5 or 9.

It is peculiar.



Later, I learned about binomial distribution in the mathematics class to realize the cheating.

However, for scientists, it is good to have the thought that it can't without me. They can be diligent to do own research.



You prohibited the word, can't.

I was robbed.

Losing the wallet annoys me.



I don't say 'You can't be happy.' but 'You can be happy.'

Episode 247: Life span

I talk about the life duration.

The average life span is 80.

$30 + 50$

I am 30 years old, so I have 50 years left.

I don't think so.

The life span is the mean including children who died early.

I recalled my misunderstanding in childhood.

310

I saw the room 310 on the 3rd floor.

I thought the building has 310 rooms at least.

1 2 ... 310

Like this, misunderstanding is starting point of scientific research.

You live strong until 30, so you can exist until 90.

$30 + 60$ $50 + 50$

I've survived until 50, so I am stronger to be alive until 100.

When a person is older, the one's life is longer

Statistics

Life span which is expected to live from now is called the expected future life span.

I used the abusive language with my rogue.

Son of B!

F you!

But the bad words couldn't be heard on TV.

Censored TV

So I considered I spoke a local dialect. After meeting another rascal from different area, the misunderstanding was solved.

F son of B!

Misunderstanding solution is ending point of inquiry.

Episode 249: Right but futile words

In a task force, a scientist seriously says 'Let's keep moderation.'

Meeting

Middle course!

Moderation is constantly right,

but useless, because it hardly contributes to solution.

I think about graduate students possessing their car and mobile phone.

There is a student who drives a car to school.

The car is good for me, Go somewhere for our lab.

or bad for me. She is often absent.

In the party, he gravely says 'Let's break the wall between our minds.'

Party

Smash psychological wall!

The sentence is always correct,

but pointless, because it isn't helpful for our pleasure at all.

Having a mobile phone is good for me,

Come to me.

Without this cell phone, he would call me less.

or bad for me. He is not here again.

Without this, I would worry about not being in lab.

Episode 251: Attractive home, enjoyable research

Episode 252: More than needed

I remember when I bought a house.

A — Price-increasable because it is close to metropolis.

B — Liveable because it is close to workplace

I picked B.



Price increase is uncertain, but liveableness is certain.

B

Even if the price does not go up, it does not matter since I feel comfortable.



I found a phrase that strongly compliments scientists.

So, very, extremely, exceedingly

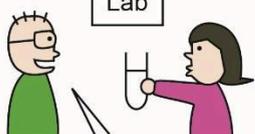
What is stronger than these adverbs is 'more than needed.'



You are more diligent than needed.

Lab

You are already smart; is it needed to be this much diligent?



I chose a research field.

C — Profitable

D — Enjoyable

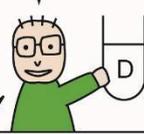
I selected D.



Profit such as research grant is indefinite, but enjoyableness is definite.

D

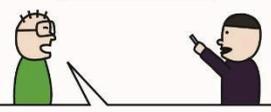
Even if it doesn't become a big hit, it doesn't matter since I am pleased.



You present better than needed.

Symposium

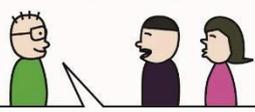
This is not a research paper; is it needed to present this well?



You are more handsome and prettier than needed.

Party

You are not a celebrity; is it needed to be this handsome and pretty?



Episode 253: Keeping observance

I confirmed that I keep my observance.

Tourist attraction

I enjoy drinking whenever I take a vacation, but I don't drink before noon.

I only wear underwear at home in the summertime, but I don't wear briefs.

Home

Boxers

It's my self-esteem to keep the observance.

Before my presentation, I met the chairperson.

Conference

Chair

Platform

After you present, I will ask you in case of no questions from the audience.

So write two questions for me.

Such contact is terrible in the article review, but it is advantageous in the conference.

I exaggerate a bit during oral presentation, but I don't during paper description.

Article

Talks aren't recorded, but writings are recorded.

I play usually, but I don't disturb graduate students when they work.

Lab

Some have to work in order for my lab to function.

Run smoothly

Talk more about what I want

Question

Listen more to a well prepared story

It makes sense, but I don't like it since conference turns like a play.

It reminds me of manipulation of game results in sports.

Episode 255: Wordplay to tell scientists' ideas

Scientists talked about their thoughts by wordplay.

Research = Search

Research is to search certain things.

To investigate is to invest.

Investigate = Invest

Investing money, time, and efforts.

I met a person who thinks much of genealogy.

Genealogy

I am the 50th descendant of General Kim, who united Korea at first. General Kim's blood flows in me.

He has $1/2^{50}$ of General Kim's gene, considering the Korean strict custom not to allow marriage within same surname.

He actually has no General Kim's gene.

Recording research achievement as an article is an art.

Article = Art

In order to write the article, inspiration of an artist is demanded.

Science needs conscience. Science without conscience may hurt human beings.

Science = Conscience

Is scientist with conscience called conscientist?

I am not a Kim, so some of my grandmothers may be the descendants of General Kim.

Chung - Kim

Then I may possess more gene of General Kim.

Like this, genealogy that belittles women is not scientific, thus I cannot accept it.

Why don't you consider our passing down of Y chromosome?

Episode 257: Bread in Portugal

I heard a story from Korean scientist who traveled to Portugal.

Bread please. ?

He ordered bread in the restaurant, but waiter didn't understand English.

So he explained producing and consuming of bread by body language.

The world-wide language, is body language not English.

A scientist gave me a collection of essays that she wrote.

Please read when you are available. Thank you.

Scientists have learned and experienced a lot, so they want to publish light essays.

The problem is that the essays are boring.

Finally, the waiter shouted.

Pão!

Pão is a popular word used in Korea. I didn't know that it is Portuguese. I should have said pão from beginning.

Like this, some things that looked difficult turns to be easy once a secret method is known.

Should I teach graduate student the secret method or not?

If they were very fun to read, the scientist would sell the book, not give it for free.

I keep it for about a year then throw it away.

If the scientist got a help from a cartoonist and drew cartoons instead, I would have read it.

Fun

Thereafter, I would pass it to companion.

Episode 259: Great monk is a mischief.

A respected monk is still called a mischief by elders in his birthplace.

Hometown

Is mischief here?

So he does not want to go back to the birthplace.

I am embarrassed when visiting here.

Hometown

In this sense, scientist should not go to alumni reunion.

In most cases, scientists are humble.

It is scientists who keep studying without letup.

But scientists pretend that they did not study hard.

I am aged, but I am still indiscreet.

Modesty

(Korean proverb) Just after I get discreet, I may suffer from senile dementia.

Renowned scientist is still considered as a punk by old classmate.

Reunion

Do you remember when you followed girls every day?

Likewise, the distinguished scientist should not even go home. He is just a bum.

Home

Naked scientist, whose body is low quality

If I exhausted youth only for play, I wouldn't have done this research.

No modesty

Some scientists are overconfident.

If I spent youth only for study, I wouldn't have drawn this cartoon.

Dr. Scifun

To people who like to brag, I love to be sarcastic.

Episode 262: Get along with people when in a slump.

I met a scientist who had hard time on her research.

All scientists go through this period.

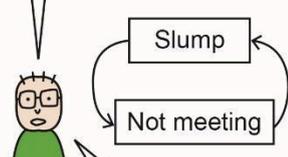


That is when they don't meet other scientists, because they feel embarrassed.

However, they cannot overcome the slump.

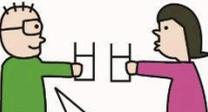
Slump

Not meeting



Then they don't meet even more. This is a vicious circle.

So, you in slump have to meet others intentionally.



Just having a good time with them is fine. Telling them your bad situation helps more.

In a same sense, you must attend conference. Go and enjoy friendship.

Conference



Seeing the mere results of other scientists, you will think that you can do it also.

Episode 263: Result over process

I always put more emphasis on result than process.

Process X

Result O



Since I compete fiercely with other scientists, result is regarded.

I do it if I have an aptitude for it. X

I have an aptitude for it if I do it. O



I said this when I started science. I considered the science as my vocation.

I do it, if it is possible. X

It is possible, if I do it. O



I mentioned this when I picked my specialty of research. I considered the chosen specialty as the fate.

I win if I am strong. X

I am strong if I win. O



I stated this when I got the outcome of research. I considered the outcome as my strength.

(To be continued)

Episode 264: Choosing research specialty

(Continuing)
I said how I picked my specialty of research.

Postdoctoral

When I got the doctor's degree, I did not know what to do for the future.

So I put my hands on five fields, related to my doctor's degree.

I submitted the five research plans to funding foundations.

The size of a lab matters. In order to recruit lots of students, plenty of research funding is a must.

Professors say this is like a feed cost.

Also, numerous research papers are needed.

Entrance is decided by students, but graduation is by papers.

Papers

Professor has to endeavor for funding and publishing.

Two of them got rejected, so I gave up those two fields.

In spite of a result of bad luck, two fields were felt not to be for me.

Next year, I further submitted three research plans that were left, and two got rejected again.

I took one remaining field as destiny to do in my entire life.

A lab is limited in size, unlike a corporation.

Papers

This is because lab activities are directly managed by a single professor.

If research grants and papers become scarce, students decrease in number.

Gone with the wind.

Papers

The invisible hand controls the size of lab.

Episode 266: Europe and China differ.

I compared Europe and China.

For travelers, Europe does not change much.

So in Europe, 10 years-old map is still useful. However, China evolves rapidly.

Tearing down not old buildings, quickly installing subways.

Professor can be nice to a graduate student.

Giving lots of personnel expense, and helping her become author of good research paper

Nevertheless, the student can be bad to professor.

Being lazy

Professor having security is relaxed.

So in China, 5 years-old map is useless.

Some scientific fields do not change much, so 10 years-old data are useful in writing article.

However, the other fields change rapidly, so 5 years-old data are useless.

If I delay writing paper, the data may be gone.

Until you repay what I gave to you, I will not give you the degree.

I cannot quit because I have helped his research in a measure.

What if a student is nice and professor is bad?

Student having no security is stressed. That is why a student inquires about the professor before starting.

Episode 268: Notifying my affiliation and field

Episode 269: The more improvement, the more fun.

My affiliation is notified differently according to the opposite scientists.

Other nations



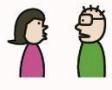
I am in Korea. (Telling my unknown university does not help.)

Same nation, different universities

I am in Aju University. (Telling that I am in Korea does not help.)

Same university, different colleges

I am in School of Medicine.



If one improves at something, one can enjoy more.



During mountain hiking, improved strength and climbing skill make happiness.

In my case, improved geographic knowledge pleases me.



That is the famous mountains. I see the landmark of city as well as the way to take me home.

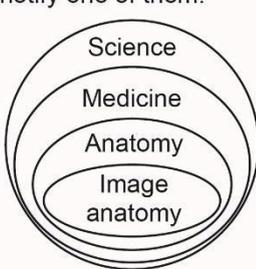
Same college, different departments

I am in Department of Anatomy.

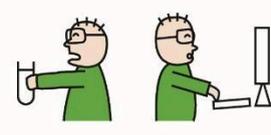


Like this, I notify the difference, not the similarity.

Same with notifying my research field. According to the opposite scientists, I notify one of them.



During research achievement, lab skill and writing skill are increased to make happiness.



In my case, increased materials for comics please me.

It would be funny if I draw what I felt from research.



What would please other scientists from being more advanced?

Episode 270: Is cheap hotel bad?

I went to a symposium to stay at a cheap hotel.

Humble hotel suitable for upright scientist

Room was small, which annoyed me.

But because of that, I didn't have to move much, and found my stuffs easily.

They did not clean the room everyday, which annoyed me again.

But because of that, I kept my privacy and did not have to mind tip.

At checking-out time, employee looked over my room as if I stole something, which annoyed me.

But because of that, I was able to take stuff that I left.

Scientist may experience such misfortune advantages in cheap hotel.

Episode 272: Scientist like funnel

I divided scientists into two groups.

Scientist like funnel Scientist like straw

Straw seems to be a good thing because a straw sucks something well.

Funnel gathers falling water, but straws doesn't.

I was wrong, funnel is a good thing. Different people call it different things.

Scientist like funnel encounters lots of people to hear lots of stories.

Meeting of scientists

For the good atmosphere,

he/she presents fun, like the first syllable of funnel.

Haha.

Fun

Why doesn't he change the name of these comics to Dr. Scifunnel?

Episode 273: Student's flattery for survival

There is a scientist who likes flattery from graduate student.

Student

The bell of the scientist's cell phone is an infamous music composed by his son.

Even if I hear this music first time, it is pretty good.

Happy!

The background photo of cell phone is a picture of his wife.

In lecture, I saw the secondary board.

Scientists mostly do slide lecture.

Slide curtain 2ndary board

While showing slides, I can write on secondary board at needs.

