HUGO J. BELLEN, D.V.M., PH.D.
PROFESSOR, DEPARTMENTS OF MOLECULAR AND HUMAN GENETICS, AND NEUROSCIENCE
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EDUCATION

Ph.D. in Genetics, 1986, University of California, Davis, CA
Thesis: "Multiple effects of *dunce* mutations of *Drosophila melanogaster* and their interactions with suppressors", Advisor: Dr. J.A. Kiger
Doctor in Veterinary Medicine, 1983, Magna Cum Laude, Ghent University, Belgium
Preveterinary Medicine, 1980, Magna Cum Laude, University of Antwerp, Belgium
***Business Engineer* (Engineering & M.B.A.)**, 1976, Magna Cum Laude
Solvay Business School, Vrije Universiteit Brussel, Belgium

POSTGRADUATE TRAINING

Postdoctoral Researcher, supported by a N.A.T.O. Fellowship, 1987-1989
University of Basel, Biozentrum, Dept. of Cell Biology, Switzerland, Advisor: Dr. W.J. Gehring

OTHER TRAINING

Research Associate in Econometrics, supported by the National Fund of Scientific Research, 1977-1980
University of Antwerp, Dept. of Economical Sciences, Belgium, Advisor: Dr. C. Van Herbruggen

ACADEMIC APPOINTMENTS

CURRENT APPOINTMENTS AT BAYLOR COLLEGE OF MEDICINE (BCM)

1997-present	***Professor***, Departments of Molecular and Human Genetics, and Neuroscience
2007-present	***Adjunct Member***, The University of Texas MD Anderson Cancer Center
2010-present	***Distinguished Service Professor***, Baylor College of Medicine
2011-present	***Principal Investigator***, Jan and Dan Duncan Neurological Research Institute

PAST APPOINTMENTS AT BAYLOR COLLEGE OF MEDICINE (BCM)

1989-2021	***Investigator***, Howard Hughes Medical Institute
1996-2017	***Director***, Graduate Program in Developmental Biology
1989-1994	***Assistant Professor***, Departments of Molecular and Human Genetics, and Cell Biology; and Program in Cell and Molecular Biology
1990-1994	***Assistant Professor***, Division of Neuroscience

1991-1994 ***Assistant Professor***, Program in Developmental Biology
1994-1997 ***Associate Professor***, Departments of Molecular and Human Genetics, and Cell Biology; Division of Neuroscience; Programs in Cell and Molecular Biology, and Developmental Biology
1997-2009 ***Professor***, Department of Molecular and Cellular Biology

PROFESSIONAL SOCIETIES

Genetics Society of America
American Association for the Advancement of Science
Society for Neuroscience
American Society of Human Genetics

HONORS AND AWARDS

The Gruber Prize in Genetics, January 2024
Emeritus, Howard Hughes Medical Institute, October 2023
Chair in Neurogenetics, Jan and Dan Duncan Neurological Research Institute, April 2020-present
Arthur L. Beaudet Mentoring Award, BCM, October 2022
The Barbara and Corbin J. Robertson, Jr. Presidential Award for Education and Mentoring, May 2021
Elected Associate Member, European Molecular Biology Organization, May 2021
Elected Member, National Academy of Sciences, April 2020
Elected Member, American Academy of Arts and Sciences, April 2020
For many years of service at BCM as leader in numerous programs & committees and advocate for supporting research faculty, Office of Research, BCM, September 2019
Keynote Speaker, Brown University Colloquium on the Biology of Human Aging, May 2019
Keynote Speaker, Chicago Chapter of Society for Neuroscience, April 2019
Opening Lecture, Grande Conference of the Academie des Sciences, Insects: friends, foes and models, Institut de France, Paris, March 2019
Stanley N. Cohen Lecture, Perelman School of Medicine of the University of Pennsylvania, May 2018
Seymour Benzer Keynote Speaker, Neurobiology of Drosophila Meeting, Cold Spring Harbor, Oct. 2017
Edward J. Masoro Distinguished Lecture, UT Health Science Center, San Antonio, May 2016
Michael E. DeBakey, M.D., Excellence in Research Award, BCM, May 2016
Miegunyah Distinguished Visiting Fellowship at the University of Melbourne, Australia, May 2015
George W. Beadle Award of the Genetics Society of America, March 2014
Linda & Jack Gill Distinguished Neuroscience Investigator Award, Indiana U., Bloomington, Oct. 2012
Distinguished Alumnus Award, University of California, Davis, October 2011
Distinguished Service Professor, BCM, March 2010
March of Dimes Chair in Developmental Biology, BCM, May 2000-present
Charles Darwin Chair in Genetics, Dept. of Molecular and Human Genetics, BCM, Oct. 1999-present
Dean's Faculty Award for Excellence in Graduate Education, BCM, March 1999
Michael E. DeBakey, M.D., Excellence in Research Award, BCM, October 1995
N.A.T.O. Fellowship, July 1986 and July 1987
Distinguished Scholarship, University of California, Davis, September 1985
Fulbright Award, Belgian-American Educational Foundation, July 1983
Upjohn Award, Best Thesis in Veterinary Medicine, Belgium, July 1983

REVIEW PANELS & SERVICE

President, Genetics Society of America, 2021; Vice-President, 2020
Chair, Scientific Advisory Board of the Bloomington *Drosophila* Stock Center, Indiana Univ., 1996-present
Member, Scientific Advisory Board of FlyBase, Harvard University, 2016-present
Member, Scientific Advisory Board of the Alliance of Genome Resources, NHGRI, 2017-present
Member, External Advisory Board of the Gill Center, Indiana University, 2018-present
Chair, Scientific Advisory Board of the INADcure Foundation, 2019-present
Chair, Board of Scientific Counselors, NIH/NICHD, 2019-2024
Member, Scientific Advisory Board of the Institute of Molecular Biology (IMB), Academia Sinica, Taipei, Taiwan, 2011, 2017, 2022 (Chair)
Member, Scientific Advisory Board of the Max Planck Institute for Biophysical Chemistry, Göttingen, Germany, 2008-2017
Member, Scientific Advisory Board of the Flanders Interuniversity Institute for Biotechnology (VIB), University of Leuven, Belgium, 2013
Member, Scientific Advisory Board of the Biology Department, KAIST, Daejeon, Korea, 2010
Member, Advisory Committees of Janelia Farm, HHMI, Ashburn, VA, 2007-2010
Member, Faculty Search Committee of the Flanders Interuniversity Institute for Biotechnology (VIB), Belgium, 2003-2010

Head, Model Organisms Screening Center, Undiagnosed Diseases Network, NIH, 2015-present
Co-Chair, Executive Steering Committee, Undiagnosed Diseases Network, NIH, 2019-2023
Ad hoc grant reviewer, Behavioral and Neuroscience Study Section, NIH, 1993, 1998, and 2001
Member, Special Emphasis Panel Study Section, NIH, 2000-2002
Member, NASA Developmental Review Panel, 2000
Ad hoc grant reviewer, National Science Foundation, 1991-1996
Ad hoc grant reviewer, Department of Agriculture, 1991-1995

Member, Faculty Promotions Committee of the Molecular and Human Genetics Dept., BCM, 2015-present
Genetics Faculty Representative/Senator, Faculty Senate, BCM, 2015-2019
Basic Science Faculty Representative/Senator, Faculty Senate, BCM, 2015-2018
Chair, Basic Science Faculty Input Committee, BCM, 2011-2015
Member, Faculty Appointments and Promotions Committee, BCM, 1998-2018
Chair, Faculty Committee on Awards and Bridge Funding, BCM, 1998-2018

Co-Organizer, TAGC2020, The Allied Genetics Conference, GSA Conference, Washington DC, 2020
Co-Organizer, Notch Meetings, Athens, Greece, 2011, 2012, 2014
Organizer, HHMI Janelia Farm Research Conference "Improving the genetic toolkit for *Drosophila*", 2007
Chair, 47th Annual *Drosophila* Research Conference, Houston, TX, 2006
Organizer, Cold Spring Harbor Laboratory "Neurobiology of *Drosophila*" Meeting, 2001
Member, Organization Committee for the biennial *Drosophila* Crete meetings, 1995-2000

EDITORIAL ACTIVITIES

Member, Editorial Board of *PNAS*, 2020-present
Member, Editorial Board of *eLife*, 2015-present
Member, Editorial Board of *Genetics*, Associate Editor, 2013-present
Member, Editorial Board of *F1000 Research*, 2012-2018
Member, Editorial Board of *PLoS Biology*, 2012-2018
Academic Editor, *PLoS Biology*, 2007-2011
Member, Editorial Board of the *Journal of Cell Biology*, 2001-2016
Member, Editorial Board of *Invertebrate Neuroscience*, 1996-2001

Editor, *Notch Signaling*, Methods in Molecular Biology (Book 1187), Humana Press, 2014
Guest Editor, *Developmental Genetics*: "Focus on Neurogenesis", 1996
Reviewer for: *Cell, Cell Reports, Cell Metabolism, Current Biology, Development, Developmental Biology, Developmental Cell, Disease Models & Mechanisms, eLife, EMBO Journal, EMBO Report, Genes and Development, Genetics, Genome Research, G3, Journal of Cell Biology, Journal of Cell Science, Journal of Neuroscience, Mechanisms of Development, Molecular Cell, Molecular and Cellular Biology, Nature, Nature Cell Biology, Nature Communications, Nature Genetics, Nature Methods, Nature Metabolism, Nature Neuroscience, Nature Structural & Molecular Biology, Neuron, PLoS Biology, PLoS Genetics, PLoS One, PNAS USA*, and *Science*

TEACHING RELATED ACTIVITIES AT BAYLOR COLLEGE OF MEDICINE (BCM)

COURSES TAUGHT AND/OR COORDINATED

Classical Developmental Biology (2016-present)
Neural Development (1997-2003, 2007-present)
Evolutionary Conservation of Developmental Mechanisms (1992-2017)
Seminar in Developmental Biology (1992-2017)
Development (core) (1997-2003, 2008-2014)
Topics in Development (1992-1998, 2008)
Mechanisms of Neural Disease (1999-2001)
Developmental Biology (1992-1997)
Molecular Neuroscience (1992-1996)
Advanced Topics in Genetics (1998-2001)
Genetics A (core) (1997-1998)
Genetics B (core) (1997-1998)
Advanced Eukaryotic Genetics (1997-1998)
Eukaryotic Genetics (1990-1997)

CURRICULUM DEVELOPMENT

Member of the Thesis Advisory Committees of >95 Graduate Students, 1990-present
Member of the Graduate School Executive Council, 1996-2017
Director of the Graduate Program in Developmental Biology, 1996-2017
Co-Director of the Graduate Program in Developmental Biology, 1991-1996
Coordinator of the Seminar Series in the Graduate Program in Developmental Biology, 1993-2017
Coordinator of the Seminar Series in the Department of Molecular and Human Genetics, 1997-2001
Member of the Howard Hughes Medical Institute Liaison Committee, 2004-2011
Committee Member of the Barbara and Corbin J. Robertson, Jr. Presidential Award for Excellence in Education, BCM, 2001-2004
Member of more than 30 Faculty Recruitment Committees, Departments of Molecular and Human Genetics, Molecular and Cellular Biology, and Neuroscience, 1990-present
Head of Search Committees for 4 faculty positions, Dept. of Molecular and Human Genetics, 1995-2010
Head of the Search Committee for a Physiology Chair, 1997-1999
Member of the Graduate School Curriculum Advisory Committee, 1996-2010
Member of the Graduate School Curriculum Committee, 1990-1996
Member of the Operating Committee of the Medical Scientist Training Program, 1992-1997
Member of the Steering Committee of the Graduate Program in Cell and Molecular Biology, 1990-1996
Member of the Graduate Education Committee of the Dept. of Molecular and Human Genetics, 1990-1996
Member of the Examination Committee of the Department of Molecular and Human Genetics, 1990-1994
Member of the Examination Committee of the Department of Cell Biology, 1990-1994

SUPPORT

NIH/OD, PD/PI, R24 OD031447, A comprehensive resource for manipulating the *Drosophila* genome with swappable insertion cassettes (SICs), 07/01/2021 - 03/31/2029

NIH/NIA, PD/PI, R01 AG073260, Impacts of glial droplets on oxidative stress and neurodegeneration in Alzheimer's Disease, 09/01/2021 - 05/31/2026

NIH/NIA, PD/PI, R01 AG073260-03S1, Impacts of glial droplets on oxidative stress and neurodegeneration in Alzheimer's Disease, 09/01/2023 - 05/31/2026

NIH/NIA, Co-I, U01 AG072439, Functional genomic dissection of Alzheimer's Disease in human and *Drosophila* models, 07/01/2021 - 06/30/2026

NIH/NHGRI, Co-I, R01 HG011795, Genomic medicine and gene function implementation for an under-served population, 07/13/2021- 04/30/2026

NIH/ORIP Co-I, U54 OD03165, BCM Center for precision medicine models, 09/15/2020 - 08/31/2030

Henri Jackson Foundation, PI, Subcontract, HT9452310375, 05/01/2023 - 04/30/2026

Huffington Fdn, PI, Translational resource for acceleration of Parkinson's Disease, 01/01/2022 - 12/31/2029

Chan Zuckerberg Initiative, PI, Diagnosing and studying pathogenetic mechanisms of rare diseases, 08/01/2023 - 07/30/2027

PUBLICATIONS

ARTICLES PUBLISHED, IN PRESS, SUBMITTED

1. **Bellen, H.J**., van de Weghe, A., Bouquet, Y. and van Zutphen, L.F.M. 1984. Heterogeneity of the Es-1 esterases in the rabbit (*Oryctolagus cuniculus*). ***Biochemical Genetics*** 22:853-870. PMID: 6517851.

2. **Bellen, H.J.** and Kiger, J.A. Jr. 1987. Sexual hyperactivity and reduced longevity of *dunce* females of *Drosophila melanogaster*. ***Genetics*** 115:153-160. PMID: 3030881.

3. **Bellen, H.J.**, Gregory, B.K., Olsson, C.L. and Kiger, J.A. Jr. 1987. Two *Drosophila* learning mutants, *dunce* and *rutabaga*, provide evidence of a maternal role for cAMP on embryogenesis. ***Developmental Biology*** 121:432-444. PMID: 3034702.

4. **Bellen, H.J**. and Kiger, J.A. Jr. 1988. Maternal effects of general and regional specificity on embryos of *Drosophila melanogaster* caused by *dunce* and *rutabaga* mutant combinations. ***Wilhelm Roux's Archives Developmental Biology*** 197:258-268.

