

Curriculum vitae

Date Prepared: September 27, 2021

Name: Genevieve Konopka

Education

| Year | Degree (Honors) | Field of Study (Thesis advisor for PhDs) | Institution |
|------|-----------------|--|--------------------|
| 1997 | BS | Brain and Cognitive Sciences | M.I.T. |
| 1997 | BS | Biology | M.I.T. |
| 2004 | PhD | Neurobiology (Azad Bonni) | Harvard University |

Postdoctoral Training

| Year(s) | Titles | Specialty/Discipline (Lab PI for postdoc research) | Institution |
|-----------|---------|--|------------------------------|
| 2004-2006 | Postdoc | Development (Stephen Duncan) | Medical College of Wisconsin |
| 2006-2011 | Postdoc | Neurogenetics (Daniel Geschwind) | UCLA |

Honors and Awards

| Year | Name of Honor/Award | Awarding Organization |
|-----------|--|--------------------------------|
| 1995-1997 | James R. Killian, Jr. Scholarship | M.I.T. |
| 1997 | The Writing and Humanistic Studies Prize for Scientific and Engineering Writing, honorable mention | M.I.T. |
| 2005-2006 | NRSA Postdoctoral Fellowship | NIH/NIDDK |
| 2007-2010 | A.P. Giannini Foundation Medical Research Fellowship | A.P. Giannini Foundation |
| 2008 | Brain Research Institute/Semel Institute Postdoctoral Fellows Travel Award | Brain Research Institute, UCLA |
| 2008 | Fine Science Postdoctoral Scholars Travel Award | Brain Research Institute, UCLA |

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| 2008-2010 | NARSAD Young Investigator Award | NARSAD |
| 2009 | Keystone Symposia Scholarship | Keystone Symposia |
| 2009 | Cold Spring Harbor Laboratories Course Scholarship | Cold Spring Harbor Laboratories |
| 2009-2013 | NIH Pediatric Loan Repayment Program Award | NIH/NICHD |
| 2010 | Aegean Conferences Travel Award | Aegean Conferences |
| 2010 | Brain Research Institute Fine Science Tools Postdoctoral Scholars Travel Award | Brain Research Institute, UCLA |
| 2010-2014 | NIH Pathway to Independence Award | NIH/NIMH |
| 2011-present | Jon Heighten Scholar in Autism Research | UT Southwestern Medical Center |
| 2012 | Daniel X. Freedman Award, honorable mention | Brain & Behavior Research Foundation (formerly NARSAD) |
| 2012 | 2013 Rosalind Franklin Young Investigator Award for research in mammalian genetics, runner-up | Genetics Society of America and the American Society for Human Genetics |
| 2013 | Young Investigator Award | International Society for Autism Research (INSAR) |
| 2013 | Basil O'Connor Starter Scholar Research Award | March of Dimes |
| 2013-2015 | Kavli Frontiers of Science Fellow; organizing committee (2014) and Chair (2015) | National Academy of Sciences |
| 2016-2024 | Understanding Human Cognition Scholar Award | The James S. McDonnell Foundation |
| 2016-2019 | International Exchange Scheme Award | The Royal Society |
| 2019 | LEAD: Leadership Emerging in Academic Departments | Graduate, UT Southwestern Medical Center |

Faculty Academic Appointments

| Year(s) | Academic Title | Department | Academic Institution |
|-----------|---------------------|--------------|----------------------|
| 2011-2017 | Assistant Professor | Neuroscience | UT Southwestern |

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| 2017-present | Associate Professor (with tenure) | Neuroscience | UT Southwestern |
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Major Administrative/Leadership Positions

| Year(s) | Position Title | Institution |
|--------------|--|-----------------|
| 2018 | Co-Chair of the Neuroscience Graduate Program | UT Southwestern |
| 2019-present | Chair of the Neuroscience Graduate Program | UT Southwestern |
| 2018-present | Director of the Neuroinformatics Core at the Peter O'Donnell Brain Institute | UT Southwestern |

Committee Service

| Year(s) | Name of Committee | Institution/Organization |
|-------------------------------|--|------------------------------|
| <u>UTSW</u> | | |
| 2011-2012; 2018-2019 | Neuroscience Faculty Search Committee | UT Southwestern |
| 2012-2014 | Neuroscience Faculty Search Committee, Chair | UT Southwestern |
| 2012-2017 | Graduate School Admissions Committee | UT Southwestern |
| 2016-2017 | Neuroscience Seminar Series Committee | UT Southwestern |
| 2017-2018 | Small Animal Behavior Core Steering Committee | UT Southwestern |
| 2018-present | Sleep and Circadian Rhythm Training Program (T32) Operations Committee | UT Southwestern |
| 2021-present | MSTP Steering Committee | UT Southwestern |
| <u>National/International</u> | | |
| 2013-2014 | Kavli Frontiers of Science U.S. Organizing Committee | National Academy of Sciences |
| 2014-2015 | Kavli Frontiers of Science U.S. Organizing Committee, Chair | National Academy of Sciences |

Professional Societies

| Dates | Society Name, member |
|--------------|---|
| 1997-present | Society for Neuroscience, member |
| 2011-present | UCSD/Salk Center for Academic Research and Training in Anthropogeny (CARTA), member |
| 2012-present | International Society for Autism Research, member |
| | Committees |
| 2019-2022 | Public Education and Communication Committee, Society for Neuroscience |

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| 2019, 2020 | World Congress of Psychiatric Genetics Program Committee, International Society of Psychiatric Genetics |
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Grant Review Activities

| Year(s) | Name of Review Committee | Organization |
|------------------------------|--|--|
| 2011 | External referee | The Netherlands Organisation for Health Research and Development (ZonMw) |
| 2012 | External referee | Austrian Science Fund |
| 2013 | External referee | Foundation for Polish Science |
| 2013 | External referee | Arizona Institute for Mental Health Research |
| 2014 | External referee | German-Israeli Foundation for Scientific Research and Development |
| 2015, 2017, 2019, 2021 | Biological Anthropology Program, ad hoc reviewer | National Science Foundation (NSF) |
| 2016 | NIH/NIGMS Legacy Community-Wide Scientific Resources Review (R24; ZGM1 TRN-0 (LR)), ad hoc reviewer | NIH/NIGMS |
| 2016 | External referee | Israeli Science Foundation |
| 2016 | External referee | Foundation for Alzheimer Research (SAO-FRA); Belgium |
| 2016, 2020 | External referee | German Research Foundation |
| 2017 | NeuroNex Panel | National Science Foundation (NSF) |
| 2017 | External referee | Allen Discovery Center, The Paul G. Allen Frontiers Group |
| 2017, 2018, 2019, 2020, 2021 | External referee | Fondazione Cariplo; Italy |
| 2018 | External referee | Foundation for Prader-Willi Syndrome |
| 2018 | NIH/NIGMS Collaborative Program Grant for Multidisciplinary Teams (RM1; ZRG1 BCMB-C(40) P), mail-in reviewer | NIH/NIGMS |
| 2018 | External referee | Cognitive Sciences Call 2018; Vienna Science and Technology Fund |
| 2018, 2019 (2X), 2020 | NIH/NIDCD Voice-Speech-Language (VSL) Fellowship Panel | NIH/NIDCD |
| 2019 | NIH Transformative Research Award Review Panel, mail-in reviewer | NIH/OD |