When I was an undergraduate student, I erased the secondary board on duty.

Saying:

I was bored, so I wrote an today's saying at the corner.

Episode 274: Today's saying

Your daughter is beautiful.

Happy!

The student, who flatters properly with correct information, goes on an easy way in the lab.

There are two lessons from this.

Best flattery must be about family.

Flattery must be done constantly and between times like studying.

My fruitful saying comforted classmates worn out from lecture.

Saying: Perseverance is bitter, but fruit is bitterer.

Saying: Give me liberty, or give me A credit.

If I suffered from hangover, I noted for devoted readers.

Saying: Allow author to take a day off for personal reason.

I might draw cartoon later.

Episode 276: Discussion after a meal

Scientists are normally busy, so we gather for both discussion and dining.

At noon At 18:00

If we began discussion on time, late one would become a problem.

Discussion

Should we start or wait more?

(Continuing)
A scientist habitually makes it unclear.

Total charge is 100 dollars.

Each of three should pay 33 dollars.

She pays less and gets confusion.

Keep the change.

It is us to say 'Keep the change.'

So we have a meal before discussion, then nobody has complaint.

Meal

People who keeps the appointment time enjoy hot food.

Late people are less blamable.

I'm late.

We ate at the designated hour to make you less sorry. Haha.

(To be continued)

She leaves during a discussion and gets confusion again.

You are allowed to discuss without me.

It is us to say 'You are allowed to leave.'

She says 'That is alright,' when she must apologize. Then we lose both benefit and justification.

I wish to smack her and say 'That is alright.'

Episode 279: Half life of scientific knowledge

Suppose 30 years-ago scientific knowledge is half of current one.

Then the half life is 30 years.

The half life becomes shorter and shorter because of more and more knowledge.

Papers

Years

You can find this out by seeing the number of research papers.

Value of ice cream cone was debated.

The right cone has twice the radius and twice the height.

Then how much larger is the right cone's volume?

I think it's more than double so 4 times.

But you don't have to be afraid of updated knowledge. Based on the old one, you can easily learn the new one.

Just find what has changed.

Good news is that what was difficultly defined is easily defined today.

Textbook changes from memorizing to understanding. Also it may be thinner.

The answer is 8 times bigger.

So the value of right cone is also 8 times.

I don't agree. There should be a discount in marketing.

The logic of marginal utility is that as we consume, the value goes down.

Math and economics are on the fight.

Episode 281: Relationship of A and B

Episode 282: Aftereffect of traveling to foreign nations

Scientist A provides scientist B with a research fund.

Providing A Receiving B

The transaction raises A's face and B's morale.

In fact, A wants the deferred payment.

Deferred payment

I would like to pay as much as B researchs.

It matters if B becomes lazy.

In the advanced country, driver normally gives way to pedestrian.

Advanced country

I should yield.

After traveling in the advanced country, I may get into accident while walking.

Korea

He should yield.

On the other hand, B wants the payment in advance.

Advanced payment

I would like to research as much as A pays.

It matters if A becomes stingy.

This is similar to decision of authors.

It is a trouble if she doesn't research diligently after I give her authorship.

Author

It is a trouble if he doesn't give me authorship after I research diligently.

In the advancing country, pedestrian gives way to driver.

I should yield.

After traveling, I may get into accident while driving.

He should yield.

Similarly, student from advanced country tries to be equal to scientist,

while scientist from advancing country tries to look down on student.

Episode 283: Habit of watching book cleanly

A scientist came to my room to look at books.

Scientists like books.

Your books are clean.

That is because I read them neatly. (Actually read them little.)

You take good care of books as a scientist.

At the museum, I saw relics.

Tombstone Sarcophagus

Accessories

Most treasures are from grave, especially from King's mausoleum.

But the prosperous tomb seemed useless.

Tomb construction

Act for dead man

I do not get why tons of money and effort are used for that.

At puberty, I had the regular chance to see entertainment magazine, which would be sold.

Beautiful female celebrities are enjoyed.

I had to handle the magazine carefully.

Wiping saliva with hand

It becomes my habit. That is all.

My research seems useless.

Act for dead research

I do not get why tons of money and effort are used for that.

I say that my research will be recognized later.

Unexpected achievement may appear like the grave and relics in the museum.

Episode 285: Souvenir from conference

I brought souvenir from an academic conference.

Honey, I'm home.

The package is not taken off in purpose.

I gave it to my wife as if I bought it.

I prepared it for you.

What's gotten into him?

Presenting in science meeting is easy. But it is hard to answer questions.

Let me ask...

I have to give prompt answers to the unpredictable concerns.

Writing journal paper is easy.

Fast, fast, fast

I just follow my own thoughts.

What did you purchase?

It is not fun if I tell you before you uncover. (How would I know?)

Unfortunately there was a conference name on the souvenir.

You prepared it by yourself?

Anatomy Conference

Why did they put the name spending money?

However fixing it based on comments of reviewers is hard.

Paper to be revised

I have to add other people's thoughts on top of mine.

But by negotiating for the wild questions and challenging comments, I get stronger.

Questions Comments

Standing against them, I run a surplus.

Episode 287: Eight cases

I can take three things from researching.

Grant + Paper Grant + Fun
All three Paper Fun None
Paper + Fun

There are 8 cases if these three are combined. Taking none (1 case), one (3 cases), two (3 cases), and all three (1 case).

Episode 288: Dream big.

I nagged at a graduate student.

Don't dream of being a professor,

but dream of being a renowned scientist all around the world.

If you are an exceptional scientist by research papers, you naturally become a professor.

Even if you are slightly outstanding, you can still be a professor.

In reality, it is hard to even take one. Even if I barely take two, there still remains a problem.

Bored due to lack of fun Grant Embarrassed due to lack of paper
Paper Fun
Impoverished due to lack of grant

It is the reason why research is such a difficult task.

Don't pester others to make you a professor,

make others pester you to be a professor.

Academic journal Cooperative scientist

Funding foundation

Make others want you.

(To be continued)

Episode 289: Set a trap.

(Continuing)

One work of scientist is notifying the research result of her/his major to common people.

Broadcast

Newspaper

Let's say that you decided to announce it. Make the director and reporter want you.

Broad-cast

New-s-p-a-p-e-r

Please appear on our mass media.

I compared road names and crossroad names.

Avenue

Street

Western people only write the road names, but Koreans write both road and crossroad names.

Only road names are fine.

How about crossroad names instead of road names?

Say there are 10 streets and 10 avenues.

For that you have to prepare the easy and funny writings in advance.

If you have a crush, make him hungry for you.

This is a summary.

Don't hunt, set a trap.

It is more desirable for the game to come to you than to follow the game.

Either only 20 road names, or 100 crossroad names are to be discriminated.

Only 20 is better. Crossroad can be described with two roads.

Let's see where A street and B avenue meet.

Science is all about efficiency.

Episode 291: Exaggeration of female students

Male and female students are different, even though they say the same thing.

Male versus female

I didn't take class.

I didn't go to class.

I didn't take notes well.

Female scientists are also crybabies.

I had a good time in evening.

I drank or played game all night.

I chattered with friends, and then studied.

I enjoy being biased at a buffet.

I only eat what I want.

I don't like the food on his plate. But I say nothing since to speak ill of the food is a discourtesy.

I am also biased in gallery.

I watch only what I want.

I was biased even at gym.

I exercise only what I want.

I didn't study for exam.

Literally.

I only saw sample quiz.

I only saw sample quiz.

Literally.

I studied parts covering the quiz.

I did well in exam.

I won't get F. I will get A.

I messed with exam.

I will get F. I will get B.

I must be biased at lab.

I only research what I want.

He is similar to a gangster beating up a single opposite over and over.

When I was a child, I learned not to be biased. But now, I think being biased is fun and good for me.

Isn't living with only one wife biased too?

Episode 293: Follow the rules.

I was annoyed by seeing writings that did not follow the rule.

V.I.P

When writing English abbreviations, lots of Koreans do not put the last period.

This is right way.

V.I.P. or VIP

Koreans have to follow the rule, made in English spoken nations, no matter whether Koreans like it or not.

I replied to close persons mischievously.

I have gone out with the girl friend for 5 years.

Graduate student

It is time to break up.

I have been married for 10 years.

Junior scientist

It's time for divorce.

Of course, my responses are all jokes.

I was also annoyed by reviewing a manuscript submitted to academic journal.

References

The guide for author is not well kept.

You have to follow the rule, made in the journal, no matter whether you like it or not.

Review letter

Even if the content is acceptable, I can reject it.

I have researched this topic for 15 years.

Fellow scientist

It's time to give up.

Nobody abandons by listening to me.

I have been devoted to science for 30 years.

Senior scientist

It's time for you to retire.

I do not want him to retire until he passes away.

Episode 296: Just a half step ahead or behind

I spoke with emphasis on half step.

Presenter is ahead of audience.

Conference

If not ahead, audience is not satisfied.

But if too much ahead, audience cannot follow.

He is a genius or an idiot.

Being half step ahead is ideal.

I stressed about why only left and right change in the mirror, not up and down.

I raise my right hand, but in the mirror I raise my left hand.

Let's say that I do a hand-stand to face each other.

Hi!

Then the expected view of me from the mirror and the real view will be different like this.

Audience is behind the presenter.

If I know all about the presentation like her/his colleague, it is not intriguing.

But if too much behind, I cannot understand.

When I participate in a session, this is important.

Being half step behind is perfect.

Expectation Reality

I thought my head will be below, but it is on the top. I am upside down.

Actually I turn to one side to face other.

Expectation Reality

I thought my right hand will be at the left, but it is at the right. Left and right have changed.

Episode 300: Data that will evaporate

Episode 301: Just say two out of four.

I saw a scientist who was into social network service.

Smart phone

He is on the network whenever he has time.

Scientists should save time, but you don't seem to save it due to the network.

Just like you draw cartoons and post them at homepage,

I heard a lame scientific presentation.

Advantage of A is to be correct, and disadvantage of A is not to be fast.

	Pros	Cons
A	Accuracy	No rapidity
B	Rapidity	No accuracy

In addition, advantage of B is to be fast, and disadvantage of B is not to be correct.

I make or gather multimedia data and post them at the network.

Those two are not the same.

My cartoons are seen even after decades, but your data evaporate rapidly.

Roughly made data

If you don't elaborate something at your best, the trial is time wasting.

A and B are contrasting,

	Pros	Cons
A		
B		

so advantage of A is same as disadvantage of B, and vice versa.

Therefore, he's better present only advantages of A and B.

A scientist should be this smart at least.

Otherwise, advantage and disadvantage of only A.

Episode 302: Lots of scientist at old cities

Boston in Massachusetts has renowned universities.

And so on because Boston is an old city.

In Seoul, Korea, more universities are located north of river, because the northern part of Seoul is older.

To be immature, I wore badge or shirt with my university name on it even outside campus.

Then people passing by looked at me.

In spite of being a university student, he looks uneducated.

I only think about catching eyes, not studying.

When a nation was developing, it was a must to build universities at old cities.

Universities - Compulsory

After a nation has developed, it became a choice to build universities at new cities.

Universities - Selectable

Therefore scientists who work as professors generally works at historical area.

Scientists feel comfortable at old cities.

But businessmen want to go to new cities.

To be still immature, I do not take my name tag off even outside conference building.

I did this on accident at first, but now on purpose.

Then people passing by look at me.

Despite being a scientist, he looks dumb.

The name tag catches people's eye more than luxury goods.

Episode 304: Feeling lack of each other

So as to keep a relationship between man and woman, it is desirable for both to feel lack of each other.

I love you.

At least, one side must feel the lack.

Please date me! (Unrequited love)

May I date you as a favor? (Generosity)

(Continuing) I am acquainted with a childish method for relationship between scientists.

If I wish to be helped, I must be friendly first.

I speak ill of myself.

I have no research capabilities, no other abilities, and no friends.

A pity.

He will not be nervous to open his heart.

In order to keep a relationship between scientists, it is preferable for both to feel lack.

I acquire a lot from you.

I learn much from you.

At least, one side must feel the lack.

Help me. (Profit)

May I? (Justification)

If both sides think of doing a favor, neither love nor relationship is achieved. (To be continued)

Then I speak ill of other.

That scientist has no humanity.

I think so.

If he agrees, it is successful.

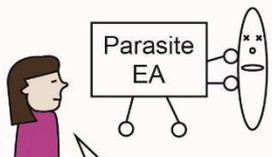
Accusing together is doing bad things together, by which people become close. That is a human nature.

Also enemy of enemy is the friend.

Episode 306: Parasite Eradicating Association

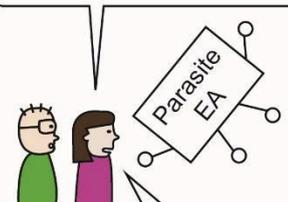
Episode 307: My last lowly life

A parasitologist told me a funny story about the Parasite Eradicating Association (EA).