5. **Bellen, H.J.**, O'Kane, C.J., Wilson, C., Grossniklaus, U., Pearson, R.K. and Gehring, W.J. 1989. *P*-element-mediated enhancer detection: a versatile method to study development in *Drosophila*. ***Genes and Development*** 3:1288-1300. PMID: 2558050.

6. Wilson, C., Pearson, R.K., **Bellen, H.J.**, O'Kane, C.J., Grossniklaus, U. and Gehring, W.J. 1989. *P*-element-mediated enhancer detection: an efficient method for isolating and characterizing developmentally regulated genes in *Drosophila*. ***Genes and Development*** 3:1301-1313. PMID: 2558051.

7. Grossniklaus, U., **Bellen, H.J.**, Wilson, C. and Gehring, W.J. 1989. *P*-element mediated enhancer detection applied to the study of oogenesis in *Drosophila*. ***Development*** 107:189-200. PMID: 2517254.

8. Weigel, D., **Bellen, H.J.**, Jürgens, G. and Jäckle, H. 1989. Primordium specific requirement of the homeotic gene *fork head* in the developing gut of the *Drosophila* embryo. ***Wilhelm Roux's Archives Developmental Biology*** 198:201-210.

9. **Bellen, H.J.**, Wilson, C., Gibson, G., Grossniklaus, U., Pearson, R.K., O'Kane, C. and Gehring, W.J. 1990. *P*-element-mediated enhancer detection allows rapid identification of developmentally reg-ulated genes and cell specific markers in *Drosophila*. ***Journal of Physiology*** 84:33-41. PMID: 2162957.

10. Wilson, C., **Bellen, H.J.** and Gehring, W.J. 1990. Position effects on eukaryotic gene expression. ***Annual Review of Cell Biology*** 6:679-714. PMID: 2275824.

11. **Bellen, H.J.**, Wilson, C. and Gehring, W.J. 1990. Dissecting the complexity of the nervous system by enhancer detection. ***BioEssays*** 12:199-204. PMID: 2164394.

12. **Bellen, H.J.**, D'Evelyn, D., Harvey, M. and Elledge, S.J. 1992. Isolation of temperature-sensitive diphtheria toxins in yeast and their effects on *Drosophila* cells. ***Development*** 114:787-796. PMID: 1618142.

13. **Bellen, H.J.**, Vaessin, H., Bier, E., Kolodkin, A., D'Evelyn, D., Kooyer, S. and Jan, Y-N. 1992. The *Drosophila couch potato* gene: an essential gene required for normal adult behavior. ***Genetics*** 131: 365-375. PMID: 1644278.

14. Whitehouse-Hills, S., **Bellen, H.J.** and Kiger, J.A. Jr. 1992. Embryonic cAMP and developmental potential in *Drosophila melanogaster*. ***Wilhelm Roux's Archives Developmental Biology*** 201:257-264.

15. **Bellen, H.J.,** Kooyer, S., D'Evelyn, D. and Pearlman, J. 1992. The *Drosophila* Couch potato protein is expressed in nuclei of peripheral neuronal precursors and shows homology to RNA-binding proteins. ***Genes and Development*** 6:2125-2136. PMID: 1427076.

16. Littleton, J.T., **Bellen, H.J.** and Perin, M.S. 1993. Expression of *synaptotagmin* in *Drosophila* embryos reveals transport and localization of synaptic vesicles to the synapse. ***Development*** 118:1077-1088. PMID: 8269841.

17. Littleton, J.T., Stern, M., Schulze, K., Perin, M. and **Bellen, H.J.** 1993. Mutational analysis of *Drosophila synaptotagmin* demonstrates its essential role in Ca^{2+}-activated neurotransmitter release. ***Cell*** 74: 1125-1134. PMID: 8104705.

18. Kania, A., Han, P-L., Kim, Y-T. and **Bellen, H.J.** 1993. *neuromusculin,* a *Drosophila* gene expressed in peripheral neuronal precursors and muscles, encodes a cell adhesion molecule. ***Neuron*** 11:673-687. PMID: 8398154.

19. Eldon, E., Kooyer, S., D'Evelyn, D., Duman, M., Lawinger P., Botas, J. and **Bellen, H.J.** 1994. The *Drosophila 18 wheeler* is required for morphogenesis and has striking similarities to *Toll.* ***Development*** 120:885-899. PMID: 7600965.

20. Salzberg, A., D'Evelyn, D., Schulze, K.L., Lee, J-K., Strumpf, D., Tsai, L. and **Bellen, H.J.** 1994. Mutations affecting the pattern of the PNS in *Drosophila* reveal novel aspects of neuronal development. ***Neuron*** 13:269-287. PMID: 8060613.

21. Littleton, J.T. and **Bellen, H.J.** 1994. Genetic and phenotypic analysis of thirteen essential genes in cytological interval 22F1-2; 23B1-2 reveals novel genes required for neural development in *Drosophila.* ***Genetics*** 138:111-123. PMID: 8001779.

22. Broadie, K., **Bellen, H.J.**, DiAntonio, A., Littleton, J.T. and Schwarz, T.L. 1994. Absence of synaptotagmin disrupts excitation-secretion coupling during synaptic transmission. ***Proceedings of the National Academy of Sciences USA*** 91:10727-10731. PMID: 7938019.

23. Schulze, K.L., Littleton, J.T., Salzberg, A., Halachmi, N., Stern, M., Lev, Z. and **Bellen, H.J.** 1994. rop, a *Drosophila* homolog of yeast Sec1 and vertebrate n-Sec1/Munc-18 proteins, is a negative regulator of neurotransmitter release *in vivo*. ***Neuron*** 13:1099-1108. PMID: 7946348.

24. Littleton, J.T., Stern, M., Perin, M. and **Bellen, H.J.** 1994. Calcium dependence of neurotransmitter release and rate of spontaneous vesicle fusions are altered in *Drosophila synaptotagmin* mutants. ***Proceedings of the National Academy of Sciences USA*** 91:10888-10892. PMID: 7971978.

25. Littleton, J.T. and **Bellen, H.J.** 1995. Presynaptic proteins involved in exocytosis in *Drosophila melanogaster*: a genetic analysis. ***Invertebrate Neuroscience*** 1:3-13. PMID: 9372128.

26. Schulze, K.L., Broadie, K., Perin, M.S. and **Bellen, H.J.** 1995. Genetic and electrophysiological studies of *Drosophila* syntaxin-1A demonstrate its role in nonneuronal secretion and neurotransmission. ***Cell*** 80: 311-320. PMID: 7834751.

27. Littleton, J.T. and **Bellen, H.J.** 1995. Synaptotagmin controls and modulates synaptic-vesicle fusion in a Ca^{2+}-dependent manner. ***Trends in Neuroscience*** 18:177-183. PMID: 7778189.

28. Kania, A. and **Bellen, H.J.** 1995. Mutations in *neuromusculin*, a gene encoding a cell adhesion molecule, cause nervous system defects. ***Wilhelm Roux's Archives Developmental Biology*** 204:259-270.

29. Kania, A., Salzberg, A., Bhat, M., D'Evelyn, D., He, Y., Kiss, I. and **Bellen, H.J.** 1995. *P*-element mutations affecting embryonic peripheral nervous system development in *Drosophila melanogaster*. ***Genetics*** 139:1663-1678. PMID: 7789767.

30. Broadie, K., Prokop, A., **Bellen, H.J.**, O'Kane, C.J., Schulze, K.L. and Sweeney, S.T. 1995. Syntaxin and synaptobrevin function downstream of vesicle docking in *Drosophila*. ***Neuron*** 15:663-673. PMID: 7546745.

31. **Bellen, H.J.** and Smith, R.F. 1995. FlyBase: a virtual *Drosophila* cornucopia. ***Trends in Genetics*** 11: 456-457. PMID: 8578603.

32. Salzberg, A. and **Bellen, H.J.** 1996. Invertebrate versus vertebrate neurogenesis: variations on the same theme? ***Developmental Genetics*** 18:1-10. PMID: 8742829.

33. **Bellen, H.J.** and Salzberg, A. 1996. (Editor Journal Issue) Focus on Neurogenesis. ***Developmental Genetics*** 18 (1), Wiley-Liss, New York, 91p.

34. Rodriguez, A., Zhou, Z., Tang, M. L., Meller, S., Chen, J., **Bellen, H.J.** and Kimbrell, D. A. 1996. Identification of immune system and response genes, and novel mutations causing melanotic tumor formation in *Drosophila melanogaster*. ***Genetics*** 143:929-940. PMID: 8725239.

35. Ben-Arie, N., McCall, A.E., Berkman, S., Eichele, G., **Bellen, H.J.** and Zoghbi, H.Y. 1996. Evolutionary conservation of sequence and expression of the bHLH protein Atonal suggests a conserved role in neurogenesis. ***Human Molecular Genetics*** 5:1207-1216. PMID: 8872459.

36. Salzberg, A., Golden, K., Bodmer, R. and **Bellen, H.J.** 1996. *gutfeeling*, a *Drosophila* gene encoding an antizyme-like protein, is required for late differentiation of neurons and muscles. ***Genetics*** 144: 183-196. PMID: 8878684.

37. Schulze, K.L. and **Bellen, H.J.** 1996. *Drosophila syntaxin* is required for cell viability and may function in membrane formation and stabilization. ***Genetics*** 144:1713-1724. PMID: 8978057.

38. Baumgartner, S., Littleton, J.T., Broadie, K., Bhat, M.A., Harbecke, R., Lengyel, J.A., Chiquet-Ehrismann, R., Prokop, A. and **Bellen, H.J.** 1996. A *Drosophila* neurexin is required for septate junction and blood-nerve barrier formation and function. ***Cell*** 87:1059-1068. PMID: 8978610.

39. Bhat, M.A., Philp, A.V., Glover, D.M. and **Bellen, H.J.** 1996. Chromatid segregation at anaphase requires the *barren* product, a novel chromosome-associated protein that interacts with Topoisomerase II. ***Cell*** 87: 1103-1114. PMID: 8978614.

40. Littleton, J.T., Bhat, M.A. and **Bellen, H.J.** 1997. Deciphering the function of neurexins at cellular junctions. ***Journal of Cell Biology*** 137:793-796. PMID: 9151682.

41. Wu, M.N. and **Bellen, H.J.** 1997. Genetic dissection of synaptic transmission in *Drosophila*. ***Current Opinion in Neurobiology*** 7:624-630. PMID: 9384538.

42. Ben-Arie, N., **Bellen, H.J**., Armstrong, D.L., McCall, A.E., Gordadze, P.R., Guo, Q., Matzuk, M.M. and Zoghbi, H.Y. 1997. *Math1* is essential for genesis of cerebellar granule neurons. ***Nature*** 390:169-172. PMID: 9367153.

43. Cabello, O.A., Baldini, A., Bhat, M., **Bellen, H.J.** and Belmont J.W. 1997. Localization of BRRN1, the human homologue of *Drosophila barr*, to 2q11.2. ***Genomics*** 46:311-313. PMID: 9417923.

44. Salzberg, A., Prokopenko, S.N., He, Y., Tsai, P., Pál, M., Maróy, P., Glover, D.M., Deák, P. and **Bellen, H.J.** 1997. *P*-element insertion alleles of essential genes on the third chromosome of *Drosophila melanogaster:* mutations affecting embryonic PNS development. ***Genetics*** 147:1723-1741. PMID: 9409832.

45. Wu, M.N., Littleton, J.T., Bhat, M.A., Prokop, A. and **Bellen, H.J.** 1998. ROP, the *Drosophila* Sec1 homolog, interacts with syntaxin and regulates neurotransmitter release in a dosage-dependent manner. ***EMBO Journal*** 17:127-139. PMID: 9427747.

46. Dye, C.A., Lee, J-K., Atkinson, R.C., Brewster, R., Han, P-L. and **Bellen, H.J.** 1998. The *Drosophila sanpodo* gene controls sibling cell fate and encodes a tropomodulin homolog, an actin/tropomyosin-associated protein. ***Development*** 125:1845-1856. PMID: 9550717.

47. Adams, R.R., Tavares, A.A.M., Salzberg, A., **Bellen, H.J.** and Glover, D.M. 1998. *pavarotti* encodes a kinesin-like protein required to organize the central spindle and contractile ring for cytokinesis. ***Genes and Development*** 12:1483-1494. PMID: 9585508.

48. **Bellen, H.J.** 1998. The fruit fly: a model organism to study the genetics of alcohol abuse and addiction? ***Cell*** 93:909-912. PMID: 9635419.

49. **Bellen, H.J.**, Lu, Y., Beckstead, R. and Bhat, M.A. 1998. Neurexin IV, caspr and paranodin--novel members of the neurexin family: encounters of axons and glia. ***Trends in Neuroscience*** 21:444-449. PMID: 9786343.

50. Zhang, B., Koh, Y.H., Beckstead, R.B., Budnik, V., Ganetzky, B. and **Bellen, H.J.** 1998. Synaptic vesicle size and number are regulated by a clathrin adaptor protein required for endocytosis. ***Neuron*** 21: 1465-1475. PMID: 9883738.

51. Hassan, B.A., Prokopenko, S.N., Breuer, S., Zhang, B., Paululat, A. and **Bellen, H.J.** 1998. *skittles*, a *Drosophila* phosphatidylinositol 4-phosphate 5-kinase, is required for cell viability, germline development and bristle morphology, but not for neurotransmitter release. ***Genetics*** 150:1527-1537. PMID: 9832529.

52. Bhat, M.A., Izadoost, S., Lu, Y., Cho, K-O., Choi, K-W. and **Bellen, H.J.** 1999. Discs lost, a novel multi-PDZ domain protein, establishes and maintains epithelial polarity. ***Cell*** 96:833-845. Erratum: *Cell* 115: 765-766. PMID: 10102271.

53. Bermingham, N.A., Hassan, B.A., Price, S.D., Vollrath, M.A., Ben-Arie, N., Eatock, R.A., **Bellen, H.J**., Lysakowski, A. and Zoghbi, H.Y. 1999. *Math1*: an essential gene for the generation of inner ear hair cells. ***Science*** 284:1837-1841. PMID: 10364557.

54. Wu, M.N., Fergestad, T., Lloyd, T.E., He, Y., Broadie, K. and **Bellen, H.J.** 1999. Syntaxin 1A interacts with multiple exocytic proteins to regulate neurotransmitter release *in vivo*. ***Neuron*** 23: 593-605. PMID: 10433270.

