## Curriculum vitae Oliver Hobert, Ph.D.

## Columbia University, Department of Biological Sciences **Howard Hughes Medical Institute**

Phone: (212) 305 0063, e-mail: or38@columbia.edu

Birth: 02.02.1967, Rotenburg an der Fulda, Germany

**Education:** 

1996-1999 Postdoctoral Fellow, Harvard Medical School/Massachusetts General Hospital, Boston;

Advisor: Prof. Gary Ruvkun

Ph.D., Molecular Biology, Max Planck Institute for Biochemistry, Martinsried, Germany; 1992-1995

Advisor: Prof. Axel Ullrich

Diploma Biochemistry (Diplom Studiengang Biochemie), Universität Bayreuth, Germany; 1987-1992

Advisor: Prof. Gerhard Krauss

1990 Summer Research Internship at Columbia University, Dept. of Biological Sciences;

Advisor: Prof. Alberto Mancinelli

1989 Research Internship at German Cancer Research Center (DKFZ) Heidelberg;

Advisor: Dr. Hans-Dieter Royer

## **Professional Experience:**

2015-present	Full Professor at Columbia University, Department of Biological Sciences
2014-present	Full Professor at Columbia University Medical Center, Department of Systems Biology
2009-present	Full Professor at Columbia University Medical Center, Department of Biochemistry and Molecular
	Biophysics
2005-present	Investigator, Howard Hughes Medical Institute
2005-2009	Associate Professor (with tenure) at Columbia University Medical Center, Department of
	Biochemistry and Molecular Biophysics
1999-2005	Assistant Professor at Columbia University Medical Center, Department of Biochemistry and
	Molecular Biophysics, Co-Appointment in the Center for Neurobiology and Behavior

#### **Awards and Honors:**

2015	Jacob Javits Award in the Neurosciences
2014	Elected Fellow of the American Association for the Advancement of Science (AAAS)
2008	Harland Winfield Mossman Award in Developmental Biology
2001	McKnight Endowment for the Neurosciences Disease Award
2001	Rita Allen Foundation Scholar Junior Faculty Award
2001	Irma T. Hirschl Early Career Scientist Award
2000	Klingenstein Fellow
2000	Alfred P. Sloan Research Fellow
2000	Searle Scholar Junior Faculty Award
2000	Basil O'Connor Scholar Award
1999	Human Frontiers in Science 10 <sup>th</sup> Anniversary Award (for postdoctoral work)
1998	Postdoctoral Fellowship Award from the MGH Fund For Medical Discovery
1997	Junior Investigator Award from the German Academy of Science "Leopoldina" (for Ph.D. work)
1996	Human Frontiers in Science Postdoctoral Fellowship
1994	Awarded a Ph.D. scholarship from the DAAD for 1 year stay at Sugen, Inc.
1993	Awarded a Ph.D. scholarship from the "Studienstiftung des deutschen Volkes"
1989	Awarded an undergraduate scholarship from "Studienstiftung des deutschen Volkes"

## **Teaching Activities:**

At Columbia University

starting 2017 Lecturer Advanced Undergraduate course "Developmental Neurobiology", Dept. of Biological

Sciences

Lecturer Graduate course "Advanced eukaryotic molecular genetics", Dept. of Genetics & Dev. 2013-2015

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2012	Lecturer Graduate course "Genetics", Dept. of Biological Sciences	
2009-2015	Lecturer Graduate course "Professional Development for Neuroscientists", Dept. of Neuroscience	
2008-present	Lecturer Graduate course "Molecular Genetics", Dept. of Microbiology and Immunology	
2007-2011	Organizer & Lecturer of "Stem Cells and Cell Lineage Specification" course	
2002-2015	Lecturer Graduate course "Principles of Developmental Biology", Dept. of Genetics & Dev.	
2001-2015	Lecturer Graduate course "Developmental Neurobiology", Dept. of Neuroscience	
2001-2008	Co-Organizer Graduate Course "Developmental Neurobiology", Center for Neurobiol. & Behavior	
1999-2007	Lecturer Graduate course "Biochemistry and Molecular Biology of Eukaryotes", Dept. of Biochem.	
Outside Columbia University		
2015	Guest lecturer in Cold Spring Harbor Course "Advanced Techniques in Molecular Neuroscience"	
2011	Guest lecturer MBL Course "Gene Regulatory Networks", Woods Hole	
2009,2013,2015	Guest lecturer EMBO Course "Developmental Neurobiology", University College London	
2009	Guest lecturer in Lipari Summer School "Computational Biology", Italy	
2006	Guest lecturer in Postgraduate Course on Developmental Biology at the Universidad de Chile	
2005	Guest lecturer at New Jersey Governor's School in the Sciences, Drew University, NJ	
2004	Guest lecturer in "Developmental Neurosci.", Graduate course at New York University	
2003,2004	Guest lecturer in "Developmental Neurosci.", Graduate course at Albert Einstein College of Med.	
2002,2008,2010		
2000	Guest lecturer in Cold Spring Harbor Laboratory, Course on "Adv. Genome Seq. Analysis"	

# **Training Activities:**

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1999-present	Postdoctoral training:	19 past Postdoctoral Fellows (12 currently Faculty Members)
	Graduate training:	17 past Graduate Students (5 currently Faculty Members)
Other:		
2007-2012	Program director NIH 1	T32 Training Grant "Stem Cells and Cell Lineage Specification"
2006-present	Training Mentor Harlen	n Children Society
2005-present	Training Faculty of the	Graduate Program in Biological Sciences at Columbia University
2004-present	Training Faculty of the	Graduate Program in Genetics and Development
1999-present	Training Faculty of the	Neuroscience Graduate Program (Center for Neurobiology and Behavior)

## **Trainees:**

ast Postdoctora	l Fellows:
1) 1999-2000	Zeynep Altun-Gultekin (M.D., Ph.D. Cornell U), now Attending Psychiatrist/Faculty, Columbia University Medical Center
2) 1999-2002	Oscar Aurelio (Ph.D. UC Irvine), now Scientist, Focus Diagnostics, Inc.
3) 1999-2004	Paula Loria (Ph.D. Univ Chicago), now Associate Research Fellow at Pfizer
4) 2003-2004	Yael Feinstein (Ph.D. Weizmann Institute, Israel), now: Head of Bio-optics facility, Hebrew Univ.
5) 1999-2005	Hannes Buelow (Ph.D. Max Delbrück Center, Berlin), now: Associate Professor at
	Albert Einstein College of Medicine
6) 2003-2004	Erik Runko (Ph.D. AECOM), now Program Analyst, Extramural Research Program, NIH
7) 2003-2006	Celia Antonio (Ph.D. EMBL, Heidelberg), now Clinical Study Manager at Novartis
8) 2004-2009	Claire Benard (Ph.D. McGill University), now: Assistant Professor at University Mass. Worcester
9) 2007-2009	Henry Bigelow (Ph.D. Columbia University), now: Computational Biologist, Amgen Inc.
10) 2004-2009	Roger Pocock (Ph.D. Oxford University, UK), now Associate Professor, Monash University, Austral.
11) 2005-2011	Vincent Bertrand (Ph.D. Univ. Marseille), now: Group Leader, University of Marseille
12) 2005-2011	Maria Doitsidou (Ph.D. MPI Biophys.Chemistry), now Group Leader (Chancellor's Fellow),
	University of Edinburgh, Scottland
13) 2005-2012	Richard Poole (Ph.D. UC London), now: Group Leader (Wellcome Trust Career Development
	Fellow) at University College, London
14) 2006-2011	Nuria Flames (Ph.D. Neurscience Institute Alicante, Spain), now: Group Leader, Institute of
	Biomedicine of Valencia, Spain
15) 2006-2011	Baris Tursun (Ph.D. ZMNH, Germany), now: Group Leader at Max Delbrueck Center, Berlin
16) 2006-2012	Luisa Cochella (Ph.D. Johns Hopkins University), now: Group Leader IMP, Vienna, Austria
17) 2010-2012	Oded Rechavi (Ph.D. Tel Aviv University, Israel), now: Assistant Professor, Tel Aviv University
18) 2008-2014	Ines Carrera (Ph.D. NYU), now: Postdoctoral Fellow, Institut Pasteur de Montevideo, Uruguay
19) 2010-2016	Paschalis Kratsios (Ph.D. EMBL, Germany/Italy), ensuing position: Assistant Professor,

