# CURRICULUM VITAE

# Howard David Lipshitz

#### **CONTACT INFORMATION:**

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## EDUCATION:

University of Natal#, Durban, Natal, South Africa1976B. Sc., Biological Sciences and Mathematical Statistics1977B. Sc. (Hons.) cum laude, Biological SciencesYale University, New Haven, Connecticut1980M. Phil., Biology1983Ph. D., BiologyStanford University, Stanford, California1983 – 1986Postdoctoral, Biochemistry

## ACADEMIC LEADERSHIP POSITIONS HELD:

#### Current 2015 – present Co-Director, Joint Institute of Genetics and Genome Medicine, University of Toronto – Zhejiang University. 2016 – present Senior Advisor to the Chair on International Partnerships, Department of Molecular Genetics, University of Toronto, Canada. Previous 1996: Acting Head, Program in Developmental Biology, Research Institute, The Hospital for Sick Children, Toronto, Canada. 1997 – 2001: Associate Director (Faculty Development), Research Institute, The Hospital for Sick Children, Toronto, Canada. 2001 – 2005: Head, Program in Developmental Biology, Research Institute, The Hospital for Sick Children, Toronto, Canada. 2007 - 2010: Associate Director, Terrence Donnelly Centre for Cellular & Biomolecular Research, University of Toronto, Toronto, Canada. 2005 – 2016: Chair, Department of Molecular Genetics, University of Toronto, Toronto, Canada.

## ACADEMIC APPOINTMENTS:

#### Current

1995 – present	Professor, Department of Molecular Genetics, University of Toronto, Canada.
1995 – present	Member, Collaborative Graduate Specialization in Developmental Biology,
	University of Toronto, Canada.

<sup>&</sup>lt;sup>#</sup> Now the University of Kwazulu-Natal

#### Previous 1986 - 1992: Assistant Professor, Division of Biology, California Institute of Technology, Pasadena, California Associate Professor (with tenure), Division of Biology, California Institute of 1992 – 1995: Technology, Pasadena, California Visiting Associate, Division of Biology, California Institute of Technology, Pasadena, 1995 – 1999: California 1995 – 2017: Senior Scientist, Program in Developmental & Stem Cell Biology, Research Institute, The Hospital for Sick Children, Toronto, Canada. 1996 - 1998: Senior Scientist, Department of Genetics, The Hospital for Sick Children, Toronto, Canada. 1999 - 2008 Member, Institute of Medical Science, University of Toronto, Toronto, Canada. 2002 - 2008: Canada Research Chair in Developmental Biology (Tier 1), University of Toronto, Toronto, Canada. 2012 - 2018 Honorary Professor, Department of Biochemistry, University of Hong Kong 2018 - 2019 Honorary Professor, School of Biomedical Sciences, University of Hong Kong 2015 - 2017 Adjunct Professor, Zhejiang University School of Medicine, Hangzhou, China 2017 - 2020 Qiushi Chair Professor, Zhejiang University School of Medicine, Hangzhou, China 2017 Gordon and Betty Moore Distinguished Scholar, California Institute of Technology, USA

## HONORS & AWARDS:

- •University of Natal Scholarship (1973 1976)
- •Damant Science Prize, University of Natal (1975)
- •Council for Scientific and Industrial Research Scholarship (held at University of Natal) (1976)
- •South African National Scholarship (held at Yale University) (1978 1980)
- •Yale University Graduate Fellowship (1978, 1979 1981)
- •Davenport Hooker Memorial Fellowship in the Biological Sciences, Yale University (1978 1979)
- •Sigma Xi, The Scientific Research Society, Grant-in-Aid of Research (held at Yale University) (1980 1981)
- •Helen Hay Whitney Foundation Postdoctoral Fellowship (held at Stanford University) (1983 1986)
- •Searle Scholar (held at California Institute of Technology) (1988 1991)
- •Fellow, American Association for the Advancement of Science (1990)
- •Canada Research Chair (Tier 1) in Developmental Biology (held at University of Toronto) (2002 2008)
- •Elliot Osserman Award for Distinguished Service in Support of Cancer Research, Israel Cancer Research Fund (2008)
- •Honorary Professor, Department of Biochemistry, University of Hong Kong (2012 2015)
- •Adjunct Professor, Zhejiang University School of Medicine, Hangzhou, China (2015 2017)
- •Gordon and Betty Moore Distinguished Scholar, California Institute of Technology (2017)
- •Qiushi Chair Professor, Zhejiang University School of Medicine, Hangzhou, China (2017 2020)

## ELECTED OFFICE/SERVICE:

#### Current

- •International Scientific Advisory Board, Israel Cancer Research Fund, New York, NY (2008 present)
- •Scientific Advisory Committee, "Rare Diseases: Models & Mechanisms Network", Canadian Institutes of Health Research (2012 – present)

- •Advisory Committee on "Hundred Talents Recruiting Program", College of Life Sciences, Zhejiang University, China (2014 present)
- •Co-Director & Member of the Executive Committee, Joint Institute of Genetics and Genome Medicine, University of Toronto Zhejiang University (2015 present).
- •Canadian Society for Molecular Biosciences, Advocacy & Communications Committee, Member-at-Large (2020 – present)
- •Board of Directors, Genetics Society of America (Ex Officio, as Editor-in-Chief of GENETICS) (2021 present).

#### Previous

- •Federation of American Societies of Experimental Biology, Research Conference Advisory Committee (2001 – 2003; Committee Chair, 2003)
- •Society for Developmental Biology, Board of Directors (Canada Representative; 2000 2006)
- •The Gairdner Foundation, Medical Review Panel, Toronto (2002 2007)
- •National *Drosophila* Board, Bethesda, Maryland (Canada Representative; 2006 2009)
- •Co-Director, Canadian *Drosophila* Microarray Centre, University of Toronto, Mississauga (2000 2015)
- •Developmental Genetics & Birth Defects Priority and Planning Committee, Institute of Genetics, Canadian Institutes of Health Research (2002 – 2012)
- •Ad Hoc Committee on Rejuvenation of the Annual Drosophila Research Conference, National Drosophila Board, USA (2016)
- •Chair, Publications Committee, Genetics Society of America (2019 2020).

## EDITORIAL BOARDS:

## Current

•Editor in Chief, GENETICS (2021 – present)

## Previous

- •Guest Editor, The FASEB Journal (March 1999; Special issue on RNA Localization)
- •Consulting Editor, *Pediatric Research* (2002 2005)
- •Associate Editor, Zygote (1993 2014)
- •Editorial Board, Differentiation (2000 2013)
- •Editorial Board, Developmental Dynamics (2004 2015)
- •Associate Editor, G3: Genes/Genomes/Genetics (2011 2016)
- •Managing Guest Editor, Methods (2017; Special Issue on Post-transcriptional Regulation)
- •Senior Editor, G3: Genes/Genomes/Genetics (2016 2020)

# **GRANT REVIEW PANEL MEMBERSHIP:**

## Current

- Canadian Institutes of Health Research, College of Reviewers (2017 present)
- Canadian Institutes of Health Research, Genomics, Systems & Computational Biology (GMX) Grant Review Panel (2019 – present)

## Previous

- •National Institutes of Health, Special Study Section, Member (1989)
- •American Cancer Society, Nucleic Acids & Proteins Study Section, Member (1990)
- •American Heart Association, Greater Los Angeles Affiliate, Study Section (1993)
- •National Science Foundation, Eukaryotic Genetics Advisory Panel (1993 1996)
- •American Cancer Society (California Division), Fellowship Committee (1994 1997)
- •Ontario Genomics Institute/Genome Canada Review Panel (2001)
- •National Cancer Institute of Canada, review Panel H (2000 2003)

- •Israel Cancer Research Fund, Scientific Review Panel A, New York (2006 2008)
- •Canadian Institutes of Health Research, Innovative Technology/High Risk Grants Panel (2007 2010)

# MEMBERSHIP IN PROFESSIONAL SOCIETIES (CURRENT):

- •American Association for the Advancement of Science (elected Fellow, 1990)
- •Genetics Society of America
- •Society for Developmental Biology
- •Canadian Society for Molecular Biosciences
- •RNA Society
- •Council of Science Editors