55. Zhang, B., Ganetzky, B., **Bellen, H.J.** and Murthy, V.M. 1999. Tailoring uniform coats for synaptic vesicles during endocytosis. ***Neuron*** 23:419-422. PMID: 10433253.

56. Prokopenko, S.N., Brumby, A., O'Keefe, L., Prior, L., He, Y., Saint, R. and **Bellen, H.J.** 1999. A putative exchange factor for Rho1 GTPase is required for initiation of cytokinesis in *Drosophila.* ***Genes and Development*** 13:2301-2314. PMID: 10485851.

57. **Bellen, H.J.** 1999. Ten years of enhancer detection: lessons from the fly. ***Plant Cell*** 11:2271-2281. PMID: 10590157.

58. Pennetta, G., Wu, M.N. and **Bellen, H.J.** 1999. (Book Chapter) Dissecting the molecular mechanisms of neurotransmitter release in *Drosophila*. *In* **Neurotransmitter release. Frontiers in Molecular Biology.** Oxford University Press, New York, pp. 304-351.

59. Lloyd, T.E. and **Bellen, H.J.** 1999. (Book Chapter) Genetic analysis of neurotransmitter release in mice and humans. *In* **Neurotransmitter release. Frontiers in Molecular Biology.** Oxford University Press, New York, pp. 352-388.

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364. Dubey, S., Chaubey, D., Ikenaga, C., Lin, W-W., **Bellen, H.J.** and Lloyd, T.E. 2025. Aberrant nuclear pore complex degradation contributes to neurodegeneration in VCP disease. ***Neuron***, in press.

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366. Deger, J.M., Hannan, S., Gu, M., Strohlein, C., Goodman, L., Pasupuleti, S, Shaik, Z., Ma, L., Li, Y., Li, J., Stephens, M, Liu, Z., Al-Ramahi, I., Botas, J., Shaw, C., Kanca, O., **Bellen, H.J.*** and Shulman J.M.* 2025. Revealing the nervous system requirements of Alzheimer's disease risk genes in Drosophila. *The* ***American Journal of Human Genetics***, in press. *Corresponding authors.

367. Ma, M., Lei, X., Li, J., Zheng, Y., Yuan, Y., Mao, X., Guo, Z., Lu, S., Deng, M., Pan, X., Kanca, O., Wang, H., Xiao, B., Barakat, S., Schot, R., Demirdas, S., Bian, S., **Bellen, H.J.*** and Long L*. 2026. Bi-allelic variants in SEC16A are associated with a neurodevelopmental disorder. ***Journal of Clinical Investigation***, in review. *Corresponding authors.

368. Gu, M., Zhao, J., Deng, M., Lin, G., Pan, X., Lin,W-W., Ma, M., Byeon, S.K., Pandey, A., Lange, L., Shaw, C., Kim, J., Trinh, J., Klein, C., Kanca, O., Shulman, J.M. and **Bellen, H.J.** 2026. Two lysosomal genes

ATP13A2 and GBA1 interact to drive neurodegeneration. ***Molecular Neurodegeneration,*** in review.

369. Lu, S., Ma, M., Hannan, S.B., Goodman, L.D., Deng, M., Pan, X., Dutta, D., Rosenfeld, J., Luo, X., Liu, Z., Shulman, J.M., and **Bellen, H.J.** 2026. Digenic variants that affect an actin-mitochondria-glutamate pathway cause epileps. ***Journal of Clinical Investigation,*** in review.

BOOKS, BOOK REVIEWS, COURSES

1. **Bellen, H.J.** 1979. (Published Thesis) *Het sociaal welzijn in België (Social Welfare in Belgium).* Editor: National Fund of Scientific Research: University of Antwerp (RUCA), Antwerp, Belgium, 221p.
2. **Bellen, H.J.** 1980. (Course) *Cursus Genetica met Woordenlijst (Genetics: A textbook).* Editors: H.J. Bellen and J. Leroy: Student Publication Service of the University of Antwerp (RUCA), Antwerp, Belgium, 208p.
3. **Bellen, H.J.** 1999. (Editor Book) Neurotransmitter release. *In* Frontiers in Molecular Biology. Oxford University Press, New York, 437p. Reviewed in *Cell* (2000) 101:21-23.
4. **Bellen, H.J.** 2000. (Book Review) The fruitfly neuromuscular junction flexes its muscle. *Cell* 101:141-143.
5. **Bellen, H. J.** 2008. The development of the peripheral nervous system in the fruitfly *Drosophila*. *In* The Legacy of *Drosophila* Genetics: From 'defining the gene' to 'analyzing genome function'. Editor: E. Bier. The Biomedical & Life Sciences Collection, Henry Stewart Talks Ltd, London (online at http://www.hstalks.com/?t=BL0341680-Bellen).
6. **Bellen, H.J.** and S. Yamamoto. 2014. (Editor Book) Notch signalling: Methods and Protocols. *In* Methods in Molecular Biology. Humana Press, New York, vol. 1187, 351p.

INVITED SEMINARS/SYMPOSIA SINCE 2000

"Genetic dissection of neurotransmitter release", Department of Molecular Pharmacology and Biological Chemistry, Northwestern University Medical School, Chicago, IL, January 2000

"The genetic basis of hearing, balance, and the sixth sense", Department of Cell Biology, Emory University School of Medicine, Atlanta, GA, April 2000

"The genetic basis of hearing, balance, and the sixth sense", Department of Anatomy, Morehouse School of Medicine, Atlanta, GA, April 2000

"Senseless is necessary and sufficient for PNS development in fruit flies", HHMI Scientific Meeting, Chevy Chase, MD, May 2000

"Genetic dissection of neurotransmitter release in fruit flies", Symposium of the Juan March Foundation, Madrid, Spain, May 2000

"The genetic basis of hearing, balance, and the sixth sense", Department of Human Genetics, University of Alabama at Birmingham, AL, June 2000

"Senseless is necessary and sufficient for peripheral nervous system organ development in *Drosophila*", EMBO 12th International Workshop on the Molecular and Developmental Biology of *Drosophila*, Kolymbari, Crete, Greece, June 2000

"Genetic dissection of neurotransmitter release", Joint Meeting of the American and Scandinavian Physiological Societies, Stockholm, Sweden, August 2000

"The genetic basis of hearing, balance, and the sixth sense", National Network in Neuroscience, Uppsala, Sweden, August 2000

"The genetic basis of hearing, balance, and the sixth sense", Department of Neurosciences, Case Western Reserve University, Cleveland, OH, October 2000

"The genetic basis of hearing, balance, and the sixth sense", Division of Neuroscience, The Children's Hospital, Harvard Medical School, Boston, MA, October 2000

"The genetic basis of hearing, balance, and the sixth sense", Department of Biology, Brandeis University, Waltham, MA, November 2000

"The genetic basis of hearing, balance, and the sixth sense", Department of Molecular Genetics, Albert Einstein College of Medicine, Bronx, NY, November 2000

"The genetic basis of hearing, balance, and the sixth sense", Department of Cell Biology, Duke University Medical Center, Durham, NC, April 2001

"Does vesicle trafficking affect pattern formation and development?" Center for Human Genetics, Flanders Interuniversity Institute for Biotechnology (VIB), University of Leuven, Belgium, May 2001

"The genetic basis of hearing, balance, and the sixth sense", HHMI Scientific Meeting, Chevy Chase, MD, September 2001

"The genetic basis of hearing, balance, and the sixth sense", Department of Molecular and Human Biology, Baylor College of Medicine, Houston, TX, September 2001

"The genetic basis of hearing, balance, and the sixth sense", Keynote Speaker, Southwest Regional Meeting for the Society for Developmental Biology, New Orleans, LA, September 2001

"The genetic basis of hearing, balance, and the sixth sense", Neurobiology of *Drosophila* Meeting, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, October 2001

"Genetic dissection of vesicle trafficking", Institute of Neurological Sciences, University of Pennsylvania, Philadelphia, PA, October 2001

"The genetic basis of hearing, balance, and the sixth sense", Centre National de Recherche Scientifique, University of Louis Pasteur, Strasbourg, France, November 2001

"Genetic dissection of vesicle trafficking", Max-Planck-Institute of Molecular Cell Biology and Genetics, Dresden, Germany, November 2001

"The role of endocytosis in synaptic vesicle formation and signaling", Neuroscience Discussion Group, Department of Zoology, University of British Columbia, Vancouver, Canada, May 2002

"The role of endocytosis in synaptic vesicle formation and developmental signaling pathways", Department of Molecular Genetics, Flanders Interuniversity Institute for Biotechnology (VIB), University of Antwerp, Belgium, June 2002

"The role of endocytosis in synaptic vesicle formation and developmental signaling pathways", Center for Human Genetics, Flanders Interuniversity Institute for Biotechnology (VIB), University of Leuven, Belgium, June 2002

"The role of Senseless in peripheral nervous system development", EMBO 13th International Workshop on the Molecular and Developmental Biology of *Drosophila*, Kolymbari, Crete, Greece, June 2002

"Defining the molecular path of neuronal precursor selection in flies and mice", Department of Molecular and Human Genetics, Baylor College of Medicine, Houston, TX, September 2002

"Defining the molecular path of neuronal precursor selection in flies and mice", Department of Human Genetics, University of Utah, Salt Lake City, UT, October 2002

"Defining the molecular path of neuronal precursor selection in flies and mice", Blaffler Lecture, MD Anderson Cancer Research Center, Houston, TX, November 2002

"The role of endocytosis in synaptic vesicle formation and developmental signaling pathways", Department of Life Science, National Taiwan University, Taipei, Taiwan, November 2002

"Defining the molecular path of neuronal precursor selection in flies and mice", Institute of Molecular Biology, Academia Sinica, Taipei, Taiwan, November 2002

"Defining the molecular path of neuronal precursor selection in flies and mice", Department of Physiology & Biophysics, University of Arkansas, Little Rock, AK, February 2003

"The role of endocytosis in synaptic vesicle formation and developmental signaling pathways", Department of Biochemistry, University of Iowa, Iowa City, IA, March 2003

"Endocytosis: vesicle formation and developmental signaling", Department of Biological Sciences, University of Illinois, Chicago, IL, April 2003

"Endocytosis: vesicle formation and developmental signaling", Department of Genetics, Cell Biology, and Development, University of Minnesota, Minneapolis, MN, May 2003

"Endophilin recruits Synaptojanin to uncoat vesicles", Genetics Society of Canada, Halifax, Canada, June 2003

"Senseless functions as a binary switch", Canadian *Drosophila* Meeting, Halifax, Canada, June 2003

"Wingless signaling at endosomes", European Meeting on Endocytosis, Maratea, Italy, September 2003

"Molecular mechanisms of neurotransmitter release in fruit flies", Boerhringer Ingelheim Fonds International Titisee Conferences, Göttingen, Germany, October 2003

"Wingless signaling at endosomes", Department of Cell Biology, Johns Hopkins University, Baltimore, MD, December 2003

"Defining the function of proteins required for neurotransmitter release", Department of Physiology, University of California, San Francisco, CA, December 2003

"The genome disruption project", Ernest Orlando Lawrence Berkeley National Laboratory, University of California, Berkeley, CA, January 2004

"Defining the function of proteins required for neurotransmitter release", Picower Center for Learning and Memory, Massachusetts Institute of Technology, Cambridge, MA, February 2004

"Vesicle trafficking in *Drosophila*: from neurotransmission to development", HHMI Scientific Meeting, Chevy Chase, MD, March 2004

"Wingless signaling at endosomes", Department of Biochemistry and Cell Biology, and Vanzant Lecture Series, Rice University, Houston, TX, April 2004

"Defining the function of proteins required for neurotransmitter release", Program in Developmental Neurobiology and Plasticity, Kennedy Center for Research on Human Development, Vanderbilt University, Nashville, TN, May 2004

"Defining the function of proteins required for neurotransmitter release", Department of Molecular and Cellular Physiology, Stanford University School of Medicine, Stanford, CA, May 2004

"The role of Senseless in peripheral nervous system development", EMBO 14th International Workshop on the Molecular and Developmental Biology of *Drosophila*, Kolymbari, Crete, Greece, June 2004

"The role of dap160/intersectin in endocytosis", Gordon Conference on Lysosomes and Endocytosis, Andover, NH, June 2004

"Genetic and molecular mechanisms of synaptic transmission", Department of Cell and Molecular Physiology and the Neuroscience Center of UNC, University of North Carolina, Chapel Hill, NC, September 2004

"The GPS (Gfi1, Pag-3, Senseless) transcription factor family in nervous system development, lung cancer, cell survival, and ....", Department of Molecular and Cellular Biology, Baylor College of Medicine, Houston, TX, September 2004

"The role of the Vo100kD V-ATPase subunit in synaptic vesicle secretion", Max Planck Institute, Gottingen, Germany, October 2004

"The role(s) of the exocyst in neurons: Lessons from sec15 in neural specification and synaptic specificity", Department of Biochemistry, University of Washington, Seattle, WA, November 2004

"Specifying neuronal precursors: Senseless and the bHLH proneural protein", Department of Biochemistry & Molecular Biophysics, Columbia University Medical Center, New York, NY, December 2004

"The GPS (Gfi1, Pag-3, senseless) transcription factors: roles in nervous system development and cancer", National Cancer Institute-Frederick, National Institutes of Health, Frederick, MD, December 2004

"Endocytosis: proteins required for kiss and run versus clathrin mediated processes", National Institutes of Environmental Health Science, National Institutes of Health, Research Triangle Park, NC, December 2004

"The role of the v-ATPase V_0 complex in neurotransmission", Department of Neurobiology, Harvard Medical School, Boston, MA, January 2005

"The GPS (Gfi1, Pag-3, senseless) transcription factors: roles in nervous system development and cancer", Department of Genetics, Case Western Reserve University, Cleveland, OH, February 2005

"The v-ATPase V_0 subunit a1 is required for a late step in synaptic vesicle exocytosis", Committee on Neuroscience, University of Arizona, Tucson, AZ, March 2005

"The Senseless and Gfi1 transcription factors in fly nervous system development and human ataxia: from proneural proteins to cell survival", Department of Molecular and Human Genetics, Baylor College of Medicine, Houston, TX, September 2005

"The GPS (Gfi1, Pag-3, senseless) transcription factors: roles in nervous system development and cancer", Department of Neuroscience, Institut de Recherches Cliniques de Montréal, Montréal, Canada, September 2005

"The GPS (Gfi1, Pag-3, senseless) transcription factors: roles in nervous system development and cancer", Institut du cancer de Montréal, Canada, September 2005