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| 2019 | SFARI Research Awards, mail-in reviewer | Simons Foundation for Autism Research (SFARI) |
| 2019, 2020 | MRC Research Grant, Neurosciences & Mental Health, mail-in reviewer | Medical Research Council (MRC), UK |
| 2019 | BRAIN Initiative Panel; ZHM1 ERB-M BICCN | NIH/NIMH |
| 2019-2020 | SFARI Standing Review Committee | Simons Foundation for Autism Research (SFARI) |
| 2019 | NIH Molecular, Cellular, and Developmental Neuroscience IRG, ZRG1 MDCN | NIH |
| 2019, 2020, 2021 | SFARI Bridge to Independence Review Panel | Simons Foundation for Autism Research (SFARI) |
| 2019 | External PhD thesis examiner | The University of Queensland, Australia |
| 2019 | 2019 PsychENCODE review panel | NIH/NIMH |
| 2020 | Postdoctoral Fellowship review panel | Autism Science Foundation |
| 2020 | External referee | PSI Foundation, Ontario, Canada |
| 2020 | NIH Neurodevelopment, Synaptic Plasticity, and Neurodegeneration panel (F03A) | NIH |
| 2020 | Single Cell Opioid Responses in the Context of HIV (SCORCH) Program Expansion (ZDA1 YXF-U (09) R) | NIH/NIDA |
| 2021 | Molecular Neurogenetics Study Section (MNG) | NIH |
| 2021 | Early Career Fellowship (ECF) Programme | Fondazione Human Technopole |
| 2021 | External grant reviewer | Templeton World Charity Foundation |

Editorial Activities

| Year(s) | Journal Name |
|-------------------------|--------------------------------|
| <u>Associate Editor</u> | |
| 2020-present | Autism Research |
| <u>Editorial Board</u> | |
| 2020-present | eLife |
| 2011-present | Frontiers in Neurogenomics |
| 2012-present | F1000 Research |
| 2015-2018 | Scientific Reports |
| 2015-present | Frontiers in Language Sciences |

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|------------------------|--|
| 2016-present | Network Neuroscience |
| 2019-present | Neuroscience Next |
| 2017-2019 | PLOS Biology |
| <u>Ad Hoc Reviewer</u> | |
| 2013-present | Acta Neuropsychiatrica |
| 2012-present | American Journal of Medical Genetics Part B: Neuropsychiatric Genetics |
| 2018-present | American Journal of Psychiatry |
| 2012-present | Autism Open Access |
| 2020-present | Autism Research |
| 2015-present | Behavioral Brain Research |
| 2012-present | BioEssays |
| 2012-present | Biological Psychiatry |
| 2014-present | BMC Bioinformatics |
| 2010-present | BMC Evolutionary Biology |
| 2013-present | BMC Neurology |
| 2013-present | Brain, Behavior and Evolution |
| 2018-present | Brain Imaging and Behavior |
| 2020-present | Cell |
| 2014-present | Cell Reports |
| 2018-present | Cell Systems |
| 2011-present | Cellular and Molecular Neurobiology |
| 2010-present | Cerebral Cortex |
| 2012-present | Current Genomics |
| 2017-present | eLife |
| 2018-present | EMBO Reports |
| 2014-present | Frontiers in Human Neuroscience |
| 2015-present | Frontiers in Integrative Neuroscience |
| 2015-present | Frontiers in Neurology |
| 2021-present | Frontiers in Neuroscience |
| 2014-present | Frontiers in Psychology |
| 2016-present | Genetics and Molecular Biology |
| 2016-present | Genome Biology and Evolution |
| 2015-present | Genes, Brain and Behavior |
| 2016-present | Genome Medicine |
| 2010-present | Genome Research |
| 2021-present | Hippocampus |
| 2016-present | Human Brain Mapping |
| 2018-present | Human Molecular Genetics |
| 2017-present | Human Mutation |

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| 2020-present | Journal of Biological Rhythms |
| 2015-present | Journal of Experimental Medicine |
| 2018-present | Journal of Human Evolution |
| 2017-present | Journal of Language Evolution |
| 2012-present | Journal of Neuroscience |
| 2013-present | Journal of Neuroscience Research |
| 2013-present | Language Sciences |
| 2013-present | Molecular Autism |
| 2013-present | Molecular Biology and Evolution |
| 2015-present | Molecular Cytogenetics |
| 2014-present | Molecular Psychiatry |
| 2019-present | Nature |
| 2012-present | Nature Communications |
| 2012-present | Nature Genetics |
| 2016-present | Nature Neuroscience |
| 2018-present | Nature Reviews Genetics |
| 2017-present | Nature Reviews Neuroscience |
| 2019-present | Neurobiology of Language |
| 2013-present | Neuron |
| 2015-present | Neuropsychopharmacology |
| 2015-present | Neuroscience |
| 2014-present | Neuroscience Letters |
| 2014-present | PLOS Biology (also guest academic editor) |
| 2014-present | PLOS Computational Biology |
| 2014-present | PLOS Genetics |
| 2014-present | PLOS ONE |
| 2017-present | PNAS (also guest editor) |
| 2019-present | Progress in Neuropsychopharmacology & Biological Psychiatry |
| 2019-present | Science |
| 2017-present | Science Signaling |
| 2019-present | Sleep Medicine Reviews |
| 2020-present | Translational Psychiatry |
| 2013-present | WIREs Cognitive Science |

Grant Support

| | |
|----------------|---|
| <u>Present</u> | NIH R01HG011641 |
| | Comparative epigenomics of primate brains |
| | Principal Investigator (MPI with Soojin Yi and Chet Sherwood) |
| | Annual amount: \$68,319 |

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|--|---|
| | Total amount of award: \$1,875,420 09/17/21-06/30/25 |
| | |
| | NIH R01MH126481 |
| | Foxp-regulated signaling pathways in brain development and behavior |
| | Principal Investigator |
| | Annual amount: \$396,677 |
| | Total amount of award: \$1,923,884 06/15/21-05/31/26 |
| | |
| | NIH UF1NS115821 |
| | From ion channels to graph theory in sensorimotor learning |
| | Principal Investigator (MPI with Daniel Margoliash, Todd Roberts, Jason Maclean, Henry Abarbanel) |
| | Annual amount: \$289,800 |
| | Total amount of award: \$1,033,263 05/01/20-06/30/23 |
| | |
| | HHMI Gilliam Fellowship for Advanced Study |
| | Determining the cell type-specific roles of autism associated gene FOXP1 in cortical development |
| | Mentor to Ana Ortiz |
| | Annual amount: \$54,000 |
| | Total amount of award: \$162,000 09/01/20-08/31/23 |
| | |
| | NIH F31NS117030 |
| | Functional investigations of Foxp1 and Foxp2 in Drd1 spiny projection neurons |
| | Mentor to Newaz Ahmed |
| | Annual amount: \$34,056 |
| | Total amount of award: \$102,168 09/01/20-08/31/23 |
| | |
| | NIH F32NS112557 |
| | Cell-type specific transcriptomes associated with vocal learning |
| | Co-mentor to Devin Merullo |
| | Annual amount: \$61,226 |
| | Total amount of award: \$178,666 08/12/19-07/31/22 |
| | |
| | The Welch Foundation I-1997-20190330 |
| | Chemical regulation of human brain cell type specification |
| | Principal Investigator |
| | Annual amount: \$65,000 |
| | Total amount of award: \$195,000 06/01/19-05/31/22 |

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| | Simons Foundation for Autism Research Award 573689 |
| | Foxp1-regulated cell-type specific contributions to striatal development |
| | Principal Investigator (MPI with Jay Gibson) |
| | Annual amount: NCE (\$269,000) |
| | Total amount of award: \$807,851 09/01/18-08/31/22 |
| | |
| | James S. McDonnell Foundation Understanding Human Cognition Scholar Award 220020467 |
| | Elucidating the molecular evolution of human cognition |
| | Principal Investigator |
| | Annual amount: NCE (\$150,000) |
| | Total amount of award: \$600,000 09/01/16-08/31/24 |
| | |
| | NIH R01 DC014702 |
| | Functional dissection of mammalian vocal communication |
| | Principal Investigator |
| | Annual amount: NCE |
| | Total amount of award: \$1,062,500 12/01/15-11/30/21 |
| | |
| <u>Past</u> | NIH R21 NS106447 |
| | Identification of human genomic signatures of episodic memory |
| | Principal Investigator (MPI with Bradley Lega) |
| | Annual amount: \$150,000 |
| | Total amount of award: \$275,000 09/20/18-07/31/21 |
| | |
| | NIH R01 MH102603 |
| | The role of Foxp1-regulated signaling pathways in brain development and behavior |
| | Principal Investigator |
| | Annual amount: \$250,000 |
| | Total amount of award: \$1,250,000 09/01/15-05/31/21 |
| | |
| | NIH F31MH123140 |
| | Determining the cell type specific roles of Foxp1 in cortical development |
| | Mentor to Ana Ortiz |
| | Annual amount: \$34,056 |
| | Total amount of award: \$102,168 06/01/20-05/31/23 |
| | |
| | NIH R01 MH103517 |