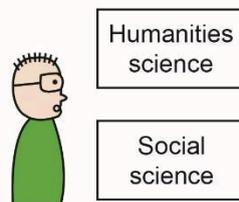
In Korea, the EA tried hard to eradicate parasites.

Consequently lots of parasites have gone.



At the same time, the EA was totally eradicated.

When I was attending graduate school.



I learned more about these two than natural science.

Humanities science means writing.

I spent a whole night writing a single sentence.



Whenever I wrote a thesis, professor scolded me fiercely, and I felt broken.

It is interesting that the EA eradicates itself after success.

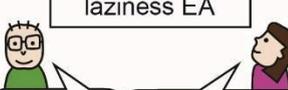


Should we make more EA?

Plagiarizing EA

Lab sexual harassment EA

Scientists' laziness EA



How about these?

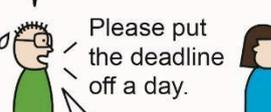
They all need to be eradicated.

Social science means flattering everybody.



I have to suit all the evaluators of my thesis as well as the academic adviser.

I must be good to even employees at the graduate office.



Please put the deadline off a day.

Nobody is lower than me; that signifies my last lowly life.

Episode 308: Scientist's room as the rest area

I went to another scientist's room.

The walls are all covered with books.

I don't even read them all.

The atmosphere may be a-good for work, but not for rest.

Work place and rest area

The room should be a lounge too. Then you will be more creative.

When I was a graduate student, I experienced different kinds of pains.

If my research doesn't go well, I feel a heartache.

Bad experimenter

If my colleague goes well, I feel a stomachache.

Good experimenter

The jealousy causes indigestion, and abdominal pain.

Also, you will be happier when going to work.

Wall maps for traveling

Fill the walls with your hobbies and interests.

If you are lacking space, move the bookshelves.

Bookshelves leaning on each other

The shelves also work as a partition to protect your privacy.

If I go well and colleagues doesn't, professor tells me to help her.

Go to assist.

Then I feel headache. I am not in a position where I can help her. She won't even thank me.

Several pains alternatively bother me.

Episode 310: Grown, not grown

I remember when my son was a baby.

He is too immature to play with me. I wish him to grow fast.

He now became an adult not to play with me.

I am no longer a baby.

I miss the pass.

I wish him to be a baby again.

I gave a public lecture.

Science lecture by Dr. Scifun

Audience wanted me to be cool like a celebrity.

So I said witty phrases.

Articles that scientists write are like stepping stones.

Scientists connect article to article to help science go one step further.

I also remember when a pupil entered the graduate school.

He is too young to do what I order him. I wish he grows fast.

He now became a professor not to follow my order.

Oh, dear old.

I wish him to be a student again.

Scientists devote their entire lifetime to research in order to write a single sentence on the textbook.

Scientists can summarize hundreds of articles into one sentence.

Discovery of scientist is that nature got discovered.

Research is to find out a part of hidden nature.

I felt ticklish from saying this, but I talked shamelessly.

Episode 313: Similarity and difference?

I taught what to write for the discussion chapter in an article.

Graduate student

I wrote the result, so I don't need to write anything else.

When I go on a trip abroad, I see things that are similar to and different from my own country.

Similarity and difference are both intriguing.

I told the graduate student, 'We must outdo the other labs.'

Competition makes each other stronger.

To make an effective point, I gave out a riddle about outdoing.

What place are you in if you beat the 2nd place?

The 1st place.

I think about the similarity and difference with a person I meet.

Whisky Beer

The similarity and difference make me understand and like the person, respectively.

So you mean that the discussion must contain the similarity and difference with other people's research.

Smart student!

The correct answer is the 2nd place.

That makes sense.

If you outdo the last place, what place are you in?

Last place or 2nd from the last?

The answer does not exist. Who can outdo the last?

Episode 315: Praise or scolding

I visited other labs and ate lunch with them.

Lab → Restaurant

Work is important, but it is also important to socialize with others through meals.

While having lunch with a professor, I praised her graduate students.

Your lab's student is very smart, right?

Yes, of course.

When I was an elementary school student, I misunderstood something.

100°C The water is boiling.

0°C The water is freezing.

From the standard of 100, C might mean cent.

1 m = 100 cm (centimeter)

1 dollar = 100 cent

The professor can't speak ill of the student.

Talking ill of my inferior is like digging my own grave.

During dinner, I talked about the professor with the student.

Your professor is lazy, right?

Yes.

The student can speak ill of the professor.

Later, I found that Celsius (scientist name) is abbreviated as C.

Celsius

Like Fahrenheit (scientist name) is the origin of F.

B might mean bomber.

B747

Later, I found that Boeing (company name) is simplified into B.

Episode 317: Army, air force, navy

A scientist can be compared with a soldier.



Scientist = Soldier

A scientist who studies and a soldier who fights are both daredevils.

To be more detailed, when I experiment, I am an army.



The results must be made consistently.

I should be diligent with each step like the army on march.

When I make a presentation, I am an air force.



The slides and poster must be presented impressively.

I should fly over others like the air force on a plane

When I write an article, I am a navy.

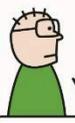


Article must be written intently in solitude.

I should be lonely like the navy on the sea.

Episode 318: Company, symposium

I looked into the etymology of the words 'company' and 'symposium.'



Com (together) + pany (bread)

Companies (people) must be in a close relationship, enough to eat a bread together.

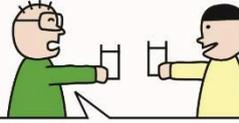
Koreans say companies eat from the same bowl.



Company

Lab companies (people) may make companies (corporation) together.

Sym (together) + posium (drink)



Symposium must have a harmonious atmosphere, enough to drink (alcohol) together.

Especially, a scientific symposium should have a culture of taking care of each other.

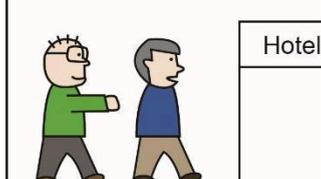


Symposium

In the end, we must eat and drink well for science.

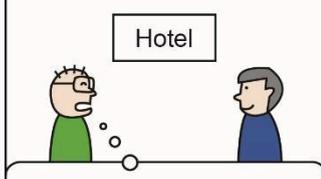
Episode 319: Different angle

I guided a guest scientist to a hotel.



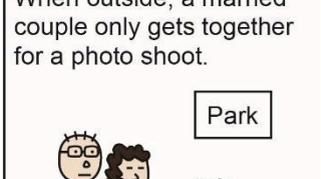
Koreans usually take good care of the guest's accommodation and meal.

Next day, I asked 'How is the hotel room?'



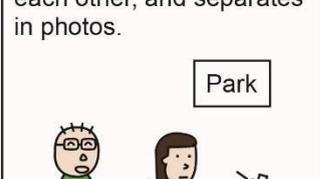
A guest can see what I have not seen (the bad points of my neighborhood hotel).

Marriage and affair are different. When outside, a married couple only gets together for a photo shoot.



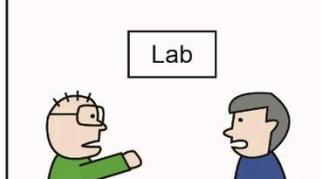
It is uncomfortable to have a photo taken separately.

In comparison, an affair couple holds onto each other, and separates in photos.



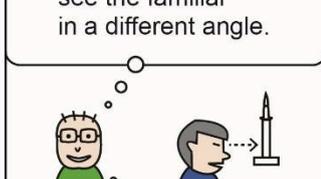
It is uncomfortable to have a photo taken together.

After introducing my lab, I asked 'How is the lab?'



Do you find anything lacking in my lab?

A guest helps me see the familiar in a different angle.



The darkest place is under the candlestick.

It is the same situation with professor and student. If they stay apart in school, they get together in academic conference.



Let's seize this opportunity!

On the other hand, if they stay together in school, they go apart in academic conference.

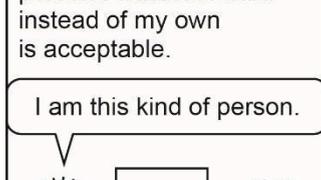


We don't have to stick together.

Episode 321: Mistakes that should not be made 1/2

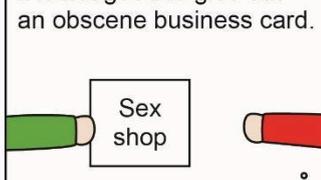
A mistake of giving another person's business card instead of my own is acceptable.

I am this kind of person.



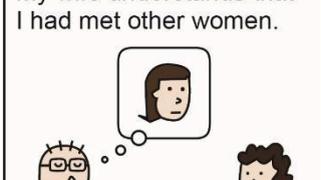
His head is never bushy.

However, it is not good to give out an obscene business card.



Is he trying to show off how he entertains himself? I feel uncomfortable.

(Continuing) My wife understands that I had met other women.



It is OK if the relationships were not simultaneous.

But she doesn't understand if I start sharing my past.

Once upon a time, the other woman...



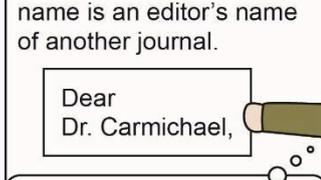
He came to me because the woman didn't want him. I feel uncomfortable.

In the case of submitting paper, a mistake of writing the editor's name incorrectly is acceptable.



I understand, we never met in person.

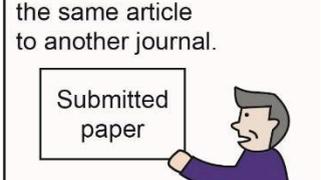
But it is not okay if the incorrectly written name is an editor's name of another journal.



He attempted to submit this to another journal. I feel uncomfortable.

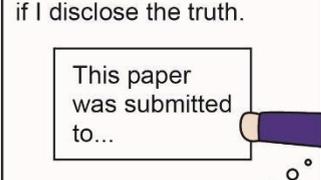
(To be continued)

The editor understands that I had submitted the same article to another journal.



I don't mind if it is not the case of double submission.

However, the editor doesn't understand if I disclose the truth.



He came to me because the other journal rejected him. I feel uncomfortable.

Episode 322: Mistakes that should not be made 2/2

Episode 323: R, G, B

I talk about the three primary colors of light.

R	G	B
red	green	blue

On the screen of the computer, R, G, and B have the value from 0 to 255.

	R	G	B
Black	0	0	0
White	255	255	255

The sum of R, G, B is the brightness.

I was talking about business by a scientist. To start the business, four are necessary. First is idea.

Symposium

I get a good idea from an academic activity.

Second is person.

Lab

I give a lot of work to graduate students. I emphasize on the importance of learning while paying them small wage.

	R	G	B
Gray	200	200	200

If R, G, B values are the same, it makes gray. The difference of R, G, and B values means saturation.

	R	G	B
Red	255	0	0
Yellow	255	255	0

To be a proper color, at least one of R, G, B needs to be 0.

I associated R, G, B with brightness, saturation, and color.

Third is money.

Foundation

I receive research funding. I don't need to repay the fund or share the profit with the foundation.

Fourth is safety net.

School Institute

I receive support from my affiliated school or institute. Even if the business goes broke, I can survive.

Episode 326: The rich-gets richer and the poor-gets-poorer

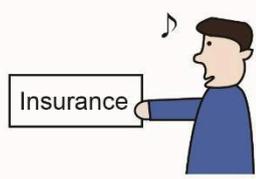
Episode 327: Effort = Failure

I talk about unfairness.



Although the rich should buy the lottery, the poor buys more lottery.

Even though insurance is made for the poor, the rich gets more benefit.



Result is the rich get richer and the poor get poorer.

I analyzed mathematically the relationship between failure (F) and effort (E).

No E → F	↔ Converse	F → No E
E → No F	↔ Contraposition	No F → E

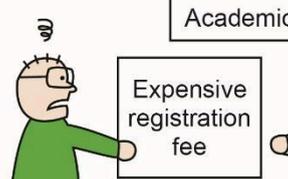
If you do not make effort, you fail.

$No E \rightarrow F$

Contraposition of the proposition is right. In other words, if you don't want to fail, you should make effort.

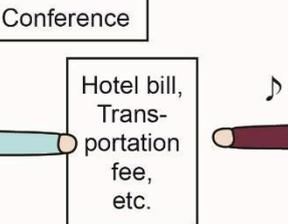
$No F \rightarrow E$

In a conference, the rich scientist should donate money.



However in reality, the poor scientist pays.

The conference gives the remaining money to the rich scientist.



It is unfair.

Suppose the propositions (→) are equations (=).

$$\begin{array}{r} No E = F \\ - No F = E \\ \hline E - F = F - E \end{array}$$

Subtracting the two sides of the equation...

