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Funding & Disclosures

Funding sources

- National Institutes of Health (NIH), Grant Number XYZ12345
- National Science Foundation (NSF), Grant Number ABC67890

Conflict of interest

- Dr. Jane Smith holds a patent related to the research presented
- Dr. John Doe is a consultant for XYZ Pharmaceutical Company
- No other conflicts of interest to declare

Ethical approvals

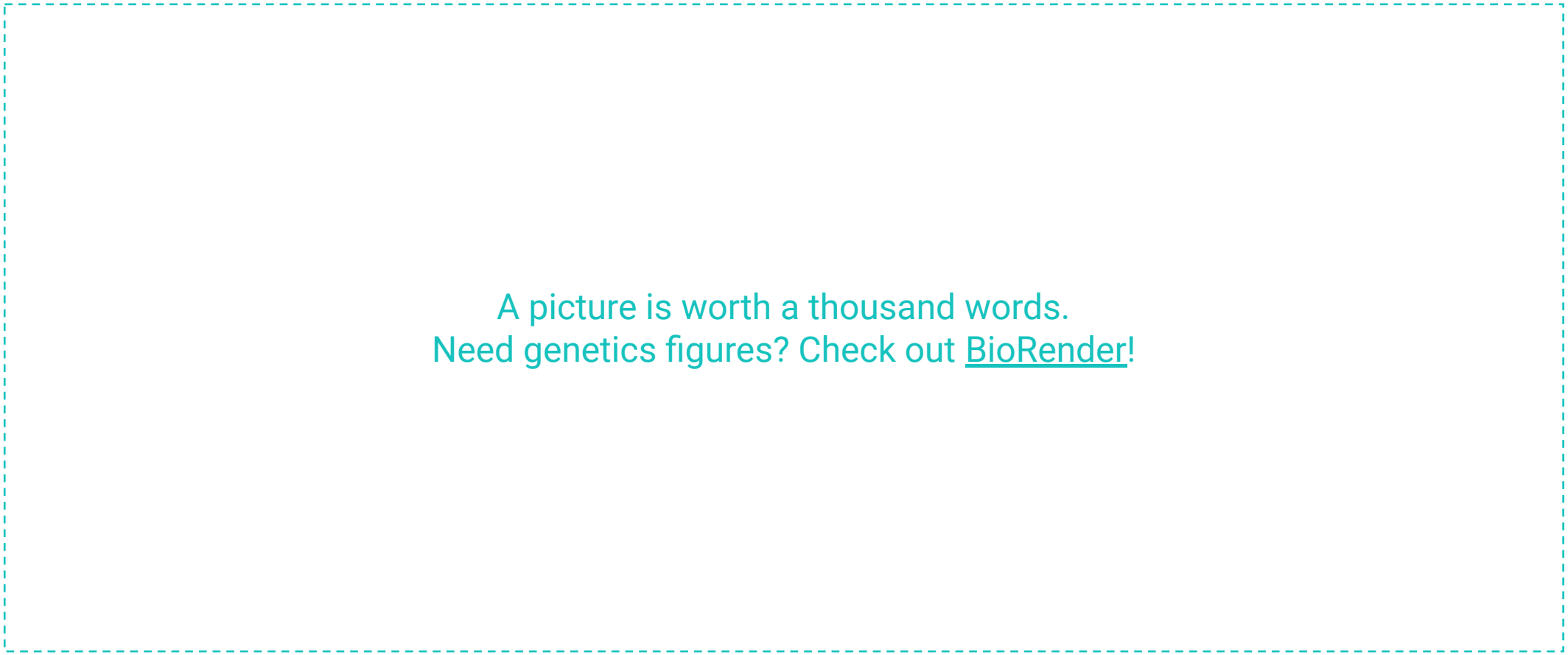
- Human studies approved by ABC University IRB, Protocol Number 2024-XYZ
- Animal studies approved by ABC University IACUC, Protocol Number 2024-ABC

Introduction

- Provide your audience enough background information for them to understand the existing knowledge and the importance of the project
- **Tip:** Use less words and more visuals
- **Tip:** If you find yourself having more than 3 bullet points, split the information into multiple slides to avoid too much clutter on one slide

Use the Resource section to swap this figure

I Research Background



Provide a brief description of the figure here

Knowledge Gap

- Highlight the existing gaps in the current state of knowledge that the research aims to address
- Explain why these gaps are important and what implications they have for your field of study
- **Tip:** **Highlight** or **bold** keywords to emphasize your point. Use highlight sparingly

Questions

1. A question you'd like to explore in your project based on the gaps identified
2. A question you'd like to explore in your project based on the gaps identified
3. A question you'd like to explore in your project based on the gaps identified

Hypothesis 1

We hypothesize that [independent variable] will [expected effect] on [dependent variable] in [specific population or condition].