"The Senseless and Gfi1 transcription factors in fly and mouse nervous system development, oncogenesis, and ataxia", Academia Sinica, Taipei, Taiwan, November 2005

"The role of the v-ATPase V_0 complex in neurotransmission", National Yang Ming University, Taipei, Taiwan, November 2005

"Atonal and Math1 in hearing and proprioception", Temasek Life Sciences Laboratory, The National University of Singapore, Temasek Life Sciences Laboratory, Singapore, November 2005

"The Senseless and Gfi1 transcription factors in fly and mouse nervous system development, oncogenesis, and ataxia", Temasek Life Sciences Laboratory, The National Univ. of Singapore, November 2005

"Atonal and Math1 in hearing and proprioception", National Centre for Biological Sciences, Bangalore, India, November 2005

"The role of the v-ATPase V_0 complex in neurotransmission", National Centre for Biological Sciences, Bangalore, India, November 2005

"The Senseless and Gfi1 transcription factors in fly and mouse nervous system development, oncogenesis, and ataxia", The National Centre for Biological Sciences, Tata Institute of Technology, Bangalore, India, November 2005

"The Senseless and Gfi1 transcription factors in fly and mouse nervous system development, oncogenesis, and ataxia", Department of Biological Sciences and Engineering, Indian Institute of Technology, Kanpur, India, November 2005

"Atonal and Math1 in hearing and proprioception", Department of Biological Sciences and Engineering, Indian Institute of Technology, Kanpur, India, November 2005

"The role of the v-ATPase V_0 complex in neurotransmission", Department of Biochemistry, University of Lausanne, Switzerland, November 2005

"Molecular mechanisms of exo- and endocytosis at synapses", Department of Physiology, Columbia University, New York, NY, December 2005

"Molecular mechanisms of exo- and endocytosis at synapses", Department of Cell Biology, Yale University, New Haven, CT, January 2006

"Flies to study mechanisms of neuronal degeneration and protection", Department of Molecular and Human Genetics, Baylor College of Medicine, Houston, TX, February 2006

"Flies to study neuronal degeneration and protection", IBT Information Exchange Seminar Series, Institute of Biosciences and Technology, Houston, TX, April 2006

"Flies to study mechanisms of neuronal degeneration and protection", Plenary talk, Flanders Biotechnology Meeting, Ghent, Belgium, June 2006

"Recombineering, phiC31, Minos, and RMCE in a genome wide approach", EMBO 15th Internat'l Workshop on the Molecular and Developmental Biology of *Drosophila*, Kolymbari, Crete, Greece, June 2006

"Molecular mechanisms of exo and endocytosis at synapses", Gordon Research Conference, Colby Sawyer College, NH, July 2006

"Flies to study neuronal degeneration and protection", Department of Neurology Grand Rounds, Baylor College of Medicine, Houston, TX, August 2006

"Novel players in Notch signaling pathway", Department of Molecular Biology and Pharmacology, Washington University School of Medicine, St. Louis, MO, October 2006

"Novel players in Notch signaling pathway", Department of Cell Biology, The University of Alabama at Birmingham, AL, October 2006

"Mechanisms of neuronal degeneration and protection", National Institute of Neurological Disorders and Stroke, National Institutes of Health, Bethesda, MD, November 2006

"Flies to study mechanisms of neural development", The Francis Schmitt Lecture in the Life Sciences, Department of Biology, Massachusetts Institute of Technology, Boston, MA, November 2006

"Genome-wide approaches to manipulate flies", and "Novel players in Notch signaling", Division of Biological Sciences, University of California, San Diego, CA, December 2006

"Three novel players in Notch signaling", Developmental Genetics Program, Skirball Institute of Biomolecular Medicine, New York University School of Medicine, NY, January 2007

"Flies to study neuronal degeneration and protection", HHMI Janelia Farm Research Center, Ashburn, VA, May 2007

"Rumi, a novel O-glucosyl transferase modifies EGF repeats of Notch", HHMI Janelia Farm Research Center, Ashburn, VA, May 2007

"Tweek and Hip 14 in synaptic transmission", Gordon Conference on Excitatory Synapses and Brain Function, Colby-Sawyer College, New London, NH, June 2007

"Novel players in Notch signaling", First Pan American Congress in Developmental Biology Meeting, Cancun, Mexico, June 2007

"Genome-wide approaches to manipulate flies", University of Minnesota 5th Annual International Conference on Transposition and Animal Biotechnology, Minneapolis, MN, June 2007

"Tweek and Hip 14 in synaptic transmission", Plenary Speaker, Vesicle Recycling Meeting, Brisbane, Australia, July 2007

"Genome-wide approaches to manipulate flies", University of Melbourne, Australia, July 2007

"Novel players in Notch signaling", Australian National University, Canberra, Australia, July 2007

"Rumi: O-glucosyltransferase required for Notch signaling", The Notch Meeting, Athens, Greece, Sept. 2007

"A genome-wide approach to manipulate flies", Improving the Genetic Toolkit for *Drosophila* Conference, HHMI Janelia Farm Research Center, Ashburn, VA, October 2007

"Novel proteins required for synaptic transmission", Keynote Speaker, Department of Physiology Retreat, University of Texas Health Science Center at San Antonio, TX, October 2007

"Lou Gehrig, ALS, flies, *C. elegans* and ephrin receptors share common features: a possible mechanism for the pathogenesis of ALS", Department of Molecular and Human Genetics, Baylor College of Medicine, Houston, TX, October 2007

"Lou Gehrig, ALS, flies, *C. elegans* and ephrin receptors share common features: a possible mechanism for the pathogenesis of ALS", Institute for Molecular Medicine, Houston, TX, December 2007

"Genome-wide approaches to manipulate flies", Genetics Society of America Meeting, San Diego, CA, January 2008

"Genome-wide approaches to manipulate flies", Department of Pharmacology, University of California, Los Angeles, CA, January 2008

"Lou Gehrig, ALS, flies, *C. elegans* and ephrin receptors share common features: a possible mechanism for the pathogenesis of ALS", Department of Pharmacology, University of California, Los Angeles, CA, January 2008

"Lou Gehrig, ALS, flies, *C. elegans* and ephrin receptors share common features", Carnegie Mellon University, Pittsburgh, PA, February 2008

"Lou Gehrig, ALS, flies, *C. elegans* and ephrin receptors share common features", HHMI Development meeting, Bethesda, MD, March 2008

"Lou Gehrig, ALS, flies, *C. elegans* and ephrin receptors share common features", Program in Neuro- biology, University of Southern California, Los Angeles, CA, April 2008

"Lou Gehrig, ALS, flies, *C. elegans* and ephrin receptors share common features", A.L. Chapman keynote lecturer, 29th Annual KUMC Student Research Forum, University of Kansas Medical Center, Kansas City, MO, April 2008

"Genome-wide approaches to manipulate flies", EMBO 16th International Workshop on the Molecular and Developmental Biology of *Drosophila*, Kolymbari, Crete, Greece, June 2008

"Lou Gehrig, ALS, flies, *C. elegans* and ephrin receptors share common features", XXth International Genetics Meeting, Berlin, Germany, July 2008

"Probing the function of genes that cause Amyotrophic Lateral Sclerosis", Institute of Genetics and Biophysics "Adriano Buzzati-Traverso", Consiglio Nazionale delle Ricerche, Naples, Italy, Oct. 2008

"Probing the function of genes that cause Amyotrophic Lateral Sclerosis", Department of Immunology, University of Ghent, Belgium, October 2008

"Novel players in the Notch pathway", Dept. of Immunology, University of Ghent, Belgium, October 2008

"Probing the mechanisms that cause Amyotrophic Lateral Sclerosis", Flanders Interuniversity Institute for Biotechnology (V.I.B.), University of Leuven, Department of Molecular and Developmental Genetics, Center for Human Genetics Laboratory of Neuronal Communication, Leuven, Belgium, October 2008

"New pathways and growth cone guidance receptors in the pathogenesis of ALS/Lou Gehrig's disease", Dept. of Molecular and Human Genetics, Baylor College of Medicine, Houston, TX, October 2008

"Probing the mechanisms that cause Amyotrophic Lateral Sclerosis", Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, December 2008

"Probing the mechanisms that cause Amyotrophic Lateral Sclerosis", Weizman Institute, Rehovot, Israel, December 2008

"Probing the mechanisms that cause Amyotrophic Lateral Sclerosis", Hebrew University, Jerusalem, Israel, December 2008

"Probing the mechanisms that cause Amyotrophic Lateral Sclerosis", Rappaport Institute, Technion, Haifa, Israel, December 2008

"Molecular pathology of Lou Gehrig's disease (ALS), a fly's view", Neuroscience Seminar Series, University of California, San Diego, CA, January 2009

"Growth cone guidance receptors and the pathogenesis of ALS/Lou Gehrig's Disease", Stowers Institute for Medical Research, Kansas City, MO, February 2009

"Novel Genome-wide Approaches to Manipulate Flies", Stowers Institute for Medical Research, Kansas City, MO, February 2009

"Expanding the coverage and versatility of the Gene Disruption Project collection", 50th Annual *Drosophila* Research Conference, Chicago, IL, March 2009

"Novel proteins that affect synaptic transmission", Freiburg Institute for Advanced Studies, Germany, March 2009

"Probing the mechanisms that cause Amyotrophic Lateral Sclerosis: an invertebrate viewpoint", Freiburg Institute for Advanced Studies, Germany, March 2009

"Pathogenesis of Lou Gehrig's disease/ALS: a Vap viewpoint", Walter Gehring's Symposium, University of Basel, Switzerland, March 2009

"The mitochondrial methionyl-tRNA synthetase's role in neurodegeneration", Keystone Symposia X6 on Mitochondrial Dynamics and Physiology, Whistler, British Columbia, Canada, March 2009

"Genome-wide manipulations of fruit flies: novel technologies" and "Probing the mechanisms that cause Amyotrophic Lateral Sclerosis", Biological Sciences Seminar Series, University of Missouri, Columbia, MO, April 2009

"Novel players in synaptic transmission", Biological Sciences, Rutgers University, NJ, September 2009

"Novel players in the Notch pathway", Notch Meeting, Athens, Greece, September 2009

"Tools for genome wide manipulations", Fly Tool Kit Meeting, HHMI Janelia Farm Center, Ashburn, VA, October 2009

"Pathogenesis of Lou Gehrig's disease/ALS: a Vap viewpoint", Developmental Biology Section, Institut Pasteur, Paris, France, November 2009

"Tools for genome wide manipulations", European *Drosophila* Research Conference, Nice, France, Nov. 2009

"Pathogenesis of Lou Gehrig's disease/ALS: a Vap viewpoint", Developmental Biology Section, University of the Bosphorus, Istanbul, Turkey, November 2009

"Molecular mechanisms of endocytosis at synapses", Department of Physiology, University of Texas Southwestern Medical Center, Dallas, TX, January 2010

"A forward genetic approach to study neurodegeneration", Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, March 2010

"Novel Players in the Notch Pathway", President's Research Seminar Series, Memorial Sloan-Kettering Cancer Center, New York, NY, March 2010

"Novel proteins that affect synaptic transmission", Keynote Lecture, Protein Trafficking Symposium, Hamburg, Germany, May 2010

"Tools for genome wide manipulations of flies", Korean Advanced Institute for Science and Technology, Dajun, Korea, June 2010

"Molecular mechanisms of endocytosis at synapses", Korean Advanced Institute for Science and Technology, Dajun, Korea, June 2010

"Tools for genome wide manipulations of flies", EMBO 17th International Workshop on the Molecular and Developmental Biology of *Drosophila*, Kolymbari, Crete, Greece, June 2010

"Mitochondria and neurodegeneration", Texas Children's Hospital Grand Rounds, Baylor College of Medicine, Houston, TX, August 2010

"Mitochondria and neurodegeneration: the X-flies", Department of Molecular and Human Genetics, Baylor College of Medicine, Houston, TX, September 2010

"Mitochondria and neurodegeneration: the X-flies", Department of Biology, University of Dayton, Dayton, OH, September 2010

"Novel players in the Notch signaling pathway", Notch meeting, Athens, Greece, October 2010

"Players that affect endocytosis at synapses", Dept. of Biology, University of Houston, TX, October 2010

"Tools for genome wide manipulations of flies", Department of Biological Chemistry, John Hopkins University, Baltimore, MI, November 2010

"Mitochondria and neurodegeneration: the X-flies", Department of Biological Chemistry, Johns Hopkins University, Baltimore, MI, November 2010

"ALS, mitochondria and neurodegeneration", Academia Sinica, Taipei, Taiwan, January 2011

"ALS, mitochondria and neurodegeneration", National Taiwan University, Taipei, Taiwan, January 2011

"ALS, mitochondria and neurodegeneration", National Health Research Institutes (NHRS), Taipei, Taiwan, January 2011

"ALS, mitochondria and neurodegeneration", The 2nd Batsheva Seminar on Integrative Perspectives on the Development of the Musculoskeletal System, Ein Gedi, Israel, February 2011

"ALS, mitochondria and neurodegeneration", Department of Biology, California Institute of Technology, March 2011

"ALS, mitochondria and neurodegeneration", University of Texas Southwestern Medical Center, Dallas, TX, April 2011

"ALS, mitochondria and neurodegeneration", Instituto de Neurociencias CSIC-UMH, Alicante, Spain, May 2011

"ALS, mitochondria and neurodegeneration", Development and Growth Control Laboratory, ICREA and IRB, Barcelona, Spain, May 2011

"Tools for genome wide manipulations of flies", Development and Growth Control Laboratory, ICREA and IRB, Barcelona, Spain, May 2011

"Novel players in the Notch signaling pathway", EMBO Workshop Frontiers in Sensory Development, Barcelona, Spain, May 2011

"ALS, mitochondria and neurodegeneration", President's Lecture Series, Sanford Burnham Medical Research Institute, San Diego, CA, September 2011

"ALS, mitochondria and neurodegeneration", Pediatric Neurology Seminar, Baylor College of Medicine, September 2011

"Novel players in Notch signaling", The Notch Meeting, Athens, Greece, October 2011

"ALS, mitochondria and neurodegeneration", Distinguished Alumnus Lecture, University of California, Davis, October 2011

"Amyotrophic Lateral Sclerosis: Molecular pathogenesis", Beach Distinguished Lectures, Department of Biochemistry, Purdue University, West Lafayette, IN, October 2011

"Mitochondria and neurodegeneration", Beach Distinguished Lectures, Department of Biochemistry, Purdue University, West Lafayette, IN, October 2011