# PUBLICATIONS:

# (\* = corresponding author; <u>underline</u> = H.L.'s trainees/staff):

- 1. *Lipshitz, H.D.*, Berjak, P., Pammenter, N.W., and Davey, J.E. (1975) A note on the apparent redistribution of crabs in the Saco mangrove swamp, Inhaca Island, Mocambique. *South African Journal of Science* **71**, 55-57. [Note: Surname was misspelled on publication as Lipschitz.]
- \*Kankel, D.R. and Lipshitz, H.D. (1981) Allelic variability at loci affecting the development and function of the visual system. In: "Genetic Dissection of Behavior in *Drosophila*", Proc. Seventh International Symposium, Division of Physics, Tanaguchi Foundation, Japan (Ed.: Y. Hotta), Pp. 215-238.
- 3. *Lipshitz, H.D.* and \*Kankel, D.R. (1985) Developmental interactions between the peripheral and central nervous system in *Drosophila melanogaster*: analysis of the mutant, *two-faced*. *Developmental Biology* **107**, 1-12.
- 4. *Lipshitz, H.D.* and \*Kankel, D.R. (1985) Specificity of gene action during central nervous system development in *Drosophila melanogaster*: analysis of the *lethal (1) optic ganglion reduced* locus. *Developmental Biology* **108**, 56-77.
- \*Hogness, D.S., *Lipshitz, H.D.*, Beachy, P.A., Peattie, D.A., Saint, R.B., Goldschmidt-Clermont, M., Harte, P.J., Gavis, E.R., Helfand, S.L. (1985) Regulation and products of the *Ubx* domain of the bithorax complex. *Cold Spring Harbor Symposia on Quantitative Biology* 50, 181-194.
- 6. *Lipshitz, H.D.*, Peattie, D.A. and \*Hogness, D.S. (1987) Novel transcripts from the *Ultrabithorax* domain of the bithorax complex. *Genes & Development* **1**, 307-322.
- 7. \*Thummel, C.S., Boulet, A. M. and \**Lipshitz, H.D.* (1988) Vectors for *Drosophila* P-elementmediated transformation and tissue culture transfection. *Gene* **74**, 445-456.
- 8. <u>Strecker, T.R., Halsell, S.R., Fisher, W.W.</u> and \**Lipshitz, H.D.* (1989) Reciprocal effects of hyperand hypoactivity mutations in the *Drosophila* pattern gene *torso*. *Science* **243**, 1062-1066.
- Palazzolo, M.J., Hamilton, B.A., <u>Ding, D.</u>, Martin, C.H., Mead, D.A., Mierendorf, R.C, Vijay Raghavan, K., \*Meyerowitz, E.M. and \**Lipshitz, H.D.* (1990) Phage lambda cDNA cloning vectors for subtractive hybridization, fusion protein expression and Cre-*loxP* automatic plasmid subcloning. *Gene* 88, 25-36.
- <u>Strecker, T.R.</u> and \**Lipshitz, H.D.* (1990) Functions of the *Drosophila* terminal genes in establishing embryonic pattern. In: "Developmental Biology", UCLA Symposia on Molecular and Cellular Biology, New Series, Volume 125, Eds: E. Davidson, J. Ruderman, J. Posakony, Wiley-Liss, N.Y., Pp. 85-94.
- 11. <u>Strecker, T.R., Yip, M.-L. R</u>. and \**Lipshitz, H.D*. (1991) Zygotic genes that mediate *torso* receptor tyrosine kinase functions in the *Drosophila* embryo. *Proceedings of the National Academy of Sciences USA* **88**, 5824-5828.
- 12. Lipshitz, H.D. (1991) Axis specification in the Drosophila embryo. Current Opinion in Cell Biology 3, 966-975.

- 13. <u>Strecker, T.R., Yip, M.-L.R</u>. and \**Lipshitz, H.D*. (1992) Genetic control of cell fate in the termini of the Drosophila embryo. *Developmental Biology* **150**, 422-426.
- 14. \*<u>Parkhurst, S.M.</u>, *Lipshitz, H.D.* and Ish-Horowicz, D. (1993) *Achaete-scute* feminizing activities and *Drosophila* sex-determination. *Development* **117**, 737-749.
- 15. <u>Ding, D., Parkhurst, S.M</u>. and \**Lipshitz, H.D*. (1993) Different genetic requirements for anterior RNA localization revealed by the distribution of *Adducin-like* transcripts during *Drosophila* oogenesis. *Proceedings of the National Academy of Sciences USA* **90**, 2512-2516.
- 16. <u>Ding, D., Parkhurst, S.M., Halsell, S.R</u>. and \**Lipshitz, H.D*. (1993) Dynamic *Hsp83* RNA localization during *Drosophila* oogenesis and embryogenesis. *Molecular & Cellular Biology* **13**, 3773-3781.
- 17. <u>Ding, D</u>. and \**Lipshitz, H.D*. (1993) A molecular screen for polar-localized maternal RNAs in the early embryo of *Drosophila*. *Zygote* **1**, 257-271.
- 18. Ding, D. and \*Lipshitz, H.D. (1993) Localized RNAs and their functions. BioEssays 15, 651-658.
- 19. <u>Ding, D., Whittaker, K.L</u>. and \**Lipshitz, H.D*. (1994) Mitochondrially encoded 16S large ribosomal RNA is concentrated in the posterior polar plasm of early *Drosophila* embryos but is not required for pole cell formation. *Developmental Biology* **163**, 503-515.
- 20. <u>Ding, D.</u> and \**Lipshitz, H.D.* (1994) Spatially regulated expression of retrovirus-like transposons during *Drosophila melanogaster* embryogenesis. *Genetical Research* 64, 167-181.
- 21. *Lipshitz, H.D.* (Editor) (1995) *Localized RNAs*. Molecular Biology Intelligence Unit. R.G. Landes Co., Austin, Texas/Springer, New York, 322 pp.
- 22. *Lipshitz, H.D.* (1995) Introduction. In: *Localized RNAs*. (Lipshitz, H., Ed.) Molecular Biology Intelligence Unit. R.G. Landes Co., Austin, Texas. Pp. 1 8.
- <u>Halsell, S.R</u>. and \**Lipshitz, H.D*. (1995) Mechanisms and functions of RNA localization to the posterior pole of the *Drosophila* oocyte and early embryo. In: *Localized RNAs*. (Lipshitz, H., Ed.) Molecular Biology Intelligence Unit. R.G. Landes Co., Austin, Texas. Pp. 9 39.
- 24. <u>Whittaker, K.L</u>. and \**Lipshitz, H.D*. (1995) Mechanisms and functions of RNA localization to the anterior pole of the *Drosophila* oocyte and early embryo. In: *Localized RNAs*. (Lipshitz, H., Ed.) Molecular Biology Intelligence Unit. R.G. Landes Co., Austin, Texas. Pp. 41 61.
- 25. <u>Zaccai, M</u>. and \**Lipshitz, H.D.* (1996) Differential distributions of two adducin-like protein isoforms in the *Drosophila* ovary and early embryo. *Zygote* **4**, 159-166.
- \*Verdi, J.M., Schmandt, R., <u>Bashirullah, A.</u>, Jacob, S., Salvino, R., Craig, C.G., Amgen EST Program, *Lipshitz, H.D* and \*McGlade, C.J. (1996) Mammalian NUMB is an evolutionarily conserved signaling adapter protein that specifies cell fate. *Current Biology* 6, 1134-1145.
- 27. *Lipshitz, H.D.* (1996) Resynthesis or revisionism? (letter to the editor) *Developmental Biology* **177**, 616-618.
- 28. <u>Zaccai, M</u>. and \*Lipshitz, H.D. (1996) Roles of Adducin-like (hu-li tai shao) mRNA and protein localization in regulating cytoskeletal structure and function during *Drosophila* oogenesis and early embryogenesis. *Developmental Genetics* **19**, 249-257.
- 29. <u>Yip, M.L.R</u>. and \**Lipshitz, H.D*. (1996) The terminal gene hierarchy of *Drosophila* and the genetic control of tissue specification and morphogenesis. *Advances in Developmental Biology* Volume 4 (Wassarman, P., Ed.) JAI Press, Connecticut. Pp. 83-146.
- 30. <u>Yip, M.L.R., Lamka, M.L.</u> and \**Lipshitz, H.D.* (1997) Control of germ band retraction in *Drosophila* by the Zinc-finger protein HINDSIGHT. *Development* **124**, 2129-2141.
- Cohen, B., <u>Bashirullah, A.</u>, Dagnino, L., Campbell, C., Fisher, W., Whiting, E., Leow, C.C., Ryan, D., Zinyk, D., Boulianne, G., Hui, C.C., Gallie, B., Phillips, R.A., *Lipshitz, H.D.* and \*Egan, S.E. (1997)
   Fringe boundaries coincide with Notch-dependent patterning centers in mammals and alter Notch-dependent development in *Drosophila. Nature Genetics* 16, 283-288.

- 32. <u>Cooperstock, R.L</u>. and \**Lipshitz, H.D*. (1997) Control of mRNA stability and translation during Drosophila development. Seminars in Cell & Developmental Biology **8**, 541-549.
- 33. <u>Bashirullah, A., Cooperstock, R.</u> and *\*Lipshitz, H.D.* (1998) RNA localization in development. Annual Review of Biochemistry **67**, 335-394.
- Bashirullah, A. Halsell, S.R., Cooperstock, R.L., Kloc, M., Karaiskakis, A., Fisher, W.W., Fu, W., Hamilton, J.K., Etkin, L.D. and \*Lipshitz, H.D. (1999) Joint action of two RNA degradation pathways controls the timing of maternal transcript elimination at the midblastula transition in Drosophila melanogaster. EMBO Journal 18, 2610-2620.
- 35. \*Etkin.L.D and \*Lipshitz, H.D. (1999) RNA localization. FASEB Journal 13, 419-420.
- \*Verdi, J.M., <u>Bashirullah, A.</u>, Goldhawk, D.E., Kubu, C.J., Jamali, M., Meakin, S.O. and *Lipshitz*, *H.D.* (1999) Distinct human NUMB isoforms regulate differentiation versus proliferation in the neuronal lineage. *Proceedings of the National Academy of Sciences USA* 96, 10472-10476.
- 37. <u>Lamka, M.L</u>. and \**Lipshitz, H.D*. (1999) The role of the amnioserosa in germ band retraction of the Drosophila melanogaster embryo. Developmental Biology **214**, 102-112.
- 38. <u>Whittaker, K.L., Ding, D., Fisher, W.W.</u> and \**Lipshitz, H.D.* (1999) Different 3' untranslated regions target alternatively processed *hu-li tai shao* (*hts*) transcripts to distinct cytoplasmic locations during *Drosophila* oogenesis. *Journal of Cell Science* **112**, 3385-3398.
- 39. <u>Wilk, R., Reed, B.H.</u>, Tepass, U. and \**Lipshitz, H.D*. (2000) The *hindsight* gene is required for epithelial maintenance and differentiation of the tracheal system in *Drosophila*. *Developmental Biology* **219**, 183-196.
- 40. *Lipshitz, H.D.* (2000) Flying into the post-genome era. (News & Views) *Journal of Pediatric Gastroenterology & Nutrition* **31**, 1-2.
- 41. \*Lipshitz, H.D. and Smibert, C.A. (2000) Mechanisms of RNA localization and translational regulation. *Current Opinion in Genetics & Development* **10**, 476-488.
- Pannell, D., Osborne, C.S., Yao, S., Sukonnik, T., Pasceri, P., <u>Karaiskakis, A.</u>, Okano, M., Li, E., Lipshitz, H.D. and \*Ellis, J. (2000) Gene silencing by MoMLV and HIV-1 vectors is de novo methylase-independent and marked by a repressive histone code. EMBO Journal 19, 5884-5894.
- 43. <u>Cooperstock, R.L.</u> and \**Lipshitz, H.D.* (2001) RNA localization and translational regulation during axis specification in the *Drosophila* oocyte. *International Review of Cytology* **203**, 541-566.
- 44. <u>Bashirullah, A., Cooperstock, R.L</u>. and \**Lipshitz, H.D.* (2001) Spatial and temporal control of RNA stability. *Proceedings of the National Academy of Sciences USA* **98**, 7025-7028.
- 45. <u>Reed, B.A., Wilk, R.</u> and \**Lipshitz, H.D.* (2001) Downregulation of Jun kinase signaling in the amnioserosa is essential for dorsal closure of the *Drosophila* embryo. *Current Biology* **11**, 1098-1108.
- 46. <u>Pickup, A.T., Lamka, M.L., Sun, Q., Yip, M.L.R.</u> and \**Lipshitz, H.D.* (2002) Control of photoreceptor cell morphology, planar polarity and epithelial integrity during *Drosophila* eye development. *Development* **129**, 2247-2258.
- <u>Tadros, W., Houston, S.A., Bashirullah, A., Cooperstock, R.L., Semotok, J.L., Reed, B.H.</u> and \**Lipshitz, H.D.* (2003) Regulation of maternal transcript destabilization during egg activation in *Drosophila. Genetics* 164, 989-1001.
- 48. \*Burtis, K.C., Hawley, R.S. and \**Lipshitz, H.D.* (2003) The 2003 Thomas Hunt Morgan Medal: David S. Hogness. *Genetics* **164**, 1243-1245.
- 49. *Lipshitz, H.D.* (Editor) (2004) "Genes, Development & Cancer: The Life and Work of Edward B. Lewis", Kluwer Academic Publishers, Boston, Massachusetts. (ISBN-4020-7591-X; 576 pp.)
- 50. *Lipshitz, H.D.* (2004) E.B. Lewis and his science. In: *Lipshitz, H.D.* (Editor) "Genes, Development & Cancer: The Life and Work of Edward B. Lewis", Kluwer Academic Publishers, Boston, Massachusetts. Pp. 3-9.