$2 \times E = 2 \times F$
 $\therefore E = F$

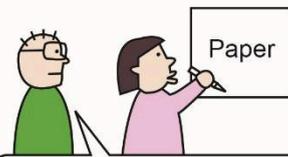


If you make effort, that makes failure. It is mathematically analyzed and proven, so it can be trusted.

Episode 328: Materials and methods

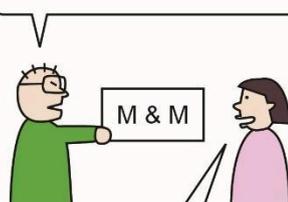
Episode 330: Wavelength of light

I instructed the graduate students to write materials and methods (M & M).



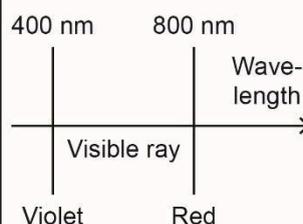
As the first step, you write M & M that is what you did for the experiment.

Frankly speaking, most people don't read this section in the article.



Then I can write that loosely.

I talk about wavelength of light.

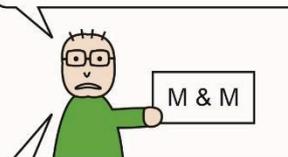


Among the light spectrum, red has the longest wavelength.



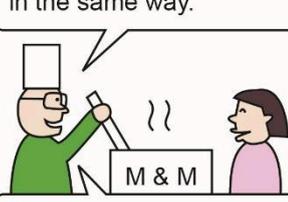
The way to remember is that red is longest in the rainbow.

That is wrong because a reviewer may try to find a mistake in this section.



It is difficult to get out of it if a complaint is put in this section.

M & M is similar to the cookbook, which enables other chefs to cook in the same way.



Write so that others can repeat your experiment.

UV = Ultra (above) violet

Visible ray

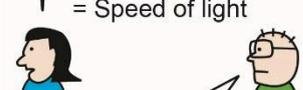
IR = Infra (below) red



If wavelength is above red, that is IR.

The wavelength does not fit to the ultra and infra

Wavelength × Frequency = Speed of light



The terms are decided by the frequency, inversely proportional to the wavelength.

Episode 331: Secretly written paper

I realized that experiment and paper are different. Doing an experiment makes the superior person content.

Dean or research director Seems to work hard

However, writing an article does not.

Seems to be lazy or trying to fulfill his own greed

I went to a mountain.

Haha Why is he laughing?

I laughed although I fell.

It was because I was hiking while drunk.

I knew the accident was going to happen. Haha.

Next time, I shouldn't drink alcohol.

Even so, not enough article yields a problem.

Seems to have no talent

You are always writing, why only this?

Therefore, scientists tend to write articles in secret.

Seems skillful

(Lie) I wrote it quickly.

A similar thing happened in the lab.

Why is he laughing?

Haha

I laughed even though I got a negative result.

It was because I put in the wrong material.

I already knew the bad result would come out. Haha.

Next time, I shouldn't make the mistake.

Episode 333: Teacher's teacher

I try to pacify my wife.

I am always scolded by her.

Scolding

Please, teacher!

Why am I a teacher?

Because you are teaching me, teacher. So you are a teacher's teacher!

I had a dream when I was a graduate student.

Store

In dream, my academic advisor was a shop owner and I decided to trick him.

I would like to buy seven candies.

Candy for 70 cents

I threw 49 dimes (= 490 cents) on the floor for him to pick up.

I'll accompany you to a foreign academy.

No.

I can't tell her that if she comes along, it is not fun and costs a lot of money.

We would ride on a dangerous airplane and travel to a strange place.

If both of us are hurt, who will take care of our family?

(Next day) I will buy seven candies again.

10 Dollars

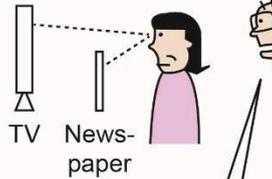
The academic advisor threw the change, 51 dimes (= 510 cents) on the floor.

I will buy seven more candies.

I took only 2 dimes (= 20 cents). I used logic as a science major student.

Episode 336: Social issue, president speech

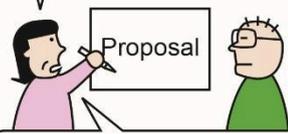
I met a scientist who is always interested in the news.



TV Newspaper

Can a scientist have interest in something that is not science?

When applying for a grant, I write about social issue on the expected effect.



Proposal

For example, my proposal will solve the unemployment problem.

On the background of the proposal, I write the words of the president.



My proposal has started from the president's interest.

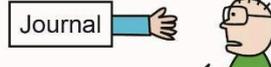
A grant comes from the government budget, so officials must have justification to give out the grant.



No reason better than social problem and the president speech.

Episode 337: Who pays the money?

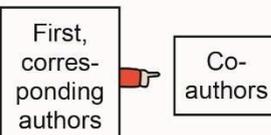
An academic journal asked for the publishing cost of article.



Journal

A popular magazine gives money to authors; an academic journal takes money from authors.

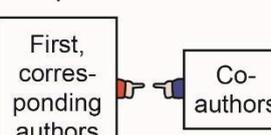
Therefore, the authors gathered.



First, corresponding authors Co-authors

You need to pay because you contributed less.

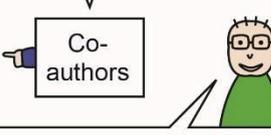
Think of the investment.



First, corresponding authors Co-authors

Think of the benefit.

You need to pay because you attain profit the most.



Co-authors

Actually, the corresponding author who holds the right and responsibility often pays the money.

Episode 338: Not enough time to lecture.

I saw a scientist who complained that the lecture time is insufficient

← Complaining

I have to teach the 4 hour worth subject in only one hour.

Grumbling to the students is a bad attitude.

Meanwhile, he is afraid to complain to the superior person who is in charge of reducing the lecture time.

I taught a graduate student how to answer in academic conference.

It is easy to announce what you studied.

But it is difficult to answer unexpected question.

Rearranging what you memorized, you can answer any question.

Memorize manuscript.

This is since what you need to say is in the presentation.

It is possible to summarize the lecture content to fit the 1 hour.

Abstract

Scientists can easily condense the contents because they often write the abstracts of articles.

Even in an elevator, scientists must be able to give a lecture in 1 minute.

What do you research these days?

My work is...

If you do not realize what the question is, you become a clown.

Ask for shorter question.

Short questions are easy to comprehend.

If the question is still difficult, ask the chairperson for help.

The chairperson and the listeners will take your side; the questioner will become a laughing stock.

Episode 341: Equally men and women

We got a motel to attend a symposium.

← Motel

Scientist and graduate students have no reason to use an expensive hotel.

Three boys slept in one room, while one girl in one room.

So, the boys were uncomfortable and the girl was comfortable.

There was a word to make science sound wonderful.

Science = Creativity

For scientific research, one must have creativity.

Nice, but obscure.

Science = Effort

If one does not try, creativity does not occur. To say 'One should make effort.' is clearer.

I thought she would be appreciative or sorry for the boys, but she wasn't.

Therefore, the next day, I handled this matter equally between man and woman.

I gave the same amount of money to each student for lodging. Then, they slept in the same room.

We saved money by sharing the room

I had to fill the lacking money.

For scientific research, one must have competitiveness.

Science = Competitiveness

Also nice, but obscure. Competitiveness does not occur unless one competes.

To say 'One should compete.' is clearer.

Science = Competition

Words wonderfully describing science is cool but ambiguous. Words calling out science is not cool but obvious.

Episode 343: Gambling and research plan

Episode 344: Soccer game and research plan

I talked about gambling.

Earning money from gambling

Casino

Although I spent all night working, I earned money.

Lossing money by gambling

Casino

Although I lost money, I spent all night enjoying.

(Continuing) I saw a man who got angry because the national soccer team lost.

Korea loser 0 : 2

This is upsetting.

Are you damaged from your team losing?

There would be a real loss if your nation lost a war. Don't be disappointed so much.

Research proposal is similar.

Receiving a research grant

Although I spent the whole night writing, I obtained grant.

Not receiving a research grant

Although I didn't obtain grant, I spent all night studying. Not like I lost money for gambling.

(To be continued)

And I saw a scientist who got angry because her proposal was rejected.

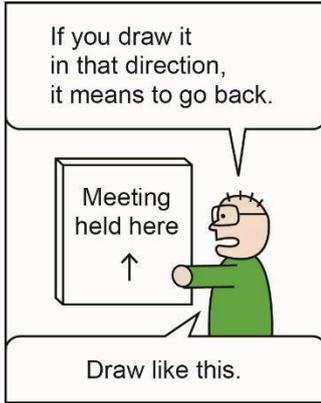
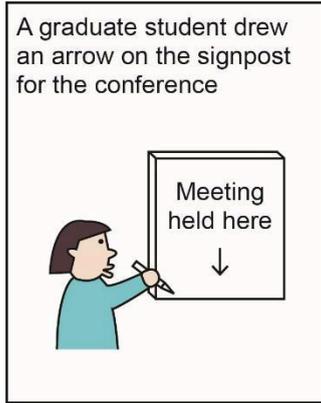
Elimination

This is upsetting.

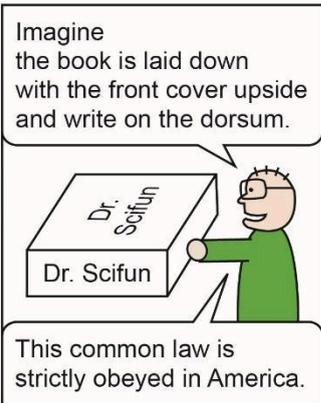
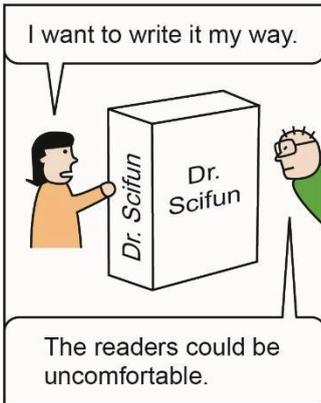
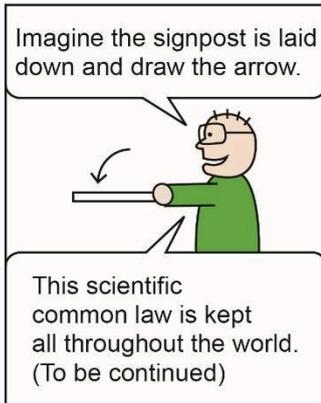
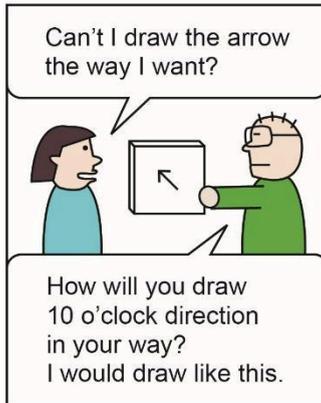
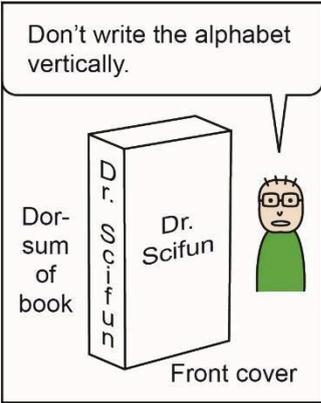
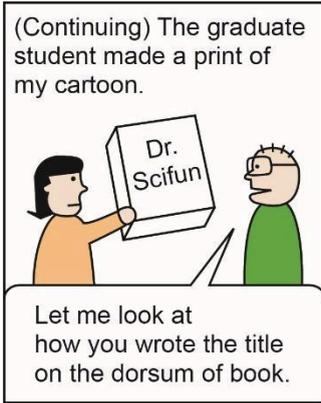
Are you damaged from your proposal being eliminated?

There would be a real loss if your commercial business failed. Do you feel better now?

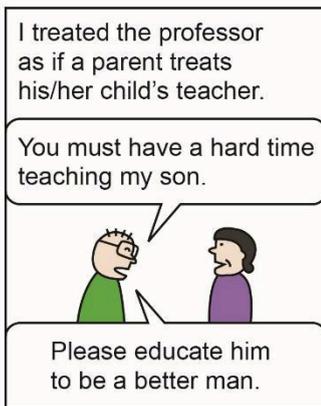
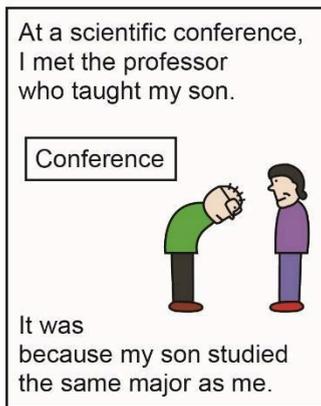
Episode 345: Arrow on the signpost



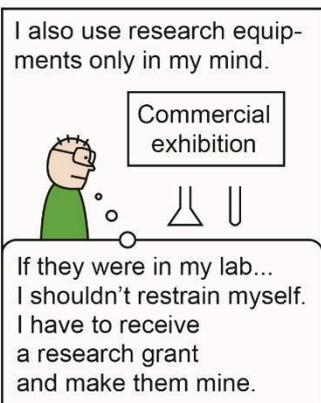
Episode 346: Letters on the dorsum of book



Episode 348: Parent's mind



Episode 349: Eye candy



Episode 350: Shopping broadcast, Conference

I heard about the TV broadcast.