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## University of Chicago

### b) Past Graduate Students:

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	1) 1999-2005	Katherine Berry (Integrated Program), then postdoc at Harvard Medical School
	2) 2000-2003	Ephraim L. Tsalik (MD/PhD Program), now Assistant Professor of Medicine, Duke University
	3) 2000-2003	Nehal Mehta (Biochem. Program), now Senior Manager, Business Development, Daiichi Sankyo
	4) 2000-2004	Adam S. Wenick (MD/PhD Program), now Assistant Professor, Johns Hopkins University
	5) 2000-2004	Sarah Chang (Neurobiology Program), now Vice President, Medical and Scientific Services;
		Infusion Communication
	6) 2001-2005	Robert J. Johnston (Biochemistry Program), now Assistant Professor, Johns Hopkins University
	7) 2001-2005	Thomas Boulin (Ecole Normale Superieure, Paris, France), now Group Leader, Université Lyon
	8) 2003-2008	John Etchberger (Biochemistry Program), now Associate Director, Navigant Consulting, Inc.
	9) 2004-2009	
	10) 2004-2009	Dominic Didiano (Biochem. Program), now Research Assistant Professor, Vanderbilt University
	11) 2004-2009	Eileeen Flowers (Integrated Program), now Vice President, Biotech. Equity Research, Jefferies&Co
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	13) 2004-2010	Sumeet Sarin (Genetics Program), now Postdoctoral Fellow at Harvard University
	14) 2005-2010	Andrew Goldsmith (Genetics Program), now Senior Manager, Competitive Intelligence at Pfizer
	15) 2006-2010	Enkelejda Bashllari (Integrated Program), now Kaplan Fellow at Harvard Business School
		Heidi Smith (Biology Program), now Postdoctoral Fellow at University of Texas
		Feifan Zhang (Biology Program), now Biostatistician, Cardiovascular Research Foundation
	18) 2009-2014	Patricia Gordon (Biochemistry Program), now Postdoctoral Fellow at University College London
	19) 2009-2014	Gregory Minevich (Pathology Program)
	20) 2009-2015	Nikolaos Stefanakis (Biology Program), now Postdoctoral Fellow at NYU

## **Institutional Committees:**

2015-2016	Member of Search Committee Junior Faculty Recruitment for Dept. of Biological Sciences
2011-2012	Member of Search Committee Junior Faculty Recruitment for Columbia Stem Cell Initiative
2010	Member of Search Committee for Chairman, Ophthamology Department
2007-2011	Ad hoc member of Tenure Advisory Committee
2006-2007	Member of Search Committee Junior Faculty Recruitment for Genetics Department
2006-2007	Member of Search Committee Junior Faculty Recruitment for Psychiatry Department
2005-2006	Chair, Search Committee Junior Faculty Recruitment for Biochemistry Department
2004-2011	Chair of the Graduate Admission Committee for the Graduate Program in Biochemistry
2001-2011	Member of Graduate Admission Committee for the Graduate Program in Neuroscience

### **Editorial Activities:**

2009-present Editorial board of Current Biology 2009-present Editor, WormMethods 2009-2015 Editorial board of Developmental Dynamics 2009 Guest Co-Editor special issue Current Opinions in Neurobiology "Development" 2009 Guest Editor special issue Current Topics in Dev. Biol. "Development of Neural Circ 2008-present Associate Editor; then Senior Editor & Reviews Editor, Genetics 2007-present Editorial board of Developmental Biology 2006-present Editorial board of Neural Development 2006-present Editor, WormBook, Gene Expression Section 2008 Present Editorial board of Development	
2003 Editor, WormBook, Gene Expression Section  2003-present Editorial board of Development	
2002 Guest Editor special issue <i>Journal of Neurobiology "Genes and Behavior"</i>	
2001-present F1000Prime Faculty member	

## **Advisory Boards:**

entific and Clinical Steering Committee New York Genome Center
visory Board "European Neuroscience Institute" Göttingen
entific Advisory Board WormBase
rlem Children Society's Executive Advisory Committee

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2008-2014 Elected Board member of Society for Developmental Biology (Northeast Represent.; 2 terms)

## **Meeting Organization:**

Co-Organizer (with S. Jarriault) Fondation des Treilles meeting "Plasticity of cellular identity" 2016 2013 Co-Organizer (with M. Halpern) Satellite Symposium "Making and breaking the left-right axis: Laterality in development and disease" (International Congress of Developmental Biology, 72nd Annual Meeting Society for Developmental Biology), Cancun, Mexico Co-Organizer (with M. Sundaram) 18<sup>th</sup> International C. elegans meeting, Los Angeles 2011 Co-Organizer (with R. Kingston) Cell Press Conference "Epigenetics" 2011 2006 Co-Organizer (with R. Parker) Mini-Symposium "RNA and Development" at Annual Meeting of Amercian Society for Cell Biology

2005-2006 Co-Organizer RNAi Study Group NY Academy of Science

Patents:

2006 U.S. Utility Patent # 7125976 "Method of screening for agents inhibiting chloride intracellular

channels"

#### Grant support:

Active:

P37 Merit Award for R01NS039996 2015-present

2014-2017 National Institute of Health, BRAIN award 1U01MH105924 2005-present Howard Hughes Medical Institute (next renewal 2016)

2000-present National Institutes of Health R01NS039996 (3.renewed funding period)

Pending council review (3rd percential score)

2016-2018 National Institutes of Health R21 NS096343-01

Past:

2004-2015 National Institutes of Health R01NS050266 (incl. 1 Supplement & 1 yr. no cost-extension) **CUMC Motor Neuron Center Pilot Grant** 2012-2014 Helmsley Stem Cell Starter Grant 2012-2013 National Institutes of Health R21NS076191 Grant (incl. 1 yr. no cost-extension) 2011-2014 Muscular Dystrophy Association Research Grant 2010-2013 Michael J. Fox Foundation Rapid Response Award 2011-2012 CUMC Skin Disease Research Center Pilot Grant 2010-2011 2009-2011 National Institutes of Health R03NS067451 Grant Michael J. Fox Foundation Rapid Response Award 2009-2010 2008-2010 National Institutes of Health R03NS064482 Grant 2005-2008 National Institutes of Health R03HD050334 Grant 2005-2008 Muscular Dystrophy Association Research Grant 2005-2007 National Institutes of Health R03NS052269 Grant 2001-2006 McKnight Endowment Fund for Neuroscience Brain Disorder Award Rita Allen Foundation Fellowship 2001-2005 Irma T.Hirschl Trust 2001-2005 Searle Foundation 2000-2004 2001-2003 Muscular Dystrophy Association Research Grant Klingenstein Foundation 2000-2003 2000-2003 March of Dimes Foundation Basil O'Connor Grant 2000-2003 Alfred P.Sloan Foundation 2001-2002 American Paralysis Association Research Grant

2000 Bristol Myers Squibb Pilot Grant 1999-2000 Herbert Irving Cancer Center Squibb Pilot Grant

Whitehall Foundation Research Grant

Culpeper Foundation Pilot Grant 1999-2000

1999-2002 Human Frontier Science Program Research Grant

#### **Grant Review Panels:**

2000-2002

2015-present Life Sciences Research Foundation postdoctoral fellowship review panel 2015 Review panel NYU Abu Dhabi (NYUAD) Center for Genomics and Systems Biology

2010-2012 Chair of NIH study section Neurogenesis and Cell Fate (NCF)

2009 Spanish National Research Council (CSIC)

2009 Science Foundation Ireland (SFI)

2009 Simons Foundation

2008-2012 Permanent Member NIH study section Neurogenesis and Cell Fate (NCF); 2 years chair 2001-2008 Ad hoc reviewer for NIH study section Mol. Dev. Cell. Neuroscience (MDCN6), then NCF

#### Other review panels (ad hoc service):

NIH (NDPR, NNB BSCT study sections)
 Human Frontiers in Science Program
 National Science Foundation (NSF)
 Medical Research Council, UK

- French Ministry of Research and Education - Natural Environment Research Council (NERC), UK

- European Science Foundation - United States/Israel Binational Science Foundation (BSF)

- Biotechnology and Biological Sciences Research Council (BBSRC), UK

- Israeli Science Foundation (ISF) - NYU Abu Dhabi Center for Genomics, External Review comm.