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| | Human specific brain DNA methylation and neuropsychiatric diseases |
| | Co-Investigator (MPI Soojin Yi and Todd Preuss) |
| | Annual amount: \$125,745 |
| | Total subcontract: \$461,878 04/01/15-01/31/20 |
| | |
| | The Royal Society International Exchange Scheme |
| | Novel approaches to study neurodevelopmental disorders |
| | Principal Investigator (MPI with Esther Becker) |
| | Total amount of award: \$13,460 12/01/16-11/30/19 |
| | |
| | UT Southwestern Center for Translational Medicine, Swim with the Sharks, A Team Science Pilot Grant Competition TPP-ST 2017-002 |
| | Electrophysiological studies of cognition in neurosurgical patients |
| | Principal Investigator (MPI with Bradley Lega) |
| | Annual amount and date: \$25,000 09/10/18-09/09/19 |
| | |
| | HCA-A-1704-01747 Chan Zuckerberg Initiative |
| | Single-cell RNA-seq analysis of human brain tissue: a comparison of tissue acquisition, fluidics platforms, and post-translational gene expression regulation |
| | Principal Investigator |
| | Annual amount: \$66,000 |
| | Total amount of award: \$132,813 09/01/17-08/31/19 |
| | |
| | NIH R21 DC016340 |
| | Genes and behavior: reversible knockdown of FoxP2 in vocal learning |
| | Principal Investigator (MPI with Todd Roberts) |
| | Annual amount: \$100,000 |
| | Total amount of award: \$200,000 07/10/17-06/30/19 |
| | |
| | Simons Foundation for Autism Research Pilot Award 401220 |
| | Foxp1 orchestration of neuronal function in the striatum |
| | Principal Investigator (MPI with Jay Gibson) |
| | Annual amount: \$123,000 |
| | Total amount of award: \$246,285 09/01/16-08/31/18 |
| | |
| | NIH R21 MH107672 |
| | Identification of human-relevant CLOCK molecular signaling pathways |
| | Principal Investigator |
| | Annual amount: \$150,000 |

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| | Total amount of award: \$275,000 05/18/15-02/28/18 |
| | |
| | Chilton Foundation |
| | Neuroscience Equipment Purchase |
| | Principal Investigator |
| | Total amount of award: \$100,000 09/01/16-08/31/17 |
| | |
| | NIH F30MH105158 |
| | Neocortical regulation of circadian rhythms |
| | Mentor to Miles Fontenot |
| | Annual amount: \$33,000 |
| | Total amount of award: \$275,000 03/01/15-02/28/19 |
| | |
| | UT BRAIN seed grant |
| | Comparing intracranial EEG, fMRI, and gene expression profiles in humans |
| | Principal Investigator (MPI with Bradley Lega) |
| | Annual amount: \$100,000 |
| | Total amount of award: \$100,000 09/01/15-08/31/17 |
| | |
| | NSF (IOS-1451034) |
| | BRAIN EAGER: Tagging the genetic, synaptic, and network origins of learning from social experiences |
| | Principal Investigator (MPI with Todd Roberts, Julian Meeks, and Tae-Kyung Kim) |
| | Annual amount: \$94,000 |
| | Total amount of award: \$188,680 09/01/14-08/31/17 |
| | |
| | UTSW Friends of the Alzheimer's Disease Center |
| | Identification of alternative splicing networks relevant to Alzheimer's disease |
| | Principal Investigator |
| | Total amount of award: \$65,000 05/01/15-12/01/16 |
| | |
| | NSF Graduate Research Fellowship |
| | Investigating the evolutionary advantages of human-specific amino acid substitutions in the transcription factor FOXP2 |
| | Mentor to Daniel Araujo |
| | Annual amount: \$32,000 |
| | Total amount of award: \$96,000 09/01/13-08/31/16 |
| | |
| | Autism Science Foundation Predoctoral Fellowship |

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| | Genetics underlying brain connectivity in ASD |
| | Mentor to Marissa Co |
| | Total amount of award: \$25,000 06/01/15-05/31/16 |
| | |
| | March of Dimes Basil O'Connor Starter Scholar Research Award |
| | Characterization of the role of FOXP1 in the developing brain and autism-related signaling and behaviors |
| | Principal Investigator |
| | Annual amount: \$68,000 |
| | Total amount of award: \$136,364 02/01/13-07/31/15 |
| | |
| | NIH R00MH090238 |
| | FOXP2-regulated signaling pathways critical for higher cognitive functions |
| | Principal Investigator |
| | Annual amount: \$200,000 |
| | Total amount of award: \$607,120 04/01/11-03/31/15 |
| | |
| | Once Upon a Time Foundation |
| | Identification of FOXP2 function in Purkinje neurons: implications for motor function and ataxia |
| | Principal Investigator |
| | Total amount of award: \$125,000 08/01/13-07/31/14 |
| | |
| | Commercial Real Estate Women Dallas (CREW) |
| | The genetics of sex-specific behaviors in autism |
| | Principal Investigator |
| | Total amount of award: \$44,803 08/01/12-07/31/13 |
| | |
| | NIH R00MH090238-S1 |
| | FOXP2-regulated signaling pathways critical for higher cognitive functions; supplement for the support of Daniel Araujo |
| | Principal Investigator |
| | Total amount of award: \$44,058 6/1/12-8/31/13 |

Teaching Activities

| Year(s) | Activity |
|--|--|
| <u>Medical and graduate school didactic and small group teaching</u> | |
| 2013, 2015, 2017, 2019, 2021 | Lecturer, Heritable Neurological Diseases of Mice and Men, "Role of FOXP2 in autism and schizophrenia" |

