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INVESTIGATOR, HOWARD HUGHES MEDICAL INSTITUTE
PROFESSOR, DEPARTMENTS OF MOLECULAR AND HUMAN GENETICS, NEUROSCIENCE, AND
PROGRAM IN DEVELOPMENTAL BIOLOGY
BAYLOR COLLEGE OF MEDICINE

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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

University of Ghent (R.U.G.), Belgium

Preveterinary Medicine, 1980, Magna Cum Laude

University of Antwerp (R.U.C.A.), 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 EDUCATION AND TRAINING

Business Engineer (Engineering & M.B.A.), 1976, Magna Cum Laude

Solvay Business School, University of Brussels (V.U.B.), Belgium

Research Associate in Econometrics, supported by the National Fund of Scientific Research, 1977-1980

University of Antwerp (R.U.C.A.), 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, Neuroscience; and Program in Developmental Biology

1999-present *Investigator*, Howard Hughes Medical Institute

1999-present *Charles Darwin Professor in Genetics*, Department of Molecular and Human Genetics

2000-present *March of Dimes Professor in Developmental Biology*, Program in Developmental Biology

2007-present *Adjunct Member*, The University of Texas MD Anderson Cancer Center

2010-present *Distinguished Service Professor*, Baylor College of Medicine

PAST APPOINTMENTS AT BCM

1996-2017 *Director, Graduate Program in Developmental Biology*
1989-1995 *Assistant Investigator, Howard Hughes Medical Institute*
1989-1994 *Assistant Professor, Departments of Molecular and Human Genetics; 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, Cell Biology;
Division of Neuroscience; Programs in Cell and Molecular Biology, and
Developmental Biology*
1995-1999 *Associate Investigator, Howard Hughes Medical Institute*
1997-2009 *Professor, Department of Molecular and Cellular Biology*

PROFESSIONAL SOCIETIES

Genetics Society of America
American Association for the Advancement of Science
International Society for Developmental Biologists
Society for Neuroscience

HONORS AND AWARDS

The Edward J. Masoro Distinguished Lecture at 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
The Gill Distinguished Neuroscience Investigator Award, Indiana University, Bloomington, October 2012
Distinguished Alumnus Award, University of California, Davis, October 2011
Distinguished Service Professor, BCM, March 2010
The March of Dimes Chair in Developmental Biology, BCM, May 2000
Charles Darwin Chair in Genetics, BCM, October 1999
The 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

Chair of the Bloomington *Drosophila* Stock Center Advisory Board, Indiana University, 1996-present
Member of the Scientific Advisory Board of FlyBase, Harvard University, 2016-present
Member of the Scientific Advisory Board of the Max Planck Institute for Biophysical Chemistry,
Göttingen, Germany, 2008-2017
Member of the Scientific Advisory Board of the Institute of Molecular Biology (IMB) at the Academia
Sinica, Taipei, Taiwan, 2011 and 2017

Member of the Scientific Advisory Board of the Flanders Interuniversity Institute for Biotechnology (VIB) at the University of Leuven, Belgium, 2013
Member of the Flanders Interuniversity Institute for Biotechnology (VIB) Faculty Search Committee, Belgium, 2003-2010
Member of the Scientific Advisory Board of the Biology Department at the KAIST, Daejeon, Korea, 2010
Member of the Advisory Committees of Janelia Farm, HHMI, Ashburn, VA, 2007-2010
Ad hoc grant reviewer for the Behavioral and Neuroscience Study Section, National Institutes of Health, 1993, 1998, and 2001
Member of the Special Emphasis Panel Study Section, National Institutes of Health, 2000-2002
Member of the NASA Developmental Review Panel, 2000
Ad hoc grant reviewer for the National Science Foundation, 1991-1996
Ad hoc grant reviewer for the Department of Agriculture, 1991-1995
Chair of the BCM Faculty Committee on Awards and Bridge Funding, 1998-present
Member of the BCM Faculty Appointments and Promotions Committee, 1998-present
Organizer of the Janelia Farm Research Conference "Improving the genetic toolkit for *Drosophila*", Ashburn, VA, 2007
Organizer of the 47th Annual *Drosophila* Research Conference, Houston, TX, 2006
Organizer of the Cold Spring Harbor Laboratory "Neurobiology of *Drosophila*" Meeting, 2001
Member of the Organization Committee for the biennial *Drosophila* Crete meetings, 1995-2000