#### **Publication Peer review activities:**

- Nature - Science - Cell - eLife - Neuron - Mol.Cell - Dev. Cell - Cell Reports - Genes & Dev. - Nat. Genetics - Nat. Neurosci. - Nat. Methods - Nat. Struct. Mol. Biol. - PNAS - Curr. Biol. - Development - EMBO J. - J.Neurosci. - Trends in Neurosci. - Mol.Biol.Cell - Genetics - Gene - Dev.Biol. - J.Mol. Biol. - Learning & Memory - J.Cell Sci. - Mech.Dev. - Dev.Dyn. - Genome Biol. - Genome Res. - BioTechniques - FEBS Letters - BMC journals - PloS Biology - PLoS One - PLoS Genetics- Nucleic Acids Res. - Dev. Neurobiol. - Mol. Cell. Biol. - Neural Dev. - Genomics

#### **Invited Talks:**

- 1. National Institute of Health, Laboratory of Mammalian Genes and Development, 02/1999
- Rutgers University, Department of Molecular Biology & Biochemistry, 05/1999
- 3. Queens College, CUNY, Department of Biology, 09/1999
- 4. Annual Meeting of the Genetics Society, Munich, 10/1999
- 5. LMU University Munich, Gene Center, 10/1999
- 6. Bio Center, Basel, Switzerland, 10/1999
- 7. Human Frontiers in Science Award 10<sup>th</sup> Anniversary Meeting, 12/1999
- 8. Albert Einstein College of Medicine, Department of Neuroscience, 12/1999
- 9. Genomic Development Biology Conference, USC, Los Angeles, 03/2000
- 10. Cold Spring Harbor Laboratory, Course on "Adv. Genome Seq. Analysis", 03/2000
- 11. NIH, Laboratory of Mammalian Genes & Development, Airlie House Retreat, 05/2000
- 12. New York University Medical Center, Skirball Institute, Dev. Neuro. Program., 06/2000
- 13. International Society for Dev. Neuroscience, Annual Meeting, Heidelberg, 06/2000
- 14. Exelixis, Inc. San Fransisco, 03/2001
- 15. Society for Developmental Biol., North-East section meeting Woods Hole, 04/2001
- 16. Ecole Normale Superieur, Paris, 05/2001
- 17. Weizmann Institute, Department of Cell Biology, Rehovot, 05/2001
- 18. Max Planck Institute for Molecular Genetiscs, Berlin, 02/2002
- 19. Society for Developmental Biol., North-East section meeting Woods Hole, 04/2002
- 20. Human Frontiers Science Program, Annual Meeting, Ottawa, 06/2002
- 21. Cold Spring Harbor Course "C.elegans", 08/2002
- 22. Stowers Institute, Kansas City, 11/2002
- 23. Harvard Medical School, Dept. Neurobiology, 12/2002
- 24. Boston University School of Medicine, Dept. Mol. Cell. Biol., 01/2003
- 25. Mass. General Hospital, Dept. Mol. Biol., Boston, 01/2003
- 26. MRC Laboratory of Molecular Cell Biology, UC London, 02/2003
- 27. New York University, Department of Biology, 02/2003
- 28. University of Marseille, IBDM, Marseille, 03/2003
- 29. Searle Scholar Annual Meeting, Chicago, 04/2003
- 30. McKnight Foundation, Annual Meeting, Aspen, 06/2003
- 31. Rockefeller University, 06/2003
- 32. Max Planck Institute for Medical Research, Heidelberg, 07/2003
- 33. Institute for Molecular Pathology (IMP), Vienna, 09/2003

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- 34. EMBO workshop "Assembly of Neural Circuits" Varenna, Italy, 09/2003
- 35. Johns Hopkins School of Medicine, Dept. Neurosci., 10/2003
- 36. Max Planck Institute for Biochemistry, Martinsried, 11/2003
- 37. NYU Medical Center, Skirball Institute, Dev. Genetics program, 11/2003
- 38. Vanderbilt University Medical Center, Dept. Cell Dev. Biol., 12/2003
- 39. Central European C.elegans meeting, Basel, 01/2004
- 40. CSH Meeting "Systems Biology Genomic Approaches to Transcriptional Regulation", 03/2004
- 41. University of Oregon, Institute for Neuroscience, Eugene, 03/2004
- 42. Keystone Meeting "siRNAs and miRNAs", 04/2004
- 43. Gordon Conference "Basement Membranes", 06/2004
- 44. Israeli Society for Dev. Biology Meeting, Rehovot, 07/2004
- 45. CSH Meeting on Axon Guidance and Neural Plasticity (invited session chair), 09/2004
- 46. University of Chicago, Dev.Biol.seminar series, 10/2004
- 47. NY Academy of Science RNA silencing symposium, 10/2004
- 48. Yale University, Interdepartmental Neuroscience Program, 11/2004
- 49. University of Utah, Huntsman Institute, Dean's Lecture Series, 12/2004
- 50. Cornell University, Molecular Biology & Genetics, 12/2004
- 51. Genzentrum (Gene Center) at the LMU, Munich, 01/2005
- 52. MRC Center for Dev. Neurobiol, London, 02/2005
- 53. Rutgers University, Dept. Molecular Biology and Biochemistry, 02/2005
- 54. University of Calgary, Genes and Development Depart., 02/2005
- 55. University of Utah, Depart. Biol., 03/2005
- 56. Memorial Sloan Kettering Cancer Institute, Dev.Biol. Prog., 03/2005
- 57. Cold Spring Harbor Meeting "Global Regulation of Gene Expression", 03/2005
- 58. Keystone Symposium Axonal Connections: Molecular Cues for Development and Regeneration, 03/2005
- 59. German society for developmental biology (GfE), Annual Meeting, Münster, Germany, 04/2005
- 60. Vollum Institute, 06/2005
- 61. Society for Developmental Biology Meeting, San Fransisco, 07/2005
- 62. University of Massachusetts Medical School, Worcester, Prg.Mol.Medicine, 10/2005
- 63. University of Miami Miller School of Medicine NeuroScience Program 11/2005
- 64. Annual Symposium, Center for Genomic Regulation, Barcelona, Spain, 11/2005
- 65. EMBL, Heidelberg, 12/2005
- 66. Universität Braunschweig, Genetics Department, 12/2005
- 67. Mount Sinai Medical School, Department of Molecular, Cell & Developmental Biology, 01/2006
- 68. Washington University, Dept. Anatomy and Neurobiology, St.Louis, 01/2006
- 69. UCSD Neuroscience Graduate Program, 01/2006
- 70. SUNY, Stony Brook, Department of Neurobiology and Behavior 02/2006
- 71. California Institute of Technology, Division of Biology, 02/2006
- 72. University of North Carolina, Neuroscience Center, Chapel Hill, 03/2006
- 73. Max Planck Institute for Developmental Biology, Tübingen 03/2006
- 74. Universität Freiburg, Germany, 03/2006
- 75. Society for Dev. Biology, Northeast section meeting, Woods Hole, 04/2006
- 76. University of Washington, Seattle, 05/2006
- 77. Cold Spring Harbor Meeting Quantitative Biology, Regulatory RNA, 05/2006
- 78. Zentrum for Molekulare Neurobiologie Hamburg, 09/2006
- 79. Max Planck Institut for Biophysical Chemistry, Göttingen, 09/2006
- 80. Hellenic Society for Neuroscience, Krete, 09/2006, Keynote Speaker
- 81. Stanford University, Department of Genetics, 10/2006
- 82. Case Western University, Department of Neuroscience, 11/2006
- 83. University of Albany, SUNY, Department of Biology, 11/2006
- 84. Universidad de Chile, Santiago de Chile, 11/2006
- 85. American Society for Cell Biology, invited Guest speaker & mini-symposium organizer, 12/2006
- 86. Hot Spring Harbor and 21. COE Symposium at Kyushu University, Japan, 12/2006
- 87. UCSF, Gladstone Institute of Neurological Disease, 01/2007
- 88. Kavli Institute for Theoretical Physics (KITP), 03/2007
- 89. Janelia Farm Research Conference "Neuronal Identity", 03/2007
- 90. Janelia Farm Research Conference "Neural Circuits and Behavior in C.elegans", 03/2007
- 91. Spring Symposium of the Molecular Biology Society of Japan, Kyoto, Japan, 04/2007
- 92. RIKEN, Center for Developmental Biology, Kobe, Japan, 04/2007
- 93. University of Iowa, Department of Molecular Physiology and Biophysics, 05/2007