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| 2013-2018 | Lecturer, Fundamentals of Neuroscience, “Computational Analysis of Transcriptional Networks in Neuroscience” |
| 2013 | Discussion group leader, Core Course Neuroscience Thread |
| 2014, 2016, 2017 (2X), 2018 | Discussion group leader, Responsible Conduct of Research |
| 2015-2016 | Faculty moderator, Cognitive Neuroscience Journal Club |
| 2016, 2017, 2018 | Research proposal referee, Fundamentals of Neuroscience |
| 2017-2021 | Lecturer, Neuroscience Core Course, “Transcriptional Networks” |
| 2018 | Faculty moderator, Neurogenomics Journal Club |
| 2019 | Faculty moderator, Neuroepigenetics in brain development and function Journal Club |
| 2020 | Lecturer, Frontiers in Medicine—Behavioral Health and Neuromedicine, for medical students, “Genes and Memory: A Basic Science Perspective” |
| 2021 | Faculty moderator, Single cell neurogenomics Journal Club |
| <u>Dissertation committees</u> | |
| 2012-2016 | Bradford Casey, Program in Neuroscience |
| 2013-2016 | Kasey Rajkovich, Program in Neuroscience, Chair |
| 2012-2017 | Clark Rosensweig, Program in Neuroscience |
| 2015-2017 | Christine Ochoa, Program in Neuroscience, Chair |
| 2018-2021 | Wen Mai Wong, Program in Neuroscience |
| 2019-2021 | Patricia Horvath, Program in Neuroscience |
| 2018-present | Thomas Dunham, Program in Neuroscience |
| 2018-present | Amy Zwierzchowski-Zarate, Program in Neuroscience, Chair |
| 2018-present | Islam Oguz Tuncay, Program in Neuroscience |
| 2019-present | Robert Altamirano, Program in Neuroscience |
| 2019-present | Richard Rueda, Program in Neuroscience, Chair |
| 2019-present | Jennifer Putman, Program in Neuroscience |
| 2019-present | Lauretta El Hayek, Program in Genetics, Development and Disease |
| 2020-present | Jennifer Gibson, Program in Neuroscience |
| 2021-present | Hyeonsoo Jeong, Program in Bioinformatics, Georgia Tech |
| 2021-present | Lupita Rios, Program in Neuroscience |
| 2021-present | Carlos Orozco, Program in Neuroscience |
| 2021-present | Daniela Barbosa, Program in Neuroscience, Chair |
| 2021-present | Paula Warren, Program in Neuroscience |
| 2021-present | Yoheilly Velazquez Gonzalez, Program in Neuroscience |
| <u>Qualifying examination committees</u> | |
| 2012 | Julia Mattson, Program in Neuroscience |
| 2012 | Svetlana Lvovskaya, Program in Neuroscience, Chair |
| 2013 | Hillary Cansler, Program in Neuroscience |

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| 2014 | Bo Ci, Program in Neuroscience, Chair |
| 2016 | Xingjian Zhang, Program in Neuroscience |
| 2017 | Morgan Merriman, Program in Neuroscience |
| 2018 | Islam Oguz Tuncay, Program in Neuroscience |
| 2019 | Lance Heady, Program in Neuroscience |
| 2021 | Daniela Barbosa, Program in Neuroscience, Chair |
| <u>Committees concerned with medical and graduate student education</u> | |
| 2012-2017 | Graduate School Admissions Committee |
| <u>Graduate student rotations</u> | |
| 2011 | Stephanie Lepp Hickey |
| 2012 | Daniel Araujo |
| 2012 | Christine Ochoa |
| 2013 | Miles Fontenot, MSTP |
| 2013 | Ashley Anderson |
| 2013 | Marissa Co |
| 2016 | Aarin Jones |
| 2017 | Emily Seonhye Park |
| 2017 | Newaz Ahmed |
| 2017 | Ana Ortiz |
| 2018 | Jennifer Gibson |
| 2018 | Islam Oguz Tuncay |
| 2018 | Yoheilly Velazquez Gonzalez |
| 2018 | Emre Caglayan |
| 2018 | Lauretta El Hayek |
| 2019 | Haley Moore, MSTP |
| 2019 | Carlos Orozco |
| 2019 | Lupita Rios |
| 2019 | Gulhumay Gardashova |
| 2021 | Andrea Boitnott |
| 2021 | Rachael Vollmer |
| 2021 | Miranda Jankovic, MSTP |
| <u>Medical student rotations</u> | |
| | None |
| <u>Graduate and medical student trainees</u> | |
| 2011-2018 | Stephanie Lepp Hickey; currently postdoc at Michigan State University |
| 2012-2017 | Daniel Araujo; currently Project Manager & Scientific Editor at La Jolla Institute |
| 2013-2017 | Miles Fontenot; currently resident at Univ of Washington |
| 2013-2019 | Marissa Co; currently postdoc at OHSU |
| 2013-2019 | Ashley Anderson; currently postdoc at Baylor College of Medicine |

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| 2016-present | Emily Seonhye Park |
| 2017-present | Newaz Ahmed |
| 2018-present | Ana Ortiz |
| 2019-present | Emre Caglayan |
| 2020-present | Haley Moore, MSTP |
| 2021-present | Rachael Vollmer |
| <u>Postgraduate medical education (graduate & continuing medical education)</u> | |
| | None |
| <u>Postdoctoral trainees</u> | |
| 2011-2016 | Guang-Zhong Wang, Ph.D.; currently Principal Investigator at CAS-MPG PICB in Shanghai, China |
| 2012-2013 | J. Michael Bowers, Ph.D. (deceased); last position Assistant Professor at Virginia Polytechnic Institute |
| 2012-2017 | Noriyoshi Usui, Ph.D.; currently Assistant Professor at Osaka University, Japan |
| 2014-2020 | Stefano Berto, Ph.D.; currently Assistant Professor at Medical University of South Carolina |
| 2015-2017 | Kazuya Toriumi, Ph.D.; currently Assistant Professor at Tokyo Metropolitan Institute of Medical Science, Japan |
| 2016-present | Ashwinikumar Kulkarni, Ph.D. |
| 2017-2020 | Fatma Ayhan, Ph.D.; currently Scientist at Neurocrine Biosciences |
| 2017-present | Yuxiang Liu, Ph.D. |
| 2018-2019 | Stephanie Lepp Hickey, Ph.D.; currently postdoc at Michigan State University |
| 2018-present | Devin Merullo, Ph.D.; co-mentored with Dr. Todd Roberts |
| 2018-present | Nitin Khandelwal, Ph.D.; co-mentored with Dr. Jay Gibson |
| 2019-2020 | Ashley Anderson, Ph.D.; currently postdoc at Baylor College of Medicine |

Invited Lectures

| Year(s) | Title | Location |
|----------------------|---|--|
| <u>International</u> | | |
| 2009 | Comparative gene expression in primate brain using next generation sequencing | Functional Genomics and Systems Biology Workshop, Wellcome Trust, Cambridge, UK |
| 2010 | Comparative gene expression in primate brain using next generation sequencing | The 8 th Pathways, Networks and Systems Program on Network Interactions, Rhodes, Greece |
| 2010 | Systematic exploration of transcriptional networks: putting the function in functional genomics | RIKEN Brain Science Institute Summer Program on Network Interactions, Wako, Japan |
| 2013 | Decoding and modeling the functional genomics of cognitive disorders | <u>Keynote Lecture</u> : Cognomics Symposium, Radboud University Nijmegen, Netherlands |

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| | | Invited by Simon Fisher |
| 2014 | Decoding the molecular evolution of cognition | University of Barcelona, Department of Linguistics, Barcelona, Spain Invited by Cedric Boeckx |
| 2014 | Molecular networks and human cognition: correspondence among brain gene expression, neuronal function, and disease | Heidelberg University, Mannheim, Germany Invited by Maren Engelhardt |
| 2015 | Autism genomics: linking vocal communication and neuronal function | Australasian Society for Autism Research, Satellite Meeting, Frontiers in Neurodevelopmental Disorders, Sydney, Australia Invited by Irina Voineagu |
| 2015 | Molecular evolution of language and cognition | RIKEN BSI, Tokyo, Japan Invited by Kumi Kuroda |
| 2015 | Autism genomics: linking language and neuronal function | Japanese Society of Biological Psychiatry and Neuropsychopharmacology, Tokyo, Japan |
| 2015 | Molecular evolution of language and cognition | Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan Invited by Masanari Itokawa |
| 2016 | Autism genomics: linking vocal communication and neuronal function | 31 st Annual Mortimer D. Sackler Winter Conference in Developmental Psychobiology, Papagayo Bay, Costa Rica Invited by Pat Levitt (USC) |
| 2016 | Evolution of human-specific gene co-expression networks | 4 th Annual IIS Symposium, WIP-IIS, University of Tsukuba, Japan Invited by Masashi Yanagisawa |
| 2017 | Molecular networks of cognition | Molecular Biosystems, Region de Los Lagos, Chile Invited by John Hogenesch (Cincinnati Children's Hospital) |
| 2017 | Evolution of human-specific gene co-expression networks | Neurobiology of brain evolution, La Fondation des Treilles, France Invited by Franck Polleux (Columbia) |
| 2017 | Molecular networks of cognition | Oxford University, Department of Physiology, Anatomy and Genetics, Oxford, UK Invited by Esther Becker |
| 2018 | FOXP2 employs separable mechanisms to regulate human subplate gene expression | Company of Biologists Workshop on Development and Evolution of the Human Neocortex, West Sussex, UK |