- Lipshitz, H.D. (2004) Lewis and the nature of the gene. In: Lipshitz, H.D. (Editor) "Genes, Development & Cancer: The Life and Work of Edward B. Lewis", Kluwer Academic Publishers, Boston, Massachusetts. Pp. 13-29.
- Lipshitz, H.D. (2004) Lewis and the genetic control of development. In: Lipshitz, H.D. (Editor) "Genes, Development & Cancer: The Life and Work of Edward B. Lewis", Kluwer Academic Publishers, Boston, Massachusetts. Pp. 157-174.
- Lipshitz, H.D. (2004) Lewis and the molecular control of development. In: Lipshitz, H.D. (Editor) "Genes, Development & Cancer: The Life and Work of Edward B. Lewis", Kluwer Academic Publishers, Boston, Massachusetts. Pp. 275-286.
- 54. Lipshitz, H.D. (2004) Lewis and the somatic effects of ionizing radiation. In: Lipshitz, H.D. (Editor)
   "Genes, Development & Cancer: The Life and Work of Edward B. Lewis", Kluwer Academic
   Publishers, Boston, Massachusetts. Pp. 389-404.
- 55. <u>Wilk, R., Pickup, A.T.</u> and \**Lipshitz, H.D.* (2004) Epithelial morphogenesis. In: Encyclopedia of Molecular Cell Biology & Molecular Medicine, Vol. 4 (2nd Edition). Pp. 277-304 (Ed: R.A. Myers). Wiley-VCH, Weinheim, Germany.
- 56. <u>Reed, B.H., Wilk, R</u>., Schöck, F. and \**Lipshitz, H.D.* (2004) Integrin-dependent apposition of Drosophila extraembryonic membranes promotes morphogenesis and prevents anoikis. *Current Biology* **14**, 372-380
- 57. *Lipshitz, H.D.* (2004) Professor Edward Lewis: Nobel prizewinning classical geneticist who discovered "master regulator" genes (Obituary). *The Independent (UK)* 27 July 2004, P. 34.
- 58. *Lipshitz, H.D.* (2004) From fruit flies to fallout: Ed Lewis and his science. *Journal of Genetics* **83**, 201-218.
- 59. <u>Wilk, R., Pickup, A.T., Hamilton, J.K., Reed, B.H.</u>, and \**Lipshitz, H.D.* (2004) Dose-sensitive autosomal modifiers identify candidate genes for tissue autonomous and tissue non-autonomous regulation by the *Drosophila* nuclear zinc-finger protein, Hindsight. *Genetics* **168**, 281-300.
- 60. <u>Tadros, W.</u> and \**Lipshitz, H.D*. (2005) Setting the stage for development: mRNA translation and stability during oocyte maturation and egg activation in *Drosophila*. *Developmental Dynamics* **232**, 593-608.
- 61. *Lipshitz, H.D.* (2005) From fruit flies to fallout: Ed Lewis and his science. *Developmental Dynamics* 232, 529-546 (reprint of *J. Genetics*, 2004 article)
- 62. <u>Semotok, J.L., Cooperstock, R.L.</u>, Pinder, B.D., Vari, H.K., \**Lipshitz, H.D*. and \*Smibert, C.A. (2005) Smaug recruits the CCR4/POP2/Not deadenylase complex to trigger maternal transcript localization in the early *Drosophila* embryo. *Current Biology* **15**, 284-294.
- 63. Lipshitz, H.D. (2006) Biographical Memoir: Edward B. Lewis. Proceedings of the American Philosophical Society 150, 379-395.
- 64. <u>Tadros, W., Goldman, A.</u>, Babak, T., <u>Menzies, F.</u>, Vardy, L., Orr-Weaver, T., Hughes, T.R., Smibert, C.A., Westwood, J.T., \**Lipshitz, H.D.* (2007) SMAUG is a major regulator of maternal mRNA destabilization in Drosophila and its translation is activated by the PAN GU kinase. *Developmental Cell* **12**, 143-155.
- 65. de Velasco, B., <u>Erclik, T.</u>, Shy, D., Sclafani, J., *Lipshitz, H.D.*, McInnes, R.R., \*Hartenstein, V. (2007) Specification and development of the pars intercerebralis and pars lateralis, neuroendocrine command centers in the Drosophila brain. *Developmental Biology* **302**:309-23.
- 66. <u>Wilk, R</u>., \*Lipshitz, H.D. (2007) Epithelial Morphogenesis. In: *Principles of Developmental Genetics* (S.A. Moody, editor) Elsevier/Academic Press, Pp. 424-447.
- 67. <u>Tadros, W.</u>, Westwood, J.T., \**Lipshitz, H.D.* (2007) The mother-to-child transition. *Developmental Cell* **12**, 847-849.