Hypothesis 2

We hypothesize that [independent variable] will [expected effect] on [dependent variable] in [specific population or condition].

Research Objectives

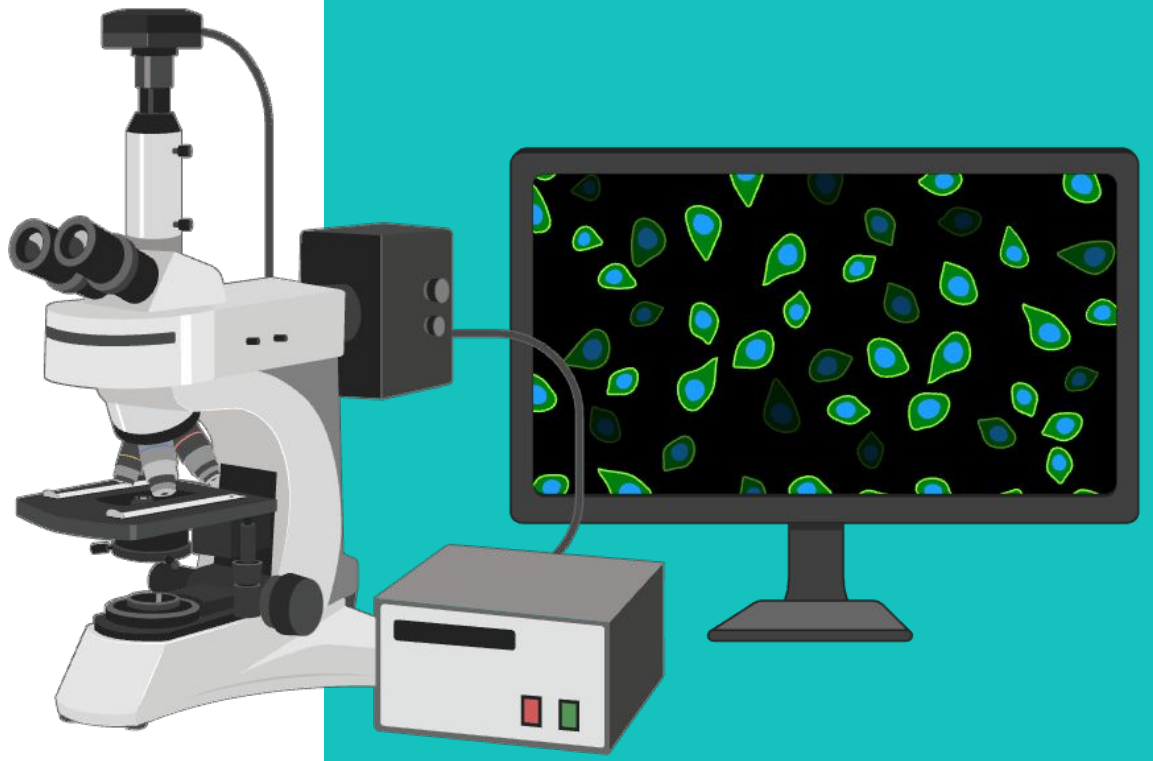
I Research objective 1. For example, “To identify and characterize the genetic variants associated with diabetes through genome-wide association studies (GWAS).” **Tip:** **Highlight** or **bold** keywords to emphasize your point.

II Research objective 2. For example, “To identify and characterize the genetic variants associated with diabetes through genome-wide association studies (GWAS).”

Research Methodology

Provide a brief overview of your research approach or the goal of the methodology.