"ALS, mitochondria and neurodegeneration", Texas A&M Univ., College Station, TX, November 2011

"ALS, mitochondria and neurodegeneration", Division of Biological Sciences, University of California, San Diego, December 2011

"ALS, mitochondria and neurodegeneration", Pediatric Neurology Grand Rounds, Texas Children's Hospital, Houston, TX, January 2012

"Engineering flies", Department of Molecular and Human Genetics Annual Retreat, Baylor College of Medicine, Houston, TX, January 2012

"ALS, mitochondria and neurodegeneration", Department of Neuroscience, Farber Institute of Neuroscience, Thomas Jefferson University, Philadelphia, PA, March 2012

"Engineering flies", Plenary Speaker, 53rd Annual *Drosophila* Research Conference, Chicago, IL, March 2012

"ALS, mitochondria and neurodegeneration", HHMI Janelia Farm Res. Campus, Ashburn, VA, March 2012

"Mitochondria and neurodegeneration", Howard Hughes Medical Institute, Chevy Chase, MD, March 2012

"Mitochondria and neurodegeneration", The Rockefeller University, New York, NY, March 2012

"ALS, mitochondria and neurodegeneration", Department of Molecular Biosciences, Northwestern University, Evanston, IL, April 2012

"ALS, mitochondria and neurodegeneration", Institut de Recherche d'Immunologie et du Cancer (IRIC), Montreal, Canada, April 2012

"The X-flies and neurodegeneration", Montreal Neurological Research Institute, Canada, May 2012

"Mitochondria and neurodegeneration", Department of Ophthalmology, John Hopkins University School of Medicine, Baltimore, MD, May 2012

"Growth cone guidance receptors regulate mitochondrial dynamics in muscles via VapB: implications for ALS", Society for Muscle Biology Meeting on Development, Function and Repair of the Muscle Cell, New York, NY, June 2012

"Tools for genome wide manipulations of flies", EMBO 18th International Workshop on the Molecular and Developmental Biology of *Drosophila*, Kolymbari, Crete, Greece, June 2012

"Notch EGFR-8 is required for Serrate/Jagged binding and Rab mediated trafficking of Delta and Scabrous", Gordon Research Conference on Notch Signaling in Development, Regeneration & Disease, Lewiston, ME, August 2012

"ALS, mitochondria and neurodegeneration", The Gill Award Lecture at Indiana University, Bloomington, IN, October 2012

"Engineering flies", Department of Biology, Indiana University, Bloomington, IN, October 2012

"ALS, mitochondria and neurodegeneration", Department of Molecular and Human Genetics, Baylor College of Medicine, Houston, TX, October 2012

"Photoreceptor degeneration and novel trafficking pathways", Department of Molecular and Cellular Biology, Baylor College of Medicine, Houston, TX, October 2012

"Growth cone guidance receptors regulate mitochondrial dynamics in muscles via VapB: implications for ALS", Institute of Neuroscience, Shanghai, China, October 2012

"Growth cone guidance receptors regulate mitochondrial dynamics in muscles via VapB: implications for ALS", Zhejiang University, Hangzhou, China, October 2012

"The X-flies and neurodegeneration", Zhejiang University, Hangzhou, China, October 2012

"ALS, mitochondria and neurodegeneration", Chinese Academy of Science, Beijing, China, November 2012

"ALS, mitochondria and neurodegeneration", Tsinghua University, Beijing, China, November 2012

"Growth cone guidance receptors regulate mitochondrial dynamics in muscles via VapB: implications for ALS", Peking University, Beijing, China, November 2012

"MiMIC technology", HHMI Janelia Farm Research Campus, Ashburn, VA, March 2013

"Engineering Flies", Flanders Interuniversity Institute for Biotechnology (V.I.B.), University of Leuven, Department of Molecular and Developmental Genetics, Center for Human Genetics Laboratory of Neuronal Communication, Leuven, Belgium, April 2013

"Mitochondria and neurodegeneration", Department of Life Science, National Taiwan University, Taipei, Taiwan, May 2013

"Growth cone guidance receptors regulate mitochondrial dynamics in muscles via VapB: implications for ALS", Institute of Biochemistry, Academia Sinica, Taipei, Taiwan, May 2013

"Growth cone guidance receptors regulate mitochondrial dynamics in muscles via VapB: implications for ALS", National Health Research Institutes, Department of Life Sciences, Taiwan, May 2013

"Engineering flies", Asian Pacific *Drosophila* Research Conference, Seoul, Korea, May 2013

"ALS, mitochondria and neurodegeneration", Genetics Society of Australia, Sydney, Australia, July 2013

"Mitochondria and neurodegeneration", Garvan Institute, Sydney, Australia, July 2013

"Engineering flies", Australian Insect Research Conference, Sydney, Australia, July 2013

"Mitochondria and neurodegeneration", Department of Molecular and Human Genetics, Baylor College of Medicine, Houston, TX, September 2013

"Mitochondria and neurodegeneration", Flanders Interuniversity Institute for Biotechnology (V.I.B.), University of Leuven, Department of Molecular and Developmental Genetics, Center for Human Genetics Laboratory of Neuronal Communication, Leuven, Belgium, October 2013

"Novel players in the Notch signaling pathway", The Notch Meeting, Athens, Greece, October 2013

"Mitochondria and neurodegeneration", Biochemistry Seminar Series, University of California, San Francisco, CA, November 2013

"Engineering Flies", University of California, San Francisco, CA, November 2013

"Mitochondria and neurodegeneration", National Institutes of Health, Bethesda, MD, December 2013

"Mitochondria and neurodegeneration", Columbia University, New York, NY, December 2013

"Growth cone guidance receptors regulate mitochondrial dynamics in muscles via VapB: implications for ALS", Columbia University, New York, NY, December 2013

"Mitochondria and neurodegeneration", Cell Press LabLinks: Human Genetics, Methodist Research Institute, Houston, TX, January 2014

"The X-Flies: Unraveling disease mechanisms through forward genetics", Genomic Disorders 2014: The Genomics of Rare Diseases, Cambridge, UK, March 2014

"Engineering Flies", University of Cambridge, UK, March 2014

"VapB, ALS and ER stress", Target ALS Meeting, Columbia University, New York, NY, April 2014

"Mitochondria and neurodegeneration", Veterinary Sciences, Texas A&M Univ,, College Station, April 2014

"Mitochondria and neurodegeneration", Department of Molecular Biology and Genetics, Cornell University, Ithaca, NY, May 2014

"Engineering Flies", Dept. of Molecular Biology and Genetics, Cornell University, Ithaca, NY, May 2014

"Mitochondria and neurodegeneration", Colorado *Drosophila* Club, Univ. of Colorado at Boulder, June 2014

"The Demise of Neurons", Howard Hughes Medical Institute, Chevy Chase, MD, July 2014

"The Demise of Neurons", HHMI Farm Research Campus, Ashburn VA, September 2014

"The Demise of Neurons", The Notch Meeting VIII, Athens, Greece, September 2014

"The Demise of Neurons", Protein Trafficking Symposium, Eppendorf, Germany, September 2014

"Engineering Flies", FliAct, Leuven, Belgium, November 2014

"The Demise of Neurons", Flanders Interuniversity Institute for Biotechnology (VIB), University of Leuven, Belgium, November 2014

"The Demise of Neurons", Neuroscience Seminar Series, University of Massachusetts, Worchester, MA, December 2014

"Engineering Flies", University of Massachusetts, Worchester, MA, December 2014

"CRISPRING MIMICs", 56th Annual *Drosophila* Research Conference, Chicago, IL, March 2015

"Mitochondria and neurodegeneration", Genetics Section, Univ. of Florida, Gainesville, FL, March 2015

"Mitochondria and neurodegeneration", Zikha Neurogenetic Institute, University of Southern California, Los Angeles, CA, April 2015

"Proteins that cause ER stress and ALS in *Drosophila*", Target ALS Meeting, Columbia Univ., NY, April 2015

"Mitochondria and neurodegeneration", Keynote Lecture, University-wide 2015 Health Sciences Research Week, University of Iowa Carver College of Medicine, Iowa City, IO, April 2015

"Mitochondria and neurodegeneration", Department of Genetics, Yale School of Medicine, New Haven, CT, April 2015

"Engineering Flies", Bio21 Molecular Science & Biotechnology Institute, University of Melbourne, Australia, May 2015

"What flies tell us about human neurodegenerative diseases", Miegunyah Fellowship Lecture, University of Melbourne, Australia, May 2015

"Mitochondria and neurodegeneration", LaTrobe University, Melbourne, Australia, May 2015

"Mechanisms underlying the demise of neurons in ALS", Florey Institute of Neuroscience (Parkville), Melbourne, Australia, May 2015

"Mitochondria and neurodegeneration", Florey Institute of Neuroscience (Austin), Melbourne, Australia, May 2015

"Mechanisms underlying the demise of neurons and the role on WAC in mTOR signaling", Peter Maccallum Institute, Melbourne, Australia, June 2015

"Mechanisms underlying the demise of neurons in Friedreich's Ataxia", Monash University, Melbourne, Australia, June 2015

"Mechanisms underlying the demise of neurons", Developmental Genetics and Stem Cell Biology Programs, Skirball Institute, New York University School of Medicine, NY, October 2015

"Funding resources and technology needs for the *Drosophila* community", Workshop, HHMI Janelia Farm Research Campus, Ashburn, VA, February, 2016

"Mechanisms underlying the demise of neurons", HUGO Human Genome Meeting, Houston, TX, Feb. 2016

"Mechanisms underlying the demise of neurons", Neuroscience Institute, University of Tennessee Health Science Center, Memphis, TN, March 2016

"Mechanisms underlying the demise of neurons", Department of Developmental and Regenerative Biology, Icahn School of Medicine, Mount Sinai, NY, April 2016

"Mechanisms underlying the demise of neurons", Department of Entomology, University of Maryland, College Park, MD, April 2016

"Mechanisms underlying the demise of neurons", HHMI Scientific Meeting, Maryland, MD, April 2016

"Mitochondria, lactate, and lipid droplets in neurodegeneration", Institute of Neuroscience, University of Oregon, Eugene, OR, May 2016

"Mitochondria and the demise of neurons", The Vollum Seminar Series, Vollum Institute, Oregon Health & Science University, Portland, OR, May 2016

"Mitochondria, lactate, and lipid droplets in neurodegeneration", Clinical and Translational Science Institute (CTSI), David Geffen School of Medicine, Univ. of California, Los Angeles, CA, May 2016

"Mitochondria, lactate, and lipid droplets in neurodegeneration", The Edward J. Masoro Distinguished Lecture, Department of Physiology Research Symposium, University of Texas Health Science Center, San Antonio, TX, May 2016

"Mitochondria, lactate, and lipid droplets in neurodegeneration", Plenary talk, FASEB Science Research Conf., "Lipid Droplets: Dynamic Organelles in Metabolism and Beyond", Snowmass, CO, July 2016

"Mitochondria, lactate, and lipid droplets in neurodegeneration", Plenary talk, Gordon Research Conference on Visual System Development, Mount Snow, West Dover, VT, August 2016

"The fly eye as a discovery tool for human neurodegenerative disease", Gill Symposium on Glia, Linda and Jack Gill Center for Biomolecular Science, Indiana University, Bloomington, IN, September 2016

"The role of mitochondria, glia, and lipid droplets n the demise of neurons", Keynote Lecture, Gill Symposium on Glia, Linda and Jack Gill Center for Biomolecular Science, Indiana University, Bloomington, IN, September 2016

"Mitochondria, lactate, and lipid droplets in neurodegeneration", Developmental Genomics Section, Translational and Functional Genomics Branch, National Human Genome Research Institute, National Institutes of Health, Bethesda, MD, September 2016

"Mitochondria, lactate, and lipid droplets in neurodegeneration", Department of Cell Biology, University of Texas Southwestern Medical Center, Dallas, TX, October 2016

"Mitochondria, lactate, and lipid droplets in neurodegeneration", Graduate Seminar Talk, Department of Biology and Biotechnology, Worcester Polytechnic Institute, Worcester, MA, October 2016

"The fly to study disease associated variants", UDN Meeting, Washington, DC, November 2016

"The fly to study disease associated variants", International UDN Meeting, Tokyo, Japan, November 2016

"Flies as a discovery tool for human diseases", John Lawrence Seminar Series in Biosciences, Biological System & Engineering Division of Lawrence Berkeley National Laboratory, CA, December 2016

"Flies to study disease associate variants and pathogenic mechanisms", Program in Developmental Biology, Baylor College of Medicine, Annual Retreat, Galveston, TX, February 2017

"The Undiagnosed Diseases Network and the discovery of new human genes", Alliance for Genome Resources (AGR), National Institute of Neurological Disorders and Stroke, National Institutes of Health, Bethesda, MD, March 2017

"Mitochondria, lactate, and lipid droplets in neurodegeneration", Regulatory Networks in Health and Disease Seminar Series, Duke University, Durham, NC, March 2017

"Mechanisms underlying the demise of neurons", Vollum Institute, Oregon Health & Science University, Portland, OR, March 2017

"Re-engineering flies", 58th Annual *Drosophila* Research Conference, San Diego, CA, April 2017

"Mitochondria, lactate, and lipid droplets in neurodegeneration", Cell and Developmental Biology Seminar Series, University of Michigan, Ann Arbor, MI, April 2017

"Flies as a diagnostic tool for human disease in the Undiagnosed Diseases Network and for deciphering pathogenesis", Genetics Training Program and CMB Short Course Seminar, University of Michigan, Ann Arbor, MI, April 2017

"Re-engineering flies", Vollum Institute, Oregon Health & Science University, Portland, OR, May 2017

"Mitochondria, lactate, and lipid droplets in neurodegeneration", Keynote Speaker, 2017 Triangle Fly Symposium (NCSU, Duke, NCU), McKimmon Center, North Carolina State University, Raleigh, NC, May 2017

"Mitochondria, lactate, and lipid droplets in neurodegeneration", European School of Molecular Medicine (SEMM), Institute of Molecular Oncology (IFOM), Milan, Italy, June 2017

"Flies to study disease associated variants and pathogenic mechanisms", Protein Trafficking in Health and Disease, 4th International (GRK1459) Symposium, Hamburg, Germany, June 2017

"Mitochondria, lactate, and lipid droplets in neurodegeneration", Distinguished Lecture, Biomedicine Discovery Institute, Monash University, Melbourne, Australia, June 2017

"The Undiagnosed Diseases Network and the discovery of new human genes", Symposium on Model Organisms in Human Health, Balgownie Estate, Yarra Valley, Victoria, Australia, June 2017