- 68. <u>Semotok, J.L.</u>, \**Lipshitz, H.D*. (2007) Regulation and function of maternal mRNA destabilization during early *Drosophila* development. *Differentiation* **75**, 482-506.
- Nelson, M.R., <u>Luo, H., Cox, B.J.</u>, Simmonds, A.J., Krause, H.M., *\*Lipshitz, H.D.*, \*Smibert, C.A. (2007) A multiprotein complex that mediates translational enhancement in Drosophila. *Journal of Biological Chemistry* 282, 34031-34038.
- Lipshitz, H.D. (Editor) (2007) "Genes, Development & Cancer: The Life and Work of Edward B. Lewis", Second Edition (Revised & Expanded), Springer, Dordrecht. 597 pages. ISBN 978-1-4020-6343-5.
- 71. Lipshitz, H.D. (2007) E.B. Lewis and his science. In: Lipshitz, H.D. (Editor) "Genes, Development & Cancer: The Life and Work of Edward B. Lewis", Second Edition (Revised & Expanded), Springer, Dordrecht. Pp. 3-10.
- 72. *Lipshitz, H.D.* (2007) Lewis and the nature of the gene. In: *Lipshitz, H.D.* (Editor) "Genes, Development & Cancer: The Life and Work of Edward B. Lewis", Second Edition (Revised & Expanded), Springer, Dordrecht. Pp. 27-43.
- 73. Lipshitz, H.D. (2007) Lewis and the genetic control of development. In: Lipshitz, H.D. (Editor) "Genes, Development & Cancer: The Life and Work of Edward B. Lewis", Second Edition (Revised & Expanded), Springer, Dordrecht. Pp. 179-198.
- 74. Lipshitz, H.D. (2007) Lewis and the molecular control of development. In: Lipshitz, H.D. (Editor) "Genes, Development & Cancer: The Life and Work of Edward B. Lewis", Second Edition (Revised & Expanded), Springer, Dordrecht. Pp. 299-310.
- Lipshitz, H.D. (2007) Lewis and the somatic effects of ionizing radiation. In: Lipshitz, H.D. (Editor)
   "Genes, Development & Cancer: The Life and Work of Edward B. Lewis", Second Edition
   (Revised & Expanded), Springer, Dordrecht. Pp. 415-431.
- 76. <u>Erclik, T.</u>, Hartenstein, V., **\*Lipshitz, H.D.**, \*McInnes, R.R. (2008) Conserved role of the Vsx genes supports a monophyletic origin for bilaterian visual systems. *Current Biology* **18**, 1278-1287
- Semotok, J.L., Westwood, J.T., <u>Goldman, A.L., Cooperstock, R.L.</u>, \*Lipshitz, H.D. (2008) Measuring mRNA stability during early *Drosophila* embryogenesis. In: *Methods in Enzymology, Volume 448: RNA Turnover, Part B*, L.E. Maquat & M. Kiledjian (Editors), Elsevier, Pp. 299-334 (Chapter 16).
- Semotok, J.L., Luo, H., Cooperstock, R.L., Karaiskakis, A., Vari, H.K., Smibert, C.A., \*Lipshitz, H.D.
   (2008) Drosophila maternal Hsp83 mRNA destabilization is directed by multiple SMAUG recognition elements in the open reading frame. Molecular & Cellular Biology 28, 6757-6772.
- Benoit, B., <u>He, C.H.</u>, Zhang, F., <u>Votruba, S.M.</u>, <u>Tadros, W.</u>, Westwood, J.T., Smibert, C.A., *Lipshitz*, *H.D.*, \*Theurkauf, W.E. (2009) An essential role for the RNA-binding protein Smaug during the *Drosophila* maternal-to-zygotic transition. *Development* 136, 923-932.
- 80. <u>Pickup, A.T., Ming, L.</u>, \*Lipshitz, H.D. (2009) Hindsight modulates Delta expression during Drosophila cone cell induction. *Development* **136**, 975-982.
- 81. Roth, F.S., *Lipshitz, H.D.*, Andrews, B.J. (2009) Epistasis Q&A. *Journal of Biology* 8, 35.1-35.5.
- 82. <u>Erclik, T.</u>, Hartenstein, V., \*McInnes, R.R., \**Lipshitz, H.D.* (2009) Eye evolution at high resolution: the neuron as a unit of homology. *Developmental Biology* **332**, 70-79.
- 83. *Lipshitz, H.D.* (2009) Follow the mRNA: a new model for Bicoid gradient formation. *Nature Reviews Molecular Cell Biology* **10**, 509-512.
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- 90. \*Lipshitz, H.D. (2013) Edward B. Lewis. In: Brenner's Encyclopedia of Genetics, Second Edition, Editors: S. Malloy & K. Hughes, Volume 4, Pp. 237-240.
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- 99. Laver, J.D., \*Lipshitz, H.D. (2015) Transcription gets to the checkpoint. Cell 160, 1043-44.
- Laver, J.D., Li, X., Ray, D., Cook, K.B., Hahn, N.A., <u>Nabeel-Shah, S., Kekis, M., Luo, H.</u>, Marsolais, A.J., Fung, K.Y.Y., Hughes, T.R., Westwood, J.T., Sidhu, S.S., Morris, Q., *\*Lipshitz, H.D.*, \*Smibert, C.A. (2015) Brain tumor is a sequence-specific RNA-binding protein that directs maternal mRNA clearance during the *Drosophila* maternal-to-zygotic transition. *Genome Biology* 16, 94.
- 101. Lipshitz, H.D. (Editor) The Maternal-to-Zygotic Transition. Volume 113 in Series: Current Topics in Developmental Biology, Elsevier/Academic Press, ISBN 978-0-12-409523-6. 433 pages.

- Lipshitz, H.D. (2015) Preface. In: Lipshitz, H.D. (Editor) The Maternal-to-Zygotic Transition. Volume 113 in Series: Current Topics in Developmental Biology, Elsevier/Academic Press, ISBN 978-0-12-409523-6. Pp. xi-xiii.
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- Luo, H., Li, X., Claycomb, J.M., \*Lipshitz, H.D. (2016) The Smaug RNA-binding protein is essential for microRNA synthesis during the Drosophila maternal-to-zygotic transition. G3: Genes|Genomes|Genetics 6, 3541-3551.
- 108. \**Lipshitz, H.D.*, Claycomb, J.M., Smibert, C.A. (2017) Post-transcriptional regulation of gene expression. (Introduction for Special Issue) *Methods*, 126, 1-2.
- Wang, M., Ly, M., Lugowski, A., <u>Laver, J.D.</u>, *Lipshitz, H.D.*, Smibert, C.A., \*Rissland, O.S. (2017) ME31B globally represses maternal mRNAs by two distinct mechanisms during the Drosophila maternal-to-zygotic transition. *eLife* 6, e27891.
- 110. \*Rissland, O.S., Subtelny, A.O., Wang, M., Lugowski, A., <u>Laver, J.D.</u>, Sidhu, S., Smibert, C.A., Lipshitz, H.D., \*Bartel, D.P. (2017) The influence of microRNAs and poly(A)-tail length on endogenous mRNA-protein complexes. *Genome Biology* 18, 211.
- 111. \*Vastenhouw, N., <u>Cao, W.</u>, \**Lipshitz, H.D.* (2019) The maternal-to-zygotic transition revisited. Development 146, dev161471. <u>https://dev.biologists.org/content/146/11/dev161471</u>
- 112. \*Boycott KM, Campeau PM, Howley HE, Pavlidis P, Rogic S, Oriel C, Berman JN, Hamilton RM, Hicks GG, *Lipshitz HD*, Masson JY, Shoubridge EA, Junker A, Leroux M, McMaster CR, Michaud JL, Turvey SE, Dyment D, Innes AM, van Karnebeek CD, Lehman A, Cohn RD, MacDonald IM, Rachubinski RA, Frosk P, Vandersteen A, Wozniak RW, Pena IA, Wen XY, Lacaze-Masmonteil T, Rankin C, \*Hieter, P. (2020) The Canadian Rare Diseases Models and Mechanisms (RDMM) Network: Connecting Understudied Genes for Rare Diseases to Functional Characterization Research in Model Organisms. Am. J. Hum. Genet. 106, 143-152.
- 113. <u>Laver, J.D.</u>, Ly, J., Winn, A.K., <u>Karaiskakis, A.</u>, Lin, S., Nie, K., Jaberi-Lashkari, N., <u>Cao, W.X.</u>, <u>Khademi, A.</u>, Westwood, J.T., Sidhu, S.S., Morris, Q., Angers, S., \*Smibert, C.A., \*Lipshitz, H.D. (2020) The RNA-binding protein, Rasputin/G3BP, enhances the stability and translation of its target mRNAs. *Cell Reports* 30, 3353-3367.e7 <u>https://www.cell.com/cell-reports/fulltext/S2211-1247(20)30234-5</u>
- 114. Bruzzone, L., Argüelles, C., Sanial, M., Miled, S., Alvisi, G., Antunes, M., Qasrawi, F., Holmgren, R.A., Smibert, C.A., *Lipshitz, H.D.*, Boccaccio, G.L., \*Plessis, A., \*Bécam, I. (2020) Regulation of the

RNA-binding protein Smaug by the GPCR Smoothened via the kinase Fused. *EMBO Reports*, e48425. <u>https://doi.org/10.15252/embr.201948425</u>

- 115. <u>Cao, W.X.</u>, Kabelitz, S., Gupta, M., Yeung, E., Lin, S., Rammelt, C., Ihling, C., Pekovic, F., <u>Low</u>, <u>T.C.H.</u>, <u>Siddiqui, N.U.</u>, Cheng, M.H.K., Angers, S., Smibert, C.A., Wühr, M., \*Wahle, E., \**Lipshitz*, *H.D.* (2020) Precise temporal regulation of post-transcriptional repressors is required for an orderly Drosophila maternal-to-zygotic transition. *Cell Reports* 31, 107783. <u>https://www.sciencedirect.com/science/article/pii/S2211124720307634</u>
- 116. \*Lipshitz, H.D. (2021) The Origin of GENETICS (Editorial). Genetics 217(1), iyaa024. https://academic.oup.com/genetics/article/217/1/iyaa024/6128799
- 117. \*Lipshitz, H.D. (2021) The Descent of Databases (Editorial). Genetics 217(3), iyab023. https://academic.oup.com/genetics/article-abstract/217/3/iyab023/6155230
- 118. Mohr, S., Kenny, A., <u>Lam, S.T.Y.</u>, Morgan, M.B., Smibert, C.A., *Lipshitz, H.D.*, \*Macdonald, P.M. (2021) Opposing roles for Egalitarian and Staufen in transport, anchoring and localization of *oskar* mRNA in the Drosophila oocyte. PLoS *Genetics* 17(4): e1009500. <u>https://journals.plos.org/plosgenetics/article?id=10.1371/journal.pgen.1009500</u>

## Independent publications from my laboratory:

- 1. <u>Mathog, D.R</u>. (1990) Transvection in the *Ultrabithorax* domain of the bithorax complex of *Drosophila melanogaster*. *Genetics* **125**, 371-382.
- 2. <u>Mathog, D.R.</u> (1991) Suppression of abdominal legs in Drosophila melanogaster. Roux's Archives of Developmental Biology **199**, 449-457.

