

CURRICULUM VITAE

Name: Lily Yeh Jan
Current Title: Jack and DeLoris Lange Professor of Physiology and Biophysics
Investigator, Howard Hughes Medical Institute
Department: Department of Physiology
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Education:

B.Sc. in Physics	1968	National Taiwan University
M.Sc. in Physics	1970	California Institute of Technology
Ph.D. in Biophysics and Physics	1974	California Institute of Technology
Postdoctoral Research Fellow	1974-1977	California Institute of Technology Dr. Seymour Benzer
Postdoctoral Research Fellow	1977-1979	Department of Neurobiology Harvard Medical School Dr. Steve W. Kuffler

Teaching and Research Appointments:

1979-1983 Assistant Professor of Physiology, University of California, San Francisco
1983-1985 Associate Professor of Physiology and Biochemistry, UCSF
1984-present Investigator, Howard Hughes Medical Institute
1985-present Professor of Physiology and Biochemistry, UCSF
1999-present Jack and DeLoris Lange Endowed Chair in Physiology and Biophysics, UCSF

Honors:

Established Investigator of the American Heart Association	1977-1982
Alfred P. Sloan Research Fellowship	1977-1979
Klingenstein Fellowship	1983-1986
*W. Alden Spencer Award, Columbia University	1988
National Institute of Neurological and Communicative Disorders and Stroke Javits Neuroscience Investigator Award	1988-2001
*38 th Faculty Lecturer at University of California, San Francisco	1995
Member, National Academy of Sciences	1996-present
*Karolinska Research Lecture, Nobel Forum, Stockholm, Sweden	1997
Member, Academia Sinica	1998-present
*Harvey Lecture	1998
*Stephen W. Kuffler Lecture, Harvard Medical School	1999
*K.S. Cole Award, Biophysical Society	2004
NIH Margaret Pittman Lecture	2004
*Distinguished Alumni Award, California Institute of Technology	2006
NIMH MERIT Award	2006-2015

*2006 SCBA Presidential Award	2006
*Jan Lab Symposia	2006
*Outstanding Mentorship Award, from the Postdoctoral Scholar's Association of UCSF	2007
Member, American Academy of Arts and Sciences	2007-present
*Ralph W. Gerard Prize, Society for Neuroscience	2009
*Edward M. Scolnick Prize in Neuroscience	2010
*Albert and Ellen Grass Lecture, Society for Neuroscience	2010
*Zach Hall Lecture, USC Zilkha Neurogenetic Institute	2010
*Wiley Prize in Biomedical Research	2011
*Cho Hao Li Memorial Lecture, Academia Sinica (Taiwan)	2012
*Distinguished Alumni Award, Department of Physics, National Taiwan University	2012
*Gruber Prize in Neuroscience	2012
*F.M. Kirby Visiting Professor, Kirby Center, Children's Hospital, Harvard Medical School	2015
*Jan Lab Symposia	2016
*Vilcek Prize in Biomedical Science	2017
Lim Lecture, University of Iowa	2019
*C. Ladd Prosser Memorial Lecture, University of Illinois, Urbana-Champaign	2019
*Perl-UNC Neuroscience Prize	2020
*Stephen W. Kuffler Lectures, UCSD (*together with Yuh Nung Jan)	2022

Membership:

American Society for Cell Biology
Biophysical Society
Genetics Society of America
Society for General Physiologists
Society for Neuroscience
Society of Chinese Bioscientists in America (SCBA)

Professional Service:

Instructor, Cold Spring Harbor Summer Course "Neurobiology of *Drosophila*", 1984-1987.
Sloan Fellowship Selection Committee, 1989-1994.
Scholar In Residence, Woods Hole Summer Course "Neurobiology", 1989.
NIMH IRP Board of Scientific Counselors, 1995-2001.
National Institute of Mental Health Intramural Research Program Planning Committee, 1996.
Editor: co-editor with Zach Hall, Lou Reichardt and Roger Nicoll, *Neuron* 1991-1994.
Co-editor, with Yuh Nung Jan, for half of an issue of *Current Opinion in Cell Biology*, 1994, 1996.
Editorial Board: *Neuron*, 1994-2019.
Editorial Board: *PNAS*, 1996-2001.
Co-organizer with Morgan Sheng and Rick Huganir for the 2004 and 2006 Cold Spring Harbor meeting on "Channels, Receptors, Synapses."
Gruber Neuroscience Prize Advisory Board, 2004-2006.
Editorial Board: *Science Signaling*, 2008-2015.