- Overview of your experimental design
- **Tip:** Create visual protocols and/or timeline to demonstrate your methodology using BioRender



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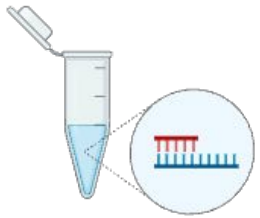
Experiment Timeline

1 2 3 4

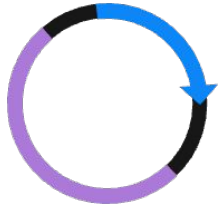
Step 1 title

Detail the key actions or events that occur during this step



Step 2 title

Detail the key actions or events that occur during this step



Step 3 title

Detail the key actions or events that occur during this step

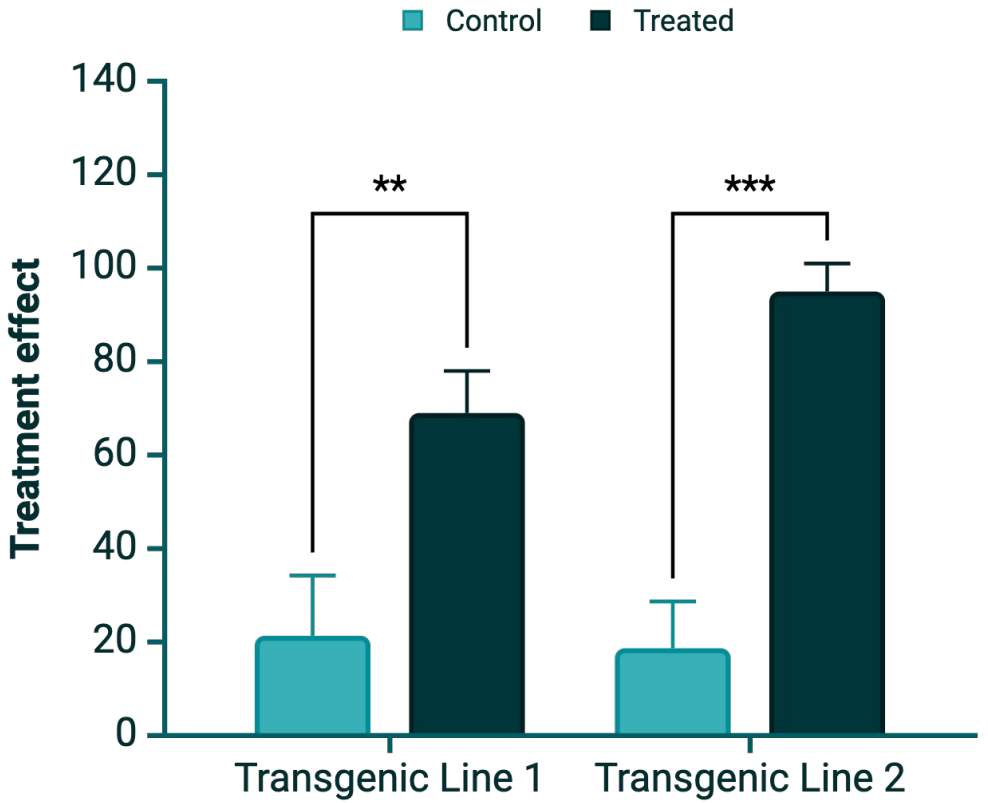
Step 4 title

Detail the key actions or events that occur during this step

Use the Resource section to swap the figures

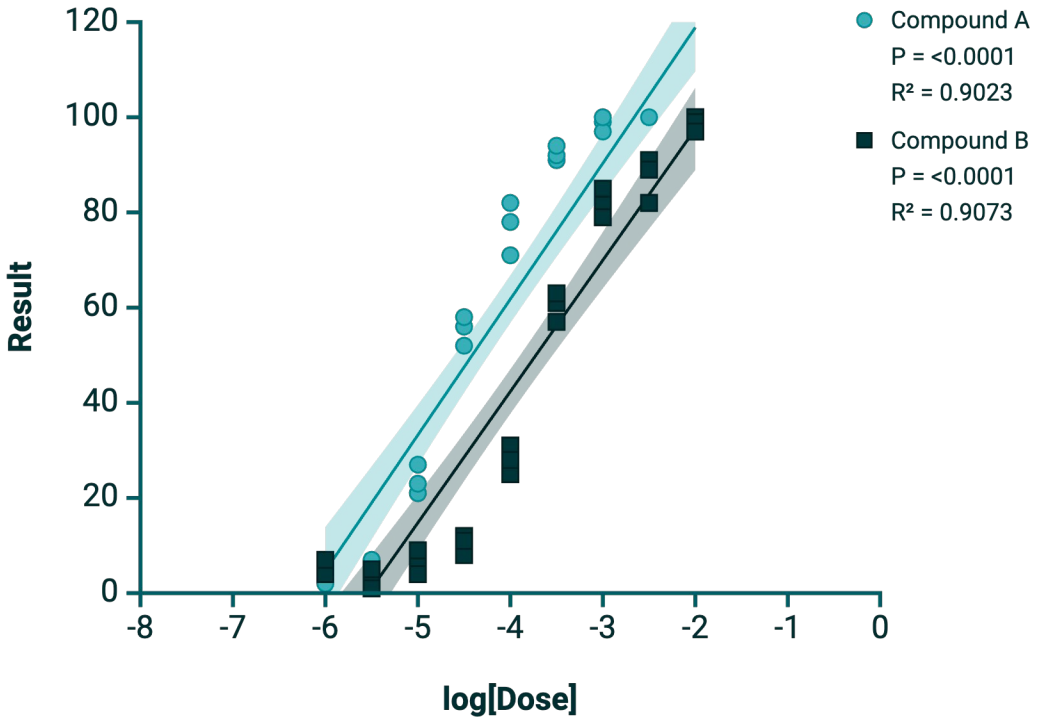
Detailed Result 1 (for example, “RNA Sequencing Results Revealed Upregulation of *ABC1* Gene”)