"Mitochondria, lactate, and lipid droplets in neurodegeneration", Annual Conference of the Genetics Society of AustralAsia (with the NZ Society for Biochemistry & Molecular Biology), University of Otago, Dunedin, New Zealand, July 2017

"The Model Organism Screening Center in the Undiagnosed Diseases Network", National Institutes of Health Steering Committee Meeting of the UDN, Washington DC, July 2017

"Mitochondria, lactate, and lipid droplets in neurodegeneration", Plenary Lecture at the National Veterinary Scholars Symposium of the Association of American Veterinary Medical Colleges, National Institutes of Health, Washington DC, August 2017

"Mitochondrial dysfunction in neurons: lipid synthesis in neurons versus lipid droplets in glia", Seymour Benzer Keynote Speaker, Neurobiology of *Drosophila* Meeting, Cold Spring Harbor Laboratory, Cold

Spring Harbor, NY, October 2017

"Mitochondria, lactate, and lipid droplets in neurodegeneration", Keynote Lecture, The Inaugural Asia-Pacific Drosophila Neurobiology Conference, Wuhan, China, October 2017

"Flies to identify undiagnosed disease: identifying genes that cause disease and their pathogenic mechanisms", Tongji Medical College, Huazhong University of Science and Technology, Wuhan, China, October 2017

"Mitochondria, lactate, and lipid droplets in neurodegeneration", Keynote Speaker, Neuroscience and Behavioural Disorders Programme and Retreat, Duke-NUS Medical School, Swiss Club, Singapore, October 2017

"Tackling rare disease in flies: A case for Parkinson Disease", Temasek Life Sciences Laboratory (TLL), National University of Singapore, October 2017

"Mitochondria, lactate, and lipid droplets in neurodegeneration", Institute of Molecular Biology (IMB) Symposium, Academia Sinica, Taipei, Taiwan, November 2017

"Mitochondria, lactate, and lipid droplets in neurodegeneration: Implications for Alzheimer Disease", John H. Blaffer Leture Series, MD Anderson Cancer Center, Houston, TX, November 2017

"Drosophila to identify and unravel pathogenic mechanisms of neurologic diseases", Division of Biology Seminar Series and Genetics Seminar Series, University of California, San Diego, December 2017

" Drosophila to identify and unravel pathogenic mechanisms of neurologic diseases", Department of Molecular Medicine Seminar Series, The Scripps Research Institute, La Jolla, CA, January 2018

"Drosophila to unravel pathogenic mechanisms of neurologic diseases: a Zika target and ApoE4 in Alzheimer's Disease", Frontiers in Biology Seminar Series, Department of Biochemistry, Stanford, CA, February 2018

"What flies can tell us about Zika induced microcephaly and the pathogenesis of Alzheimer Disease", Neuroscience Seminar Series, Program in Neuroscience, University of Arizona, Tucson, AZ, March 2018

"Flies tell us something about Zika induced microcephaly and the pathogenesis of Alzheimer Disease", Stanley N. Cohen Lecture, Perelman School of Medicine of the University of Pennsylvania, Philadelphia, PA, May 2018

"Axes of evil: Lipid droplets/ ApoE in AD and retromer/ ceramide in PD", Max Planck Institute, Annual Retreat Schloss Ringberg, Bavaria, Germany, May 2018

"Molecular pathogenesis of neurodegenerative disease modeled in Drosophila", 83rd Cold Spring Harbor Laboratory Symposium on Quantitative Biology addressing Brains & Behavior: Order & Disorder in the Nervous System, Cold Spring Harbor, NY, May/June 2018

"Lipid droplets and pathogenesis of Alzheimer Disease", 'Lipid Droplets and Integrative Physiology' Session, FASEB Lipid Droplet on the Move from Health to Disease Conference, Steamboat Springs, CO, June 2018

"Ceramides in Parkinson's disease", HHMI Scientific Meeting, Janelia Farm Research Campus, Ashburn, VA, September 2018

"Lipid dysfunction in neurodegenerative disease", Institute for Brain and Spinal Cord, Institut du Cerveau et de la Moelle Epiniere (ICM), Paris, France, September 2018

"Lipid dysfunction in neurodegenerative disease", Student Committee on Development, Regeneration, and Stem Cell Biology, University of Chicago, IL, October 2018

"Diagnosing diseases with flies", Department of Molecular and Cellular Biology, Baylor College of Medicine, Houston, TX, November 2018

"Gene discovery mediated by the Drosophila Model Organism Screening Center", Functional Genomics Symposium, Sidra Medicine's flagship Annual Conference, Doha, Qatar, December 2018

"Current state of the art: Functional data, analysis and interpretation", National Human Genome Research Institute, Strategic Planning Workshop: From Genome to Phenotype: Genomic Variation Identifica-tion, Association, and Function in Human Health and Disease, Bethesda, MD, January 2019

" Probing the role of glial endocytic genes and ROS on AB42-induced neurotoxicity", Texas Alzheimer's Research and Care Consortium (TARCC), Austin, TX, January 2019

"Identification and pathogenic mechanisms of human disease using Drosophila", Harvard Medical School, Department of Genetics and Division of Genetics and Genomics, Boston Children's Hospital, Feb. 2019

"How flies contribute to the discovery of human disease and their pathogenic mechanism", Opening Lecture at the Grand Conference of the Academie des Sciences, Insects: friends, foes and models, Institut de France, Paris, March 2019

"Lipids and the demise of neurons", Keynote Speaker at the Chicago Chapter of Society for Neuroscience, Chicago, IL April 2019

"Peroxidated lipids and ceramides in neurodegenerative disease", NINDS Neuroscience Seminar Series, Bethesda, MD, May 2019

"Lipids in neurodegenerative diseases", Keynote Speaker, Colloquium on the Biology of Human Aging, Brown University, Providence, RI, May 2019

"Lipids and the demise of neurons", Department of Molecular and Cellular Biology Seminar Series, Baylor College of Medicine, Houston, TX, October 2019

"Lipids and the demise of neurons", Brains and Behavior Distinguished Lecture Series, Georgia State University, Atlanta, GA, October 2019

"Lipids and the demise of neurons", Formal Research Seminar Series, Buck Institute, Novato, CA, Nov. 2019

"Fruit flies and the diagnoses of rare diseases", BioMarin & Buck Institute, Novato, CA, November 2019

"A Zika virus protein inhibits a novel microcephaly-associated pathway", National Mosquito-Borne Diseases Control Research Center, Nat'l Health Research Institutes (NHRI), Zhunan Campus, Taiwan, Nov. 2019

"Defects in lipid metabolism in Alzheimer and Parkinson disease models", Institute of Biological Chemistry, Academia Sinica, Taipei, Taiwan, November 2019

"Engineering flies", Institute of Biological Chemistry, Academia Sinica, Taipei, Taiwan, November 2019

"The fruit fly at the interface of diagnosis and pathogenic mechanisms of rare and common human disease", National Taiwan University, Taipei, Taiwan, November 2019

"Flies facilitate rare disease diagnosis and therapeutic avenues ", Department of Molecular and Human Genetics, Baylor College of Medicine, Annual Retreat, Galveston, TX, January 2020

"ACOX1 Disorder - mechanism of disease and treatment", Undiagnosed Diseases Network, External Collaborators Meeting, Harvard Medical School, Boston, MA, January 2020

"The fruit fly at the interface of diagnosis and pathogenic mechanisms of rare and common human disease", Department of Physiology and Neurobiology Research Seminar Series, University of Connecticut, Storrs-Mansfield, CT, January 2020

"Flies facilitate rare disease diagnosis and therapeutic avenues", TAGC 2020, The Allied Genetics Conference, GSA, Virtual Meeting, April 2020

"ROS, peroxidated lipids and the neuroprotective role of lipid droplets in glial cells", FASEB Science Research Conference, The Lipid Droplets Conference, Virtual Meeting, July 2020

"The study of rare neurological diseases drives discoveries for common diseases", Keynote Speaker, UCL Institute of Health Ageing Symposium: 'Neurodegeneration in Flies', University College London, UK, Virtual Meeting, September 2020

"Lipids and the demise of neurons; from rare to common diseases", 'From Cell to Organism: Cell Biology, Developmental Genetics, and Stem Cell Biology' Seminar Series, Developmental Genetics Program, Skirball Institute of NYU School of Medicine, NY, Virtual Seminar, October 2020

"Lipids and the demise of neurons; from rare to common diseases", Department of Cellular Biology, University of Georgia, Athens, GA, Virtual Seminar, November 2020

"Lipids and the demise of neurons; from rare to common diseases", Deutsches Zentrum für Neuro-degenerative Erkrankungen (DZNE), Center for Neurodegenerative Diseases, Bonn and other DZNE research sites, Germany, Virtual Seminar, November 2020

"Lipids and the demise of neurons; from rare to common diseases", Instituto de Neurociencias CSIC-UMH, Univ. Miguel Hernandez-Campus de San Juan, Alicante, Spain, Virtual Seminar, November 2020

"The Model Organisms Screening Center for the Undiagnosed Diseases Network: Mitchell's disease a model for Multiple Sclerosis?", Australian Functional Genomics Conference, Melbourne, Australia, Virtual Meeting, November 2020

"Engineering Flies", Drosophila Methods Workshop, The Company of Biologists, London, UK, Virtual Meeting, January 2021

"ROS, peroxidated lipids and the neuroprotective role of lipid droplets in glial cells", 18th European Neurobiology of Drosophila Conference, Toledo, Spain, Virtual Meeting, May 2021

"Engineering Flies", The Boston Area Drosophila Meeting, Boston, MA, Virtual Meeting, June 2021

"Tackling human gene function in model organisms", Genetics Society of America, Virtual Seminar Series, June 2021

"Exploring gene function across humans and model organisms", Quantitative & Computational Biosciences Graduate Program, Baylor College of Medicine, Houston, TX, Virtual Seminar, August 2021

"Lipids and the demise of neurons; from rare to common diseases", Brain and Mind Research Institute | Weill Cornell Medicine, Neuroscience PhD Program | Weill Cornell Graduate School of Medical Sciences, NY, Virtual Seminar, September 2021

"GlucosylCeramide in the pathogenesis of rare Lysosomal Storage Disease and Parkinson's Disease", 2021 Welch Conference on 'Frontiers of Brain Science and Medicine', Houston, TX, Virtual Meeting, October 2021

"Engineering Flies", Indian Drosophila Research Conference (InDRC), Virtual Meeting, December 2021

"Tackling human gene function in model organisms", Department of Genetics, Washington University, St Louis, MO, Virtual Seminar, February 2022

"Neuronal ROS-induced glial lipid droplet formation is altered by loss of Alzheimer's disease–associated genes that effect lipid transfer and endocytosis", International Symposium on the Development and Aging of Synapses, Capital University of Medical Sciences, Beijing, China, Virtual Meeting, February 2022

"The Texome Project: Genomic Medicine for Underserved Communities", National Human Genome Research Institute (NHGRI), Virtual Seminar, February 2022

"Glucosylceramides are generated by neuronal activity and transported to glia via exosomes for degradation upon release of a glial TGFbeta/BMP signal", 'Glycoinformatics: At the interface of data and disease, NIH Common Fund Symposium, Virtual Meeting, April 2022

"Fruit flies to study rare and common diseases", Cure Epilepsy, September 2022

"ROS-induced lipid droplet formation: Implications forAlzheimer Diseasse", NIH Alzheimer's Disease Sequencing Project Consortia (ADSP), October 2022

"Development of resources and technologies for enhancing rigor, reproducibility and translatability of animal models in biomedical research", NIH Geroscience Meeting, October 2022

"Fly neurobiology: Accomplishments and highlights of talented mentees", Baylor College of Medicine, Jan and Dan Duncan Neurological Research Institute, Houston, TX, October 2022

"Shingolipids and the demise of neurons: from rare to common diseases", Sanofi Meeting, Amsterdam, April 2023

"Methods to facilitate CRIMIC based genome editing and its impact on the Undiagnosed Diseases Network", The NIH BRAIN Initiative Multi-Council Group Meegting, Virtual Meeting, May 2023

"Lipid Droplets and Alzheimer Disease", 16th Canadian Neuroscience Meeting, Montreal, May 2023

"The Model Organisms Screening Center for the Undiagnosed Diseases Network", NIH Brain Consortium, June 2023

"Using Drosophila to help in the diagnosis of undiagnosed diseases", XXIII International Congress of Genetics, Melbourne, Australia, July 2023

"Sphingolipids and the demise of neurons: from rare to common neurological diseases", Asia Pacific Drosphila Research Conference, Cairns, Australia, July 2023

"The Model Organisms Screening Center for the Undiagnosed Diseases Network", Mouse KOMP Conference, Houston, TX, November 2023

"The study of rare pediatric neurological diseases drives discoveries in common diseases", Department of Pediatrics, Univeristy of Pittsburg, PA, December 2023

"Lipid metabolism defects in AD and PD models", Department of Integrative Biology and Pharmacology, The Univeristy of Texas Health Science Center, Houston, TX, January 2024

"The study of rare pediatric neurologic diseases in flies drives discoveries in common diseases, TAGC24, The Allied Genetics Conference, Keynote and Gruber Prize Presentation, Oxon Hill, MD, March 2024

"The study of rare pediatric neurologic diseases in flies drives discoveries in common diseases", Jackson Laboratory, 65th McKusick Course, Bar Harbor, MA, July 2024

"Lipid metabolism defects in Alzheimer's and Parkinson's disease models", Kern lipid conference, Snowmass, CO, August 2024

"The study of rare pediatric neurologic diseases in flies drives discoveries in common diseases", Developmental Biology Symposium in honor of Michael O'Connor, University of Minnesota, Minneapolis, October 2024

"The study of rare pediatric neurologic diseases in flies drives discoveries in common diseases", Chan Zuckerberg Initiative Science in Society Meeting, San Jose, CA, October 2024

"The study of rare pediatric neurologic diseases in flies drives discoveries in common diseases", Department of Biochemistry, Virginia Commonwealth University, November 2024

"The study of rare pediatric neurologic diseases in flies drives discoveries in common diseases", Office of Research Infrastructure Programs (ORIP), National Institutes of Health, November 2024

"The study of rare pediatric neurologic diseases in flies drives discoveries in common diseases", Oklahoma Medical Research Foudation (OMRF), Oklahoma City, OK, November 2024

"Fruit flies to study rare and common disease, Genomics Discovery Translational Series", Cincinnati Children's Hospital Medical Center, Cincinnati, OH, Virtual Meeting, January 2025

"Glial Lipid Droplets in Alzheimer 's disease and Sphingolipids in Parkinson's disease", Inaugural Symposium on lipids and neurological disease, Department of Cell Biology, University of Texas Southwestern Medical Center, Dallas, TX, May 2025

"Glial Lipid Droplets in Alzheimer 's disease and Sphingolipids in Parkinson's disease", Jackson Laboratory, 66th McKusick Course, Bar Harbor, MA, July 2025

"The role of lipids in neurodegenerative diseases", Department of Biochemistry and Biophysics, Department of Biomedical Engineering, Texas A&M University, September 2025

"The study of rare pediatric neurologic diseases in flies drives discoveries in common diseases", The University of British Columbia Life Sciences Institute, Vancouver, BC, May 2026

"The study of rare pediatric neurological diseases drives discoveries in common diseases", Plenary Talk, SpotLight Symposium for Soo Kyung Lee, University of Buffalo, April 2026

"Glial Lipid Droplets in Alzheimer 's disease", Plenary Talk, FASEB Lipid Droplets/ Phospholipids Meeting, Scottsdale, Arizona, July 2026.