# PATENTS:

•Egan, S., Cohen, B., Lipshitz, H., Phillips, R. "Fringe proteins and Notch signaling" (WO/1998/017793, USA 09284753 11.96.1999, Canada 2268751 19.04.1999)

# CONFERENCES ORGANIZED:

- "From Phage to Flies: 40 Years of Discovery", Marconi Center, Point Reyes, California, October 20 23, 1995. Organizers: D. Finnegan, M. Krasnow, H. Lipshitz, G. Rubin & C. Thummel
- •FASEB Summer Research Conference "Sorting and Intracellular Transport of RNA", Snowmass Village, Colorado, June 22-27, 1996. Chairs: R. Singer & O. Steward; Vice-Chairs: L. Etkin & H. Lipshitz
- •FASEB Summer Research Conference "Intracellular RNA Sorting, Transport and Localization", Snowmass Village, Colorado, June 6-11, 1998. Co-Chairs: H. Lipshitz & L. Etkin
- •FASEB Summer Research Conference "Intracellular RNA Sorting, Transport and Localization", Snowmass Village, Colorado, June 10-15, 2000. Co-Chairs: L. Etkin & H. Lipshitz
- •45th Annual *Drosophila* Research Conference, Washington, DC, March 24-28, 2004. Program Co-Chairs: H. Lipshitz & P. Lasko
- •3rd Canadian Developmental Biology Conference & 1st Canada Regional Meeting of the Society for Developmental Biology, Mont-Tremblant, Quebec, April 6-9, 2006. Co-organizers: J. Drouin, P. Lasko, H. Lipshitz & J. Michaud.
- •Second CCBR/MaRS Symposium: "Regulatory RNA", Toronto, Canada, April 10-11, 2008, Co-chairs: H. Lipshitz & B. Blencowe.
- Joint Symposium of Peking University, Tsinghua University and University of Toronto, "Frontiers in Developmental, Stem Cell and Systems Biology", Peking University, May 12-13, 2010. Organizing Committee: Y. Rao, Y. Shi, H. Gu, H. Lipshitz, C.C. Hui, D. Liu

- •EMBO Conference "Molecular & Developmental Biology of Drosophila", Kolymbari, Crete, June 20-26, 2010, Member of Organizing Committee (Committee Co-Chairs: A. Ephrussi, W. Gelbart, C. Delidakis).
- •CANFLY XI: The Eleventh Canadian Drosophila Conference, Brock University, St. Catharines, Ontario, June 4-8, 2011. Organizing Committee: H. Lipshitz (Chair), T. Harris, R. Jacobs, M. Klose, H. McNeill, A. McQuibban, B. Reed.
- •EMBO Conference "Molecular & Developmental Biology of Drosophila", Kolymbari, Crete, June 24-30, 2012. Member of Organizing Committee (Committee Co-Chairs: A. Ephrussi, W. Gelbart, C. Delidakis).
- •Symposium on Systems Biology, Peking University, Beijing, China, October 19-22, 2012. Organizing Committee: C. Tang, Y. Yin, H. Lipshitz.
- •Conference on "Intracellular RNA Localization and Localized Translation", Niagara-on-the-Lake, Canada, July 7-12, 2013. Organizing Committee Co-Chairs: H. Lipshitz, C. Bagni, I. Davis, K. Martin.
- •EMBO Conference "Molecular & Developmental Biology of Drosophila", Kolymbari, Crete, June 22-28, 2014. Member of Organizing Committee (Shadow Co-Chair of Organizing Committee; Committee Co-Chairs: A. Ephrussi, W. Gelbart, C. Delidakis).
- •EMBO Conference "Molecular & Developmental Biology of Drosophila", Agia Marina, Crete, June 19-26, 2016. Co-Chairs of Organizing Committee: S. Bray, E. Furlong, H. Lipshitz.
- •EMBO Workshop "The Maternal-to-Zygotic Transition", Max Planck Institute, Dresden, Germany, April 23-27, 2017. Organizing Committee: N. Vastenhouw, H. Lipshitz, P. Svoboda, P. Zegerman.
- •EMBO Workshop "Molecular & Developmental Biology of Drosophila", Kolymbari, Crete, June 24-30, 2018. Co-Chairs of Organizing Committee: S. Bray, E. Furlong, H. Lipshitz.
- •EMBO Workshop "The Maternal-to-Zygotic Transition", Czech Academy of Sciences, Prague, Czech Republic, May 15-18, 2019. Organizing Committee: P. Svoboda, H. Lipshitz, N. Vastenhouw, P. Zegerman.
- •EMBO Workshop "Molecular & Developmental Biology of Drosophila", Kolymbari, Crete, 2020 (June 21-27, 2020). Co-Chairs of Organizing Committee: S. Bray, E. Furlong, H. Lipshitz. (Cancelled because of COVID-19; virtual non-EMBO workshop held June 22-26)
- •EMBO Workshop "Molecular & Developmental Biology of Drosophila", Kolymbari, Crete, 2022 (June 19-25, 2022). Co-Chairs of Organizing Committee: S. Bray, E. Furlong, H. Lipshitz.

## **CONFERENCE SESSIONS CHAIRED:**

- •49th Annual *Drosophila* Research Conference, San Diego, California: Workshop on "The Maternalto-Zygotic Transition: Deciphering the Ultimate Genetic Switch", April 2-6, 2008. Co-chairs: H. Lipshitz, J. Sisson.
- •50th Annual *Drosophila* Research Conference, Chicago, Illinois: Workshop on "The Maternal-to-Zygotic Transition: Deciphering the Ultimate Genetic Switch", March 4-8, 2009. Co-chairs: H. Lipshitz, J. Sisson.
- •53<sup>rd</sup> Annual Drosophila Research Conference, Chicago, USA, March 7-11, 2012. Session Chair, "RNA Biology" (Co-chairs: H. Lipshitz, J. Wilhelm).
- •EMBO Conference "RNA Localization & Localized Translation", Heraklion, Crete, June 28-July 3, 2015. Session Chair (Committee Co-Chairs: E. Shuman, C. Holt).
- •57<sup>th</sup> Annual Drosophila Research Conference/The Allied Genetics Conference, Orlando, Florida, USA, July 13-17, 2016. Session Chair, "RNA Biology" (Session Co-chairs: H. Lipshitz, B. Brown, J. Laver).

- •ASBMB Special Symposium "Evolution and Core Processes in Gene Expression", Stowers Institute, Kansas City, Missouri, July 13-16, 2017. Session Chair, "Regulatory Network Evolution".
- •FASEB Science Research Conference "Intracellular RNA Transport and Localized Translation", Snowmass, Colorado, USA, June 30 – July 5, 2019

#### **INVITED CONFERENCE PRESENTATIONS:**

- •Northern California *Drosophila* Research Conference, Stanford University, November 12, 1983
- •Ninth Annual Parvin Symposium on Basic Cancer Research, UCLA, Los Angeles, California, May 10, 1985
- •Helen Hay Whitney Foundation Annual Symposium, Arden House, Harriman, New York, December 13 15, 1985
- •UCLA Symposium "Molecular Approaches to Developmental Biology", Keystone, Colorado, March 30-April 6, 1986
- •Marine Biological Laboratory, Embryology Course, Woods Hole, Massachusetts, July 11 18, 1988
- •EMBO Workshop, "Molecular & Developmental Biology of *Drosophila*", Kolymbari, Crete, Greece, August 28 - September 4, 1988
- •Southern California Drosophila Research Conference, Irvine, California, November 5, 1988
- •Marine Biological Laboratory, Embryology Course, Woods Hole, Massachusetts, June 29 July 7, 1989
- •UCLA Symposium "Developmental Biology", Tamarron, Colorado, March 12 19, 1989
- •EMBO Workshop, "Molecular & Developmental Biology of *Drosophila*", Kolymbari, Crete, Greece, April 29 - May 6, 1990
- •30th Annual *Drosophila* Conference (Chair: Maternal Effects Platform Session), New Orleans, Louisiana, April 26 - 30 1990
- •EMBO Workshop, "Molecular & Developmental Biology of *Drosophila*", Kolymbari, Crete, Greece, April 29 - May 6, 1990
- •California Drosophila Research Conference, Irvine, California, October 6, 1990
- •Arrowhead Genetics Conference, Lake Arrowhead, California, February 1 3, 1991
- •USA-Japan Cooperative Program for Recombinant DNA Research: Workshop on Gene Expression in Early Embryonic Development (one of six USA delegates), Kauai, Hawaii, March 5 - 6, 1992
- •EMBO Workshop, "Molecular & Developmental Biology of *Drosophila*", Kolymbari, Crete, Greece, July 12 19, 1992
- •American Society for Cell Biology, 33rd Annual Symposium, Speaker in Session: "mRNA Localization", New Orleans, Lousiana, December 11-15, 1993
- •EMBO Workshop "Molecular & Developmental Biology of *Drosophila*", Kolymbari, Crete, Greece, June 19 - 26, 1994
- •FASEB Summer Research Conference "Sorting and Intracellular Transport of RNA", Santa Cruz, California, July 16-21, 1994
- •West Coast Developmental Biology Symposium, Lake Arrowhead, California, March 23 26, 1995
- "From Phage to Flies: 40 Years of Discovery", Marconi Center, Point Reyes, California, October 20 23, 1995
- •FASEB Summer Research Conference "Sorting and Intracellular Transport of RNA", Snowmass Village, Colorado, June 22-27, 1996
- •EMBO Workshop "Molecular & Developmental Biology of *Drosophila*", Kolymbari, Crete, Greece, July 13 20, 1996
- •1997 Northeast Regional Meeting "Stress Proteins, Molecular Chaperones and the Heat Shock Response", Manoir du Lac Delage, Ville du Lac Delage, Quebec City, Quebec, June 17-18, 1997