- Provide a brief explanation of your interpretation of the data
- Use less words and more visuals
- **Tip:** Ensure each slide focuses on one key result or set of related results to avoid overcrowding
- **Tip:** Create clear, beautiful visualizations of your research data with BioRender



Detailed Result 2 (for example, “Effects of Compound A & Compound B on *ABC1* expression”)

- Provide a brief explanation of your interpretation of the data
- Use less words and more visuals
- **Tip:** Ensure each slide focuses on one key result or set of related results to avoid overcrowding
- **Tip:** Create clear, beautiful visualizations of your research data with BioRender



Summary of Results

I Key result 1. For example, “Genome-wide association studies (GWAS) revealed 12 novel loci significantly associated with type 2 diabetes (T2D).” **Tip:** **Highlight** keywords or phrases to emphasize your point.

II Key result 2. For example, “Genome-wide association studies (GWAS) revealed 12 novel loci significantly associated with type 2 diabetes (T2D).”

III Key result 3. For example, “Genome-wide association studies (GWAS) revealed 12 novel loci significantly associated with type 2 diabetes (T2D).”

Discussion

- Discuss the broader implications of your findings. Consider how they contribute to the field, influence future research, or impact clinical practice or policy
- List the limitations of your study. Discuss any factors that might affect the validity or generalizability of your results
- **Tip:** If you find yourself having more than 3 bullet points, split the information into multiple slides to avoid too much clutter on one slide
- **Tip:** In a list of bullets, the first and last bullets get read the most, so prioritize your content accordingly

Remaining Questions

- List any questions that remain unanswered in your research
- List any questions that remain unanswered in your research
- List any questions that remain unanswered in your research

Next Steps

- What you'd like to do next to address the remaining questions
- What you'd like to do next to address the remaining questions
- What you'd like to do next to address the remaining questions

References

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8. Author, A. A., Author, B. B., & Author, C. C. (Year). Title of the article. Title of the Journal, volume number(issue number), page range. https://doi.org/xx.xxx/yyyy

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Insert a picture of your awesome team!

Supplementary Resources

In the next slides, you will find graphic resources to help you effectively communicate your research

Resource: Genetics Icons

Use these resources to level up your presentation

DNA

Double-stranded break

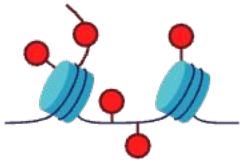
Point mutation

Genome editing

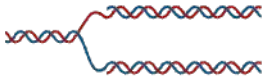
Chromosome

Chromosome with telomeres

Nucleosomes



Epigenetic modifications



DNA replication fork

Ribosome

RNA

Protein

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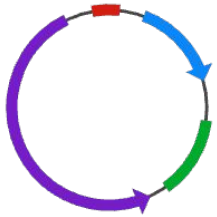
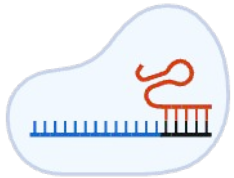
Resource: Lab and Experiment Icons