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- 94. Minisymposium "Protein Machines", Max Planck Institute for Biochemistry, Martinsried, 05/2007
- 95. Gordon Research Conference on Developmental Biology, 06/2007
- 96. National Institutes of Health/NHLB, Genetics and Developmental Biology Center, 09/2007
- 97. Cold Spring Harbor Laboratories, 10/2007
- 98. Yale University Medical School, Department of Genetics, 10/2007
- 99. Children's Hospital Boston, Program in Neurobiology, 10/2007
- 100. Samuel Lunenfeld Research Institute, Toronto, 11/2007
- 101. Cornell University Weill Medical College, Department of Cell and Developmental Biology 11/2007
- 102. Vanderbilt University, Department of Biological Sciences, 01/2008
- 103. NYU Skirball Institute, Developmental Genetics Program, 01/2008
- 104. Duke University, Department of Biology, 02/2008
- 105. National Academy of Sciences Sackler Colloquium Gene Networks in Animal Development and Evolution, 02/2008
- 106. Canadian Society for Developmental Biology meeting, 02/2008, Keynote Speaker
- 107. University of Wisconsin, Madison, Department of Biochemistry, 03/2008
- 108. New York Academy of Sciences Meeting "Neural Stem Cells: From Development to Function", 03/2008
- 109. Keystone Symposium, RNAi, MicroRNA, and Non-Coding RNA, 03/2008
- 110. Janelia Farm Research Conference "The Logic of Gene Regulation", 05/2008
- 111. Children's Hospital of Philadelphia/University of Pennsylvania, 05/2008
- 112. Society for Developmental Biology, Annual Meeting, Invited Plenary Speaker, 07/2008
- 113. Gordon Conference "Visual Development", Invited Speaker, 08/2008
- 114. Cold Spring Harbor Labs, C.elegans Course, 08/2008
- 115. Memorial Sloan Kettering, Developmental Biology Program, 09/2008
- 116. Brandeis University, Biology Department, 09/2008
- 117. University British Columbia, Vancouver, Life Science Center, 10/2008
- 118. Yale University, Department of Molecular, Cellular and Developmental Biology, 10/2008
- 119. Mt. Sinai School of Medicine, Dept. of Genetics and Genomic Sciences, 10/2008
- 120. Cincinnati Children's Hospital Research Foundation, Division of Developmental Biology, 11/2008
- 121. Keystone meeting Axonal Connections: Molecular Cues for Development and Regeneration, 02/2009
- 122. SUNY Downstate Medical Center, Neuroscience Seminar Series, 03/2009
- 123. University of California Berkeley, Department of Molecular & Cell Biology, 03/2009
- 124. Experimental Biology Meeting, New Orleans, Invited speaker 04/2009
- 125. Summer School "Lipari International School on RNAs: structure, function and therapy.", 06/2009
- 126. EMBO Practical Course 'Developmental Neurobiology from Worms to Mammals', MRC, London, 07/2009
- 127. International Society for Developmental Biology Congress, Edinburgh, Symposium speaker, 09/2009
- 128. International Max Planck Research School for Molecular Biology, Symposium speaker, 09/2009
- 129. Cell Press/IPSEN Foundation meeting "Biology in Balance", Buenos Aires, 10/2009
- 130. University of Illinois, Department of Cell and Developmental Biology. Urbana-Champaign, 10/2009
- 131. Stowers Institute, Kansas City, 11/2009
- 132. University of Texas, Institute of Cellular and Molecular Biology, Austin, 11/2009
- 133. Trinity College, Dublin, 12/2009
- 134. University of Pennsylvania, Neuroscience Program, 01/2010
- 135. 8th TLL Life Sciences Symposium (Singapore) "Neurodevelopment, Behaviour and Disease", 02/2010
- 136. Max Planck Institute for Molecular Genetics, Berlin, 02/2010
- 137. University of California San Diego, Dept. Biology, 02/2010
- 138. Albert Einstein College of Medicine, Liver Center, 02/2010
- 139. Max Planck Institute for Biophysics, Göttingen, 03/2010
- 140. Institute of Molecular Biology (IMBA), Vienna, 03/2010
- 141. National Institute for Physiology, Okazaki, Japan, 04/2010
- 142. Drexel University, Biology Department 05/2010
- 143. University of Utah, Department of Genetics, Invited Speaker at Annual Retreat, 05/2010
- 144. New York University 9th annual Genomics Symposium, 05/2010
- 145. University of Cologne Symposium, Germany, 06/2010, Keynote Speaker
- 146. University of Braunschweig, Germany, 06/2010
- 147. C.elegans Topic meeting "Neural Development, Function & Behavior", 06/2010, Keynote Speaker
- 148. Developmental Biology meeting Santa Cruz, Invited Plenary Speaker, 06/2010
- 149. Ludwig Maximilian University Munich, 07/2010
- 150. Gordon Conference Neuronal Development, Newport, 08/2010,
- 151. Society for Developmental Biology, Annual Meeting Albuquerque, 08/2010
- 152. Cold Spring Harbor Course C.elegans, 08/2010
- 153. Harvard University, Dept. Mol Cell Biol., 10/2010