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| | | Invited by Victor Borrell (Instituto de Neurociencias, Alicante, Spain) |
| 2018 | Evolution of human-specific gene co-expression networks | Society for Molecular Biology & Evolution annual meeting, Yokohama, Japan |
| 2018 | Molecular networks of cognition | 2 nd International IRCN Symposium, The University of Tokyo International Research Center for Neurointelligence, Tokyo, Japan Invited by Takao Hensch (Harvard) |
| 2019 | Molecular networks of cognition | Institute du Cerveau et de la Moelle (ICM), Paris, France Invited by Fabrizio De Vico Fallani |
| 2019 | The role of FOXP1/2 sumoylation in neurodevelopment | International Society for Neurochemistry-American Society for Neurochemistry, Montreal, Canada Invited by Simone Engelender (Technion-Israel Institute of Technology) |
| 2019 | Transcriptional networks specific to human cognition | EMBO Workshop: Network inference in biology and disease, Naples, Italy Invited by X. William Yang (UCLA) |
| 2020 | Cell type-specific transcriptional networks in cortical evolution and disease | Cerebral Cortical Development Meeting, Sicily, Italy (postponed) Invited by Zoltan Molnar and Arnold Kriegstein |
| 2020 | Cell type-specific transcriptional networks in brain evolution and disease | NeuroColloquium at Freie Universitat Berlin and NeuroCure Cluster of Excellence Berlin at the Charite, Berlin, Germany (postponed) Invited by Katja Nowick |
| 2020 | Cell type-specific transcriptional networks related to autism | World Wide Neuro Initiative online seminars. Invited by Gaia Novarino |
| 2021 | Cell type-specific transcriptional networks related to autism | Autism Research Webinars for Wiley Publications in China (virtual) Invited by David Amaral, UC Davis |
| 2021 | Riding brain “waves” to identify human memory genes | Cognomics Virtual Workshop Invited by Simon Fisher, Max Planck Institute for Psycholinguistics |

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| 2021 | Human-specific gene expression patterns in oligodendrocytes | XV European Meeting on Glial Cells in Health and Disease, Marseille, France (virtual) Invited by Carmen Falcone |
| 2021 | Cell type-specific transcriptional networks in brain evolution and disease | International Symposium on "Towards understanding individuality," Hokkaido, Japan (virtual) Invited by Noriko Osumi (Tohoku Univ School of Medicine) |
| 2021 | Cell type-specific transcriptional networks in brain evolution and disease | Neuroscience Online Seminars, Okinawa Institute of Science and Technology, Okinawa, Japan (September 30, 2021; virtual) <u>Student-invited</u> |
| 2022 | Cell type-specific transcriptional networks related to neurodevelopmental disorders | Wellcome Trust India Alliance - EMBO symposium on "Genes to cognition: Molecular and physiological basis of behavioural and cognitive deficits in neurodevelopmental disorders", Bangalore, India (postponed from April 19-22, 2021 to October 31-Nov 3, 2022) Invited by James Clement & Ted Abel |
| <u>National</u> | | |
| 2009 | Linking brain development to mental illness: identification of vulnerable pathways | NARSAD, New York Scientific Symposium, New York City, NY |
| 2009 | Identification of signaling pathways critical for higher cognitive functions | Oregon Health & Science University, Department of Behavioral Neuroscience, Portland, OR |
| 2009 | Identification of signaling pathways critical for higher cognitive functions | University of Texas Southwestern Medical Center, Department of Neuroscience, Dallas, TX |
| 2009 | Identification of signaling pathways critical for higher cognitive functions | Georgia Institute of Technology, School of Biology, Atlanta, GA |
| 2010 | Identification of signaling pathways critical for higher cognitive functions | Brown University, Department of Neuroscience, Providence, RI |
| 2010 | Identification of signaling pathways critical for higher cognitive functions | Massachusetts Institute of Technology, The McGovern Institute, Boston, MA |
| 2010 | Identification of signaling pathways critical for higher cognitive functions | University of Southern California, Zilkha Neurogenetic Institute, Los Angeles, CA |

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| 2010 | Identification of signaling pathways critical for higher cognitive functions | National Institute of Mental Health- DIRP, Bethesda, MD |
| 2010 | Identification of signaling pathways critical for higher cognitive functions | Paul L. Foster School of Medicine at Texas Tech University Health Science Center, Center of Excellence Neuroscience Seminar Series, El Paso, TX |
| 2010 | The genetics of autism: pathway discovery | Towards Defining the Pathophysiology of Autistic Behavior, Keystone Symposia, Snowbird, UT |
| 2010 | Modeling the functional genomics of autism using human neurons | Society for Neuroscience Annual Meeting, San Diego, CA |
| 2011 | Human-specific signaling networks | The Genetics of Humanness Symposium, Center for Academic Research and Training in Anthropogeny (CARTA), UC San Diego, San Diego, CA |
| 2012 | Transcriptional networks in language and cognition | Medical College of Wisconsin, Department of Cell Biology, Neurobiology, and Anatomy, Milwaukee, WI Invited by Michele Battle |
| 2012 | Transcriptional networks underlying language and cognition | SfN Satellite Meeting, Neural and Genetic Mechanisms of Vocal Communication, New Orleans, LA Invited by Stephen Shea (Cold Spring Harbor Laboratories) |
| 2012 | Gene by environmental interactions in autism | UT Austin, Department of Toxicology, Austin, TX Invited by Adron Harris |
| 2013 | Decoding the molecular evolution of cognition using comparative genomics | 25 th Karger Workshop in Evolutionary Neuroscience, San Diego, CA Invited by Chet Sherwood (George Washington University) |
| 2013 | What Makes Us Human workshop: Decoding the molecular evolution of human cognition | UCLA Institute for Society and Genetics; UCLA Center for Behavior, Evolution and Culture; UCLA Department of Human Genetics, Los Angeles, CA Invited by Jessica Alfaro |
| 2013 | Decoding the molecular evolution of cognition | American College of Neuropsychopharmacology Annual Meeting, Hollywood, FL |

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| | | Invited by Schahram Akbarian (Mt. Sinai) |
| 2014 | Transcriptional networks in autism | Institute for Genomics & Systems, University of Chicago, Chicago, IL Invited by Ravinesh Kumar |
| 2014 | Transcriptional and molecular networks in autism | Conte Center Special Seminar, Institute for Genomics & Systems Biology, University of Chicago, Chicago, IL Invited by Barry Aprison |
| 2014 | Molecular evolution of language and cognition | Neuroscience Seminar Series, University of Massachusetts Medical School, Worcester, MA Invited by Carlos Lois (now at CalTech) |
| 2015 | Genomics of brain evolution: linking language, neuronal function, and autism | Complex Trait Consortium Meeting, Oregon Health & Science University, Portland, OR Invited by Robert Hitzemann |
| 2017 | Molecular networks of cognition | Department of Neuroscience Seminar Series, Washington University School of Medicine Invited by Azad Bonni |
| 2017 | Molecular networks of cognition | University of Michigan Predoctoral Training Program in Genetics Seminar Series, Ann Arbor, MI <u>Student-invited</u> |
| 2017 | Linking genes to behavior using human brain gene expression data | Cognitive Neuroscience Annual Meeting, San Francisco, CA Invited by Evelina Fedorenko (MGH/Harvard) |
| 2017 | Altered human brain gene expression correspondence with resting state brain activity in autism | Society for Neuroscience Annual Meeting, Washington, DC |
| 2018 | Single-cell RNA-seq analysis of human brain tissue: a comparison of tissue acquisition, fluidics platforms, and post-transcriptional gene expression regulation | Pilot Projects for a Human Cell Atlas, Chan Zuckerberg Initiative investigator meeting, San Francisco, CA |
| 2018 | Cognitive genomics: decoding human brain transcriptional networks | Exploring Frontiers Symposium: What makes us human? Exploring the genetics of complex traits, Allen Institute, Seattle, WA |
| 2018 | Molecular networks of cognition | Medical University of South Carolina, Department of |