Editorial Panel (Neuroscience) for Editorial Board reviews of challenge grants, July 2009.
 Biology and Medicine Panel of the Research Grants Council of Hong Kong, 2009-2011.
 Victor Chang Cardiac Research Institute Scientific Advisory Board, 2010.
 Julius Axelrod Prize Committee, 2009-2012.
 Kavli Prize Committee in Neuroscience, 2011-2014.
 National Academy of Sciences Award in Molecular Biology selection committee, 2012.
 Klingenstein-Simons Neuroscience Advisory Committee, 2013-present.
 UCSF Physician Scientist Scholar Program Steering Committee, 2013-present.
 Scientific Advisory Board of the Institute of Neuroscience (ION), Chinese Academy of Science in Shanghai, 2013-2019.
 UCSF Weill Institute for Neurosciences Steering Committee, 2016-present.
 Committee for Interview and Selection of International Research Scholars in non-G7 countries for research support by HHMI/Wellcome Trust/Gates Foundation/Calouste Gulbenkian Foundation, 2017.
 National Academy of Sciences Temporary Nominating Group. 2017-2021.
 Vilcek Price in Biomedical Science Selection Committee. 2018, 2020.
 Biohub Selection Advisory Committee for Intercampus Research Awards, 2018, 2021.
 Pradel Research Award Selection Committee, 2019-2021.
 Neuroscience Faculty for Faculty Opinions on Neuronal Signaling Mechanism, 2019-present.
 UCSF Weill Women in Neuroscience Committee, 2019-present.

Mentoring: Yuh Nung Jan and I have mentored many students and postdoctoral fellows together at UCSF. The following are the ones for whom I am the primary mentor:

Former Graduate Students:

Constance Royden (Professor, College of the Holy Cross)
 George Lopez (Attending Physician, Swedish Neuroscience Institute, Seattle)
 Joyce Liao (Associate Professor and Director of Neuro-Ophthalmology, Stanford University)
 Huaihu Chuang (Principal Investigator, Academia Sinica, Taiwan, deceased)
 Noa Zerangue (Research Director, XenoPort)
 Patrick Haddick (Scientist, Denali Therapeutics, deceased)
 Friederike Haass (Head of Evaluation and Care Design, IGES Institut GmbH, Germany)
 Alex Yi (Executive Medical Director, Anthos Therapeutics)
 Toral Surti (Associate Professor of Psychiatry, Yale University)
 Alex Fay (Associate Professor of Neurology, UCSF)
 Cindy Huang (Application Support Manager, Roche Diagnostic)
 Helen Lai (Associate Professor, University of Texas Southwestern Medical Center)
 Michelle Lent (Senior Hydro Scheduler, PG&E)
 David Young (Fellow, Pediatric Neurology, UCSF)
 Wendy Huang (Hospitalist, Department of Medicine, UCLA)
 Xiu Ming Wong (Research Associate, UCSF)
 Jason Tien (Principal Scientist, GPCR Therapeutics)
 Lynn Wang (Medical Student, University of Minnesota Medical School)
 Mario Zubia (Postdoc, UCSF)
 Yuan-Hung Lin King (Postdoc, UCSF)

Former Postdoctoral Fellows:

Bruce Tempel (Professor, University of Washington at Seattle, deceased)