Broadcast

The audience rate counts because it determines the price and request of advertisements.

But in shopping broadcast, it matters how much audiences buy.

Shopping broadcast

Sales are more important than audience rate.

Let's talk about the centrifugal force and gravity.

Centrifugal force

Gravity

Satellite obtains centrifugal force while circling around the earth; the force is equal to gravity, so it can go on its own path.

Student is also the same.

Centrifugal force

Gravity

Centrifugal force pulling away from me is equal to the gravity being close to me, so she can go on her own path.

I talked about conference.

Slide

Satisfaction is more important than the attendance.

The more I satisfy audience, the more reputation I will gain.

Quiet

Small audience doesn't disappoint me.

Next issue is Kepler's second law.

The closer the earth is to the sun, the quicker it moves; the farther, the slower.

Student is also the same. The closer to me, the faster she runs away;

the farther, the slower to enjoy the free time.

Episode 352: Scientist, manager, and wife

The difference between scientist and merchant was reviewed.

Idea

Scientist puts his/her idea into other's head.

In order to do that, he/she utilizes slides, posters, papers, and books.

Merchant

Money

Merchant puts other's money into his/her pocket.

I divide restaurants into two groups. A serial restaurant gives the course dishes one by one.

Course serving

I eat all the given dishes and get full in the end.

If the batteries are connected in serial, the light bulb uses all the batteries.

Therefore, the light is brighter.

In order to do that, he/she sells proper products.

Idea

Money

It is the wife who can do both the works of a scientist and a merchant.

Wife is good at putting her idea into husband head,

Idea

Money

and also putting husband's money into her pocket.

A parallel restaurant gives all the dishes at once.

Concurrent serving

I choose to eat only the delicious dishes and eventually get less full.

If the batteries are connected in parallel, the light bulb chooses to use the batteries.

Therefore, the light is less bright.

Episode 354: Trick of swindler

I recall the swindler who scammed me.

Swindler Guest



He attempted to put me at ease by telling me a story of other swindlers.

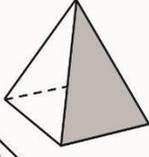
There are people who will secretly fraud you.

Trickery



After listening to the story, I did not doubt him and was finally fooled.

I drew a square pyramid and gave it a three-dimensional effect.



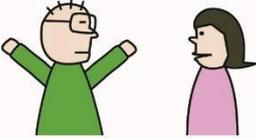
I cannot feel the stereoscopic effect properly with this figure.

So I drew this pyramid as shown below.



If I put my hand between the third and fourth frames and look at each pyramid with each eye, I can see the vertex sticking up.

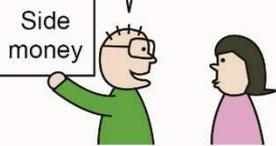
I used that swindler's trick to my wife.



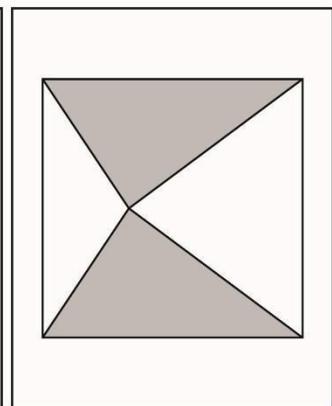
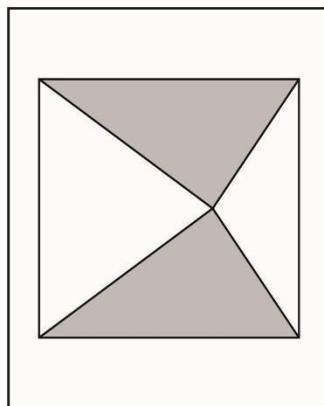
I attempted to put my wife at ease by telling her a story of other scientists.

Many scientists keep the extra income from their wives.

Side money



After then, she did not suspect me and I succeeded in hiding it.



Episode 356: To have authority

My scientific article was published in the journal.

PDF file

Although it is the same article, a portable document format (PDF) file is more authoritative than a word file.

The article published in the newspaper is in the same sense.

Paper

A newspaper article has more authority than an online article. Why is this?

I made a joke and got scolded.

What does the fish say when it runs into the wall? Dam!

Graduate student

I already heard that joke.

I shamelessly told her.

Why do you listen to the same song again?

Like a song, a funny story gives a different feeling every time.

While there are several reasons, it is because PDF file and paper cannot be fixed.

PDF file Paper

Similarly, if I want authority over students, I don't easily change the plan.

Plan

As planned, there will be a test.

Same situation happened.

Do I listen to this lecture that I already attended in the last term?

Lecture Presentation

Do I listen to this presentation again?

Why do you listen to the same song again?

Every time you hear the same lecture or presentation, the feeling and lesson you get are different.

Episode 358: Volunteering reviewer

I was asked to review a manuscript submitted to an academic journal.

Journal Request Consent

I would happily review it for these reasons.

First, it helps me determine my next research.

Manuscript

Ahha, nowadays this is how other scientists are studying.

It helps in writing my next paper.

I heard the story of a scientist appearing on TV.

I cannot make money from just appearing on TV.

Instead, by promoting my face,

I can make money from lectures or books.

Book Lecture

Similarly, an entertainer promotes oneself and earns money through events, advertisements.

Second, it helps me become friendly with the editor.

Reviewer's opinion

I hope, the editor would be more favorable to my next paper that I will submit to this journal.

Third, it helps me let off stress.

I point out the problems in the manuscript like scolding a youngster.

The author doesn't know me, so I can be harsh.

If I promote myself in 'Dr. Scifun,' I will make money too.

Book

This English will be translated into other languages to earn more money.

When a scientist gets famous by articles, the one can obtain grants for projects.

Articles Research funds

Papers are written to earn research expenses.

Episode 360: White night

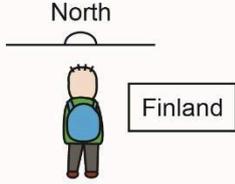
In the June, I went to Helsinki, Finland.



Helsinki
(North latitude 60°)

Among the big cities in the world, it is the most northern city.

At midnight, the sun goes down for a short time and comes back up promptly.



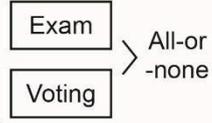
The sky is white at that moment, which is called the white night.

While in the restroom, I thought about the all-or-none law.



I must flush down all or none. I cannot flush half.

Similarly, entrance examination just has success or fail.



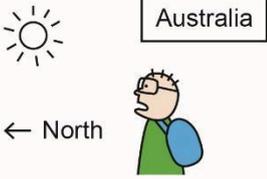
Voting has only election and defeat.

In the Korean summer, the sun comes up in the northeast and goes down in the northwest.



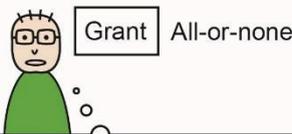
The more northern I move, the more northern the sun rises and sets.

It is a small joy to practice earth science while trip.



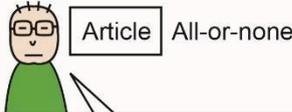
In Australia, I was surprised to see the sun in the north during the day.

If I apply for a research grant, it is either given or not given at all.



I would prefer to be given even half.

Same with an article, it is either accepted or rejected.



In rare case, the article is half accepted as a letter to the editor (50% score).

(To be continued)

(Continuing)

All-or-none law is harmful to scientific research.

A small difference, thus luck, determines the fate of research grant and paper.

If grant and paper fail once or twice, the scientist has no luck. If they fail many times, the scientist has no skill.

By frequently applying, the all-or-none disappears.

Similarities between mountain top and academic presentation was mentioned.

It is difficult to climb to the mountain top and to prepare a presentation.

On the top, it is either heaven or hell.

Weather

Good weather yields heaven, bad weather yields hell.

With a joke, people might laugh or not laugh.

Joke All-or-none

If there is no laugh once or twice, there is no luck; if no laugh several times, one is bad at joking.

By frequently telling the joke, the all-or-none disappears.

It is okay for the joke to succeed once in couple of times. The same for grant and article.

Presentation is also either heaven or hell.

Clap! Boo!

Response

Good response means heaven, poor one means hell.

I also talk about the difference between the two.

I cannot change weather,

Weather Response

but I can alter response by effort.

Don't write cm in a scientific article.

100 cm (centimeter) = 1 m (meter)

1,000 mm (millimeter) = 1 m

Instead, write m or mm.

It is a rule to write multiple units of 1,000.

10 dm (decimeter) = 1 m

If you choose to use cm, how can you stop from using dm?

I gave tips to my graduate student preparing a presentation.

Stay away from the unfamiliar.

Conference

Don't use the laser pointer, included in remote control.

The unfamiliar laser pointer may mistakenly turn the slide and frustrate the audience.

I'm sorry.

You may focus on the presentation by using the personal laser pointer.

For example, do not write 178 cm. Write 1.78 m or 1780 mm.

Stature 1.78 m

Because the height is not measured by mm, 1.78 m is preferred.

Use ml instead of cc. (Unit cc is popular in Korea.)

1 cc (cubic centimeter) = 1 ml (milliliter)

It is scientific to use ml, even when you order a beer.

Before presentation, greet chairperson so that the chairperson can proceed session at ease.

Chair

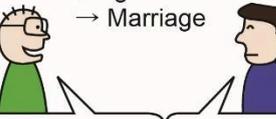
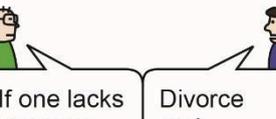
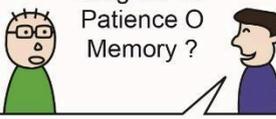
I am the second presenter.

Greet any audience, and this will also help your presentation.

After the talk, you don't need to think about courtesy. The audience forgets anyways.

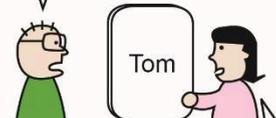
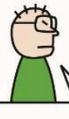
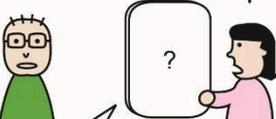
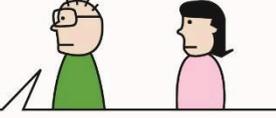
Episode 367: The 10% law of article.

Episode 368: Judgment, patience, memory

<p>What is the 10% law?</p>  <p>10% selection by titles</p> <p>After reading a valuable paper, I look at the paper's references and choose 10% of the listed articles based on their titles.</p>	<p>Then I search their abstracts on the Internet.</p>  <p>10% selection by abstracts</p> <p>I choose 10% of the articles based on their abstracts.</p>	<p>I taught graduate student the three necessities for scientists.</p> <p>Judgment Patience Memory</p>  <p>The three are too obvious to be impressive.</p>	<p>So, I explain in connection with marriage.</p> <p>Judgment X → Marriage</p>  <p>If there is no judgment, one gets married.</p> <p>Marriage is a crazy thing.</p>
<p>Next, I obtain their full bodies.</p>  <p>10% selection by full bodies</p> <p>I again choose 10% of the articles based on their bodies. I incorporate these selected papers as references in my article.</p>	<p>Therefore, 0.1% of the articles encountered in the references list get used as my references.</p>  <p>$10\% \times 10\% \times 10\% = 0.1\%$</p> <p>Even good title and abstract yield 1% selection.</p>	<p>No patience will lead to divorce.</p> <p>Patience X → Divorce Memory X → Remarriage</p>  <p>If one lacks memory, one will remarry.</p> <p>Divorce and remarriage are crazier.</p>	<p>Now that is impressive!</p> <p>Judgment X Patience O Memory ?</p>  <p>You haven't divorced yet, so you have no judgment but patience. Not sure about your memory.</p>

Episode 369: Scientist's manners 1/3

Episode 370: Scientist's manners 2/3

<p>I taught phone manners.</p> <p>When the name of the caller is displayed on the mobile phone, say the name.</p>  <p>Tom!</p>	<p>If you don't, he has to say his name himself.</p> <p>Hello.</p>  <p>Tom</p> <p>This is Tom.</p>	<p>(Continuing manners) Next lesson on manners was about e-mail.</p>  <p>When sending a reply, you must use 'reply to all' to make the 'cc (carbon copy)' also get the reply.</p>	<p>Tom → Mary ↓ cc Tom ← Mary ↑ cc</p>  <p>If you do not, Tom will need to forward the reply to cc, making more work.</p>
<p>If the caller's name does not appear, or if it is a wire telephone, say your name.</p> <p>This is Mary.</p>  <p>?</p> <p>I'm Tom.</p>	<p>If you do as I tell you, calling will be easier.</p>  <p>The first thing to figure out on phone is identity of each other.</p> <p>(To be continued)</p>	<p>When writing an e-mail to visit someone, ask in multiple-choice.</p>  <p>Next week, I can visit any time on Monday afternoon or on Tuesday whole day. Please choose the date and time.</p>	<p>If you do not, it causes difficulty.</p> <p>When do you like me to visit? Come tomorrow.</p>  <p>I can't. (Annoyed)</p> <p>(To be continued)</p>

Episode 371: Scientist's manners 3/3

(Continuing manners)
I taught the remaining e-mail manners.