EDITORIAL ACTIVITIES

Member of the Editorial Board of *eLife*, 2015-present
Member of the Editorial Board of *Genetics*, Associate Editor, 2013-present
Member of the Editorial Board of *F1000 Research*, 2012-present
Member of the Editorial Board of *PLoS Biology*, 2012-present
Academic Editor of *PLoS Biology*, 2007-present
Member of the Editorial Board of the *Journal of Cell Biology*, 2001-2016
Member of the Editorial Board of *Invertebrate Neuroscience*, 1996-2001
Editor of *Notch Signaling*, Methods in Molecular Biology (Book 1187), Humana Press, 2014
Editor of *Neurotransmitter Release*, Oxford University Press, 1999
Guest Editor for *Developmental Genetics*: "Focus on Neurogenesis", 1996
Reviewer for: *Cell*, *Cell Biochemistry and Biophysics*, *Current Biology*, *Development*, *Developmental Biology*, *Developmental Cell*, *Developmental Dynamics*, *eLife*, *EMBO Journal*, *EMBO Report*, *Genes and Development*, *Genetics*, *Genome Research*, *Journal of Cell Biology*, *Journal of Cell Science*, *Journal of Insect Physiology*, *Journal of Neurochemistry*, *Journal of Neuroscience*, *Mechanisms of Development*, *Molecular Cell*, *Molecular and Cellular Biology*, *Nature*, *Nature Cell Biology*, *Nature Genetics*, *Nature Methods*, *Nature Neuroscience*, *Nature Structure*, *Neuron*, *PLoS Biology*, *PLoS Genetics*, *PLoS One*, *Proceedings of the National Academy of Sciences USA*, and *Science*

TEACHING RELATED ACTIVITIES AT BAYLOR COLLEGE OF MEDICINE (BCM)

COURSES TAUGHT AND/OR COORDINATED

Evolutionary Conservation of Developmental Mechanisms (1992-present)
Seminar in Developmental Biology (1992-present)
Neural Development (1997-2003, 2007-present)
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 WORK

Member of the Thesis Advisory Committees of 85 Graduate Students in Other Laboratories, 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-present
Basic Sciences Representative of the BCM Faculty Senate, 2015-present
Chair of the BCM Basic Science Faculty Input Committee, 2011-2015
Member of the BCM Faculty Committee on Awards, 2008-present
Committee Member of the Barbara and Corbin J. Robertson, Jr. Presidential Award for Excellence in Education, BCM, 2001-2004
Member of the BCM Faculty Appointments and Promotions Committee, 1998-present
Member of more than 30 Faculty Recruitment Committees in the Departments of Molecular and Human Genetics, Molecular and Cellular Biology, and Neuroscience, 1990-present
Head of Search Committees for four faculty positions in the Department of Molecular and Human Genetics, 1995-2010
Head of the Search Committee for a Physiology Chair, 1997-1999
Member of the BCM Academic Council, 2000-2001
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

HHMI, PI, The demise of neurons in *Drosophila*, 08/1989 - 07/2019
NIH/NIGMS, PD/PI, 5R01GM067858-14, A comprehensive resource for manipulating the *Drosophila* genome, 05/01/2003 - 04/30/2019
NIH/NINDS, PD/PI, 5U54NS093793-02, Center for functional analysis of human UDN gene homologs in *Drosophila* and zebrafish, 09/15/2015 - 08/31/2018
NIH/OD, PD/PI, 1R24OD022005-01, PD/PI, A comprehensive human cDNA library for functional gene replacement in *Drosophila*, 06/01/16 - 05/31/20
Robert & Renée Belfer Family Foundation, PI, Mechanisms to suppress AD pathology, 09/01/2011 - 08/30/2018
Huffington Foundation, PI, Probing genes that cause Parkinson's Disease in flies, 06/01/2011 - 05/30/2021

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; PMCID: PMC1203051.
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 regulated genes and cell specific markers in *Drosophila*. *Journal of Physiology (Paris)* 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; PMCID: PMC1205011.