Tom Schwarz (Professor, Harvard Medical School)
 Diane Papazian (Professor, UCLA School of Medicine)
 Leslie Timpe (Lecturer, San Francisco State University)
 Bill Kimmerly (Founder and Master Brewer, Moultrie Brewing Company)
 Ehud Isacoff (Professor, UC Berkeley)
 Yoshihiro Kubo (Professor, National Institute for Physiological Sciences in Japan)
 Min Li (Founder and CEO, SciNeuro Pharmaceuticals, Rockville, Maryland)
 Meei-Ling Tsaor (Professor, National Yang-Ming University in Taiwan)
 Morgan Sheng (Professor, Co-Director of Stanley Center for Psychiatric Research, MIT Broad Institute)
 Chou-Long Huang (Professor and Director, Division of Nephrology and Hypertension, University of Iowa)
 Andy Tinker (Professor and Chair of Cardiac Electrophysiology, William Harvey Heart Centre, Queen Mary University of London)
 Jian Yang (Professor, Columbia University)
 Eitan Reuveny (Professor, Weizmann Institute)
 Paul Slesinger (Professor and Director, Center for Neurotechnology and Behavior, Mount Sinai School of Medicine)
 Tony Collins (Associate Professor, Saba University School of Medicine)
 Dan Minor (Professor, CVRI, UCSF)
 Blanche Schwappach-Pignataro (Professor and Dean, University Medical Center Hamburg-Eppendorf)
 Ed Cooper (Associate Professor, Baylor College of Medicine)
 Dzwokai Zach Ma (Associate Professor, UC Santa Barbara)
 Bruce Cohen (Staff Scientist, Lawrence Berkeley National Laboratory)
 Robin Shaw (Professor and Director of the Nora Eccles Harrison CVRTI, University of Utah)
 Keli Hu (Associate Professor, Ohio State University)
 Chen Gu (Associate Professor, Ohio State University)
 Ofer Wiser (Senior Scientist, Cell Cure Neurosciences Ltd., Israel)
 Delphine Bichet (Researcher, CNRS-IPMC, University of Nice Sophia Antipolis, France)
 Michael Grabe (Professor, CVRI, UCSF)
 Yuichi Someya (Chief, Depart of Virology II, National Institute of Infectious Diseases, Japan)
 Marta Margeta (Professor and Associate Director of Neuropathology, UCSF)
 Yu-Fung Lin (Associate Professor, UC Davis)
 Kimberly Raab-Graham (Professor, Wake Forest University School of Medicine)
 Björn Schroeder (Research Group Leader, Max Delbrück Center for Molecular Medicine)
 Hee Jung Chung (Professor, University of Illinois, Urbana-Champaign)
 Woo-Ping Ge (Associate Investigator, Chinese Institute for Brain Research in Beijing)
 Xiang Qian (Clinical Associate Professor of Anesthesiology, Stanford University Medical Center)
 Wei Zhou (Assistant Professor of Anesthesiology, UCSF)
 Jim Berg (Director of Scientific Operations, Allen Institute for Brain Science)
 Taihao Jin (Senior Data Analytics Engineer, Abbott Diabetes Care Division, Alameda)
 Shaohua Xiao (Biomarker Biostatistician, Denali Therapeutics)
 Fen Huang (Director, Clinical Biomarkers, Denali Therapeutics)
 Desiree Thayer (Associate Director, Biology, Atomwise)
 Xi Huang (Associate Professor, University of Toronto and the Hospital for Sick Children)
 Huanghe Yang (Associate Professor, Duke University)

Andrew Kim (Scientist, Escient Pharmaceuticals)
 Shi-Bing Yang (Associate Research Fellow, Institute of Biomedical Sciences, Academia Sinica)
 Hye Young Lee (Assistant Professor, University of Texas at San Antonio)
 Sarah Headland (Scientist, Alector)
 Christian Peters (Assistant Professor, University of Illinois, Chicago)
 John Gilchrist (Senior Scientist, Latigo Therapeutics)
 Tongfei Alex Wang (Assistant Investigator, Chinese Institute for Brain Research in Beijing)
 Mu He (Assistant Professor, University of Hong Kong)
 Tina Han (Senior Scientist, Dewpoint Therapeutics, Boston)
 David Crottes (SE STUDIUM Research Fellow, Universite de Tours, France)
 Wenlei Ye (Scientist, Neurocrine Biosciences, San Diego)
 Shengjie Feng (Assistant Professor, Sanford Burnham Prebys Medical Discovery Institute)

Publications (h-index, 180; cited over 92,000 times):