Science by etiquette



Don't hesitate to use 'thank' 'sorry' in e-mail.

For example, when writing an e-mail, write 'sorry' 'thank' at least once.



Always thank you.

I heard about the balance.

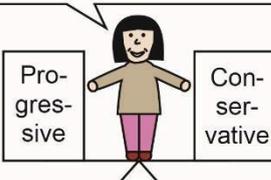
Politician



You are close to progressive (or conservative).

I know many politicians who are closer to progressive (or conservative) than me.

I have balance.



Progressive

Conservative

A politician must obtain both the votes of progressive and conservative.

Even if you aren't sorry or thankful, you should follow this rule of manners.



I am sorry not to say greetings often.

This is a way to science.

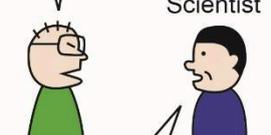
Sometimes I don't keep manners by not saying 'thank' 'sorry' even in situations that call for these phrases.



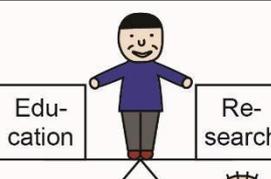
That is when I don't want to be associated with the person.

You are buried in education (or research).

Scientist



There are other scientists who are more serious in education (or research). I have balance.



Education

Research

If devoted to education, he seems to care just for his students. If devoted to research, he seems to only think of himself.

Episode 373: Cranky student

There was a graduate student who always complained.

Laboratory

I always work more than other students, but I gain less results.

It is ineffective to explain in detail to a student like this.

I think your investment and profit...

No, from how I see it...

It is appropriate to speak vaguely.

What do you want? What did you expect when you entered graduate school?

...

It is good to talk ambiguously to my wife whining at home as well.

Home

Just wait. Everything will be good.

Scientists differ from other workers.

Weekday

Enjoying free time with an excuse of academic trip

I play when other workers have to work.

But I work when other workers play.

Weekend

Compensating the weekday play

Scientists do real play, real work.

The important thing for other workers is salary.

Excitement comes when getting paid.

The important thing for scientists is honor.

The research achievement affects the honor.

Episode 376: My fence

I heard film directors' conversation.

Producing a good movie is inside my fence,

Movie

while people coming to watch my movie is outside my fence.

Even though the movie is well made, people may not watch the movie.

Only god knows the box office.

It is said that the outside of the fence is god's place.

In a paper, the hypothesis must be novel (new).

Hypothesis: The drug affects on the disease.

I have never seen the hypothesis about the drug before.

How good would it be if the hypothesis is right?

If the hypothesis is totally different, the paper becomes novel (new).

Scientists say similar things.

Writing good proposal and paper is inside my fence,

Proposal Paper

The judge's acceptance is outside my fence.

If accepted, they say their skill decides.

Skill 7 Luck 3

Luck 7 Skill 3

If not, they say the luck decides.

Also, the hypothesis must not be a novel (fiction).

Conclusion: The drug affects on the disease.

Author concludes without enough experiment.

If the hypothesis is written like the conclusion, the paper becomes a novel (fiction).

Paper

Novel

A paper should be novel (new), not a novel (fiction).

Episode 380: Achievement and ability

Episode 381: Examinee = Scientist

I told graduate students that achievement and ability are different.

Achievement ≠ Ability

As example, achievement is the paper, while ability is the skill to write the paper.

If you publish many papers, you can get an earlier degree, and be well recognized as a scientist.

Paper

What do I have to do to have many papers?

An examinee and scientist have common attributes.

Do not worry about anything else.

A student is immersed in studying, while the family takes care of other things.

If a scientist is busy with the research, the family takes care of other things.

At home... You can decide on what to do, I don't mind.

You experiment, and I write. This method has high efficiency.

The problem is that you are not learning the skills to write the paper.

You gain achievement but no ability.

Achievement Ability

Nowadays, it's an unavoidable problem due to putting importance on achievement.

A scientist does not know what is going on in the world.

How to pay tax, how to buy a cell phone?

If I become renowned, I'm a scientist that lives away from the secular society.

Mundane life

If I do not, I'm just a clueless scientist.

Common sense

Episode 383: Vice-dean, vice-director

For a scientist to become a dean or a director, he/she must become a vice dean or vice director at one point.

Vice → Dean or director

As far as I've seen, it is a fit proposition.

If I don't want to become a dean or a director, I must not be a vice dean or a vice director.

No vice → Neither dean nor director

This inverse of the proposition is also correct.

A research institute gave me a commissioned investigation.

Researcher of the institute

To receive the grant,

you have to create a variety of documents. Is 3 days enough to do the job?

Yes, sir.

The person who gives the grant overpowers the other.

If another person, who is younger, becomes the vice dean or the vice director, the scientist is free from the job.

That makes me comfortable. I did a good job in turning down the chance.

A dean or director hardly becomes renowned worldwide. However, a scientist can make a mark in the world.

I am a scientist.

I wrote an article on the commissioned investigation. I decided to make the researcher a co-author.

To become a co-author,

you must finish reading the paper, and fill out a variety of contents. Is 3 days enough?

Yes, sir.

The person who writes the paper overpowers the other.

Episode 386: Centrifugal force

In the car, I sat between an old woman and a young woman.

The old The young

When the car was turning left,

my body moved to the right due to centrifugal force.

Centrifugal force ←

I was listening to a piano performance at a concert.

The right side of the grand piano is toward the audience.

The right hand plays the main pitch.

So I look at the dominant right hand of pianist.

I tried hard not to move.

Heaven! Are you testing me with centrifugal force?

But I didn't try hard when the car was turning right.

Heaven! I will happily receive your message of centrifugal force.

This custom can be applied to a conference.

Slide Chair-person

The presenter stands to the left.

The right hand makes several gestures.

Ignoring left-handers

That way, I look at the dominant right hand.

Episode 388: Not for You

In a BBQ house...

I feel sorry for the employee who frequently changes the iron plate.

We can still use the current one; no need to change it so often.

It is easier to wash the iron plate if it is often changed.

It is not for me, but for the iron plate!

When I was young, I enjoyed looking at the world map.

Korea is located in the center of the world but Europe is at the west end.

A European thinks in reverse.

(Original world map)

Korea belongs to the Far East.

In the lab, I ordered to pass the experiment to another graduate student.

I'm feeling sorry for another student.

I can still take on the experiment.

It is better for the experiment if another does it.

It is not for me, but for the experiment!

Now I regard a geologist as miserable.

How pitiful the geologist is! He has to work in the mountain and meadow in the cold and hot weather.

The geologist thinks the opposite.

Playing is working.

How suffocating the scientist is! He has to work in the laboratory like a prison!

Episode 390: Strict chairperson

A conference chairperson should be strict.

The time has run out.

His strictness is hated by the presenter.

In contrast, the chairperson's generosity is hated by the audience.

You may have unlimited time.

A long talk is boring and also shortens the break time.

There was an unusual scientist.

He attended all ceremonies of the university faculties without missing single one.

It is not easy to take care of people he doesn't even know.

Later, the scientist became the university president.

The generosity is hated by the organizer of the conference.

The schedule cannot be delayed. Please hurry up.

The generosity is hated by the next presenter.

Due to the lack of time, finish early please.

Why do I get a shorter time? I am innocent.

Another scientist did not miss any talks of the academic meetings.

It is not easy to listen to other field's presentation.

Later, the scientist became the academic master.

Do I spend physical labor to become the president? Or spend mental labor to become the master?

Episode 392: After drawing hundreds of comics

Readers	Royalties	No paper	Kill-time
When I began drawing the comics, I was not famous.	My comic book was hardly sold.	I didn't even think to write scientific articles on comics.	I was an amateur cartoonist.
After drawing hundreds of episodes, I've got famous through social network service.	The comic book is sold well.	I have made scientific articles on comics.	I look like a professional cartoonist.
Readers	Royal-ties	Pa-pers	Vocational

Episode 394: Man & woman relationship = Problem

I analyzed why the relationship between a man and a woman in love is problematic.

Man & woman relationship		∴ Love requires time and money.
= Time X Money		
= Money X Money		∴ Time is money.
= Money ²		
= (√Problem) ²		∴ Money is the root (√) of problem.
= Problem		∴ Man and woman relationship is problem.

Episode 395: Robot scientist

I met a scientist who studies robots (cyborgs).

Robot science

Because of science-fiction films, people are interested in robots. So you receive more research funds, right?

Yes, but no matter how much I endeavor to create a robot, people get disappointed with it.

The robots in the movie are almost like humans, but yours is not.

When a friend of mine buys me a meal, I bring along another friend.

Pay it for this friend too.

Sure.

The friend I brought along would buy me another meal to compensate. Then I bring along another friend.

This way I can have a meal for free continuously.

SF films make people eagerly anticipate robots. I told them movies are not real, but they don't hear me.

What a pitiful robot scientist.

I am disappointed with this spider.

Spiderman beats villains by swinging between buildings, but this spider cannot do that.

(This part is just a joke) When a scientist registers me as a co-author, I bring along another scientist.

Please, register him as well.

Of course.

When that scientist registers me as a co-author in his/her paper to compensate, I bring along another scientist.

I can be a co-author for free continuously.

Episode 397: Simple and complicated experiments

I taught a know-how in conducting experiments.

Graduate student

Set up the experiment as simply as you can, and conduct it without any complicated thinking.

A simple experiment requires less effort, time, and mistakes.

Simple

When you face a problem with it, then conduct a complicated experiment.

My major has narrowed before it widened.

Major

Upon entering university, I got my major.

Upon entering graduate school, I got an intensified major.

Intensified major

A part

By entering a lab, I dealt with a part of my intensified major.

Try to figure out why the problem was caused and how to solve it. For that, perform a preliminary experiment.

Complicated

The preliminary experiment is complicated.

It is daunting when you conduct a complicated experiment after experiencing a simple one, but its reverse is not daunting.

Such is the case of a downhill road and an uphill road.

After getting my doctor's degree, I tried to get to know other majors.

Major + Other majors

I intended to get along with people from other majors.