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 Ca²⁺-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; PMCID: PMC1206123.
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; PMCID: PMC45095.
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; PMCID: PMC45131.
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 Ca²⁺-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; PMCID: PMC1206492.
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; PMCID: PMC1207349.
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; PMCID: PMC1207492.
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; PMCID: PMC1207721.
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; PMCID: PMC2139837.
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; PMCID: PMC1208342.

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; PMCID: PMC1170364.
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; PMCID: PMC316841.
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; PMCID: PMC1460431.
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; PMCID: PMC316993.
57. **Bellen, H.J.** 1999. Ten years of enhancer detection: lessons from the fly. *Plant Cell* 11:2271-2281. PMID: 10590157; PMCID: PMC144146.
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.

60. Prokopenko, S.N., Saint, R., and **Bellen, H.J.** 2000. Tissue distribution of PEBBLE RNA and Pebble protein during *Drosophila* embryonic development. *Mechanisms of Development* 90:269-273. PMID: 10640710.
61. Mao, Y., Nickitenko, A., Duan, X., Lloyd, T.E., Wu, M.N., **Bellen, H.J.** and Quiocho, F.A. 2000. Crystal structure of the VHS and FYVE tandem domains of Hrs, a protein involved in membrane trafficking and signal transduction. *Cell* 100:447-456. PMID: 10693761.
62. Hassan, B.A., Bermingham, N.A., He, Y., Sun, Y., Jan, Y-N., Zoghbi, H.Y. and **Bellen, H.J.** 2000. *atonal* regulates neurite arborization but does not act as a proneural gene in the *Drosophila* brain. *Neuron* 25: 549-561. PMID: 10774724.
63. Ben-Arie, N., Hassan, B.A., Bermingham, N.A., Malicki, D.M., Armstrong, D., Matzuk, M., **Bellen, H.J.** and Zoghbi, H.Y. 2000. Functional conservation of *atonal* and *Math1* in the CNS and PNS. *Development* 127:1039-1048. PMID: 10662643.
64. Prokopenko, S.N., Saint, R. and **Bellen, H.J.** 2000. Untying the Gordian knot of cytokinesis. Role of small G proteins and their regulators. *Journal of Cell Biology* 148:843-848. PMID: 10704435; PMCID: PMC2174545.
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226. Chen, K., Ho, T.S., Lin, G., Tan, K.L., Rasband, M.N. and **Bellen, H.J.** 2016. Loss of Frataxin activates the iron/sphingolipid/PDK1/ Mef2 pathway in mammals. *eLife* 5:e20732. PMID: 27901468; PMCID: PMC5130293.
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235. Wangler, M.F. and **Bellen H.J.** 2017. (Book Chapter) In vivo animal modeling: Drosophila. *In Basic Science Methods for Clinical Researchers.* Elsevier Science and Technology Books. Editors: M. Jalali, F.Y.L Saldanha, M. Jalali. Academic Press, pp. 212-236.
236. Chao, H-T, Liu, L. and **Bellen, H.J.** 2017. Building dialogues between clinical and biomedical research through cross-species collaborations. *Seminars in Cell and Developmental Biology* S1084-9521(17)30260-4. Review. Epub ahead of print. PMID: 28579453.
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238. Wangler, M.F., Yamamoto, S., Chao H.T., Posey, J.E., Westerfield, M., Postlethwait, J., Members of the UDN, Hieter, P., Boycott, K.M., Campeau, P.M. and **Bellen, H.J.** 2017. Model organisms in undiagnosed rare disease. *Genetics*, in press.
239. Kanca, O., **Bellen, H.J.** and Schnorrer, F. 2017. Gene tagging strategies to assess protein localization, protein inactivation, and conditionally express other genes in *Drosophila*. *Flybook, Genetics*, in press.
240. Liu, L., Maletic-Savatic, M. and **Bellen, H. J.** 2017. A neuron-glia lactate shuttle and lipid transfer mediated by ApoE/D affect lipid droplets and neurodegeneration. *Cell Metabolism*, in revision.
241. Lin, G., Lee, P.T., Chen K., Mao D., Tan, K.L., Zuo Z., Lin, W.W. and **Bellen, H.J.** 2017. Loss of phospholipase *PLA2G6/PARK14* disrupts ceramide metabolism, retromer function, and causes a progressive loss of neuronal function. *Neuron*, in submission.
242. Ugur, B., Bao, H., Stawarski, M., Duraine, L., Zuo, Z., Macleod, G.T., Chapman, E.R. and **Bellen, H. J.** 2017. A Krebs cycle metabolite, α -ketoglutarate, promotes synaptic transmission via Synaptotagmin 1. *Neuron*, in submission.
243. Haelterman N., Tan, K.L., Kwartler, C.S., Regalado E.S., Lee P.T., Nagarkar-Jaiswal S., Guo D.C., Duraine, L., Wangler, M.F., University of Washington Center for Mendelian Genomics, Bamshad, M.J., Nickerson D., Milewicz, D.M. and **Bellen, H.J.** 2017. Ari-1 regulates nuclear organization with Parkin and variants in human *ARIH1* are associated with aortic aneurysms. *Nature Cell Biology*, in submission.
244. Li, T., **Bellen, H.J.** and Groves, A.K. 2017. Comparative studies of *Drosophila* and mammalian hearing organs: Can their genetic and functional homologies reveal pathogenic mechanisms of hearing defects? *Disease Models & Mechanisms*, in submission.