Primary publications in refereed journals

1. Jan, L.Y., and Revel, J.P. (1974). Ultrastructural localization of rhodopsin in the vertebrate retina. *J. Cell Biol.* 62:257-273. PMCID: PMC2109407.
2. Jan, L.Y., and Revel, J.P. (1975). Hemocyanin-antibody labeling of rhodopsin in mouse retina for a scanning electron microscope study. *J. Supramol. Structure* 3:61-66.
3. Jan, L.Y., and Jan, Y.N. (1976). Properties of the larval neuromuscular junction in *Drosophila melanogaster*. *J. Physiol.* 262:189-214. PMCID: PMC1307637.
4. Jan, L.Y., and Jan, Y.N. (1976). L-glutamate as an excitatory transmitter at *Drosophila* larval neuromuscular junction. *J. Physiol.* 262:215-236. PMCID: PMC1307638.
5. Jan, Y.N., Jan, L.Y., and Dennis, M.J. (1977). Two mutations of synaptic transmission in *Drosophila*. *Proc. Roy. Soc. Lond. B* 198:87-108. PMID: 20636.
6. Jan, Y.N., and Jan, L.Y. (1978). Genetic dissection of short-term and long-term facilitation at the *Drosophila* neuromuscular junction. *Proc. Natl. Acad. Sci. USA* 75:515-519. PMCID: PMC411281.
7. Wu, C.F., Ganetzky, B., Jan, L.Y., Jan, Y.N., and Benzer, S. (1978). A *Drosophila* mutant with a temperature-sensitive block in nerve conduction. *Proc. Natl. Acad. Sci. USA* 75:4047-4051. PMCID: PMC392928.
8. Heuser, J.E., Reese, T.S., Dennis, M.J., Jan, Y.N., Jan, L.Y., and Evans, L. (1979). Synaptic vesicle exocytosis captured by quick freezing and correlated with quantal transmitter release. *J. Cell Biol.* 81:275-300. PMCID: PMC2110310.
9. Jan, Y.N., Jan, L.Y., and Kuffler, S.W. (1979). A peptide as a possible transmitter in sympathetic ganglia of the frog. *Proc. Natl. Acad. Sci. USA* 76:1501-1505. PMCID: PMC3383282.
10. Jan, Y.N., Jan, L.Y., and Kuffler, S.W. (1980). Further evidence for peptidergic transmission in sympathetic ganglia. *Proc. Natl. Acad. Sci. USA* 77:5008-5012. PMCID: PMC349979.
11. Jan, L.Y., Jan, Y.N., and Brownfield, M.S. (1980). Peptidergic transmitters in synaptic boutons of sympathetic ganglia. *Nature* 288:380-382. PMID: 6107864.
12. Jan, L.Y., and Jan, Y.N. (1982). Peptidergic transmission in sympathetic ganglia of the frog. *J. Physiol.* 327:219-246. PMCID: PMC1225105.
13. Jan, L.Y., and Jan, Y.N. (1982). Antibodies to horseradish peroxidase as a neuronal marker in *Drosophila* and in grasshopper embryos. *Proc. Natl. Acad. Sci. USA* 79:2700-2704. PMCID: PMC346269.
14. Ghysen, A., Dambly-Chaudiere, C., Jan, L.Y., and Jan, Y.N. (1982). Segmental differences in the protein content of *Drosophila* imaginal discs. *EMBO J.* 1:1373-1379. PMID:

- 16453437.
15. Jan, Y.N., Ghysen, A., Christoph, I., Barbel, S., and Jan, L.Y. (1985). Formation of neuronal pathways in the imaginal discs of *Drosophila melanogaster*. *J. Neurosci.* 5:2453-2464. PMID: 3928832.
 16. Ghysen, A., Jan, L.Y., and Jan, Y.N. (1985). Segmental determination in *Drosophila* central nervous system. *Cell* 40:943-948. PMID: 3886161.
 17. Dambly-Chaudiere, C., Ghysen, A., Jan, Y.N., and Jan, L.Y. (1986). Muscle connections between imaginal discs in *Drosophila*. *Dev. Biol.* 113:288-294. PMID: 3081389.
 18. Ghysen, A., Dambly-Chaudiere, C., Aceves, E., Jan, L.Y., and Jan, Y.N. (1986). Sensory neurons and peripheral pathways in *Drosophila* embryos. *Roux's Arch. Dev. Biol.* 195:281-289.
 19. Bowers, C., Jan, L.Y., and Jan, Y.N. (1986). A substance P-like peptide in bullfrog autonomic nerve terminals-Anatomy, biochemistry and physiology. *Neuroscience* 19:343-356. PMID: 2431351.
 20. Royden, C.S., Pirrotta, V., and Jan, L.Y. (1987). The *tks* locus, site of a behavioral mutation in *D. melanogaster*, codes for a protein homologous to prokaryotic ribosomal protein S12. *Cell* 51:165-173. PMID: 3117373.
 21. Bodmer, R., Barbel, S., Shepherd, S., Jack, J.W., Jan, L.Y., and Jan, Y.N. (1987). Transformation of sensory organs by mutations of the *cut* locus of *Drosophila melanogaster*. *Cell* 51:293-307. PMID: 3117374.
 22. Bowers, C.W., Phillips, H.S., Lee, P., Jan, Y.N., and Jan, L.Y. (1987). Identification and purification of an irreversible presynaptic neurotoxin from the venom of the spider *Hololena curta*. *Proc. Natl. Acad. Sci. USA* 84:3506-3510. PMID: 304900.
 23. Branton, D., Kolton, L., Jan, Y.N., and Jan, L.Y. (1987). Neurotoxins from *Plectreurys* spider venom are potent presynaptic blockers in *Drosophila*. *J. Neurosci.* 7:4195-4200. PMID: 2826721.
 24. Papazian, D.M., Schwarz, T.L., Tempel, B.L., Jan, Y.N., and Jan, L.Y. (1987). Cloning of genomic and complementary DNA from *Shaker*, a putative potassium channel gene from *Drosophila*. *Science* 237:749-753. PMID: 2441470.
 25. Tempel, B.L., Papazian, D.M., Schwarz, T.L., Jan, Y.N., and Jan, L.Y. (1987). Sequence of a probable K⁺ channel component in *Drosophila* deduced from *Shaker* cDNA. *Science* 237:770-775. PMID: 2441471.
 26. Timpe, L.C., and Jan, L.Y. (1987). Gene dosage and complementation analysis of the *Shaker* locus in *Drosophila*. *J. Neurosci.* 7:1307-1317. PMID: 2437260.
 27. Schwarz, T.L., Tempel, B.L., Papazian, D.M., Jan, Y.N., and Jan, L.Y. (1988). Multiple potassium channel components are produced by alternative splicing at the *Shaker* locus in *Drosophila*. *Nature* 331:137-142. PMID: 2448635.
 28. Timpe, L.C., Schwarz, T.L., Tempel, B.L., Papazian, D.M., Jan, Y.N., and Jan, L.Y. (1988). Expression of functional potassium channels from *Shaker* cDNA in *Xenopus* oocytes. *Nature* 331:143-145. PMID: 2448636.
 29. Tempel, B.L., Jan, Y.N., and Jan, L.Y. (1988). Cloning of a probable potassium channel from mouse brain. *Nature* 332:837-839. PMID: 2451788.
 30. Timpe, L.C., Jan, Y.N., and Jan, L.Y. (1988). Four cDNA clones from the *Shaker* locus of *Drosophila* induce kinetically distinct A-type potassium currents in *Xenopus* oocytes. *Neuron* 1:659-667. PMID: 3272184.
 31. Blochlinger, K.B., Bodmer, R., Jack, J., Jan, L.Y., and Jan, Y.N. (1988). Primary structure and expression of a product from *cut*, a locus involved in specifying sensory organ identity in *Drosophila*. *Nature* 333:629-635. PMID: 2897632.