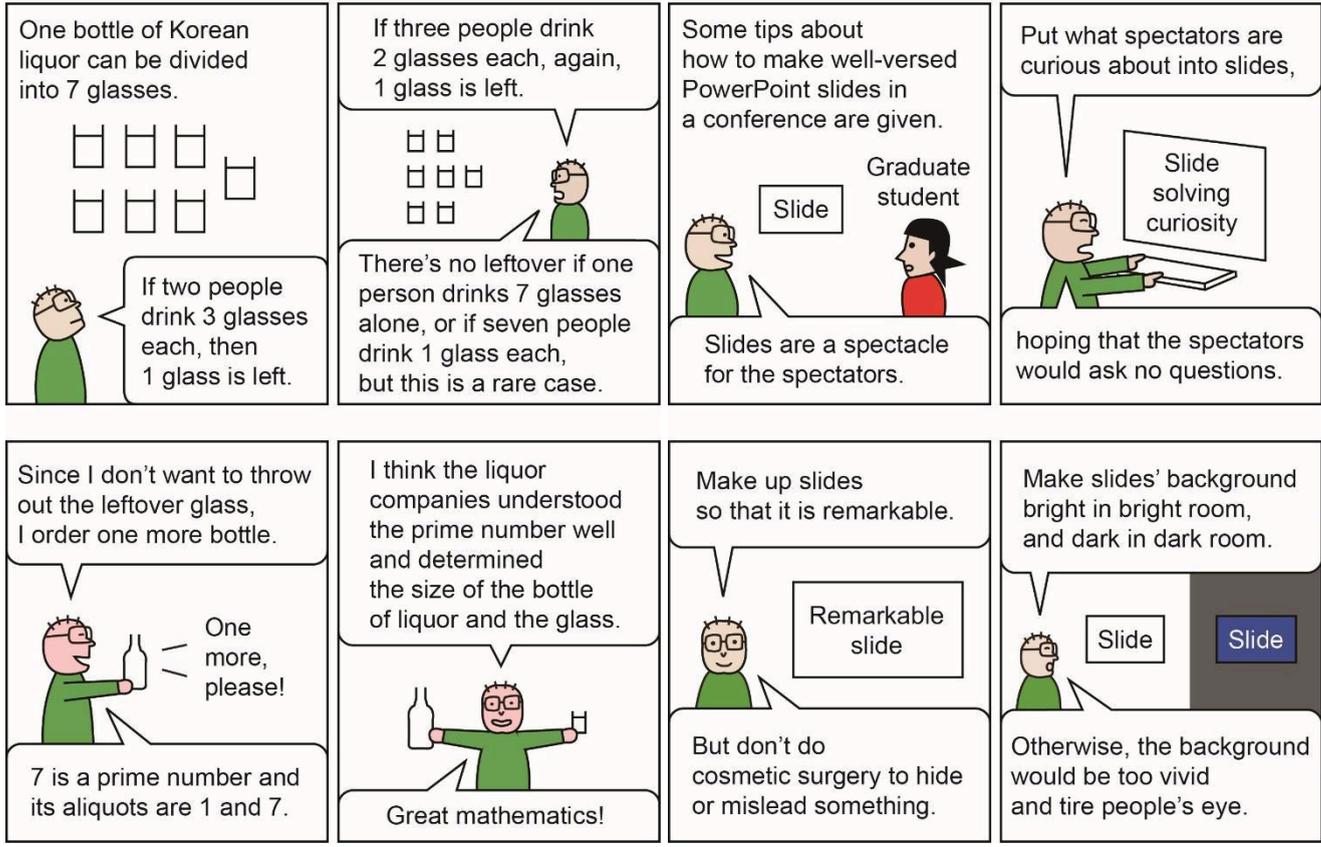
This is because I can do a well-versed research with other majors.

This form of narrowing and widening looks like an hourglass.

Episode 398: Narrowing and widening major

Episode 399: Prime number

Episode 400: Well-versed slides



Episode 401: Special lecture by someone influential

I talk about whom to ask to give a special lecture in a conference.

Organization of conference



It might be okay to ask for an excellent scientist.

Special lecture: Tips on writing a paper

But I would prefer an editor-in-chief of an academic journal where we would submit many papers.

It would be advantageous since we would learn many things from him/her and also get familiar with him/her.



We should make someone influential our ally.

I will talk about whom to ask for a special lecture at my university.

Special lecture: How to write a research proposal

I would suggest someone in charge of the foundation where we submit many proposals.

Episode 402: Clapping hands gladly

When I was a middle-school student, I was forced to go out to the street to welcome the U.S. president.



Boring

It was boring until his car passed by.

I waited for a long time, and when at last the car passed, I gladly clapped.



Clap

Now I don't need to wait for it anymore.

When I was at an academic conference, I lost interest in a talk.



Boring

I wished to go out, but I endured to listen to the next presentation.

I waited for a long time, and when at last the talk ended, I gladly clapped.



Thanks.

Clap

Now I don't need to listen to it anymore.

Episode 404: Results = Latitude, Discussion = Longitude

One of my graduate students asked a question while writing a paper.



Paper

I can write the results, but I don't know how I should write the discussion.

Let's say that you did experiment A to get results (R) A1, A2, and did experiment B to get results B1, B2.

R	A1	A2
R	B1	B2

Many scientists must be narrow-minded to survive.



Recently, almost every environment is harsh for scientists.

Scientists struggle to receive even a meager research fund.



Lions do not eat grass, but they can eat it if they are starving.

In the discussion (D) part, write A1, B1 and A2, B2 together.

	D	D
	A1	A2
	B1	B2

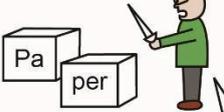
And write a discussion relating your results to those of another research.

We can say that the results are latitude, and the discussion is longitude.

	D	D
R		
R		

A paper is a fabric woven by latitude and longitude.

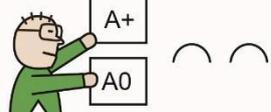
Scientists increase the number of papers by splitting it.



Pa per

One paper may not be accepted in a highly prestigious journal, so I divide it into a couple of papers.

Scientists give good grades to undergraduate students.



A+ A0

Lack of appreciation from the students is annoying.

The narrow mind is due to a harsh environment.

Episode 407: Classes of invited scientists

I talk about the classes of invited scientists in an international conference.

International conference

The first class scientist gives a presentation at the biggest stage.

Opening lecture

First class

She/He is allowed to not only reach goal, but also take advantage.

I have changed at each level of my career as a professor.

Assistant professor

I am most diligent when writing grant proposals. It is for being paid with a research fund.

Associate professor

I am most diligent when writing journal articles. It is for getting my tenure.

For the first class, everything is provided for free.

Moreover, in special cases, she/he is provided with a business class plane ticket as well as a lecture fee.

	Registration fee	Housing fee	Plane fare
1st	Free	Free	Free
2nd	Free	Free	
3rd	Free		

I am invited neither as second or third class.

Full professor

I am most diligent when writing books. It is for showing off to others.

Assi P Research fund = Money

Asso P Tenure = Power

Full P Showing off = Honor

My purpose has been changed from money to power and then to honor as taking turns.

Episode 409: Scientist starred on TV

I met a professor who is frequently starred on TV.

I scarcely appear in my lab as much I appear on TV.

The graduate students in your lab may not like you.

No, adversely, they like me. This is because, first of all, they feel free.

Lab

While he is absent, this lab is ours.

I saw cars in the parking lot of a conference.

One for all

When a car is parked neatly, it makes other car owners happy.

All for one

When a car is parked crookedly, it makes other car owners unhappy. It makes them waste time.

Second, they show me off to others.

My professor is a great scientist to the extent that he is starred on TV.

Third, they believe that it will help them get a job later.

Employers may think that we have been well taught by a TV star professor.

I saw scientists in the hall of a conference.

One for all

When good results are presented in easy terms, it makes other scientists happy.

All for one

When bad results are presented in difficult terms, it makes other scientists unhappy. It makes them waste time.

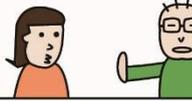
Episode 411: Wine and golf

Someone suggested I study wine.



After studying, you can tell which wine is expensive or cheap. (It means that you can acknowledge the true taste of wine.)

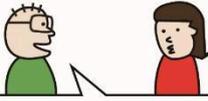
Then I will not study wine. After studying, I would have to pay more for good-quality wine.



Scientist should save money.

I recommended a scientist to be not mature when producing a book.

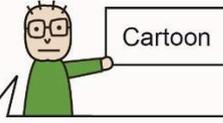
Scientists' meeting



Immaturity gives rise to your own book.

Firstly, immaturity can make you think of a novel idea.

Cartoon



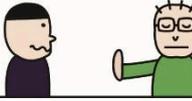
Just like I made a cartoon book.

Another suggested I learn to play golf.



After learning, you can tell how difficult golf is. (It means that you can acknowledge the true fun of golf.)

Then I will not learn golf. After learning, I would have to spend time more for overcoming the difficulty of golf.



Scientists should save time.

Secondly, immaturity can make you challenge yourself.

English version



As I published a book in English as well as one in Korean.

Thirdly, immaturity can make you do the work not profitable.

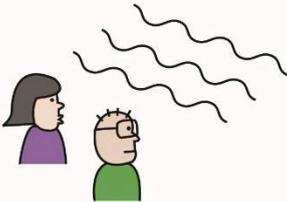
Free distribution



Likewise I shared a book for free on the Internet.

Episode 413: Poet and scientist

At a seaside, I looked at the waves with a poet.



We thought and said differently while watching the very same waves.

(Easy thinking)
The waves seem angry.

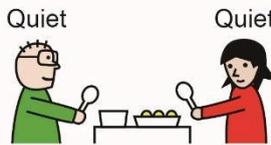
Poet

(Difficult saying)
Who invited them?
These waves disappear leaving behind innumerable foams talking tales of a far away ocean.

People are quiet or noisy while eating.

Cafeteria

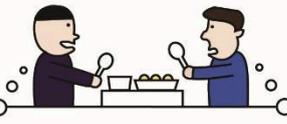
Quiet Quiet



Being quiet together causes no problem.

Being noisy together also creates no problem.

Noisy Noisy



The other person's noises do not bother me since I am also making noises.

(Difficult thinking)
Let's say that the small and big waves are 1 and 2, respectively; 1 1 2 1 1 2 come.

Scientist

To draw this as a sine function, $y=a \cdot \sin(x)+b$, I have to find the values of a and b.

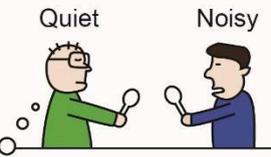
(Easy saying)
I couldn't find the values.



Poets express easy thoughts in a difficult way, and scientists express difficult thoughts in an easy way.

If someone eats quietly but the other makes a noise, there is a problem.

Quiet Noisy

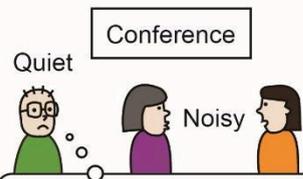


He doesn't feel sorry since I don't complain.

If someone is quiet and the others make a noise during the presentation, there is a problem.

Conference

Quiet Noisy

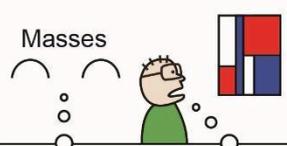


They don't feel sorry since I don't complain.

Episode 415: Approval by experts or masses

In the field of art, the experts' approval is important.

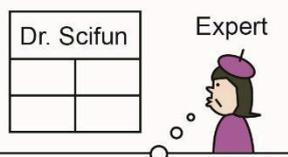
Masses



It's hard to understand its meaning, but let's accept it since it has been approved by the experts.

In the field of cartoon, the masses' approval is important.

Dr. Scifun Expert

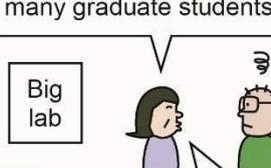


It seems like rubbish, but let's accept it since it has been approved by the masses.

A scientist once boasted.

My lab has many graduate students.

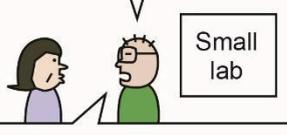
Big lab



Due to this, I gain more research funds, papers, and successful alumni.

I admit that. My lab has few graduate students.

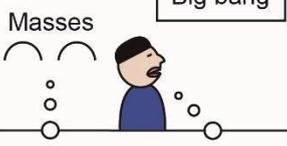
Small lab



But due to this, each of my students has a bigger share of the research funds, papers, and successful alumni.

Science is approved by the scientists.

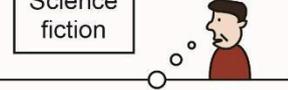
Masses Big bang



It's hard to find its meaning, but let's accept it since it has been approved by the experts.

But occasionally it is approved by the masses.

Science fiction Expert

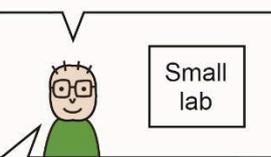


It seems like rubbish, but let's accept it since it has been...

There're the experts' and masses' sciences.

I care more about the national per capita income than the national income.

Small lab



This means that I care about the sufficiency of each student.

Moreover, I can spend more times for myself than for my students.



Because of that, I can draw cartoons as well as write books.

Episode 417: Editor-in-chief's know-how

Episode 418: Fishing and research

I asked a question to an editor-in-chief.

Editor-in-chief

Do you actually read all the papers contributed to the journal?

No, I just look over these parts, and hand papers to legitimate judges.

Title, abstract, figures, tables

To give a good first impression, I should spend more time for those parts.

I compare fishing and research.

Let's move to follow other fishers.

You'd better not move so frequently while fishing.

Let's change my research field to follow other scientists.

Field Field

You'd better not change your research field so frequently.

I can make an easy decision if all judges show the same reaction good or bad.

Accept Reject

But if the judges' decisions differ, I read it carefully to decide its acceptance or rejection.

You may think that I just have a casting vote.

I work on a fast track since there're a daunting number of contributed papers. Please understand me.

Let's use just one fishing rod.

You'd better use several fishing rods in one fishing location.

Let's use just one research method.

You'd better use several research methods in one field.

Episode 419: Eatable, hearable, visible, readable

I say bad things in decent terms as an educated person.

Cafeteria

How was the dishes? Edible!

How was the oral presentation? Hearable!

Academic conference

How was the poster presentation? Visible!

A scientist felt it was difficult to research due to the many lectures.

Education > Research

It is more disadvantageous compared to scientists in a research center since they don't need to give lectures.

Scientists should be able to change a disadvantage into an advantage.

Education = Research

Conduct a research relevant to education.