Use these resources to level up your presentation

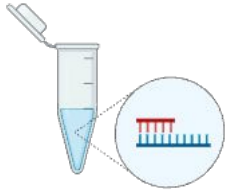


Plasmid

GFP



CRISPR/Cas9



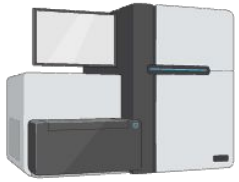
Eppendorf tube with DNA

PCR tube strip

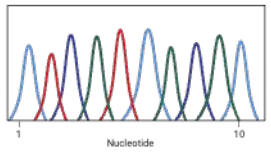
PCR machine

384 well plate

Thermal cycler

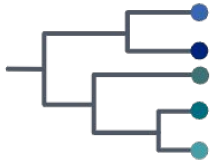


Sequencer



DNA sequencing graph

Human genome



Phylogenetic tree

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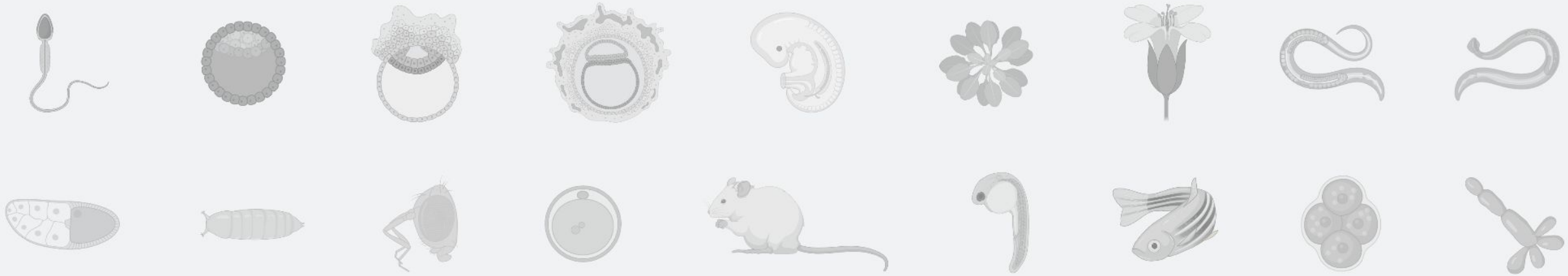

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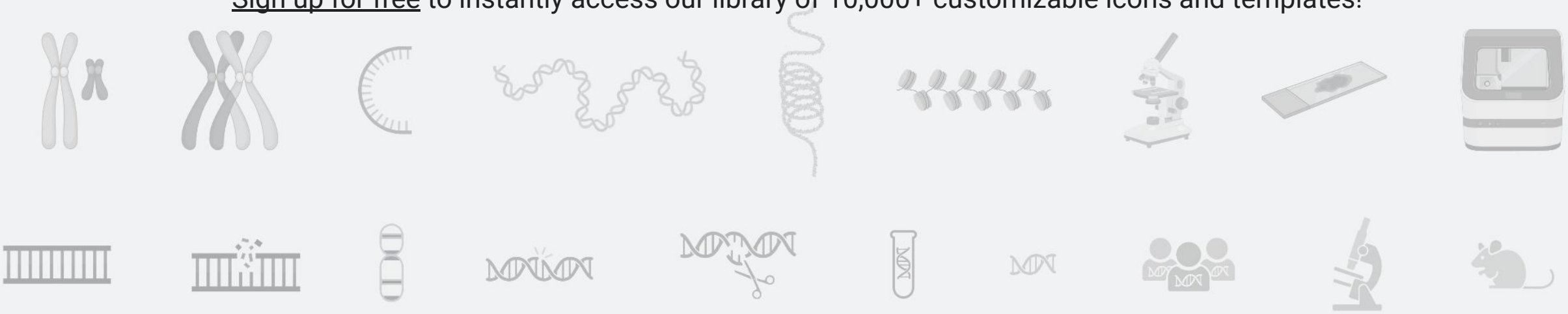

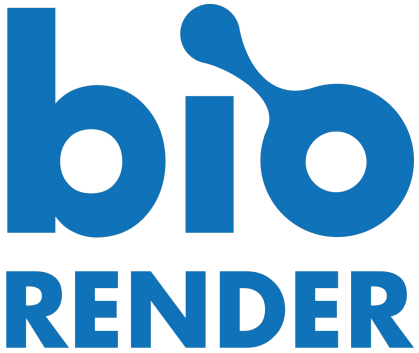

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