32. Caudy, M., Grell, E., Dambly-Chaudiere, C., Ghysen, A., Jan, L.Y., and Jan, Y.N. (1988). The maternal sex determination gene *daughterless* has zygotic activity necessary for the formation of peripheral neurons in *Drosophila*. *Genes Dev.* 2:843-852. PMID: 32009070.
33. Hay, B., Ackerman, L., Barbel, S., Jan, L.Y., and Jan, Y.N. (1988). Identification of a component of *Drosophila* polar granules. *Development* 103:625-640. PMID: 3150351.
34. Hay, B., Jan, L.Y., and Jan, Y.N. (1988). A protein component of *Drosophila* polar granules is encoded by *vasa* and has extensive sequence similarity to ATP-dependent helicases. *Cell* 55:577-587. PMID: 3052853.
35. Caudy, M., Vaessin, H., Brand, M., Tuma, R., Jan, L.Y., and Jan, Y.N. (1988). *daughterless*, a *Drosophila* gene essential for both neurogenesis and sex determination, has sequence similarities to *myc* and the *achaete-scute* complex. *Cell* 55:1061-1067. PMID: 3203380.
36. Dambly-Chaudiere, C., Ghysen, A., Jan, L.Y., and Jan, Y.N. (1988). The determination of sense organs in *Drosophila*: interaction of *scute* with *daughterless*. *Roux's Arch. Dev. Biol.* 197:419-423.
37. Bier, E., Ackerman, L., Barbel, S., Jan, L.Y., and Jan, Y.N. (1988). Identification and characterization of a neuron-specific nuclear antigen in *Drosophila*. *Science* 240:913-916. PMID: 3129785.
38. Murre, C., Schonleber McCaw, P., Vaessin, H., Caudy, M., Jan, L.Y., Jan, Y.N., Cabrera, C.V., Lassar, A.B., Weintraub, H., and Baltimore, D. (1989). Heterodimers of helix-loop-helix proteins bind specifically to a common DNA sequence. *Cell* 58:537-544. PMID: 2503252.
39. Uemura, T., Shepherd, S., Ackerman, L., Jan, L.Y., and Jan, Y.N. (1989). *numb*, a gene required in determination of cell fate during sensory organ formation in *Drosophila* embryo. *Cell* 58:349-360. PMID: 2752427.
40. Bier, E., Vaessin, H., Shepherd, S., Lee, K., McCall, K., Barbel, S., Ackerman, L., Carretto, R., Uemura, T., Grell, E., Jan, L.Y., and Jan, Y.N. (1989). Searching for pattern and mutation in the *Drosophila* genome with a P-lacZ vector. *Genes Dev.* 3:1273-1287. PMID: 2110920.
41. Leung, H.T., Branton, W.D., Phillips, H.S., Jan, L.Y., and Byerly, L. (1989). Spider toxins selectively block calcium currents in *Drosophila*. *Neuron* 3:767-772. PMID: 2642017.
42. Schwarz, T.L., Papazian, D.M., Carretto, R.C., Jan, Y.N., and Jan, L.Y. (1990). Immunological characterization of K⁺-channel components from the *Shaker* locus and the differential distribution of splicing variants in *Drosophila*. *Neuron* 4:119-127. PMID: 2310570.
43. Bier, E., Jan, L.Y., and Jan, Y.N. (1990). *rhomboid*, a gene required for dorsoventral axis establishment and peripheral nervous system development in *Drosophila melanogaster*. *Genes Dev.* 4:190-203. PMID: 2110920.
44. Rao, Y., Jan, L.Y., and Jan, Y.N. (1990). Similarity of the product of the *Drosophila* neurogenic gene *big brain* to transmembrane channel proteins. *Nature* 345:163-167. PMID: 1692392.
45. Isacoff, E., Jan, Y.N., and Jan, L.Y. (1990). Evidence for the formation of heteromultimeric potassium channels in *Xenopus* oocytes. *Nature* 345:530-534. PMID: 2112229.
46. Hay, B., Jan, L.Y., and Jan, Y.N. (1990). Localization of Vasa, a component of *Drosophila* polar granules, in maternal effect mutants that alter embryonic anteroposterior polarity. *Development* 109:425-433. PMID: 2119289.
47. Jan, L.Y., and Jan, Y.N. (1990). A superfamily of ion channels. *Nature* 345:672. PMID: 1694264.
48. Blochlinger, K., Bodmer, R., Jan, L.Y., and Jan, Y.N. (1990). Patterns of expression of Cut,