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- 154. Janelia Farm Workshop "Development and Evolution of the Nervous System", 11/2010
- 155. University of Minnesota, Department of Genetics, Cell Biology, and Development, 02/2011
- 156. University of Michigan, 03/2011
- 157. University of Nice, Institute of Developmental Biology and Cancer Research, 03/2011
- 158. Centre for Organismal Studies (COS) Heidelberg, Germany 05/2011
- 159. ISREC, Swiss Institute for Experimental Cancer Research, Lausanne, 05/2011
- 160. Albert Einstein College of Medicince, Genetics Program Retreat, 06/2011, Keynote Speaker
- 161. 13th Annual Samuel Lunenfeld Research Institute Symposium on "Neurobiology", 06/2011, Keynote Speaker
- 162. 2011 European zebrafish meeting, Edinburgh, 07/2011, Keynote Speaker
- 163. French and British Societies for Developmental Biology, Nice, 09/2011, Keynote Speaker
- 164. Janelia Farm Conference "Control of Neuronal Identity", 10/2011, Keynote Speaker
- 165. Biomedical Symposium at St. Jude Children's Research Hospital, 10/2011
- 166. Invited guest speaker MBL Woods Hole course "Gene regulatory networks for Development" 10/2011
- 167. Cell Press Symposium " Epigenetics and the inheritance of acquired states", 11/11 (organizer and speaker)
- 168. Cornell University Weill Medical College, Neuroscience Program 12/2011
- 169. University of Pennsylvania, Mahoney Institute of Neurological Science Seminar, 01/2012
- 170. Seminar Stanford University, Frontiers in Bioscience Lecture series, 02/2012
- 171. Princeton University, Lewis-Sigler Institute, 02/2012
- 172. Gordon Research Conference "Cellular Reprogramming", Galveston, Texas 02/2012
- 173. University of California Los Angeles, Seminar in Neuroscience, 02/2012
- 174. Mount Sinai Friedman Brain Institute Translational Neuroscience Seminar Series, 03/2012
- 175. University of Montpellier, 04/2012
- 176. Young Researchers in Life Sciences Meeting, Paris, 2012, 05/2012, Keynote Speaker
- 177. UT Southwestern Neuroscience Seminar Series, 05/2012
- 178. Washington University, St. Louis, Dev. Biol. Retreat, 05/2012, Keynote Speaker
- 179. 10<sup>th</sup> Annual Meeting International Society for Stem Cell Research, Yokohama, Japan, 06/2012
- 180. Chang Gung University, Department of Biomedical Sciences, Taoyuan, Taiwan 06/2012
- 181. East Asia Worm meeting, Taiwan, 6/2012, Keynote Speaker
- 182. Arolla Conference, Cell and Developmental Systems, 8/2012
- 183. The MicroRNA Revolution, The 2012 Dr. Paul Janssen Award Symposium, 09/2012
- 184. University of Wyoming, Department of Molecular Biology, 9/2012
- 185. University of Wisconsin, RNA club, Madison, 10/2012
- 186. Georgia State University Brains and Behavior (Distinguished Lecture Series), 12/2012
- 187. Goethe University Frankfurt, 12/2012
- 188. UMDNJ-New Jersey Medical School, 01/2013
- 189. UCSF Neuroscience Program. 01/2013
- 190. California Institute of Technology, Division of Biology, 01/2013
- 191. Memorial Sloan Kettering Cancer Center (President's Lecture), 02/2013
- 192. Cold Spring Harbor Laboratory, "From Base Pair to Body Plan" (Celebration of the 60<sup>th</sup> anniversary of the discovery of the double helix), 02/2013
- 193. Nordic C.elegans Meeting, Copenhagen, 03/2013, Keynote Speaker
- 194. Developmental Biology Symposium, University of Helsinki, 03/2013
- 195. National Cancer Institute, Symposium "Epigenetics in Development", 04/2013
- 196. Society for Developmental Biology, Northeast Meeting, 04/2013
- 197. Albert Einstein College of Medicine, Dept. of Neuroscience, 04/2013
- 198. Annual Meeting International Society for Stem Cell Research, Boston, Satellite symposium "New Avenues for Brain Repair: Programming and Reprogramming the Central Nervous System", 06/2013
- 199. 17th International Congress of Developmental Biology, 72nd Annual Meeting Society for Developmental Biology, Satellite Symposium " "Making and breaking the left-right axis: Laterality in development and disease", 06/2013
- 200. EMBO Practical Course 'Developmental Neurobiology from Worms to Mammals', UCL, London, 07/2013
- 201. MRC Laboratory of Molecular Biology (LMB), Cambridge, 07/2013
- 202. Harvard Medical School, Dept. of Neurobiology, 09/2013
- 203. Case Western Reserve University, Dept. of Neurosci., 09/2013
- 204. Harvard Medical School, Dept. of Genetics, 10/2013
- 205. Yale University RNA Center Retreat 11/2013, Keynote speaker
- 206. Scripps Research Institute, Dorris Neuroscience Center, San Diego, 11/2013
- 207. Cincinnati Children's Hospital Research Foundation, 12/2013
- 208. Max Planck Institute for Molecular Genetics, Symposium "Current Trends in Genetics", 01/2014
- 209. French Society of Developmental Biology (SFDB) & EFOR network meeting, Paris, 02/2014
- 210. NYU Abu Dhabi "Genomics and Systems Biology" Conference, Abu Dhabi, 02/2014

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- 211. Carnegie Institution, Department of Embryology, Baltimore 03/2014
- 212. New York University, Department of Biology, 04/2014
- 213. Johns Hopkins University School of Medicine, Dept. of Neuroscience, 05/2014
- 214. Society for Developmental Biology, Mid-Atlantic Regional Meeting Baltimore, 05/2014, Keynote speaker
- 215. European Molecular Biology Laboratory (EMBL), Heidelberg (Distinguished Visitor Lecture Series), 06/2014
- 216. Exzellenzcluster NeuroCure at the Charité Universitätsmedizin in Berlin, NeuroColloquium, 06/2014
- 217. Gorden Research Seminar, Hong Kong, 06/2014, Keynote Speaker
- 218. Gordon Research Conference "Molecular and Cellular Neurobiology" Hong Kong, 06/2014
- 219. Annual Meeting Society for Developmental Biology, Seattle, 07/2014
- 220. Gordon Research Conference "Developmental Neurobiology", Newport, RI, 08/2014
- 221. National Institute of Biological Sciences (NIBS), Beijing, 09/2014
- 222. Institute of Biophysics, Chinese Academy of Sciences, Beijing, 09/2014
- 223. Shanghai Institute of Neuroscience, 09/2014
- 224. Cold Spring Harbor Asia Meeting "Neurobiology: Diverse species and conserved principles" Suzhou, China, 09/2014, **Keynote speaker**
- 225. Janelia Farm Seminar Series, 10/2014
- 226. Baylor College of Medicine, Department of Molecular and Human Genetics, 10/2014
- 227. Janelia Farm Research Conference "High-Throughput Sequencing for Neuroscience", 10/2014
- 228. Janelia Farm Research Conference "Neural Circuits Controlling Sexual Behavior", 11/2014
- 229. University of Pennsylvania, Department of Genetics, 01/2015
- 230. New York Area Worm Meeting, 01/2015
- 231. Princeton University, Department of Molecular Biology, 02/2015
- 232. New York University Honors Program Lecture, 04/2015
- 233. University of Massachussetts Medical Center, Department of Neurobiology, 04/2015
- 234. Imperial College London, MRC Clinical Sciences Centre, 05/2015
- 235. Cell Press Symposium "RNAs in the Nervous system", 07/2015
- 236. 4th Annual Sc2.0 and Synthetic Genomes Conference, NY Genome Center, 07/2015 (Panelist)
- 237. City College, New York, Department of Biology, 09/2015
- 238. Rockefeller University Postdoc Retreat 09/2015, Keynote speaker
- 239. Max Planck for Brain Research, Symposium "Molecular and Cellular Mechanisms of Homeostasis", 10/2015
- 240. Universität Köln, Germany, 11/2015
- 241. Utrecht University, Netherlands, 11/2015
- 242. University of Texas Health Science Center at San Antonio, Physiology Department, 11/2015
- 243. Fred Hutchinson Cancer Research Center, Seattle, 12/2015
- 244. Swiss Society for Molecular and Cellular Biosciences, Symposium Life Science Switzerland, Lausanne, 02/2016
- 245. Brown University, Department of Neuroscience, 04/2016
- 246. Fondation des Treilles meeting "Plasticity of cellular identity", 05/2016
- 247. Genetics Society of America, The Allied Genetics Conference, Orlando, Florida, 07/2016
- 248. C.elegans Neuro (CeNeuro) Meeting, Nagoya, Japan, 07/2016
- 249. National Institute of Genetics, Mishima, Japan, 07/2016
- 250. Mt. Sinai School of Medicine, Department of Developmental and Regenerative Biology, 09/2016
- 251. Keystone meeting "Neurogenesis during Development and in the Adult Brain", Olympic Valley, 01/2017
- 252. EMBO meeting "Gene regulatory mechanisms in neural fate decisions", Alicante, Spain, 9/2017