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| | | Neuroscience Seminar Series, Charleston, SC Invited by Chris Cowan |
| 2018 | Molecular networks of cognition | Vanderbilt University, Department of Biological Sciences Seminar Series, Nashville, TN Invited by Tony Capra |
| 2018 | Cell-type specific transcriptional networks regulating striatal development and behavior | Basal Ganglia Gordon Research Conference, Ventura, CA Invited by Mark Bevan (Northwestern Univ) |
| 2018 | Cell-type specific features of striatal development related to ASD | SFARI Investigator Meeting, New York City, NY |
| 2018 | Molecular networks of cognition | University of California, San Diego Neuroscience Graduate Program Seminar Series, San Diego, CA <u>Student-invited</u> |
| 2018 | Molecular networks of cognition | Iowa Neuroscience Institute Seminar Series, Iowa City, IA Invited by Ted Abel |
| 2018 | Cell-type specific features of striatal development related to ASD | Seaver Autism Center, Icahn School of Medicine at Mount Sinai, New York, NY Invited by Joe Buxbaum |
| 2018 | Cell-type specific transcriptional networks regulating striatal development and behavior | 2018 Molecular and Cellular Cognition Society Meeting, San Diego, CA Invited by Ted Abel (Univ of Iowa) |
| 2018 | Cell-type specific transcriptional networks regulating striatal development and behavior | NIMH Neurodevelopmental Symposium on Developmental Origins of Brain Circuit Architecture and Psychiatric Disorders, Bethesda, MD Invited by Armin Raznahan |
| 2019 | Cell-type transcriptional programs regulating striatal projection neuron development | Mechanisms of Basal Ganglia Maturation: Insights into Health and Disease, SfN Minisymposium, Chicago, IL |
| 2019 | Cell-type specific transcriptional networks related to autism | Medical University of South Carolina, Department of Neuroscience Seminar Series, Charleston, SC Invited by Chris Cowan |

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| 2019 | Cell-type specific transcriptional networks related to autism | Neuroscience Seminar Series, Pennsylvania State University, University Park, PA Invited by Santhosh Girirajan |
| 2020 | Molecular networks of cognition | Princeton Neuroscience Institute, Princeton, NJ Invited by Catherine Pena |
| 2020 | Molecular networks of cognition | UT Austin, Neuroscience Seminar Series, Austin, TX Invited by Michael Mauk |
| 2020 | Foxp-regulated transcriptional networks related to cognition and disease | Neural Mechanisms of Acoustic Communication Gordon Research Conference, Sunday River, Maine (postponed) Invited by Sarah Woolley (McGill) and Michael Long (NYU) |
| 2020 | Cell-type specific transcriptional networks related to autism | Neural Development Gordon Research Conference, Newport, RI (postponed) Invited by Debra Silver (Duke) & Claude Desplan (NYU) |
| 2020 | Molecular networks of cognition | Washington University, Azad Bonni Symposium, St. Louis, MO (postponed) Invited by Paul Taghert |
| 2020 | Cell-type specific transcriptional networks related to cognition | UC Davis Perspectives in Neuroscience Series, UC Davis, Davis, CA (virtual) Invited by Alex Nord |
| 2021 | Molecular networks of cognition | Neuroscience Seminar Series, Baylor College of Medicine, Houston, TX (virtual) Invited by Xiaolong Jiang |
| 2021 | Current methods of human brain tissue prep for human brain census | NIH BRAIN Initiative Workshop: Tissue quality and pipeline for human brain census (virtual) Invited by Li-Huei Tsai (MIT), Ed Lien (Allen Institute), Dirk Keene (U of Wash) and NIH Staff |
| 2021 | Cell-type specific transcriptional networks related to cognition | UCLA Integrated Center for Neurogenetics Seminar Series, UCLA, Los Angeles, CA (virtual) Invited by Carlos Portera-Cailliau |

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| 2021 | Panel Discussant | International Society for Autism Research Annual Meeting, Special Interest Group: Autism Research with the Postmortem Human Brain (virtual) Invited by David Amaral and Cyndi Schumann |
| 2021 | Cell-type specific transcriptional networks related to cognition | Vanderbilt Brain Institute, Vanderbilt University, Nashville, TN (virtual) Invited by Lisa Monteggia |
| 2021 | Cell-type specific transcriptional networks related to autism | IDDRC Seminar Series, Children’s National Medical Center, Washington, DC (virtual) Invited by Joshua Corbin |
| 2021 | Cell-type specific transcriptional networks related to autism | Mini-Symposium on “Chromatin and Transcriptional Mechanisms in Human Stem Cell Models of Neurodevelopmental Disease” organized by Center for Translational Neuroscience at Brown University (virtual) Invited by Eric Morrow |
| 2021 | Cell-type specific transcriptional networks related to autism | Cincinnati Children’s Research Foundation/Molecular and Developmental Biology Graduate Program, University of Cincinnati College of Medicine (virtual; October 13) Invited by J. Elliott Robinson |
| 2021 | Cell-type specific transcriptional networks related to autism | SFARI Investigator Fall 2021 Virtual Science Meeting (October 29, 2021) |
| 2022 | TBD | John D. Wiley Seminar Series at the Waisman Center, University of Wisconsin-Madison (March 4, 2022) Invited by Andre Sousa |
| 2023 | TBD | The Cerebellum Gordon Research Conference, Lewiston, Maine (postponed to 2023) Invited by Daniela Popa and Roy Sillitoe |
| <u>Regional/Local</u> | | |
| 2011 | Human-specific signaling networks | UT Southwestern Graduate Program in Neuroscience Retreat |
| 2011 | Human-specific signaling networks in the CNS | UT Southwestern New Faculty Research Forum, Dallas, TX |

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| 2012 | Human-specific signaling networks specific for language and cognition | UT Southwestern MSTP Works in Progress, Dallas, TX |
| 2012 | Human-specific signaling networks underlying language and cognition | UT Dallas Neuroscience Brown Bag Seminar Series, Richardson, TX <u>Student-invited</u> |
| 2013 | Molecular evolution of human cognition | UT Southwestern STARS Summer Research Seminar Series |
| 2013 | Molecular evolution of human cognition | UT Southwestern STARS Basic Science Symposium |
| 2014 | The costs and benefits of human brain evolution: a genomics perspective | UT Southwestern Graduate Student Organization Poster Session <u>Keynote Address</u> (selected by graduate students) |
| 2014 | Genomics of brain evolution: linking language, cognition, neuronal function, and autism | UT Southwestern, Department of Physiology Invited by Ryan Potts (now at St. Jude Children's Research Hospital) |
| 2015 | Molecular networks of cognition: linking language, neuronal function, and autism | Southern Methodist University, Department of Biological Sciences Invited by Santosh D'Mello |
| 2015 | Genomics of brain evolution: linking language, neuronal function, and autism | UT Tyler, Department of Biology Invited by Brent Bill |
| 2015 | Genomics of brain evolution: linking language, neuronal function, and autism | UT Southwestern MSTP Works in Progress |
| 2015 | Autism genomics: linking vocal communication and neuronal function | UT Southwestern Autism Center Seminar Series Invited by Carol Tamminga |
| 2016 | Whole genome expression profiles and brain oscillations | UT Southwestern Neurosurgery Grand Rounds Invited by Brad Lega |
| 2016 | Autism genomics: linking vocal communication and neuronal function | Texas FreshAIR Neuroscience Invited by Peter Tsai & Kim Huber |
| 2016 | Molecular networks of cognition | UT Southwestern, Eugene McDermott Center for Human Growth & Development Works in Progress Invited by Maria Chahrour |
| 2017 | Cognitive genomics: linking genes to behavior in the human brain | UT Southwestern, Neuro Technical Development Group, Department of Radiology Invited by Albert Montillo |
| 2017 | Molecular networks of cognition | UT Southwestern, Department of Neuroscience Seminar Series |