POSTDOCTORAL TRAINEES/ RESEARCH ASSOCIATES - TIME IN THE BELLEN LAB - CURRENT POSITIONS

Elizabeth D. Eldon, Ph.D., 1990-1992, Emerita and Former Faculty, California State University, Long Beach, CA

Pyung-Lim Han, Ph.D., 1992-1993, Professor, Ewha Womans University, Seoul, Korea

Adi Salzberg, D.Sc., 1992-1995, Professor and Vice President for Diversity and Inclusion, Technion-Israel Institute of Technology, Haifa, Israel

Ja-Kyeong Lee, Ph.D., 1993-1995, Professor, Inha University Medical School, Incheon, Korea

J. Troy Littleton, Ph.D., 1994-1996, Professor, Massachusetts Institute of Technology, Cambridge, MA

Manzoor A. Bhat, Ph.D., 1994-1999, Professor and Vice Dean of Research, University of Texas Health Science Center, San Antonio, TX

Bing Zhang, Ph.D., 1997-1999, Professor, University of Missouri, Columbia, MO

Ming-Li Zhao, Ph.D., 1997-2000, DBA Team Lead, Accenture, Houston, TX

Bassem A. Hassan, Ph.D., 1996-2001, Team Leader, Brain and Spine Institute, Institut du Cerveau et de la Moelle Epiniere (ICM), Paris, France

Riitta Nolo, Ph.D., 1996-2002, Research Scientist (retired), University of Texas, MD Anderson Cancer Center, Houston, TX

Ole Kjaerulff, M.D./Ph.D., 2001-2002, Associate Professor, University of Copenhagen, Denmark

Cornelius Boerkoel, M.D./Ph.D., 2001-2002, Clinical Professor, Medical Genetics, University of British Columbia, Vancouver, Canada

Deeann Wallis Schultz, Ph.D., 2000-2003, Associate Professor, University of Alabama, Birmingham, AL

Giuseppa Pennetta, Ph.D., 1997-2004, Senior Lecturer, University of Edinburgh, United Kingdom

Koenraad K. Norga, M.D./Ph.D., 2000-2004, Professor, Head of Clinic, Pediatric Oncology, Antwerp University Hospital (UZA), Belgium

Bart Dermaut, M.D./Ph.D., 2003-2004, Professor and Clinical Geneticist, Ghent University, Belgium

Peter Robin Hiesinger, Ph.D., 2000-2006, Professor, Free University Berlin and NeuroCure Cluster of Excellence, Charité University Hospital, Berlin, Germany

Hamed Jafar-Nejad, M.D., 2000-2006, Professor, Molecular & Human Genetics, Baylor College of Medicine, Houston, TX

Rong Grace Zhai, Ph.D., 2001-2006, Sr. Associate Dean for Basic Science Research and Professor, University of Miami Miller School of Medicine, FL

Patrik Verstreken, Ph.D., 2003-2006, Scientific Director and Group Leader, Center for Brain & Disease Research, Flanders Interuniversity Institute for Biotechnology (V.I.B.), University of Leuven, Belgium

Tanja Rosenmund, Ph.D., 2004-2006, Director, Spark Berlin Institute of Health, Charité, Berlin, Germany

Hiroshi Tsuda, M.D./Ph.D., 2005-2007, Associate Medical Director, Biogen, and Visiting Professor, Tohoku University, Tokyo, Japan

Amir Fayyazuddin, Ph.D., 2000-2008, Medical Geneticist, Astellas Pharma, San Diego, CA

Prajal Patel, Ph.D., 2007-2009, Research Associate/Lab Manager, College of the Holy Cross, Worcester, MA (G. Findlay)

Chao Tong, Ph.D., 2006-2011, Professor, Zhejiang University, Hangzhou, China

Chi-Kuang Yao, Ph.D., 2006-2011, Associate Professor, Academia Sinica, Taipei, Taiwan

Yong-Qi Lin, Ph.D., 2007-2011, Sr Research Fellow (retired), Charles Perkins Centre, University of Sydney, Australia

Timothy R. Mahoney, Ph.D., 2008-2011, Medical Science Liaison, Tempus Labs, Inc., Chicago, IL

Michael F. Wangler, M.D., 2009-2011, Associate Professor, Molecular & Human Genetics, Baylor College of Medicine and Jan and Dan Duncan Neurological Research Institute, Houston, TX

Nikolaos Giagtzoglou, Ph.D., 2004-2013, Senior Director of CNS Program Research, Envisagenics, New York, NY

Shinya Yamamoto, D.V.M., Ph.D., 2011-2013, Associate Professor, Molecular & Human Genetics, Baylor College of Medicine and Jan and Dan Duncan Neurological Research Institute, Houston, TX

Elaine S. Seto, M.D., PhD., 2011-2013, Assistant Professor, Baylor College of Medicine and Medical Director, EEG, Texas Children's Hospital, Houston, TX
Koen J.T. Venken, Ph.D., 2007-2013, Assistant Professor, Biochemistry, Baylor College of Medicine
Manish Jaiswal, Ph.D., 2007-2016, Prinicipal Investigator, TIFR Centre for Interdisciplinary Sciences, Hyderabad, India
Hector Sandoval, Ph.D., 2009-2016, Lead Medical Science Liaison, Bayer Pharmaceuticals, Houston, TX
Wan Hee Yoon, Ph.D., 2011-2017, Associate Professor, Oklahoma Medical Research Foundation, Oklahoma City, OK
Sonal Nagarkar Jaiswal, Ph.D., 2012-2017, Senior Scientist, Centre for Cellular and Molecular Biology, Hyderabad, Telangana, India
Ning Liu, Ph.D., 2015-2017, Assistant Professor, Baylor College of Medicine and Assistant Clinical Director of Biochemical Genetics, Baylor Genetics, Houston, TX
Sathiyanarayanan Manivannan, Ph.D., 2015-2017, Senior Scientific Consulatant, Qiagen, Columbus, OH
Xi Luo, Ph.D., 2015-2017, Assistant Professor, Baylor College of Medicine and Assistant Clinical Director, Baylor Genetics, Houston, TX
Pei-Tseng Lee, Ph.D., 2013-2018, Gene Editing Scientist, WellGenetics, Taipei, Taiwan
Megan Campbell, Ph.D., 2014-2018, Medical Writing Science Senior Manager, Vertex Pharmaceuticals, Boston, MA
Hsiao-Tuan Chao, M.D., Ph.D., 2016-2019, Assistant Professor, Pediatrics, Baylor College of Medicine and Jan and Dan Duncan Neurological Research Institute, Houston, TX
David Li-Kroeger, Ph.D., 2012-2019, Assistant Professor, Neurology, Baylor College of Medicine
Nichole Link, Ph.D., 2013-2020, Assistant Professor, Univ. of Utah School of Medicine, Salt Lake City, UT
Scott Barish, Ph.D., 2018-2020, Genome Engineering Scientist, Colossal Biosciences, Dallas, TX
Guang Lin, Ph.D., 2011-2020, Assistant Professor, Genetics, Baylor College of Medicine
Oguz Kanca, Ph.D., 2015-2021, Assistant Professor, Genetics, Baylor College of Medicine
Paul Marcogliese, Ph.D., 2016-2022, Assistant Professor, University of Manitoba, Winnipeg, Canada
Yiming Zheng, PhD, 2020-2022, Assistant Professor, Xiamen University, Xiamen, China
Hyunglok Chung, Ph.D., 2016-2023, Assistant Professor, Weil Cornell Medicine, Methodist Hospital Research Institute, Houston, TX
Dongxue Mao, Ph.D., 2018-2023, Data Scientist, MD Anderson Cancer Center, Houston, TX
Yan Huang, Ph.D., 2019-2023, Associate Investigator, Huan Children's Hospital, Hunan, China
Zelha Nil, Ph.D., 2019-2023, Research Professional 6, University of Minnesota, Twin Cities, MI
Matthew Moulton, Ph.D., 2017-2024, Assistant Professor, Texas A&M, College Station, TX
Debdeep Dutta, Ph.D., 2019-2024, Assisstant Professor, Indian Institute of Technology, Kanpur, India
Xueyang Pan, Ph.D., 2020-2024, Fellow, Clinical Biochemical Genetics, Baylor College of Medicine
Mengqi Ma, Ph.D., 2019-present
Burak Tepe, Ph.D., 2019-present
Lindsey Goodman, Ph.D., 2019-present
Shenzhao Lu, Ph.D., 2020-present
Mingxue Gu, Ph.D., 2021-present
Ali Hoseini, Ph.D., 2022-present
Prajakta Deshpande, Ph.D, 2023-present
Bhagyashree Kaduskar, Ph.D., 2024-present
Mingxi Deng, Ph.D., 2024-present
Yohei Nitta, Ph.D., 2024-present
Ameya Walimbe , M.D., Ph.D., 2024-present
Yuqing Zhu, Ph.D., 2025-present
Yun Zhao, Ph.D., 2025-present

GRADUATE STUDENTS

AS MAJOR ADVISOR - CURRENT POSITIONS - BCM DEGREES AND AWARDS

J. Troy Littleton, Professor, Massachusetts Institute of Technology, Cambridge, MA
Ph.D. in Neuroscience, 1994; M.D., 1997
BCM Dean's Award for Excellence, 1992-1994; NIH NRSA Predoctoral Fellowship; Arnold Beckman Academic Achievement Award, 1994; Minora Suzuki Award for Excellence in Neuroscience, 1994; Finalist, 10th Larry Sandler Memorial Lecture, 36th Annual *Drosophila* Research Conference, 1995; Sigma Xi Dissertation Excellence Award in Biology, Rice University-Texas Medical Center, 1995; Elkins Memorial Lecture, Best *Drosophila* Neurobiology Thesis (1994-1995), Cold Spring Harbor Neurobiology of *Drosophila*, NY

Artur Kania, Director, Neural Circuit Development Research Unit, and Professor, Montreal Clinical Research Institute (IRCM), and University of Montréal, Canada
Ph.D. in Genetics, 1996

Karen L. Schulze
Ph.D. in Neuroscience, 1996
Platform Presenter representing the Division of Neuroscience, BCM Annual Graduate Student Symposium, 1995; Young Investigator Award, Texas Neurological Society, 1996; Finalist, 12th Larry Sandler Memorial Lecture Award, 38th Annual *Drosophila* Research Conference, 1997

Catherine A. Dye, Scientific Communication and Medical Affairs, REGENBIO Inc, Maryland
Ph.D. in Molecular and Cellular Biology, 1999
Poster Awards, BCM Annual Graduate Student Symposium, 1997 and 1998; First Place Poster Award, BCM Cell Biology Symposium, 1998

Mark N. Wu, Professor, Johns Hopkins University School of Medicine, Baltimore, MD
Ph.D. in Molecular and Cellular Biology, 1999; M.D., 2001
BCM Presidential Scholar, 1993; John J. Trentin Award for Scholastic Excellence, 1994; NIH NRSA Predoctoral Fellowship; BCM Dean's Award for Excellence, 1995-1999; First Place Poster Award, BCM Annual Graduate Student Symposium, 1996; Outstanding Graduate Student Award, Department of Molecular and Cellular Biology, 2000; Best Overall BCM Medical Student in Basic Sciences and Clinical Clerkships, 2000; Sigma Xi Dissertation Excellence Award in Biology, Rice University-Texas Medical Center, 2000

Sergei N. Prokopenko, Internat'l Baccalaureate Teacher of Chemistry, St. Joseph's Institution, Singapore
Ph.D. in Developmental Biology, 2000
Platform Presenter representing the Program in Developmental Biology, BCM Annual Graduate Student Symposium, 2000

Robert B. Beckstead, Director of US R&D BIO, CEVA Sante Animale, Lenexa, Kansas
Ph.D. in Molecular and Cellular Biology, 2001

Thomas E. Lloyd, Professor and Chair of Neurology, Baylor College of Medicine, Houston, TX
Ph.D. in Molecular and Cellular Biology, 2002; M.D., 2003
NIH NRSA Predoctoral Fellowship; BCM Medical Scientist Training Program Publication Award, 2000; First Place Poster Award, BCM Annual Graduate Student Symposium, 2001; Deborah K. Martin Award in Biomedical Sciences, 2001; Harold M. Weintraub Graduate Student Award, 2002; Outstanding Physician Scientist Award, R. R. Dickason Jr. M.D./Ph.D. Scholar Endowment, 2002

Patrik Verstreken, Scientific Director and Group Leader, Center for Brain & Disease Research, Flanders Interuniversity Institute for Biotechnology (VIB), University of Leuven, Belgium
Ph.D. in Developmental Biology, 2003
Platform Presenter representing the Program in Developmental Biology, and Beckman Coulter Award for the Best Platform Presentation, BCM Annual Graduate Student Symposium, 2002;

Hoover Foundation Fellow and Belgian American Educational Foundation (BAEF) Postdoctoral Fellowship, 2003; Finalist, 17th Larry Sandler Memorial Lecture Award, 45th Annual *Drosophila* Research Conference, 2004; Sigma Xi Dissertation Excellence Award in Biology, Rice University-Texas Medical Center, 2004; First Place Best Paper Student Category, BCM, Department of Molecular and Human Genetics Annual Retreat, 2005

Koenraad K. Norga, M.D./Ph.D., 2000-2004, Professor, Head of Clinic, Pediatric Oncology, Antwerp University Hospital (UZA), Belgium

Elaine S. Seto, Assistant Professor, Baylor College of Medicine, and Medical Director, EEG, Texas Children's Hospital, Houston, TX