- •Annual Conference of Canadian Federation of Biological Societies, Quebec City, Quebec, June 18-23, 1997
- •FASEB Summer Research Conference "Intracellular RNA Sorting, Transport and Localization", Snowmass Village, Colorado, June 6 - 11, 1998
- •EMBO Workshop "Molecular & Developmental Biology of *Drosophila*", Kolymbari, Crete, Greece, July 12 18, 1998
- •39th Annual Meeting of the American Society for Cell Biology, Minisymposium on "Localization, Stability & Transport of mRNA", Washington, DC, December 11 - 15, 1999
- •10th Annual Winternational Symposium on "Genes & Development", Banff, Alberta, March 2 5, 2000
- •CIHR Workshop, Development & Disease, Banff, Alberta, March 2 5, 2000
- •FASEB Summer Research Conference "Intracellular RNA Sorting, Transport and Localization", Snowmass Village, Colorado, June 10 - 15, 2000
- •EMBO Workshop "Molecular & Developmental Biology of *Drosophila*", Kolymbari, Crete, Greece, June 18 - 23, 2000
- National Academy of Sciences Colloquium "Molecular Kinesis in Cellular Function and Plasticity", Beckman Center of the National Academies of Sciences & Engineering, Irvine, California, December 7 - 9, 2000
- •41st Annual Meeting of the American Society for Cell Biology, Minisymposium on "Signals that Mediate RNA Localization, Processing and Stability", Washington, DC, December 8 - 12, 2001
- •EMBO Workshop "Molecular & Developmental Biology of *Drosophila*", Kolymbari, Crete, Greece, June 23 - 29, 2002
- •61st Annual Meeting of the Society for Developmental Biology, "David Hogness: Researcher and Mentor", presentation of the SDB Lifetime Achievement Award for 2002, Madison, Wisconsin, July 21 - 24, 2002
- •FASEB Summer Research Conference "Intracellular RNA Sorting, Transport and Localization", Snowmass Village, Colorado, June 21-26, 2003.
- •Gordon Research Conference "Fertilization and the Activation of Development", Holderness School, Plymouth, New Hampshire, July 27 - August 1, 2003.
- •Keynote address: "From Fruit Flies to Fallout: Ed Lewis and his Science", Symposium in Honor of Edward B. Lewis, California Institute of Technology, Pasadena, California, February 4, 2004. (Can be viewed at http://today.caltech.edu/theater/results.tcl?query\_string=lipshitz)
- •EMBO Workshop "Molecular & Developmental Biology of *Drosophila*", Kolymbari, Crete, Greece, June 21 - 26, 2004
- •13th International Conference of the International Society for Differentiation "The Role of Localized RNAs in Development & Differentiation", Honolulu, Hawaii, September 5-9, 2004. (withdrew due to illness; Jennifer Semotok from the lab spoke in my place)
- •Memorial Symposium in Honor of Edward B. Lewis, California Institute of Technology, Pasadena, California, October 25, 2004
- •Keynote address: "Regulation of Maternal mRNA During Egg Activation in Drosophila: Localization, Translation & Stability", Second Annual Conference of Quebec Researchers in Reproduction, Saint-Paulin, Quebec, November 15 - 16, 2004
- •FASEB Summer Research Conference "Intracellular RNA Sorting, Transport and Localization", Tucson, Arizona, June 21 - 26, 2005
- •Memorial Symposium in Honor of Laurence D. Etkin, M. D. Anderson Cancer Center, Houston, Texas, May 25, 2006

- •EMBO Conference "Molecular & Developmental Biology of *Drosophila*", Kolymbari, Crete, Greece, June 18 - 23, 2006
- •EMBO Conference "Intracellular RNA Localization and Localized Translation", Il Ciocco, Tuscany, Italy, July 1 7, 2007 (also served as a session chair)
- •Riboclub Opening Session: "RNA on the move", Sherbrooke, Quebec, September 24 26, 2007
- International Symposium in Honor of David Hogness, Recipient of the 2007 International Prize for Biology, Kyoto University, Japan, November 21 - 22, 2007
- •Keystone Symposium "Translational Regulatory Mechanisms", Coeur d'Alene Resort, Coeur d'Alene, Idaho, January 28 February 2, 2008
- •HHMI Workshop on "RNA Granules", Chevy Chase, Maryland, USA, March 31-April 2, 2008
- •49th Annual *Drosophila* Research Conference, Workshop: "The Maternal-to-Zygotic Transition: Deciphering the Ultimate Genetic Switch", April 2-6, 2008
- •EMBO Conference "Molecular & Developmental Biology of *Drosophila*", Kolymbari, Crete, Greece, June 23 - 28, 2008
- •Pacific Symposium on Biocomputing, Kohala Coast, Hawaii: Workshop on "Post-transcriptional Gene Regulation", January 5 8, 2009
- •50th Annual *Drosophila* Research Conference, Chicago, Illinois: Workshop on "The Maternal-to-Zygotic Transition: Deciphering the Ultimate Genetic Switch", March 4 - 8, 2009
- •FASEB Summer Research Conference "Intracellular RNA Sorting, Transport and Localization", Saxton's River, Vermont, July 12 - 17, 2009
- •68th Annual Meeting of the Society for Developmental Biology, San Francisco, California. Concurrent Session: "Germ & Embryonic Stem Cells", July 22 - 27, 2009
- •3rd EMBO Conference "Protein Synthesis & Translational Control". Heidelberg, Germany, September 9 - 13, 2009
- •CIFAR Workshop "Genetic Networks", Princeton, New Jersey, USA, September 25 27, 2009
- •Fourth Brazilian International Symposium in Developmental Biology, Taubaté, Brazil, November 16 18, 2009
- •Joint Symposium of Faculty of Medicine, University of Toronto and Beijing Institutes of Life Sciences, Chinese Academy of Sciences, Beijing, March 9 - 10, 2010
- •Joint Symposium of Faculty of Medicine, University of Toronto and Peking and Tsinghua Universities, Beijing, May 12 - 13, 2010
- •EMBO Conference "Molecular & Developmental Biology of *Drosophila*", Kolymbari, Crete, Greece, June 20 26, 2010
- •EMBO/FASEB Joint Conference "Intracellular RNA Transport and Localized Translation", Il Ciocco, Italy, August 7 - 12, 2011
- •McGill Workshop on Bioinformatics "Gene Regulatory Networks", Bellairs Research Institute, Holetown, Barbados, January 28 – February 4, 2012
- •EMBO Conference "Molecular & Developmental Biology of Drosophila", Kolymbari, Crete, June 24-30, 2012.
- •Symposium on Systems Biology, Peking University, Beijing, China, October 19-22, 2012.
- •Conference "Intracellular RNA Localization and Localized Translation", Niagara-on-the-Lake, Canada, July 7-12, 2013.
- •Mini-Symposium on Stem Cells & Systems Biology, SIBCB, Shanghai, China, October 10-11, 2013.
- •EMBO Conference "Molecular & Developmental Biology of Drosophila", Kolymbari, Crete, June 22-28, 2014.
- •IFCC Summer School, Chinese Society of Biochemistry and Molecular Biology, "RNA Biology", Shanghai, China, July 7-12, 2014.

- •Retirement Symposium for Prof. David Hodgson, University of Warwick, Coventry, UK, January 24, 2015.
- •McGill Workshop "RNA-Protein Interactions", Bellairs Research Institute, Holetown, Barbados, April 17-24, 2015.
- •EMBO Conference "RNA Localization & Localized Translation", Heraklion, Crete, Greece, June 28-July 3, 2015.
- •EMBO Workshop "Cellular & Developmental Systems", Arolla, Switzerland, August 18-22, 2015.
- •RiboClub Annual Conference, Mt. Orford, Quebec, Canada, September 20-23, 2015.
- •HHMI "Workshop on Drosophila Resources", Janelia Research Campus, Virginia, USA February 17-19, 2016.
- •EMBO Workshop "Molecular & Developmental Biology of Drosophila", Agia Marina, Crete, June 19-25, 2016.
- •EMBO Workshop "The Maternal-to-Zygotic Transition", Max Planck Institute, Dresden, Germany, April 23-27, 2017.
- •RNA Society 22<sup>nd</sup> Annual Meeting, Prague, Czech Republic, May 28-June 3, 2017.
- •ASBMB Conference "Evolution and Core Processes in Gene Expression", Stowers Institute, USA, July 13-16, 2017.
- •EMBO Workshop "RNA Localization and Localized Translation", Il Ciocco, Italy, July 23-27, 2017.
- •University of Minnesota, 26<sup>th</sup> Annual Symposium of the Center for Developmental Biology, Minneapolis, USA, October 2, 2017.
- •EMBO Workshop "Molecular & Developmental Biology of Drosophila", Kolymbari, Crete, June 24-30, 2018.
- •McGill Workshop "Mechanisms and evolution of post-transcriptional regulation", Bellairs Research Institute, Holetown, Barbados, April 19-26, 2019.
- •EMBO Workshop "The Maternal-to-Zygotic Transition", Czech Academy of Sciences, Prague, Czech Republic, May 15-18, 2019.
- •FASEB Science Research Conference "Intracellular RNA Transport and Localized Translation", Snowmass, Colorado, USA, June 30 – July 5, 2019
- •McGill Workshop "mRNA Untranslated regions in gene regulation, development and disease", Bellairs Research Institute, Holetown, Barbados, January 17-24, 2020
- •Symposium "RNA regulation in development", Princeton University, USA, May 1, 2020 (postponed because of COVID-19)
- EMBO Workshop "The Maternal-to-Zygotic Transition", IMBA, Vienna, Austria, May 18-21, 2022

#### INVITED RESEARCH SEMINAR PRESENTATIONS (SELECTED):

- •Stanford University School of Medicine, Department of Biochemistry, Stanford, California (June 14, 1984)
- •Yale University, Department of Biology, New Haven, Connecticut (December 11, 1984)
- •California Institute of Technology, Division of Biology, Pasadena, California (June 28, 1985)
- •Carnegie Institution of Washington, Department of Embryology, Baltimore, Maryland (September 16, 1985)
- •National Institutes of Health, Laboratory of Molecular Genetics, Bethesda, Maryland (September 17, 1985)
- •Washington University, Department of Biology, St. Louis, Missouri (March 21, 1986)
- •UCLA, Genetics Seminar Series, Los Angeles, California (May 1, 1987)
- •Beckman Research Institute of the City of Hope, Duarte, California (May 19, 1987)