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 (R.U.C.A.), 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 (R.U.C.A.), 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", Blaffer 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", Boehringer 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 V₀ 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 V₀ 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 V₀ 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 University 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 International 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, September 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 Neurobiology, 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, October 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", Department 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, November 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 University, 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 Research 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 University, College Station, TX, 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, University of Colorado at Boulder, CO, 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, Worcester, MA, December 2014

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

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

"Mitochondria and neurodegeneration", Genetics Section, University of Florida, FL, Gainesville, 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 University, New York, 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, February 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, University of California, Los Angeles, 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 Conference, "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, September 2016

"The role of mitochondria, glia, and lipid droplets in the demise of neurons", Keynote Lecture, Gill Symposium on Glia, Linda and Jack Gill Center for Biomolecular Science, Indiana University, Bloomington, 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 to study disease associated variants and pathogenic mechanisms", Program in Developmental Biology, Baylor College of Medicine, Annual Retreat, Galveston, TX, February 2017

"The Undiagnosed Disease 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 Disease 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, June 2017

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

"The Undiagnosed Disease 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 Disease 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

"TBA", Keynote speaker, Neurobiology of *Drosophila* Meeting, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, October 2017

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

- Elizabeth D. Eldon**, Ph.D., 1990-1992, Associate Professor, California State University, Long Beach, CA
- Yun-Taik Kim**, Ph.D., 1991-1992, Professor, Keong University, Seoul, Korea
- Pyung-Lim Han**, Ph.D., 1992-1993, Professor, Ewha Womans University, Incheon, Korea
- Adi Salzberg**, D.Sc., 1992-1995, Associate Professor, Technion-Israel Institute of Technology, Haifa, Israel
- Ja-Kyeong Lee**, Ph.D., 1993-1995, Professor, Inha University Medical School, Incheon, Korea
- Manzoor A. Bhat**, Ph.D., 1994-1999, Professor and Chair, Department of Physiology, 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, 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, Associate Professor, 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, 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, Associate Professor, Pasteur Institute of Lille, France
- Tanja Rosenmund**, Ph.D., 2004-2006, Program Coordinator, Spark Berlin, Charité University Hospital, Berlin, Germany
- Peter Robin Hiesinger**, Ph.D., 2000-2006, Professor, Free University Berlin and NeuroCure Cluster of Excellence, Charité University Hospital, Berlin, Germany
- Patrik Verstreken**, Ph.D., 2003-2006, Professor and Director, Center for Brain & Disease Research, Flanders Interuniversity Institute for Biotechnology (V.I.B.), University of Leuven, Belgium
- Hamed Jafar-Nejad**, M.D., 2000-2006, Associate Professor, Baylor College of Medicine, Houston, TX
- Rong Grace Zhai**, Ph.D., 2001-2006, Associate Professor, University of Miami, FL
- Amir Fayyazuddin**, Ph.D., 2000-2008, Research Scientist, Dart NeuroScience, San Diego, CA
- Hiroshi Tsuda**, M.D./Ph.D., 2005-2007, Jr Associate Professor, Medical Research Institute, Tokyo Medical and Dental University, Japan
- Prajal Patel**, Ph.D., 2007-2009, Research Associate, College of the Holy Cross, Worcester, MA (Geoff Findley)
- Chao Tong**, Ph.D., 2006-2011, Associate Professor, Zhejiang University, Hangzhou, China
- Timothy R. Mahoney**, Ph.D., 2008-2011, Director, Special Projects, Pediatrics-Oncology, Baylor College of Medicine, Houston, TX
- Chi-Kuang Yao**, Ph.D., 2006-2011, Assistant Professor, Academia Sinica, Taipei, Taiwan
- Michael F. Wangler**, M.D., 2009-2011, Assistant Professor, Baylor College of Medicine, Houston, TX
- Yong-Qi Lin**, Ph.D., 2007-2011, Research Scientist, University of Sydney, Australia (Greg Neely)
- Nikolaos Giagtzoglou**, Ph.D., 2004-2013, Senior Research Scientist, Biogen Idec, Inc, Boston, MA
- Shinya Yamamoto**, D.V.M., Ph.D., 2011-2013, Assistant Professor, Baylor College of Medicine and Jan and Dan Duncan Neurological Research Institute, Texas Children's Hospital, Houston, TX
- Elaine S. Seto**, M.D., Ph.D., 2011-2013, Assistant Professor, Baylor College of Medicine and Texas Children's Hospital, Houston, TX
- Koen J.T. Venken**, Ph.D., 2007-2013, Assistant Professor, Baylor College of Medicine, Houston, TX