#### **Publications:**

#### Reviews, Essays & Commentaries

- 1. **Hobert, O** and Ruvkun, G (1998). "A Common Theme for LIM Homeobox Gene Function Across Phylogeny?". MBL & NASA Symposium on "Genetic Regulatory Networks in Embryogenesis and Evolution" *Biol. Bulletin* 195, 377-380.
- 2. Hobert, O and Ruvkun, G (1999) "Pax genes in Caenorhabditis elegans: A new twist" Trends Genet. 15, 214-216.
- 3. **Hobert, O**, Johnston, RJ and Chang, S (2002) "Left/right asymmetry in the nervous system: The *C. elegans* paradigm", *Nature Rev. Neurosci*, 3(8), 629-640
- 4. **Hobert, O** (2003) "Behavioral plasticity in *C. elegans*: Paradigms, Circuits, Genes" *J.Neurobiol* 54, 203-223 (special issue: *Genes and Behavior*) + Editorial Overview "Behavioral Genetics The third century"
- 5. **Hobert, O** and Bülow, HE (2003) "Development and maintenance of neuronal architecture at the ventral midline of *C.elegans*" *Curr.Op. Neurobiol* 13, 70-78 (Invited Review)

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- 6. Rougon, G and **Hobert**, **O** (2003) "New insights into the diversity and function of neuronal immunoglobulin superfamily molecules" *Ann.Rev.Neurosci*. 26, 207-238 (Invited Review)
- 7. **Hobert, O,** Hutter, H and Hynes, RO (2004) "The immunoglobulin superfamily in Caenorhabditis elegans and Drosophila melanogaster" *Development* 131, 2237-2238 (Commentary)
- 8. Hobert, O (2004) "Common logic of transcription factor and miRNA action" TIBS, 29(9), 462-468
- 9. Hobert, O (2005) "MicroRNAs: All Gone and Then What?" Curr.Biol, 15(10), R387-389 (Invited Commentary)
- Bülow, HE and Hobert, O (2006) "The Molecular Diversity of Glycosaminoglycans shapes Animal Development" Ann. Rev. of Cell Dev. Biol. 22, 375-407 (Invited Review)
- 11. **Hobert, O** (2006) "Architecture of a microRNA-controlled gene regulatory network that diversifies neuronal cell fates", **Cold Spring Harbor Symposia on Quantitative Biology**: Regulatory RNAs, Volume 71, 181-188
- 12. Hobert, O (2007) "MicroRNAs playing a tune" Cell 131, 22-24 (Invited Commentary)
- 13. Hobert, O (2008) "Gene regulation by transcription factors and microRNAs" Science 319, 1785-1786 (Invited Review)
- 14. **Hobert, O** (2008) "Regulatory logic of neuronal diversity: Terminal selector genes and selector motifs" *Proc. Natl. Acad. Sci.* **USA** 105(51):20067-71 (Invited Review)
- 15. Bertrand, V and **Hobert, O** (2009) "Wnt asymmetry and the terminal division of neuronal progenitors", **Cell Cycle** 8, 1973-1974 (Invited Feature Article)
- 16. **Hobert, O** (2010) "The impact of Whole Genome Sequencing on model system genetics: Get ready for the ride" *Genetics*, 184: 317–319 (Perspective)
- 17. Bertrand, V and **Hobert, O** (2010) "Lineage programming: navigating through transient regulatory states via binary decisions" *Curr. Opin. Genet. & Dev* 20:362–368 (Invited Review)
- 18. **Hobert, O**, Carrera, I and Stefanakis, N (2010) "The molecular and gene regulatory signature of a neuron" *Trends in Neurosci.*, 33, 435-445
- 19. Hobert, O (2010) "Enhancers stepping out of the shadow" Curr. Biol. 20, R697-699 (Invited Commentary)
- 20. Hobert, O (2011) "Maintaining a memory by transcriptional autoregulation" Curr. Biol. 21(4), R146-147 (Primer)
- 21. Flames, N and **Hobert, O** (2011) "Transcriptional Networks Determining Monoaminergic Fate" *Ann. Rev. Neurosci.* 34, 153-84 (Invited Review)
- 22. **Hobert, O** (2011) " Regulation of terminal differentiation programs in the nervous system" *Ann. Rev. Cell Dev. Biol.* 27, 681-696 (Invited Review)
- 23. Boulin, T and **Hobert, O** (2012) "From Genes to Function: The *C. elegans* Genetic Toolbox" *WIREs Developmental Biology*, 1:114–137 (Invited Review)
- 24. **Hobert, O** (2014) " Development of left/right asymmetry in the *Caenorhabditis elegans* nervous system: From zygote to postmitotic neuron" *genesis* 52:528–543
- 25. Deneris, E and Hobert, O (2014) "Maintenance of postmitotic neuronal cell identity", Nature Neurosci. 17, 899-907
- 26. Hart, MP and **Hobert**, **O** (2015) "Neurobiology: Dimorphic mystery neurons control sex-specific behavioral plasticity", *Curr.Biol.* 25, pR1170–R1172 (Invited Commentary)
- 27. Arlotta, P and **Hobert, O** (2015) "Homeotic transformations of neuronal cell identities", *Trends in Neurosci.* 38, p.751-762
- 28. Howell, K and **Hobert, O** (2016) "Small Immunoglobulin domain proteins at synapses and the maintenance of neuronal features", *Neuron* 89, 239-241 (Invited Minireview)
- 29. **Hobert, O** (2016) "A map of terminal regulators of neuronal identity in *C.elegans*", *WIREs Dev. Biol., in press* (Invited review)

#### Book chapters:

1. Westphal, H and **Hobert, O** (2001) "LIM homeodomain proteins" *Wiley Encyclopedia of Molecular Medicine*, John Wiley & Sons, Inc., p.1922-1925.

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- 2. **Hobert, O** (2005) "Specification of the Nervous System" *WormBook*, ed. The *C. elegans* Research Community, WormBook, doi/10.1895/wormbook.1.12.1, http://www.wormbook.org
- 3. Boulin, T, Etchberger, J and **Hobert, O.** (2005) "Reporter gene fusions" *WormBook*, ed. The *C. elegans* Research Community, doi/10.1895/wormbook.1.106.1, http://www.wormbook.org
- 4. **Hobert, O** and Loria, PM (2005) "Uses of GFP in C. elegans" in "**Green Fluorescent Protein: Properties, Applications and Protocols** (Methods of Biochemical Analysis, Vol 47)" Chalfie and Kain (eds.), 2<sup>nd</sup> edition, Wiley
- 5. Benard, C and **Hobert, O** (2009) "Looking beyond development: maintaining nervous system architecture", *Curr. Top. Dev. Biol.* 87, 175-194
- 6. **Hobert, O** (2010) "Neurogenesis in the nematode *Caenorhabditis elegans*", *WormBook*, ed. The *C. elegans* Research Community, doi/10.1895/wormbook.1.12.2, http://www.wormbook.org.