How was the academic paper? Readable!

Journal

The word 'edible' means that it can be eaten, but tastes bad.

The words 'hearable, visible, and readable' mean that they can be heard, viewed, and read, but their contents are bad.

If they were good, I would have said 'Pleased to hear, view, and read.'

Professors of clinical medicine have to handle an excessive number of patients in the hospital.

Patients = Research

So they conduct a research relevant to the patients.

Switzerland has numerous mountains, potentially harmful to tourism.

So they constructed railways and cable cars on mountains to make them a part of tourism and it was a big success.

Episode 422: Etc. Et al.

The abbreviations 'etc. et al.' are explained.

Etc. = Et cetera

Etc. is used when its contents are not human.

We joke that etc. means 'end of thinking capacity.'

A, B, etc.

I cannot think beyond A and B.

I get paid or pay as a scientist.

Wage for lecture

I get paid when I give a lecture in my university or somewhere else.

But I pay when I give a talk in an academic conference.

Registration fee

In fact, I pay regardless of my talk.

Et al. is used when its contents are human.

Et al. = Et alii = And others

We use it when the scientific paper is written by authors more than two.

We joke that et al. means 'extra trivial authors list.'

Chung et al.

The authors excluding the first one are not regarded.

I get paid when I contribute a piece of writing to a magazine or book.

Wage for contribution, royalties

A scientist is a professional writer.

But I pay when I contribute a paper to an academic journal. (Although some journals don't require a fee.)

Publication fee

Academic conference and journal earn money so easily.

Episode 423: Getting paid or paying

Episode 425: Once one begins

I compare eating to conducting a research.

I won't eat it to make my body slim.



If one makes up one's mind, one can keep oneself from eating delicious food.

But once one begins to eat, one cannot stop it.

Leftovers are just a waste, so let's eat up all this food.



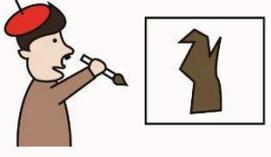
This is the nature of human.

I compare artists and scientists.



There are many poor artists.

Also there are many artists who were nameless when alive and famous after death.



But there are very very few scientists like that.

I won't investigate it to concentrate on my own research.



If one makes up one's mind, one can keep oneself from conducting other investigation.

But once one begins to investigate, one cannot stop it.

Leftovers are just a waste, so let's investigate until it gets published in a paper.



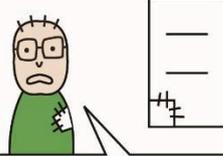
This is the nature of scientist.

This is because many artists carry on their artwork even though they don't get paid.



No matter how cold and hungry I feel, I can keep my spirit as an artist.

But scientists hardly carry on their research without financial support.



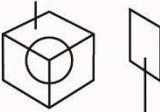
Without a lab and a fund, I cannot keep my spirit as a scientist.

Episode 427: Comic strips in science museum

I found a problem and a solution at a science museum.

Science museum

Exhibit



Text explaining the exhibit's scientific principle

Only a few number of people read the text beside the exhibit since it is difficult and boring.



Science museum must be easy and funny.

I solved an exponential equation question.

$$y = \ln(x/m-as)/r^2$$

$r^2y = \ln(x/m-as)$ I multiplied r^2 to the both terms of equation.

$e^{r^2y} = x/m-as$ I changed 'natural log' into 'exponent.'

$me^{r^2y} = x-mas$ I multiplied m to the both terms of equation.

$me^{r^2y} = x-mas$ I paraphrased r^2 .

The solution would be to put a comic strip beside the exhibit with the permission of the museum.



'Dr. Scifun' related to the exhibit

This is one way of making a science museum into a playground.



People who like the joke of comic strip might want to read the existing text.

Merry X-mas!



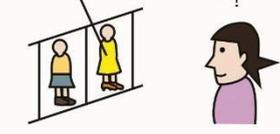
The purpose of solving this equation is to celebrate Christmas instead of finding the value of x .

You can acknowledge the joke of this cartoon if you can tell the difference between natural logarithm (\ln) and common logarithm (\log).

Episode 429: Main street = Academic conference

A main street and an academic conference are same.

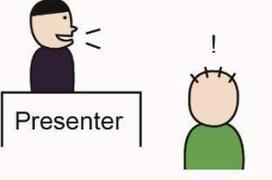
Clothes in trend



Main street is a place to see what is in trend.

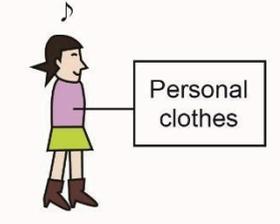
Research in trend

Presenter



Academic conference is also a place to see what is in trend.

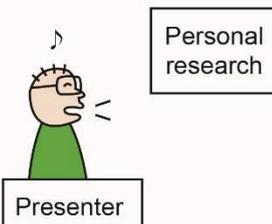
Personal clothes



Simultaneously, main street is a place to show off one's own clothes.

Personal research

Presenter

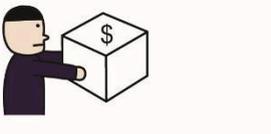


Academic conference is also a place to show off one's own research.

Episode 430: Men's and women's buying patterns

Men and women have different buying patterns.

Necessary

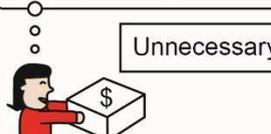


Men buy essential things at a high cost.

Women buy inessential things at a low cost.

I eventually pay less after looking around stores and bargaining prices.

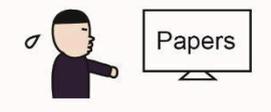
Unnecessary



Applying this phenomenon to science...

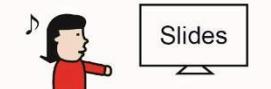
Male scientists write (essential) papers strenuously.

Papers



Female scientists make (inessential) slides easily.

Slides



This application doesn't make sense. There wouldn't be a sexual difference when scientists write papers and make slides.



Unlike buying things.

Episode 431: Demoralizing audience

Some scientists demoralize the audience during their presentations.

Conference

Demoralizing the audience is one way of refraining them from asking tough questions.

Chemists demoralize by showing chemical formulas,

$$\text{NaCl (aq)} + \text{AgNO}_3 \text{ (aq)} \rightarrow \text{AgCl (s)} \downarrow + \text{NaNO}_3 \text{ (aq)}$$

Studying such difficult science, he is a genius.

Four cases happen in the lab.

Good job.

First, when student can do what professor can do, professor will compliment student.

Second, when student can do what professor cannot do, professor will not compliment student.

I don't know how well she did.

Mathematicians do so by showing math formulas,

Math formula

Flow chart

Computer engineers do so by showing flow charts.

Scientists can demoralize audiences regardless of their fields of study.

Confusing words

Just speak illogically.

The comics are totally not true. Never demoralize.

Third, when student cannot do what professor can do, professor will scold student.

Why can't you do it?

Fourth, when student cannot do what professor cannot do, professor will not scold student.

I don't know how well she did not.

Episode 433: Conference presentation matters.

I said to my graduate student to give a good presentation.

Conference

You should present better than others and also answer questions well.

Does a presentation matter?

Article

Of course, good presentation increases the chance for our related academic article to be accepted by the journal.

I teach how to write materials & methods (M & M) in an article.

M & M

Write them as precisely as you can to let other scientists conduct their research identically.

But when your M & M are the same with those of other's paper,

M & M — Citation

write it concisely as citing the paper.

Also, it makes our related research proposal be accepted.

Fund proposal

The judges who assess article and proposal remember what they heard at the conference.

Will they remember a student like me?

At least, they'll remember the affiliated university and the advisor professor. I tell you this since it matters to me.

It may look like idle research if the M & M are concise.

A graduate student worrying about everything

Does it look idle when I play the bass (4 strings), not the guitar (6 strings)?

Don't worry about it, and just write concisely.

Episode 434: Writing materials & methods

Episode 435: 1st and 2nd floors beside roads

I saw a building being constructed like so:

Customer 2nd floor

1st floor Customer

Both stores at each floors will obtain customers because they both are right next to the roads.

The building utilized the lay of the land well.

One asked me to meet on 'Friday of the first week' every month.

There's no Friday of the first week in some months. Then when should we meet?

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15

Saturday of the first week exists in every month, though.

I wish the students with same major as me as well as those with different majors from me

Medicine Anatomy 3D image

Computer science

to come to my lab, I could then use my two-folded research methods (anatomy, 3-dimensional image).

Just like the building.

You'd better not use this kind of complicated expression.

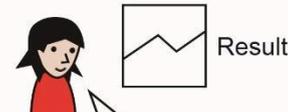
How about having a meeting on 'the first Friday' in every month?

This is because every month contains 'the first Friday.'

Arranging appointments should also be scientific.

Episode 437: No exclamation mark

One graduate student wanted to make her paper touching.



I got touched by the results of my research, so I am going to write a touching paper.

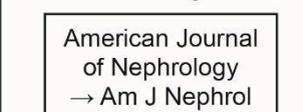
A touching paper cannot touch readers.

Paper

Adversely, a paper written in a calm way can touch readers.

I searched for the abbreviations of the country names in the academic journals.

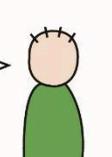
American Journal of Nephrology → Am J Nephrol



American is abbreviated into Am.

English → Engl
Canadian → Can
Chinese → Chin
Japanese → Jpn

Other countries' names are also abbreviated.



It can be applied to other fields.

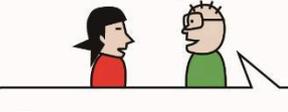
Literary works, art works



People can be touched by tranquil works.

Cartoons also should be drawn in a quietude way.

Cartoon Paper



There is no exclamation mark (!) in an academic paper.

But Korean is not abbreviated.

J Korean Med Sci



They might not know Kor is the abbreviation of Korean. They think little of Korea.

The journal of American Association of Clinical Anatomists: Clin Anat



Haughty Americans don't even use Am like they don't use '.am' in homepage addresses.

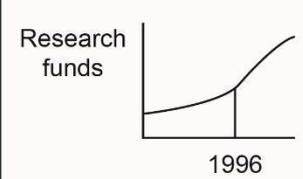
Episode 439: Reading papers according to age

Which parts of the papers I read according to age?				
	Au-thors	Ab-stract	Body	Reason
Bachelor course	X	X	X	Don't understand contents and aren't interested in it.
Master course	O	X	X	Don't understand contents, but am interested in it.
Doctor course	O	O	X	Understand contents, but am too busy to read deliberately.
Postdoc course	O	O	O	Have to read all contents deliberately for employment.
Assistant professor	O	O	X	Understand contents, but am too busy to read deliberately.
Associate professor	O	X	X	Don't understand contents, but am interested in it.
Full professor	X	X	X	Don't understand contents and aren't interested in it.

Episode 440: Fortunate era

I was in a fortunate era.

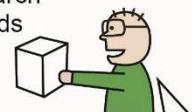
Research funds



I commenced my own research when I got a Ph.D in 1996.

At that time, research funds had been increased significantly in Korea, so I got funds easily.

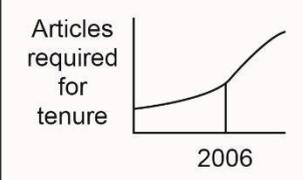
Large research funds



But by senior scientists had a hard time.

I was at an age to get a tenure in 2006.

Articles required for tenure



At that time, its standard was not that harsh.

Thanks to this, I got my tenure easily.

Lucky than good

Few articles



But my junior scientists had a hard time.

Episode 441: The Trinity

I decided on what I want to do after my retirement. First, writing a science book for the average person.

Earning royalties.

Second, starring in media with help of my books.

TV Magazine

Earning guarantees and wages for a manuscript.

I went to a concert hall and a gallery.

Concert hall Gallery

I may listen to the music carefully, and appreciate the art works carefully.

Also I may listen and appreciate carelessly by thinking about other things (so to speak, old memories).

It is one way of enjoying the music and art.

Third, giving lectures thanks to the exposure by the media.

Earning wages for a lecture

I can get both fruitfulness and money.

The book, media, and lecture are interlinked like the Trinity.

Just as a singer makes music, stars on TV, does performances, all of which are interlinked.

I also went to an academic conference.

Oral Poster

I may listen to the talk carefully and see the poster carefully.

Also I may listen and see carelessly by thinking about other things (so to speak, future researches).

It is one way of enjoying the talk and poster.

Episode 443: Commending senior scientist

I know lots of comments commending the senior scientist.

Since you achieved many great accomplishments,

now you can enjoy the rest of your life.

I will just follow in your footsteps.

Even though our research fields are different, I can imitate your attitude.

I will make an academic prize in your name.

Dr. Kim prize

I will give it to one of scientists or graduate students who greatly contributes to my research.

I will also erect a commemorative monument for you.

Dr. Kim

It will be erected in a website, though.