Hector Sandoval, Ph.D., 2009-2016, Assistant Research Professor, Methodist Research Institute and Weill Cornell Medicine, Houston, TX
Manish Jaiswal, Ph.D., 2007-2016, Reader, TIFR Centre for Interdisciplinary Sciences, Hyderabad, India
Wan Hee Yoon, Ph.D., 2011-2017, Assistant Professor, Oklahoma Medical Research Foundation, Oklahoma City, OK
Sonal Nagarkar Jaiswal, Ph.D., 2012-2017, Research Scientist, TIFR Centre for Interdisciplinary Sciences, Hyderabad, India
Ning Liu, Ph.D., 2015-2017, Clinical Laboratory Fellowship Trainee, Clinical Biochemical Genetics Laboratory Fellow, Baylor College of Medicine, Houston, TX
Guang Lin, Ph.D., 2011-present
David Li-Kroeger, Ph.D., 2012-present
Nichole Link, Ph.D., 2012-present
Pei-Tseng Lee, Ph.D., 2013-present
Megan Campbell, Ph.D., 2014-present
Oguz Kanca, Ph.D., 2015-present
Sathiyarayanan Manivannan, Ph.D., 2015-present
Xi Luo, Ph.D., 2015-present
Paul Marcogliese, Ph.D., 2016-present
Hyunglok Chung, Ph.D., 2016-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, Associate Professor and Director, Neural Circuit Development Research Unit, Montreal Clinical Research Institute (IRCM), and Professor, University of Montréal, Canada
Ph.D. in Genetics, 1996

Karen L. Schulze, Research Specialist, HHMI & Baylor College of Medicine, Houston, TX (Hugo Bellen)
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, Freelance Medical Writer and Editor, Greater Seattle Area, WA
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, Associate 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, Lecturer, School of Applied & Health Sciences, Institute of Technical Education, Singapore

Ph.D. in Developmental Biology, 2000

Platform Presenter representing the Program in Developmental Biology, BCM Annual Graduate Student Symposium, 2000

Robert B. Beckstead, Associate Professor, North Carolina State University, Raleigh, NC

Ph.D. in Molecular and Cellular Biology, 2001

Thomas E. Lloyd, Associate Professor, Johns Hopkins University School of Medicine, Baltimore, MD

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, Professor and Director, Center for Brain & Disease Resesarch, 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

Elaine S. Seto, Assistant Professor, Pediatrics-Neurology, Baylor College of Medicine and 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 Medical Scientist Training Program 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, Assistant Professor, Temasek Life Sciences Laboratory, 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, Assistant Professor, Bahcesehir University (BAU), Istanbul, Turkey