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- 7. Cochella, L and Hobert, O (2012) "MiRNAs in neuronal development", Curr. Top. Dev. Biol., 99:115-43
- 8. **Hobert, O** (2013) "The neuronal genome of *C.elegans*", *WormBook*, *WormBook*, ed. The *C. elegans* Research Community, doi/10.1895/wormbook.1.161.1, http://www.wormbook.org
- 9. **Hobert, O** (2016) "Terminal selectors of neuronal identitty", *Curr. Top. Dev. Biol.* 50<sup>th</sup> Anniversary Issue "*Essays on Developmental Biology*", *invited chapter,* in press http://www.sciencedirect.com/science/article/pii/S0070215315002148
- 10. Vidal, B and **Hobert**, **O** (2016) "Methods to study nervous system laterality in the nematode *Caenorhabditis* elegans" **Neuromethods** (Springer), *invited chapter*, in press
- 11. Oren, M and and **Hobert, O** (2016) "Sexual dimorphism in the nervous system of simple model organism", in "**Principles of Gender-specific Medicine**", Academic Press, in preparation (invited chapter)

#### Primary research publications:

#### Undergraduate & Graduate Student:

- 1. Mancinelli, AL, **Hobert, O**, Nikas, G (1992) "*In vivo* Phytochrome-mediated perception of reflected light signals" *Photochem.Photobiol.* 5, 585-592.
- 2. Zeidler, R, **Hobert, O**, Johannes, L, Faulhammer, H, Krauss,G (1993) "Characterisation of two novel ssDNA-specific ARS-binding proteins from *S.cerevisiae*" *J.Biol.Chem.* 268, 20191-20197
- 3. **Hobert, O**, Jallal, B, Schlessinger, J, Ullrich, A (1994) "Novel signaling pathway suggested by SH3 domain-mediated p95<sup>Vav</sup>/hnRNP-K interaction" *J.Biol.Chem.* 269, 20225-20228
- 4. **Hobert, O**, Schilling, J, Beckerle, M, Ullrich, A, Jallal B (1996) "SH3-dependent interaction of the Vav-proto-oncogene product with the focal adhesion protein Zyxin" *Oncogene* 12, 1577-1581.
- 5. **Hobert, O**, Jallal, B, Ullrich, A (1996) "Interaction of Vav with ENX-1, a putative transcriptional regulator of homeobox gene expression" *Mol.Cell. Biol*.16, 3066-3073
- 6. **Hobert, O**, Sures, I, Ciossek, T, Fuchs, M, Ullrich, A (1996) "Isolation and developmental expression analysis of Enx-1, a novel mouse Polycomb-group gene" *Mech. Dev.* 55, 171-184
- 7. Su, I-H, Basavaraj, A, Krutchinsky, AN, **Hobert, O**, Ullrich, A., Chait, BT, Tarakhovsky, A (2003) "Ezh2 controls B cell development through histone H3 methylation and Igh rearrangement" *Nat.Immunol.* 4, 124-131 (featured in F1000)

#### Postdoctoral Fellow:

- 1. **Hobert, O**, Mori, I, Yamashita, Y, Honda, H, Ohshima, Y, Liu, Y. and Ruvkun, G (1997) "Regulation of interneuron function in the *C. elegans* thermoregulatory pathway by the *ttx-3* LIM homeobox gene" *Neuron* 19, 345-357.
- 2. **Hobert, O**, D'Alberti, T, Liu, Y and Ruvkun, G (1998). "Control of neural development and function in a thermoregulatory network by the LIM homeobox gene *lin-11*" *J.Neuroscience* 18, 2084-2096.
- 3. Ruvkun, G and **Hobert, O** (1998) "The taxonomy of developmental control in *Caenorhabditis elegans*" **Science** 282,

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- 4. **Hobert, O**, Moerman, DG, Clark, KA, Beckerle, MC and Ruvkun, G (1999) "A conserved LIM protein that affects muscular adherens junction integrity and mechanosensory function in *C.elegans*" *J.Cell Biol.* 144, 45-57
- 5. **Hobert, O**, Tessmar, K and Ruvkun, G (1999) "The *C. elegans lim-6* LIM homeobox gene regulates neurite outgrowth and function of particular GABAergic neurons " *Development* 126, 1547-1562
- 6. Hall, DH, Winfrey, VP, Blaeuer, G, Hoffman, LH, Furuta, T, Rose, KL, **Hobert, O** and Greenstein, D (1999) "Ultrastructural features of the adult hermaphrodite gonad of *C.elegans*: Relations between the germ line and soma" *Dev.Biol.* 212, 101-123
- 7. Sagasti, A, **Hobert, O**, Troemel, ER, Ruvkun, G. and Bargmann, C. (1999) "Alternative olfactory neuron fates are specified by the LIM homeobox gene *lim-4*" **Genes Dev**.13, 1794-1806

#### Prinicipal Investigator:

- 1. Altun-Gultekin, Z, Andachi, Y, Tsalik, E, Pilgrim, D, Kohara, Y and **Hobert, O** (2001) "A regulatory cascade of three homeobox genes, *ceh-10, ttx-3* and *ceh-23* controls cell fate specification of a defined interneuron class in *C.elegans*" *Development* 128, 1951-1969
- 2. Sarafi-Reinach, TR, Melkman, T, **Hobert, O** and Sengupta, P (2001) "The *lin-11* LIM homeobox gene specifies olfactory and chemosensory neuron fates in *C. elegans*" **Development** 128, 3269-3281
- 3. Aurelio, O, Hall, DH and **Hobert, O** (2002) "Immunoglobulin-domain proteins required for maintenance of ventral nerve cord organization" *Science* 295, 686-690 (featured in *J.Cell.Biol.*156, 588, *Science* 295, 599 and in Faculty of 1000)
- 4. **Hobert, O** (2002) "A rapid PCR fusion-based approach to create reporter gene constructs for expression analysis in transgenic *C.elegans*" *BioTechniques* 32, 298-300
- 5. Bülow, HE, Berry, KL, Topper, L, Peles, E and **Hobert, O** (2002) "Heparan sulfate proteoglycan dependent induction of axon branching and axon misrouting by the Kallmann syndrome gene *kal-1*" *Proc.Natl.Acad.Sci USA* 99, 6346-6351 (featured in *Neuron* 34, 675)
- 6. Aurelio, O, Boulin, T and **Hobert, O** (2003) " Identification of spatial and temporal cues that regulate postembryonic expression of axon maintenance factors in the *C. elegans* ventral nerve cord" *Development* 130, 599-610
- 7. Raich, WB, Moorman, C, Lacefield, CO, Lehrer, J, Bartsch, D. Plasterk, RHA, Kandel, EK and **Hobert, O** (2003) "Characterization of *Caenorhabditis elegans* homologs of the Down Syndrome candidate gene DYRK1A" *Genetics* 163(2), 571-580
- 8. Tsalik, EL and **Hobert, O** (2003) "Functional mapping of neurons that control locomotory behavior in *Caenorhabditis elegans*" *J.Neurobiol.* 56, 178-197
- 9. Loria, PM, Duke, A, Rand, JB and **Hobert, O** (2003) "Two neuronal, nuclear-localized RNA-binding proteins involved in synaptic transmission" *Curr.Biol.* 13, 1317-1323 (featured in *Nat.Rev.Neurosci.*4, 781)
- 10. Chang, S, Johnston, RJ and **Hobert, O** (2003)" A transcriptional regulatory cascade that controls left/right asymmetry in chemosensory neurons of *C. elegans*" *Genes Dev.* 17, 2123-2137
- 11. Tsalik, EL, Niacaris, T, Wenick, AS, Pau, K, Avery L and **Hobert, O** (2003) "LIM homeobox gene-dependent expression of biogenic amine receptors in restricted regions of the *C. elegans* nervous system" *Dev.Biol.* 263, 81-102
- 12. Berry, KL, Bülow, HE, Hall, DH and **Hobert, O** (2003) " A *C.elegans* CLIC-like protein required for intracellular tube formation and maintenance " *Science* 302, 2134-2137(featured in *Science* 302, 2077-2078 and Faculty of 1000)
- 13. Johnston, RJ and **Hobert, O** (2003) "A microRNA controlling left/right neuronal asymmetry in *Caenorhabditis elegans*" *Nature* 426, 845-849 (featured in Mini-review in *Nature Neurosci.* 7, 100-102; *Nat.Rev.Neurosci.* 5, 79; Faculty of 1000)
- 14. Bülow, HE and **Hobert, O** (2004) "Differential sulfations and epimerization define heparan sulfate specificity in nervous system development" **Neuron** 41(5), 723-736 (Mini-reviewed in *Neuron* 46, 169-72)
- 15. Loria, PM, Hodgkin J and **Hobert, O** (2004) "A conserved postsynaptic transmembrane protein affecting neuromuscular signaling in *C.elegans*" *J.Neurosci.* 24(9), 2191-2201 (recommended by Faculty of 1000)
- 16. Mehta, N, Loria, PM and Hobert, O (2004) "A genetic screen for neurite outgrowth mutants in C. elegans reveals a