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| 2018 | From machines to molecules: is gene editing on the horizon to “change the brain”? | UT Southwestern, Bass Neurosurgery Symposium: Technologies of Neurorestoration Invited by Brad Lega & Babu Welch |
| 2018 | Autism pathophysiology: neural transcription networks | Autism Symposium, STARS program, UT Southwestern |
| 2018 | Cell-type specific transcriptional networks regulating striatal development and behavior | UT Southwestern MSTP Works in Progress |
| 2019 | Molecular networks of cognition | The Academy of Medicine, Engineering & Science of Texas (TAMEST) Annual Conference: Brain Health Invited by Joe Takahashi |
| 2019 | Molecular networks of cognition | Green Center for Systems Biology, UT Southwestern Invited by Erdal Toprak |
| 2021 | Cell type-specific transcriptional networks related to autism | O’Donnell Brain Institute Symposium: Autism Spectrum Disorders, UT Southwestern (virtual) Invited by Kimberly Huber |
| 2021 | Understanding human cognition one cell at a time | Psychiatry Grand Rounds, UT Southwestern (virtual) Invited by Carol Tamminga |
| 2021 | Understanding human cognition one cell at a time | UT Southwestern MSTP Works in Progress (virtual) |
| 2021 | Cell type-specific transcriptional networks related to autism | Southern Methodist University, Department of Biological Sciences Invited by Albert Glasscock |
| 2021 | Understanding cognition one cell at a time | Neurology Grand Rounds, UT Southwestern (virtual; Dec 1, 2021) Invited by Elan Louis |
| 2022 | TBD | UT Southwestern President’s Lecture Series (April 28, 2022) |

Technological and Other Scientific Innovations

Methods and Compositions for Treating and Preventing Tumors, filed January 24, 2007 (U.S. Patent Application No. 11/657,965); Azad M. Bonni, Nuria de la Iglesia, Genevieve Konopka.

Signaling Networks Causing Neurodevelopmental Disorders in Human Neurons (provisional patent application filed June 7, 2012 with UCLA Intellectual Property); Genevieve Konopka, Eric Wexler, and Daniel H. Geschwind.

Service to the Community

| Year(s) | Role | Organization or institution |
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| 2013 | Guest speaker for symposium on neurogenetics, “Molecular evolution of human cognition” | UT Southwestern STARS |
| Guest speaker for evening STARS symposium for local high school teachers and students. | | |
| 2013 | Guest speaker for summer research program, “Molecular evolution of human cognition” | UT Southwestern STARS |
| Guest speaker for STARS summer research series for that year’s summer STARS students. | | |
| 2014 | Guest speaker for symposium on brain-related research, “Decoding the molecular evolution of cognition” | Conte Center’s 3rd Annual Brain Awareness Day at the University of Chicago, Chicago, IL |
| Invited speaker for a University of Chicago event targeting the general public, including high school students, teachers, parents, and caregivers to translate basic research of mental health. | | |
| 2018 | Guest speaker for UT Southwestern STARS Basic Science Symposium on “Autism Pathophysiology: Neural Transcription Networks” | UT Southwestern STARS |
| Guest speaker for Saturday STARS symposium on autism for local high school teachers and students. | | |
| 2019 | Panelist for session on “Hope on the Horizon: Unravelling the Mysteries of the Brain” | The Philosophical Society of Texas |
| Panelist to discuss the brain and answer questions from members of the Philosophical Society of Texas, which is a non-profit educational institution purposed with learning. | | |
| 2019 | Guest speaker for families with FOXP1 mutations: “The cell-specific role of FOXP1 in brain development” | Mt. Sinai, New York City |
| Speaker to discuss the latest basic science related to FOXP1 function in the brain. | | |
| 2021 | Guest speaker for families with FOXP1 mutations: FOXP1 cell-specific targets in early brain development | Mt. Sinai, New York City (virtual) |
| Speaker to discuss the latest basic science related to FOXP1 function in the brain. | | |
| 2021- | Scientific Advisory Board for FOXP1 Foundation | FOXP1 Foundation |
| I serve on the Scientific Advisory Board for a foundation dedicated to understanding FOXP1 syndrome. This foundation was started in 2021 by parents of children with FOXP1 mutations. | | |

Peer-Reviewed Publications

Original Research Articles

1. Blanchard, B.J., **Konopka, G.**, Russell, M., and Ingram, V.M. (1997) Mechanism and prevention of neurotoxicity cause by beta-amyloid peptides: relation to Alzheimer's disease. *Brain Research* 776(1-2): 40-50.
2. Simbulan-Rosenthal, C.M., Ly, D.H., Rosenthal, D.S., **Konopka, G.**, Luo, R., Wang, Z.Q., Schultz, P.G., and Smulson, M.E. (2000) Misregulation of gene expression in primary

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| | fibroblasts lacking poly (ADP-ribose) polymerase. <i>Proc Natl Acad Sci USA</i> 97(21): 11274-11279. |
| 3. | Pugielli, L., Konopka, G. , Pack-Chung, E., Ingano, L.A., Berezovska, O., Hyman, B.T., Chang, T.Y., Tanzi, R.E., and Kovacs, D.M. (2001) Acyl-coenzyme A: cholesterol acyltransferase modulates the generation of the amyloid beta-peptide. <i>Nature Cell Biology</i> 3(10): 905-912. |
| 4. | Chylack, L.T., Fu, L., Mancini, R., Martin-Rehrmann, M.D., Saunders, A. J., Konopka, G. , Tian, D., Hedley-Whyte E.T., Folkerth, R.D., and Goldstein, L.E. (2004) Lens epithelium-derived growth factor (LEDGF/p75) expression in fetal and adult human brain. <i>Experimental Eye Research</i> 79(6): 941-948. |
| 5. | Battle, M. A., Konopka, G. , Parviz, F., Lerch-Gaggl, A., Yang, C., Sladek, F.M., and Duncan, S.A. (2006) Hepatocyte nuclear factor 4 alpha orchestrates expression of cell adhesion proteins to coordinate the epithelial transformation of the developing liver. <i>Proc Natl Acad Sci USA</i> 103(22): 8419-8424. |
| 6. | Konopka, G. , Tekiela, J., Iverson, M., Wells, C., Duncan, S.A. (2007) Junctional adhesion molecule-A is critical for the formation of pseudocanaliculi and modulates E-cadherin expression in hepatic cells. <i>Journal of Biological Chemistry</i> 282(38): 28137-48. |
| 7. | Spiteri, E., Konopka, G. , Coppola, G., Bomar, J., Oldham, M., Ou, J., Vernes, S.C., Fisher, S.E., Ren, B., and Geschwind, D.H. (2007) Identification of the transcriptional targets of FOXP2, a gene linked to speech and language, in developing human brain. <i>American Journal of Human Genetics</i> 81(6): 1144-57. |
| 8. | de la Iglesia, N.* , Konopka, G.* , Puram, S., Chan, J.A., Bachoo, R.M., You, J.M., Levy, D.E., DePinho, R.A., and Bonni, A. (2008) Identification of a PTEN-regulated STAT3 brain tumor suppressor pathway. <i>Genes and Development</i> 22(4):449-62. * Equal contribution. |
| 9. | de la Iglesia, N.* , Konopka, G.* , Nutt, C.L., Bromberg, J.F., Frank, D.A., Mischel, P.S., Louis, D.N., and Bonni, A. (2008) Deregulation of a STAT3-IL8 signaling pathway promotes human glioblastoma cell proliferation and invasiveness. <i>Journal of Neuroscience</i> 28(23):5870-8. *Equal contribution. |
| 10. | Oldham, M.C., Konopka, G. , Iwamoto, K., Langfelder, P., Kato, T., Horvath, S., and Geschwind, D. H. (2008) Functional organization of the transcriptome in human brain. <i>Nature Neuroscience</i> 11(11):1271-82. |
| 11. | Konopka, G. ,* Bomar, J.M., Winden, K., Coppola, G., Jonsson, Z.O., Gao, F., Peng, S., Preuss, T.M., Wohlschlegel, J.A., and Geschwind, D.H.* (2009) Human-specific transcriptional regulation of CNS development genes by FOXP2. <i>Nature</i> 462 (7270):213-7. *Co-corresponding author |
| 12. | Mukamel, Z.* , Konopka, G.* , Wexler, E., Dong, H., Osborn, G., Levitt, P., and Geschwind, D.H. (2011) Regulation of MET by FOXP2, genes implicated in higher cognitive dysfunction and autism risk. <i>Journal of Neuroscience</i> 31(32):11437-42. *Equal Contribution |
| 13. | DeLaForest, A., Nagaoka, M., Si-Tayeb, K., Noto, F.K., Konopka, G. , Battle, M.A., and Duncan, S.A. (2011) HNF4A is essential for specification of hepatic progenitors from human pluripotent stem cells. <i>Development</i> 138(19):4143-53 |
| 14. | Konopka, G. , Wexler, E., Rosen, E., Mukamel, Z., Osborn, G. E., Chen, L., Lu, D., Gao, F., Gao, K., Lowe, J.K., and Geschwind D. H. (2012) Modeling the functional genomics of autism using human neurons. <i>Molecular Psychiatry</i> 17(2):202-214. |
| 15. | Puram, S.V., Yeung, C.M., Jahani-Asl, A., Lin, C., de la Iglesia, N., Konopka, G. , Jackson-Grusby, L., and Bonni, A. (2012) STAT3-iNOS signaling mediates EGFRvIII-induced glial proliferation and transformation. <i>Journal of Neuroscience</i> 32(23):7806-18. |