Ph.D. in Developmental Biology, 2006; M.D., 2007

NIH NRSA Predoctoral Fellowship; John J. Trentin Award for Scholastic Excellence, 2001; Best Poster Award, BCM MSTP Annual Retreat, 2003; First Place Poster Award, BCM Annual Graduate Student Symposium, 2003; Best Presentation at MSTP meeting, 2004; Beckman Coulter Award for the Best Platform Presentation, BCM Annual Graduate Student Symposium, 2005

Tong-Wey Koh, Case Manager, Early Psychosis Intervention Prgramme, Institute of Mental Health, Singapore

Ph.D. in Developmental Biology, 2006

Platform Presenter representing the Program in Developmental Biology, BCM Annual Graduate Student Symposium, 2004; First Place Best Paper Student Category, BCM, Department of Molecular and Human Genetics Annual Retreat, 2005

Melih Acar, Associate Director, Precision Medicine, AbbVie, South San Francisco, CA

Ph.D. in Developmental Biology, 2006

Prajal Patel, Research Associate/Lab Manager, College of the Holy Cross, Worcester, MA (Geoff Findley)

Ph.D. in Developmental Biology, 2007

Koen J.T. Venken, Assistant Professor, Biochemisty, Baylor College of Medicine, Houston, TX

Ph.D. in Developmental Biology, 2007

Best Paper of the year of the Graduate Students, BCM, Department of Molecular and Human Genetics Annual Retreat, 2007

Hillary Andrews Graves, Artist, Idlewind Ceramics, Houston, TX

Ph.D. in Developmental Biology, 2008

First Place Poster, Annual *Drosophila* Research Conference, 2006

Cindy V. Ly, Assistant Professor in Neurology, Washington University School of Medicine, St. Louis, MO

M.D., Ph.D. in Neuroscience, 2008; M.D., 2009

Akhila Rajan, Associate Professor, Fred Hutchinson Cancer Research Center, Seattle, WA

Ph.D. in Genetics, 2009

Third Place Platform Speaker Annual Genetics Retreat, 2006; Platform Presenter representing the Department of Molecular and Human Genetics and winner of the John R. Kelsey Student Speaker Award, BCM Annual Graduate School Symposium, 2006

An-Chi Tien, Assistant Professor, Ivy Brain Tumor Center, Barrow Neurological Inst., Phoenix, AZ

Ph.D. in Developmental Biology, 2009

Tomoko Ohyama, Assistant Professor, McGill University, Montréal, Canada

Ph.D. in Genetics, 2009

Shinya Yamamoto, Associate Professor, Baylor College of Medicine and Jan and Dan Duncan Neurological Research Institute, Houston, TX

(*D.V.M.), Ph.D. in Developmental Biology, 2011*

Fellow of the Nakajima Foundation, 2006-2010; Platform Presenter representing the Program in Developmental Biology at BCM Annual Graduate Student Symposium, 2010; First Place Graduate Student Poster Award, BCM Annual Graduate Student Symposium, 2011

Vafa Bayat, Program Head, R&D, Bitscopic, Redwood City, CA

Ph.D. in Developmental Biology, 2011; M.D. 2012

Recipient of Medical Scientist Training Program tuition funding and stipend award, 2004; Invited

speaker, Southwest Regional Society of Developmental Biology meeting, Austin, TX, 2010; Second Place Graduate Student Poster Award, 51st Annual *Drosophila* Research Conference, 2010; First Place Graduate School and Beckman Coulter Poster Awards, BCM Annual Graduate School Symposium, 2010; Platform Presenter representing the Program in Developmental Biology, and Beckman Coulter Award for the Best Platform Presentation, BCM Annual Graduate Student Symposium, 2011

Bo Xiong, Professor, Tongji Medical College, Huazhong Univ. of Science and Technology, Wuhan, China
Ph.D. in Developmental Biology, 2013
Recipient, Burroughs-Wellcome Foundation Grant "Houston Laboratory and Population Sciences Training Program in Gene-Environment Interaction", 2010-2012; Award from the Chinese government for outstanding Scholar

Ke Zhang, Jr Prinicipal Investigator, ShenZhen Bay Laboratory, Shenzhen, China
Ph.D. in Structural and Computational Biology and Molecular Biophysics, 2013

Wu-Lin Charng, Staff Scientist, Washington University, St. Louis (Christina Gurnett)
Ph.D. in Developmental Biology, 2013
Supported by the Taiwan Merit Scholarships Program sponsored by the National Science Council of Taiwan

Shiuan (Kevin) Wang, Medical Lead, Taiwan and Hong Kong, Sanofi
Ph.D. in Developmental Biology, 2014
Recipient, Burroughs-Wellcome Foundation Grant "Houston Laboratory and Population Sciences Training Program in Gene-Environment Interaction", 2012-2014; Second Place Graduate Student Poster Award, BCM Annual Graduate Student Symposium, 2012

Upasana Gala, CEO, Evolve Brain Training, Dubai, United Arab Emirates
Ph.D. in Developmental Biology, 2016

Gabriela David-Morrison, Field Application Scientist, Complete Genomics Inc., San Diego, CA
Ph.D. in Developmental Biology, 2016
John J. Trentin Award for Scholastic Excellence, 2009

Nele A. Haelterman, Assistant Professor, Baylor College of Medicine, Houston, TX
Ph.D. in Developmental Biology, 2016
John J. Trentin Award for Scholastic Excellence, 2011; Second place poster award, BCM Annual Graduate Student Symposium, 2015; Best Poster award at the Gordon Conference: Myogenesis, Lucca, Italy, 2017; Best Paper Award, BCM, Department of Molecular and Human Genetics Annual Retreat, 2019

Kuchuan Chen, Postdoctoral Fellow, Harvard Medical School, Boston, MA (Clifford Woolf)
Ph.D. in Developmental Biology, 2016
John J. Trentin Award for Scholastic Excellence, 2010; First place poster award, BCM Annual Graduate Student Symposium, 2015

Tongchao Li, Assistant Professor, Zhejiang University, Hangzhou, China
Ph.D. in Developmental Biology, 2016
Award from the Chinese Government for Outstanding Scholar

Lu (Lucy) Liu, Principal, Longwood Fund, Boston, MA
Ph.D. in Neuroscience, 2017
Best Talk, 25th Annual Rush and Helen Record Forum, Department of Neuroscience, 2015; Platform Presenter representing the Department of Neuroscience, and recipient of a Speaker Award, BCM Annual Graduate Student Symposium, 2015; Rush Record Best Neuroscience Student Award, 2016; Harold Weintraub Graduate Student Award, 2017; Larry Sandler Memorial Lecture Awardee, 2018.

Kai Li Tan, Senior Scientist, Clasp Therapeutics, Washington DC
Ph.D. in Developmental Biology, 2018
John J. Trentin Award for Scholastic Excellence, 2011; Second place poster award, BCM Annual Graduate Student Symposium, 2015; Best Talk award, Gordon Research Seminar: Elastin, Elastic

fibers and Microfibrils, University of New England, ME, 2017; Best Paper Award, BCM, Department of Molecular and Human Genetics Annual Retreat, 2019

Berrak Ugur, Postdoctoral Fellow & Associate Research Scientist, Yale University School of Medicine, New Haven, CT (Pietro De Camilli)
Ph.D. in Developmental Biology, 2018
First place poster award, BCM Annual Graduate Student Symposium, 2015

Dongxue Mao, Data Scientist, MD Anderson Cancer Center, Houston, TX
Ph.D. in Developmental Biology, 2018

Mumine Senturk, Clinical Genomic Scientist, Baylor Genetics, Houston, TX
Ph.D. in Developmental Biology, 2018

Burak Tepe, Postdoctoral Fellow, Baylor College of Medicine (Hugo Bellen)
Ph.D. in Developmental Biology, 2018, co-mentored by Dr. Arenkiel

Julia Wang, Hematopathologist, Moffitt Cancer Center, Tampa, Florida
Ph.D. in Developmental Biology, 2019; M.D., 2021
McNair Award (supported for her entire PhD); John J. Trentin Award for Scholastic Excellence, 2017; NIH NRSA Predoctoral Fellowship

Thomas Ravenscroft, Postdoctoral Fellow, HHMI Janelia, 2021 (Gerry Rubin)
Ph.D. in Molecular and Human Genetics, 2021
Betz-Harlan Endowed Scholarship, BCM, 2016-2017; The Cullen Foundation Molecular and Human Genetics Predoctoral Fellowship, 2017-2019; Second Place Poster Award, BCM Annual Graduate Student Symposium, 2010; Best Oral Presentation, BCM Molecular and Human Genetics Retreat, 2020

Jose Luis Salazar, Field Applications Scientist, Oxford Nanopore Technologies, Houston, TX
Ph.D. in Molecular and Human Genetics, 2021, co-mentored by Dr. Yamamoto

Liping Wang, Project Manager, National Vaccine and Serum Institute, Beijing, China
Ph.D. in Developmental Biology, 2022

Jennifer Deger, MSTP and Ph.D. Candidate in Neuroscience, co-mentored by Josh Shulman**,** 2020-present
BRASS Scholar

Ye Jin Park, Ph.D. Candidate in Developmental Biology, co-mentored by Hongjie Li, 2022-present

Michal Tyrlik, MSTP and Ph.D. Candidate in Genetics & Genomics, 2024-present
BRASS Scholar, John J. Trentin Award for Scholastic Excellence

AS THESIS COMMITTEE MEMBER

Pyung-Lim Han, Ph.D., 1992
Tricia Miller, Ph.D., 1992
Yuhong Qiu, Ph.D., 1992
Alan Nighorn, Ph.D., 1993
Bahram Varjavand, M.D./Ph.D., 1993
Wanda Lemma, Ph.D., 1993
Don Chen, Ph.D., 1993
Chi Chan, Ph.D., 1994
Patrick Lawinger, Ph.D., 1996
Rob Britton, Ph.D., 1996
Kent Anderson, M.D./Ph.D., 1996
Kwok Han, Ph.D., 1996
Jill Crittenden, Ph.D., 1998
Laura Warner, Ph.D., 1999
Cheng-Hsin Lu, Ph.D., 1999
Rui Chen, Ph.D., 1999
Hong Su, Ph.D., 1999

Shayan Izaddoost, M.D./Ph.D., 2000
Binhai Zheng, Ph.D., 2000
William Decker, Ph.D., 2001
Jose Barral, M.D./Ph.D., 2001
Patrick Cox, M.D./Ph.D., 2001
Heping Liu, Ph.D., 2002
You-Tzung Chen, Ph.D., 2002
Carsten Stuckenholz, Ph.D., 2003
Benjamin Frankfort, M.D./Ph.D., 2003
Yakov Sandler, M.D./Ph.D., 2004
Kartik Pappu, Ph.D., 2004
Sunil Mehta, M.D./Ph.D., 2005
Ed Oestrin, M.D./Ph.D., 2005
Kevin MacMillan, M.S., 2005
Lihua Zheng, Ph.D., 2006
Kathryn Pepple, M.D./Ph.D., 2006
Jennifer Childress, Ph.D., 2007
Kavita Oommen, Ph.D., 2007
Jayeeta Basu, Ph.D., 2007
Ryan Udan, Ph.D., 2007
Feyza Engin, Ph.D., 2007
Xiaomeng Yu, Ph.D., 2007
Ya-Chieh Hsu, Ph.D., 2007
Melis Inan, Ph.D., 2008
Matt Rose, Ph.D., 2008
Paolo Mangahas, Ph.D., 2008
Clayton Morrison, Ph.D., 2008
Mingshan Xue, Ph.D., 2009
Aimee Anderson, Ph.D., 2009
Eric Hyun M.D./Ph.D., 2010
Mardelle Atkins, Ph.D., 2010
Bibhash Mukhopadhyay, Ph.D., 2010
Jae Man Lee, Ph.D., 2011
Onkar Dhande, Ph.D., 2011
Ciao-Lin Chen, Ph.D., 2011
Joanna Asprer, Ph.D., 2011
Lu Nan, Ph.D., 2011
Carlos Ballester Rosado, Ph.D., 2011
Mahalakshmi Prabhakaran, Ph.D., 2011
Jessica Leonardi, Ph.D., 2012
Molly Schroeder, Ph.D., 2012
Jacob Berry, Ph.D., 2012
Chiat-Koo (Leon) Lim, Ph.D., 2012
Sarah Woodfield, Ph.D., 2012
KyongMi Um, Ph.D., 2012
Marife Arancillo, Ph.D., 2012
Barbara Jusiak, Ph.D., 2013
Edward Miranda, Ph.D., 2013
Tammy Chan, Ph.D., 2013
Renee Edlund, Ph.D., 2014
Qian Shen, Ph.D., 2014

Shaun Davis, Ph.D., 2016
Hsiang-Chih Lu, Ph.D., 2016
Juyeon Jo, Ph.D., 2016
Antonio Tito, Ph.D., 2016
Chun-An Chen, Ph.D., 2017
Zenghui Xu, Ph.D., 2017
Jenny Sun, Ph.D., 2017
Antonia De Maio, Ph.D., 2018
Sungwoo Choi, Ph.D., 2018
Sena Ozseker, Ph.D., 2018
Chang-Ru Tsai, Ph.D., 2018
Lakshya Bajaj, Ph.D., 2018
Marissa A. Scavuzzo, Ph.D., 2018
Sandra Riad, M.S., 2018
Yi-Chen Hsieh, Ph.D., 2019
Gabriel Vazquez Velez, M.D./Ph.D., 2019
Seung-Yeop Han, Ph.D., 2020
Young Won (Jamie) Kim, Ph.D., 2020
Joshua Ortiz, Ph.D., 2021
Zachary Kadow, Ph.D., 2021
Jolly Angad, M.D./Ph.D., 2021
Jonathon Duffy, Ph.D., 2022
Marzia Savini, Ph.D., 2022
Colleen Brady, M.D./Ph.D., 2022
Shihong Max Gao, Ph.D., 2023
Yue Ye (UT MD Anderson), Ph.D., 2024
Chaohao Gu (Quantitative & Computational Biosciences), 2020-present
Stephen Farmer Jr (UT Health), 2022-present
Jinghan Zhao (Neuroscience), 2022-present
Gwendolynn Hummel (Bioinformatics, Genomics, Systems Biology), 2022-present
Takese McKenzie (UT MD Anderson), 2022-present
Nicole Auld (Cancer and Cell Biology), 2023-present
Ashwaraya Rajurkar (Biomedical Sciences), 2023-present