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new function for the F-box ubiquitin ligase component LIN-23" Genetics 166(3), 1253-1267

- 17. Bülow, HE, Boulin, T and **Hobert, O** (2004) "Differential functions of the *C. elegans* FGF receptor in axon outgrowth and maintenance of axon position" *Neuron* 42, 367-374
- 18. Bigelow, H, Wenick, AS, Wong, A and **Hobert, O** (2004) "CisOrtho: A program pipeline for genome-wide identification of transcription factor target genes using phylogenetic footprinting" *BMC Bioinformatics* 5, 27
- 19. Wenick, AS and **Hobert, O** (2004) "Genomic *cis*-regulatory architecture and *trans*-acting regulators of a single interneuron-specific gene battery in *C. elegans*" *Dev. Cell* 6, 757-770 (featured in Mol.Cell 14, 693-4)
- 20. Deng, X, Hofmann, ER, Villanueva, A, **Hobert, O**, Capodieci, P, Veach, DR, Yin, X, Campodonico, L, Glekas, A, Cordon-Cardo, C, Clarkson, B, Bornmann, WG, Fuks, Z, Hengartner, MO and Kolesnick, R(2004)"Caenorhabditis elegans ABL-1 antagonizes p53-mediated germline apoptosis after ionizing radiation" *Nat. Genet.* 36, 906-912
- 21. Chang, S, Johnston, RJ, Frøkjær-Jensen, C, Lockery, S and **Hobert, O** (2004) "MicroRNAs act sequentially and asymetrically to control chemosensory laterality in the nematode" *Nature* 430, 785-789 (recommended by Faculty of 1000)
- 22. Remy, JJ and **Hobert, O** (2005) "An interneuronal chemoreceptor required for olfactory imprinting in *C.elegans*" **Science** 309, 787-790 (highlighted in *Nature* 436, 607 and Faculty of 1000)
- 23. Johnston, RJ, Chang, S, Etchberger, JF, Ortiz, CO and **Hobert, O** (2005) "MicroRNAs acting in a double-negative feedback loop to control a neuronal cell fate decision" *Proc.Natl.Acad.Sci.USA*, 102, 12449-12454 (Featured in "*This Week in PNAS*")
- 24. Johnston, RJ and **Hobert, O** (2005) "A novel *C. elegans* zinc finger transcription factor, *Isy-2*, required for the cell-type specific expression of the *Isy-6* microRNA" *Development* 132, 5451-5460
- 25. Ortiz, CO, Etchberger, JF, Posy, SL, Frøkjær-Jensen, C, Lockery, S, Honig B, and **Hobert, O** (2006) "Searching for neuronal left/right asymmetry: Genomewide analysis of nematode receptor-type guanylyl cyclases", *Genetics* 173, 131-149
- 26. Faumont, S, Boulin, T, **Hobert, O**, and Lockery, S (2006) "Developmental regulation of whole-cell capacitance and membrane current in identified interneurons in *C. elegans*", *J.Neurophys.* 95, 3665-3673
- 27. Berry, KL and **Hobert, O** (2006) "Mapping functional domains of chloride intracelllular channel (CLIC) proteins *in vivo*", *J.Mol.Biol.* 359, 1316-1333
- 28. Benard, CY, Boyanov, A, Hall, DH and **Hobert, O** (2006) "DIG-1, a novel giant protein non-autonomously mediates maintenance of nervous system architecture", *Development* 133, 3329-3340
- 29. Johnston, RJ, Copeland, JW, Fasnacht M, Etchberger, JF, Liu J, Honig B and **Hobert, O** (2006) "An unusual Zn finger/FH2 domain protein controls a left/right asymmetric neuronal fate decision in *C.elegans*", *Development* 133, 3317-3328
- 30. Didiano, D and **Hobert, O** (2006) "Perfect seed pairing is not a generally reliable predictor for miRNA-target interactions", *Nature Struct. Mol. Biol.* 13(9), 849-851 (featured in "News and Views" and in Research Highlight in *Nature* 442, p.960 and in Faculty of 1000)
- 31. Boulin, T, Pocock R and **Hobert, O** (2006) "A novel Ephrin receptor-interacting Ig/FnIII domain protein provides *C.elegans* motoneurons with midline guidepost function", *Curr.Biol.* 16, 1871-1883 (featured in *Dispatches* in *Curr.Biol.* 16, r954-955)
- 32. Poole, R and **Hobert, O** (2006) "Early embryonic programming of neuronal left/right asymmetry in *C. elegans*", *Curr. Biol.* 16, 2279-92 (featured in Dispatches Mini-Review in Curr.Biol. 16, r1039-1041, in Nat. Genetics 39, 15 and in Faculty of 1000)
- 33. Etchberger, JF, Lorch, A, Sleumer, MC, Zapf, R, Jones, SJ, Marra, MA, Holt, RA, Moerman DG and **Hobert, O** (2007) "The molecular signature and cis-regulatory architecture of a *C. elegans* gustatory neuron' *Genes Dev* 21, 1653-1674
- 34. Sarin, S, O'Meara, MM, Flowers, EB, Antonio, C, Poole, R, Didiano, D, Johnston, RJ, Chang, S, Narula, S and **Hobert, O** (2007) "Genetic screens for *C. elegans* mutants defective in left/right asymmetric neuronal fate specification" *Genetics* 176, 2109-2130
- 35. Pocock, R, Benard, CY, Shapiro L and **Hobert, O** (2008) "Functional dissection of the *C.elegans* cell adhesion molecule SAX-7, a homologue of human L1", *Mol. Cell. Neurosci.* 37, 56-68
- 36. Etchberger, JF and **Hobert, O** (2008) "Vector-free DNA constructs improve transgene expression in *C. elegans*",

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- 38. Pocock, R and **Hobert, O** (2008) "Oxygen levels affect axon guidance and neuronal migration in *Caenorhabditis elegans*", *Nature Neurosci.* 11, 894-900 (featured in *News and Views* p.859-861)
- 39. Sarin, S, Prabhu, S, O'Meara, MM, Pe'er, I\*, and **Hobert, O** \*(2008) "*Caenorhabditis elegans* mutant allele identification by whole-genome sequencing", *Nature Methods* 5 (10), 865-867 (featured in *News and Views* p. 863-p.864 and in Faculty of 1000)(\* joint corresponding authors)
- 40. Shen, Y, Sarin, S, Liu, Y, **Hobert, O** \*, Pe'er I \* (2008) "Comparing platforms for *C. elegans* mutant identification using high-throughput whole-genome sequencing", *PLoS ONE* 3(12):e4012 (\* joint corresponding authors)
- 41. Doitsidou, M, Flames, N, Lee, AC, Boyanov A and **Hobert, O** (2008) "Automated screening for mutants affecting dopaminergic neuron specification in *C. elegans*", *Nature Methods* 5 (10), 869-872 (featured in *News and Views* p.863-864 and in Faculty of 1000)
- 42. Bülow, H, Tjoe, N, Townley, RA, Didiano, D, van Kuppevelt, TH and **Hobert, O** (2008) "Extracellular sugar modifications provide instructive and cell-specific information for axon guidance choices", *Curr. Biol.* 18(24):1978-1985 (recommended by Faculty of 1000)
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- 44. Tung JJ, **Hobert, O**, Berryman M, Kitajewski J (2009) " Chloride intracellular channel 4 is involved in endothelial proliferation and morphogenesis in vitro." *Angiogenesis* 12(3):209-20.
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