Ph.D. in Developmental Biology, 2006

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

Ph.D. in Developmental Biology, 2007

Koen J.T. Venken, Assistant Professor, 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, Staff Scientist, Baylor College of Medicine (Michael Wangler and Shinya Yamamoto), Houston, TX

Ph.D. in Developmental Biology, 2008

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

- An-Chi Tien**, Postdoctoral Associate, University of California, San Francisco (David Rowitch)
Ph.D. in Developmental Biology, 2009
- Cindy V. Ly**, Neuromuscular Fellow, Washington Univ School of Medicine, St. Louis, MO (Tim Miller)
M.D., Ph.D. in Neuroscience, 2008; M.D., 2009
- Akhila Rajan**, Assistant Member/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
- Tomoko Ohyama**, Assistant Professor, McGill University, Montréal, Canada
Ph.D. in Genetics, 2009
- Shinya Yamamoto**, Assistant Professor, Baylor College of Medicine and Neurological Research Institute, Texas Children's Hospital, 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**, Postdoctoral Fellow, Stanford University (Bingwei Lu)
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**, Assistant Professor, Tongji Medical College, Huazhong University 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**, Postdoctoral Associate, Johns Hopkins University School of Medicine (Tom Lloyd)
Ph.D. in Structural and Computational Biology and Molecular Biophysics, 2013
- Wu-Lin Charng**, Postdoctoral Associate, Washington University, St. Louis (Don Conrad)
Ph.D. in Developmental Biology, 2013
Supported by the Taiwan Merit Scholarships Program sponsored by the National Science Council of Taiwan
- Shiuan (Kevin) Wang**, Oncology Medical Scientific Liaison, MSD, Taipei, Taiwan
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, Neurofeedback Therapy Center/ Start up Company, Dubai, United Arab Emirates
Ph.D. in Developmental Biology, 2016
- Gabriela David-Morrison**, Scientific Editor, BioScience Writers, LLC and Biosciences Account Manager, Thermo Fisher Scientific, San Diego Area, CA
Ph.D. in Developmental Biology, 2016
- Nele A. Haelterman**, Postdoctoral Associate, Baylor College of Medicine (Brendan Lee)
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 on muscles, 2017

Kuchuan Chen, Postdoctoral Associate, Harvard University (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, Postdoctoral Associate, Stanford University (Liquon Luo)
Ph.D. in Developmental Biology, 2016
 Award from the Chinese government for outstanding Scholar

Lu (Lucy) Liu, (from September 2017) Postdoctoral Associate, Harvard University (Norbert Perrimon)
Ph.D. Candidate in Neuroscience, 2012-present
 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

Mumine Senturk, Ph.D. Candidate in Developmental Biology, 2011-present

Kai Li Tan, Ph.D. Candidate in Developmental Biology, 2011-present
 John J. Trentin Award for Scholastic Excellence, 2011; Second place poster award, BCM Annual Graduate Student Symposium, 2015

Berrak Ugur, Ph.D. Candidate in Developmental Biology, 2012-present
 First place poster award, BCM Annual Graduate Student Symposium, 2015

Dongxue Mao, Ph.D. Candidate in Developmental Biology, 2012-present

Julia Wang, M.D./Ph.D. Candidate in Developmental Biology, 2016-present
 McNair Award (supported for her entire PhD)

Colleen Brady, M.D./Ph.D. Candidate in Developmental Biology, 2017-present

Thomas Ravenscroft, Ph.D. Candidate in Molecular and Human Genetics, 2017-present

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
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Carsten Stuckenholtz, 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

Sungwoo Choi (Developmental Biology), 2011-present
Antonia De Maio (Developmental Biology), 2011-present
Sena Ozseker (Developmental Biology), 2011-present
Burak Tepe (Developmental Biology), 2012-present
Chang-Ru Tsai (Developmental Biology), 2013-present
Jenny Sun (Neuroscience), 2013-present
Lakshya Bajaj (Molecular & Human Genetics), 2013-present
Yi-Chen Hsieh (Molecular & Human Genetics), 2014-present
Marissa A. Scavuzzo (Developmental Biology), 2014-present
Seung-Yeop Han (Molecular & Human Genetics), 2014-present
Gabriel Vazquez Velez (Developmental Biology), 2016-present
Joshua Ortiz (Developmental Biology), 2016-present