- a protein required for external sensory organ development, in wild-type and *cut* mutant *Drosophila* embryos. *Genes Dev.* 4:1322-1331. PMID: 19977661.
49. Klaiber, K., Williams, N., Roberts, T.M., Papazian, D.M., Jan, L.Y., and Miller, C. (1990). Functional expression of Shaker K⁺ channels in a baculovirus-infected insect cell line. *Neuron* 5:211-216. PMID: 2200450.
 50. Bodmer, R., Jan, L.Y., and Jan, Y.N. (1990). A new homeobox containing gene *msh-2* is transiently expressed early during mesoderm formation of *Drosophila*. *Development* 110:661-670. PMID: 1982429.
 51. Papazian, D.M., Timpe, L.C., Jan, Y.N., and Jan, L.Y. (1991). Alteration of voltage-dependence of Shaker K⁺ channel by mutations in the S4 sequence. *Nature* 349:305-310. PMID: 1846229.
 52. Baldwin, T.B., Tsaur, M-L, Lopez, G.A., Jan, Y.N., and Jan, L.Y. (1991). Characterization of a mammalian K⁺ channel cDNA for an inactivating voltage-sensitive K⁺ channel. *Neuron* 7:471-483. PMID: 1840649.
 53. Lopez, G.A., Jan, Y.N., and Jan, L.Y. (1991). Hydrophobic substitution mutations in the S4 sequence alter voltage-dependent gating in Shaker K⁺ channels. *Neuron* 7:327-336. PMID: 1873032.
 54. Ruohola, H., Bremer, K.A., Baker, D., Swedlowe, J.R., Jan, L.Y., and Jan, Y.N. (1991). Role of neurogenic genes in establishment of follicle cell fate and oocyte polarity during oogenesis in *Drosophila*. *Cell* 66:433-449. PMID: 1907889.
 55. Isacoff, E.Y., Jan, Y.N., and Jan, L.Y. (1991). Putative receptor for the cytoplasmic inactivation gate in the Shaker K⁺ channel. *Nature* 353:86-90. PMID: 1881453.
 56. Rao, Y., Vaessin, H., Jan, L.Y., and Jan, Y.N. (1991). Neuroectoderm in *Drosophila* embryos is dependent on the mesoderm for positioning but not for formation. *Genes Dev.* 5:1577-1588. PMID: 1885000.
 57. Blochlinger, K., Jan, L.Y., and Jan, Y.N. (1991). Transformation of sensory organ identity by ectopic expression of Cut in *Drosophila*. *Genes Dev.* 5:1124-1135. PMID: 1676691.
 58. Boulianne, G.L., de la Concha, A., Campos-Ortega, J.A., Jan, L.Y., and Jan, Y.N. (1991). The *Drosophila* neurogenic gene *neuralized* encodes a protein with a novel putative DNA-binding motif. *EMBO J.* 10:2975-2983. PMID: 1720353.
 59. Vaessin, H., Grell, E., Wolff, E., Bier, E., Jan, L.Y., and Jan, Y.N. (1991). *prospero* is expressed in neuronal precursors and encodes a nuclear protein that is involved in the control of axonal outgrowth in *Drosophila*. *Cell* 67:941-953. PMID: 1720353.
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 61. Sheng, M., Tsaur, M-L, Jan, Y.N., and Jan, L.Y. (1992). Subcellular segregation of two A-type K⁺ channel proteins in rat central neurons. *Neuron* 9:271-284. PMID: 1497894.
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 63. Li, M., Jan, Y.N., and Jan, L.Y. (1992). Specification of subunit assembly by the hydrophilic amino-terminal domain of the Shaker K⁺ channel. *Science* 257:1225-1230. PMID: 1519059.
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- Development 116:31-40. PMID: 1483394.
66. Bier, E., Vaessin, H., Younger-Shepherd, S., Jan, L.Y., and Jan, Y.N. (1992). *deadpan*, an essential pan-neural gene in *Drosophila*, encodes a helix-loop-helix protein similar to the *hairy* gene product. *Genes Dev.* 6:2137-2151. PMID: 1427077.
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 70. Giniger, E., Jan, L.Y., and Jan, Y.N. (1993). Specifying the path of the intersegmental nerve of the *Drosophila* embryo: a role for *Delta* and *Notch*. *Development* 117:431-440. PMID: 8330518.
 71. Crowley, T.E., Hoey, T., Liu, J.K., Jan, Y.N., Jan, L.Y., and Tjian, R. (1993). A new factor related to TATA-binding protein has highly restricted expression patterns in *Drosophila*. *Nature* 361:557-561. PMID: 8429912.
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