- •University of Southern California School of Medicine, Norris Cancer Research Center, Los Angeles, California (March 6, 1989)
- •UCLA, Genetics Seminar Series, Los Angeles, California (April 10, 1992)
- •University of Southern California School of Medicine, Department of Pathology & Laboratory Medicine, Los Angeles, California (March 30, 1992)
- •University of California, Irvine, Developmental Biology Center, Irvine, California (February 18, 1993)
- •Fox Chase Cancer Research Center, Philadelphia, Pennsylvania (November 12, 1993)
- •Natural History Museum of Los Angeles County, Research Seminars in History and Earth and Life Sciences, Los Angeles, California (November 18, 1993)
- •Research Institute, Hospital for Sick Children, Toronto, Ontario (January 11, 1994)
- •University of Minnesota, Department of Genetics & Cell Biology, St. Paul, Minnesota (April 11, 1994)
- •University of Toronto, Department of Medical Genetics, Toronto (May 4, 1995)
- •Division of Endocrinology, Hospital for Sick Children, Toronto, Ontario (November 8, 1995)
- •McMaster University, Department of Biology, Hamilton, Ontario (November 13, 1995)
- •York University, Department of Biology, North York, Ontario (November 21, 1995)
- •Division of Nephrology, Hospital for Sick Children, Toronto, Ontario (December 10, 1995)
- •Loyola University Chicago, Molecular Biology Program, Maywood, Illinois (January 19, 1996)
- •Samuel Lunenfeld Research Institute, Program in Development & Fetal Health, Mt. Sinai Hospital, Toronto (September 18, 1996)
- •Laval University, RSVS, Ste-Foy, Quebec (December 13, 1996)
- •University of Utah, Eccles Institute of Human Genetics, Salt Lake City, Utah (January 14, 1997)
- •Case Western Reserve University, Department of Genetics, Cleveland, Ohio (May 16, 1997)
- •Banting & Best Diabetes Centre, University of Toronto, Toronto, Ontario (July 7, 1997)
- •Department of Ophthalmology, Hospital for Sick Children, Toronto, Ontario (August 13, 1997)
- •University of Toronto, Department of Zoology, Toronto (October 31, 1997)
- •Division of Cell Biology, Research Institute, Hospital for Sick Children, Toronto, Ontario (October 10, 1997)
- •University of Alberta, Department of Biological Sciences, Edmonton, Alberta (November 14, 1997)
- •Research Institute Annual Retreat, Hospital for Sick Children, Toronto, Ontario (December 4, 1997)
- •Department of Genetics, Hospital for Sick Children, Toronto, Ontario (January 22, 1998)
- •Program in Structural Biology & Biochemistry, Research institute, Hospital for Sick Children, Toronto, Ontario (February 16, 1998)
- •John P. Robarts Research Institute, London, Ontario (March 12, 1998)
- •McGill University, Department of Biology, Montreal, Quebec (October 26, 1998)
- •State University of New York at Stonybrook, Department of Biochemistry & Cell Biology (February 11, 1999)
- •Princeton University, Department of Molecular Biology (February 12, 1999)
- •Michigan State University, Department of Biochemistry (November 22, 1999)
- •M.D. Anderson Cancer Center/University of Texas, Department of Biochemistry & Molecular Biology (February 02, 2000; John H. Blaffer Lecturer)
- •University of Toronto, Department of Zoology, Toronto (September 22, 2000)
- •Case Western Reserve University, Department of Genetics, Cleveland, Ohio (October 20, 2000)
- •Research Institute Annual Retreat, Hospital for Sick Children, Toronto, Ontario (November 27, 2000)
- •Yale University, Department Molecular, Cellular & Developmental Biology, New Haven, Connecticut (April 4, 2001)
- •Fred Hutchinson Cancer Research Center, Seattle, Washington (February 14, 2002)
- •Duke University, Developmental Biology Colloquia, Durham, N. Carolina (April 3, 2002)

- •Medical College of Wisconsin, Department Microbiology & Molecular Genetics, Milwaukee, Wisconsin (May 7, 2002)
- •Maine Medical Research Institute, Scarborough, Maine (January 23, 2003)
- •University of Western Ontario, Department of Zoology, London, Ontario (October 6, 2003)
- •Program in Cell Biology, Research Institute, Hospital for Sick Children, Toronto, Ontario (April 23, 2004)
- •University of Toronto, Department of Medical Genetics & Microbiology, Toronto (November 24, 2004)
- •University of Minnesota, Dept. of Genetics, Cell Biology & Development (May 5, 2005)
- •University of Utah, Dept. of Human Genetics (May 10, 2005)
- •University of Pennsylvania, Center for Research on Reproduction & Women's Health (January 18, 2006)
- •Institut de Genetique Humaine, CNRS, Montpellier, France (October 27, 2006)
- •University of Waterloo, Department of Biology, Waterloo, Ontario (November 17, 2006)
- •Institut de Recherches Cliniques de Montréal, Montréal, Quebec (Pfizer Lecture, February 5, 2007)
- •University of Zurich, Institute for Molecular Biology, Zurich, Switzerland (July 11, 2006)
- •Yale University, Department of Genetics, New Haven, CT (September 4, 2007)
- •Institute for Biochemistry & Cell Biology, Chinese Academy of Sciences, Shanghai (November 1, 2007)
- •RIKEN-Center for Developmental Biology, Kobe, Japan (November 20, 2007)
- •Case Western Reserve University, Department of Genetics, Cleveland, Ohio (December 10, 2007)
- •Cleveland Clinic, Lerner Research Institute, Department of Immunology, Cleveland, Ohio (December 12, 2007)
- •McMaster University, Department of Biology, Hamilton, Ontario (March 13, 2008)
- •Trinity College, Smurfit Institute of Genetics, Dublin, Ireland (November 3, 2008)
- •Indiana University, Department of Biology, Bloomington, Indiana (September 3, 2009)
- •University of Miami, Department of Cell Biology & Anatomy, Florida (January 19, 2010)
- •University of Hong Kong, Department of Biochemistry (May 10, 2010)
- •University of Wisconsin, Madison, Program in Genetics (March 9, 2011)
- •National Institutes of Health, Bethesda, Maryland (April 28, 2011)
- •University of Edinburgh, Institute of Cell Biology, UK (May 9, 2011)
- •University of Dundee, Division of Cell & Developmental Biology (May 12, 2011)
- •University of KwaZulu-Natal, School of Life Sciences, Durban, South Africa (May 30, 2012)
- •Chinese Academy of Sciences, Institute for Genetics & Developmental Biology, Beijing, China (October 22, 2012)
- •University of Alberta, Department of Biological Sciences, Edmonton (March 20, 2013)
- •Wuhan University, China (May 20, 2013)
- •University of Science & Technology of China, Hefei (May 21, 2013)
- •Nanjing University, Model Animal Research Center (October 14, 2013)
- •University of Texas, Austin (December 10, 2013)
- •Zhejiang University, School of Life Sciences, Hangzhou, China (April 9, 2014)
- •Zhejiang University, School of Life Sciences, Hangzhou, China (April 1, 2015)
- •University of Illinois, Chicago, Department of Biological Sciences (July 29, 2015)
- •California Institute of Technology, Division of Biology & Bioengineering (January 19, 2016)
- •University of Oxford, Department of Biochemistry (March 8, 2016)
- •University of Cambridge, Department of Zoology (March 10, 2016)
- •California Institute of Technology, Division of Biology & Bioengineering (March 14, 2017)

- •University of Göttingen, GZMB Colloquium on Developmental Biology (June 6, 2017)
- •Zhejiang University, Life Sciences Institute, Hangzhou, China (October 24, 2017)
- •University of Utah, Department of Human Genetics (February 20, 2018)
- •North Carolina State University, Department of Biological Sciences (March 19, 2018)
- •University of Ottawa, Advances in Biomedical Research Seminar Series (September 28, 2018)
- •Zhejiang University, Life Sciences Institute (October 25, 2018)
- •Princeton University, Quantitative & Computational Biology Seminar Series (November 5, 2018)
- •University of Wisconsin, Biochemistry Seminar Series (October 21, 2019)
- •National Institutes of Health, NIDDK, Developmental Biology Seminar Series (November 19, 2020; Virtual Seminar because of COVID-19)
- •Clemson University, Department of Genetics & Biochemistry (April 16, 2021; Virtual Seminar because of COVID-19)
- University of Pittsburgh, Department of Biological Sciences (April 18, 2022)

#### TRAINEES/VISITORS:

#### Visiting Scholars (Total: 2)

Current

• J. Timothy Westwood, Ph.D. Position: Associate Professor of Biology Emeritus, University of Toronto, Canada

#### Previous (2)

•J. Timothy Westwood, Ph.D. (2000) Position: Associate Professor of Biology, University of Toronto, Canada

•Xin Li, Ph.D. (2018 – 2020) Position: Lecturer, Guangzhou University, China

#### Research Associates (Total: 2)

Current

None

#### Previous (2)

- •Bruce Reed, Ph.D. (2001 2005) Position: Associate Professor of Biology, University of Waterloo, Canada
- •Najeeb Siddiqui, Ph.D. (2007 2011) Position: Manager, Program in Developmental & Stem Cell Biology, Hospital for Sick Children, Toronto, Canada

## Postdoctoral Fellows (Total: 17)

Current (0)

●None

## Previous (17)

- •Teresa R. Strecker, Ph.D. (1987 1990, Caltech) Position: Senior Lecturer in Biological Sciences, Southern Methodist University, Dallas, Texas, USA
- •David R. Mathog, Ph.D. (1988 1991, Caltech) Position: Manager & Staff Scientist, Sequence Analysis Computing Facility, Division of Biology, Caltech; System Manager, H.H.M.I. Atomic & Macromolecular Structure Facility, Caltech, USA
- Susan M. Parkhurst, Ph.D. (1990 1991, Caltech) Position: Member, Division of Basic Sciences, Fred Hutchinson Cancer Research Center, Seattle, Washington & Professor, Department of Biology, University of Washington, Seattle, USA

•Joanne Topol, Ph.D. (1990 – 1992, Caltech) Position: Artist, Pasadena, CA, USA

•Michele Zaccai, Ph.D. (1993 – 1995, Caltech) Position: Associate Professor, Department of Life Sciences, Ben-Gurion University of the Negev, Israel