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| 16. | Fogel, B.L., Wexler, E., Wahnich, A., Friedrich, T., Vijayendran, C., Gao, F., Parikshak, N., Konopka, G. , and Geschwind, D.H. (2012) RBFOX1 regulates both splicing and transcriptional networks in human neuronal development. <i>Human Molecular Genetics</i> 21(19):4171-86. |
| 17. | Wang, G.-Z., and Konopka, G. (2012) Differential functional constraints on the evolution of postsynaptic density proteins in neocortical laminae. <i>PLoS One</i> 7(6):e39686. |
| 18. | Konopka, G.* , Friedrich, T., Davis-Turak, J., Winden, K., Oldham, M.C., Gao, F., Chen, L., Wang, G.-Z., Luo, R., Preuss, T.M., and Geschwind, D.H.* (2012) Human-specific transcriptional networks in brain. <i>Neuron</i> 75(4):601-617. *Co-corresponding author |
| 19. | Zeng, J., Konopka, G. , Hunt, B., Preuss, T.M., Geschwind, D.H., and Yi, S. (2012) Evolutionary significance of DNA methylation in human and chimpanzee brains. <i>American Journal of Human Genetics</i> 91(3):455-65. |
| 20. | Fogel, B.L., Cho, E., Wahnich, A., Gao, F., Becherel, O.J., Fike, F., Chen, L., Criscuolo, C., De Michele, G., Filla, A., Collins, A., Hahn, A., Gatti, R., Konopka, G. , Perlman, S., Lavin, M.F., Geschwind, D.H., and Coppola, G. (2014) Mutation of Senataxin Alters Disease-Specific Transcriptional Networks in Patients with Ataxia with Oculomotor Apraxia Type 2. <i>Human Molecular Genetics</i> 23(18):4758-69. |
| 21. | Araujo, D.J., Anderson, A.G., Berto, S., Runnels, W., Harper, M., Ammanuel, S., Reiger, M.A., Huang, H-C., Rajkovich, K., Loerwald, K.W., Dekker, J.D., Tucker, H.O., Dougherty, J.D., Gibson, J.R., and Konopka, G. (2015) FoxP1 orchestration of ASD-relevant signaling pathways in striatum. <i>Genes & Development</i> 29(20):2081-96. |
| 22. | Wang, G.-Z., Hickey, S.L., Shi, L., Huang, H-C., Nakashe, P., Koike, N., Tu, B.P., Takahashi, J.S., and Konopka, G. (2015) Cycling transcriptional networks optimize energy utilization on a genome scale. <i>Cell Reports</i> 13(9):1868-80. |
| 23. | Wang, G.-Z., Belgard, T.G., Mao, D., Chen, L., Berto, S., Preuss, T.M., Lu, H., Geschwind, D.H., and Konopka, G. (2015) Correspondence between resting state activity and brain gene expression. <i>Neuron</i> 88(4):659-66. |
| 24. | Usui, N., Co, M., Harper, M., Reiger, M.A., Dougherty, J.D., and Konopka, G. (2017) Sumoylation of FOXP2 regulates motor function and vocal communication through Purkinje cell development. <i>Biological Psychiatry</i> 81(3):220-230. |
| 25. | Berto, S., Usui, N., Konopka, G.* , and Fogel, B.L*. (2016) ELAVL2-regulated transcriptional and splicing networks in human neurons link neurodevelopment and autism. <i>Human Molecular Genetics</i> 25(12):2451-2464. *Co-corresponding author |
| 26. | Hanners, N., Eitson, J., Usui, N., Richardson, R.B., Wexler, E.M., Konopka, G. , and Schoggins, J.W. (2016) Western Zika virus in human fetal neural progenitors persists long term with partial cytopathic and limited immunogenic effects. <i>Cell Reports</i> 15(11):2315-22. |
| 27. | Mendizabal, I., Shi, L., Keller, T.E., Konopka, G. , Preuss, T.M., Hsieh, T-F., Hu, E., Zhang, Z., Su, B., and Yi, S.V. (2016) Comparative methylome analyses identify epigenetic loci of human brain evolution. <i>Molecular Biology and Evolution</i> 33(11):2947-2959. |
| 28. | Harrington, A.J., Raissi, A., Rajkovich, K., Berto, S., Kumar, J., Molinaro, G., Raduazzo, J., Guo, Y., Loerwald, K., Konopka, G. , Huber, K.M., and Cowan, C.W. (2016) MEF2C regulates cortical inhibitory and excitatory synapses and behaviors relevant to neurodevelopmental disorders. <i>Elife</i> 5:e20059. DOI: 10.7554/eLife.20059. |
| 29. | Berto, S., Wang, G.-Z., Geremi, J., Lega, B., and Konopka, G. (2018) Human genomic signatures of brain oscillations during memory encoding. <i>Cerebral Cortex</i> 28(5):1733-1748. |
| 30. | Escamilla, C.O., Filonova, I., Walker, A.K., Xuan, Z., Holehonnur, R., Espinosa, F., Liu, S., Thyme, S.B., Lopez-Garcia, I.A., Mendoza, D.B., Usui, N., Ellegood, J., Eisch, A.J., Konopka, |

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| 35. | Anderson, A.G. Kulkarni A., Harper M., Konopka, G. Foxp1 regulates cell-type specific molecular pathways and function within striatal projection neurons. <u>Abstracts of the Annual Society for Neuroscience Meeting. Session 369.10/C32, San Diego, CA, 2018.</u> |
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