- •Michele L. Lamka, Ph.D. (1994 1997, Caltech) Position: Quality Reporting, University of Virginia, Charlottesville, Virginia, USA
- •Leonora Rochwerger, Ph.D. (1995 1998, Toronto) Position: Science teacher, Donview Middle School, Toronto, Canada
- •Jill Hamilton M.D. (1997 1999) Position: Professor of Pediatrics, University of Toronto; Chief of Endocrinology, Hospital for Sick Children, Senior Associate Scientist, Research Institute, Canada
- •Bruce Reed, Ph.D. (1996 2001, Toronto) Position: Associate Professor of Biology, University of Waterloo, Canada
- Najeeb Siddiqui, Ph.D. (2006 2007, Toronto) Position: Manager, Program in Developmental & Stem Cell Biology, Hospital for Sick Children, Toronto, Canada
- •Amanda Pickup, Ph.D. (1999 2008, Toronto) Position: Creative Director, Invention Squad, Toronto, Canada
- •Ronit Wilk, Ph.D. (2002 2008, Toronto) Position: Founder, SciArt-Prints, Toronto, Canada
- •Aaron Goldman, Ph.D. (2004 2009, Toronto) Position: Chief Science Officer, DNALabs Canada Inc., Toronto, Canada
- •Wael Tadros, Ph.D. (2007 2009, Toronto) Position: Principal Scientist, Shoreline Biosciences Inc., San Diego, California, USA
- •Claudia Walser, Ph.D. (2008 2013) Position: Clinical study coordinator/Researcher/Biostatistician, Katonsspital Frauenfeld, Zurich, Switzerland
- •John Laver, Ph.D. (2016 2017) Position: Postdoctoral Research Fellow, Department of Cell & Systems Biology, University of Toronto.
- •Wendy Cao, Ph.D. (2020 2021) Position: Postdoctoral Research Fellow, Department of Biological Sciences, Columbia University, New York, USA.

#### Graduate Students (Total: 28)

#### Current (2)

- •Timothy Low (2016 present; Ph.D. student, Toronto)
- •Yichao Hu (2018 present; Ph.D. student, Toronto-Zhejiang University Joint Ph.D. Program; cosupervisor: Xiaohang Yang, Zhejiang University)

#### Previous (26)

- •Dali Ding (1987 1993; Ph.D. Ferguson Prize for outstanding Ph.D. thesis in Biology at Caltech). Position: Partner, YiMei Capital, Shanghai, China
- •Susan R. Halsell (1987 1995; Ph.D. Caltech) Position: Associate Professor & Associate Head, Department of Biology, James Madison University, Harrisonburg, Virginia, USA
- Man Lun R. Yip (1988 1995; Ph.D. Caltech) Position: Field Applications Scientist, ForteBio A Division of Pall Life Sciences, Los Angeles, California, USA
- •Kellie L. Whittaker (1991 1997; Ph.D. Caltech/Toronto) Position: Senior Associate, AmphibiaWeb; Researcher, University of California, Berkeley, California, USA
- •Peter Becker (1994 1998; M.S., Caltech) Position: Unknown.
- Arash Bashirullah (1993 99; Ph.D. Caltech/Toronto) Position: Associate Professor, Faculty of Pharmacy & Program in Genetics, University of Wisconsin, Madison, USA
- Simon Houston (1998 2000, M.Sc., Toronto) Position: Research Associate, Dept of Biochemistry & Microbiology, University of Victoria, BC, Canada
- •Ramona Cooperstock (1996 2002; Ph.D., Toronto) Position: Owner, Your Space Reimagined, Toronto, Canada
- •Ronit Wilk (1996 2002; Ph.D., Toronto) Position: Founder, SciArt-Prints, Toronto, Canada

•Fiona Menzies (2003 – 2004; M.Sc., Toronto) Position: MD Practitioner, Chief of Geriatric Medicine, St. Joseph's Health Centre, Toronto, Canada

•Stephanie Andrew (née Lake) (2003 – 2005; M.Sc., Toronto) Position: Vice President, Finance at TIMIA Capital Corp. & Founding Partner, Women's Equity Lab, Vancouver, BC, Canada

•Ted Erclik (1997 – 2007, Ph.D., Toronto, Toronto; co-supervisor: R.R. McInnes) Position: Assistant Professor, Dept. of Biology, University of Toronto at Mississauga, Canada

 Wael Tadros (1999 – 2007; Ph.D., Toronto – 2008 Margaret Thomson Award for Outstanding Ph.D. Thesis, Genetics Society of Canada; Finalist, 2008 Larry Sandler Award for Best Ph.D. Thesis, Genetics Society of America) Position: Principal Scientist, Shoreline Biosciences Inc., San Diego, California, USA

- Jennifer Semotok (1999 2007; Ph.D., Toronto) Position: Senior Genetic Counselor, GeneDx, Gaithersburg, Maryland, USA; Lecturer, M.Sc. Program in Genetic Counseling, Dept. of Molecular Genetics, University of Toronto, Canada
- •Farzad Yousefian (2005 2008; M.Sc., Toronto) Position: Founder & President, Sport Performance Analytics Inc. & Performance Analyst, Ontario Regional EXCEL Program. Canadian Soccer Association, Toronto, Canada
- •Helen Chun Hua He (2006 2008, withdrew) Position: Research Technologist, University Health Network, Toronto, Canada
- •Sarah Votruba (2007 2009; M.Sc., Toronto) Position: Account Executive, Cloud DX Inc., Toronto, Canada
- Melissa Votruba (2007 2009; M.Sc., Toronto) Position: Territory Manager, Eppendorf, Inc., Canada
- Liang Ming (2004 2012; M.Sc. 2006, Ph.D. 2012, Toronto) Position: Validation Associate/Archivist, BioPharma Services Inc., Toronto, Canada
- Mariana Kekis (2006 2013; Ph.D. 2013, Toronto; co-supervisor: T. Hughes) Position: Director of Cytogenetics & Molecular Genetics and Assistant Professor (Clinical) of Human Genetics, Emory University, Atlanta, GA, USA
- •Xiao Li (2007 2013; Ph.D. 2013, Toronto; co-supervisor: Q. Morris) Position: Assistant Professor, RNA Center, Case Western Reserve University, Cleveland, Ohio, USA
- •Zhiyong Yang (2012 2013; M.Sc. 2013, Toronto) Position: Research Analyst, Princess Margaret Cancer Centre, Toronto, Canada
- •Zhenglin Yang (2013 2015; M.Sc. 2015, Toronto) Position: Ph.D. student, University of Illinois, Urbana-Champaign, USA
- Linan Emily Chen (2008 2015; Ph.D. 2015, Toronto; co-supervisor: C. Smibert) Position: Postdoctoral Research Fellow, Dermatology, University of California, San Francisco, USA
- •John Laver (2009 2016; Ph.D. 2016, Toronto; co-supervisor: C. Smibert) Position: Postdoctoral Research Fellow, Dept. of Cell & Systems Biology, University of Toronto, Canada
- •Wendy Cao (2014 2020; Ph.D. 2020, Toronto) Position: Postdoctoral Research Fellow, Department of Biological Sciences, Columbia University, New York, USA.

#### Undergraduate Research Students (Total: 28)

# Current (0) •None Previous (28)

Thu Le (1987, Caltech)
Lindsey Dubb (1988, Caltech)
Andreja Volenec (1989 – 1993, Caltech)

•William Zen (1992 – 1994, Caltech)

•Shaun Carstairs (1993 – 1994, Caltech)

- •Tuan Hoang (summer 1994, Caltech)
- •Kelly Eom (summer 1994, Caltech)
- •Olga Hardy (summer 1994, Minority Undergraduate Research Fellow, Caltech)
- •Jonathan Gabor (summer 1996, Univ. of Toronto)
- •Anthony Shearing (MD student; summer 1996, Univ. of Toronto)
- •Peggy Wang (summer 1997, Univ. of Toronto)

•Wendy Lee (summer 2000, Univ. of Toronto)

•Barbra Moss (2000, Univ. of Toronto)

•Moshe Kim (2001 – 2002, Univ. of Toronto)

•Rick Scavetta (2001 – 2002, Univ. of Toronto)

•Matthew Tse (2002, Univ. of Toronto)

•Farzad Yousefian (2003 – 2004, Univ. of Toronto)

•Michael Di Tomasso (2007 – 2008, Univ. of Toronto)

•Qiong Gao (Peking University Student, 2010, Univ. of Toronto)

•Ahmed Fahmy (2010 – 2011, Univ. of Toronto)

•Huayun Hou (Peking University Student, 2011, Univ. of Toronto)

•Xueying Li (Summer 2012, Peking University)

•Eva Lee (Summer 2012; Research Student 2012-2103, Univ. of Toronto)

•Yujie Fan (Summer 2013; Tsinghua University)

•Yu-Xi Xiao (Summer 2016, Zhejiang University)

•Simon Lam (Summer 2016 and 2016 – 2017 and Summer 2017, University of Toronto)

• Kiki Huang (2018 – 2020; Univ. of Toronto)

•Alireza Khademi (2019 – 2021, Univ. of Toronto)

## CURRENT RESEARCH FUNDING

Organization: Canadian Institutes of Health Research PI: H. Lipshitz; Co-applicants: Q. Morris, C. Smibert **Project Grant** Project Period: 2018 – 2023 Title: "Systematic analysis of post-transcriptional regulatory mechanisms and functions in Drosophila" \$1,129,264 Organization: Solve-RD RDMM-Europe PI: H. Lipshitz Seeding Grant Project Period: 2020 – 2022 Title: "Modeling a rare human disease causing polymalformative syndrome in Drosophila" €20,000 Organization: Rare Diseases Models & Mechanisms (RDMM), Canada PI: H. Lipshitz Catalyst Grant Project Period: 2021 - 2022 Title: "Modeling a rare human disease in Drosophila: MCM3AP/Xmas" \$25,000