

Curriculum vitae

Education

Emory University, Atlanta, G PhD, Neuroscience	Ą	2011 – 2017
Laboratory of Dr. Rar	ndy Hall, Dept. of Pharmacology	
Johns Hopkins University, Ba BA with honors, Neur		2005 – 2009
Current Position		
Virginia Tech Assistant Professor	Fralin Biomedical Research Institute	August 2024 – Present
My laboratory neurobiology	in the Center for Neurobiology will investion of genetic variants and environmental fact for psychiatric conditions.	•
Previous Research Experie	ence	
Emory University Assistant Professor (I	Department of Cell Biology Research)	July 2023 – July 2024
The aims of my current research are to (1) determine the cellular and molecular mechanisms of the schizophrenia associated 3q29 deletion, and (2) to test the hypothesis that high-risk genetic variants for neuropsychiatric diseases such as ASD and schizophrenia have convergent effects on neurodevelopmental pathways. I am addressing these questions using CRISPR/Cas9 genome engineering, single-cell transcriptomics, and human neuronal and cortical		

organoid culture systems.

<u>Emory University</u> Department of Cell Biology June 2021 – June 2023 Instructor in Laboratory for Translational Cell Biology, directed by Dr. Gary Bassell. Identified mitochondrial phenotypes in 3q29 deletion model systems. Generated an isogenic 22q11 deletion iPS cell line cohort.

<u>Emory University</u> Department of Cell Biology June 2017 – May 2021 *Postdoctoral fellow*, Laboratory of Dr. Gary Bassell, co-mentored by Dr. Jennifer Mulle. Studied mechanisms of 3q29 deletion syndrome in neurons and cortical organoids derived from patient iPSCs and in an experimental mouse system.

<u>Universität Leipzig</u> Department of Biochemistry April – May, 2017 Visiting postdoctoral fellow, Laboratory of Dr. Tobias Langenhan. Examined phenotype of *Drosophila* null mutants lacking two novel adhesion GPCRs.

<u>Emory University</u> Department of Pharmacology 2012 – 2017 *Graduate student*, Laboratory of Dr. Randy Hall Investigated the activation and regulatory mechanisms of a subset of neuronal expressed adhesion GPCRs. Johns Hopkins University

Department of Psychiatry

Research Technologist, Laboratory of Dr. Kellie Tamashiro Studied rodent models of stress and metabolic disorders with behavioral testing, endocrine assays, and gene expression analyses.

<u>Johns Hopkins University</u> Department of Neuroscience Summer 2008 Summer Intern, Laboratory of Dr. Jay Baraban Investigated the subcellular localization of an uncharacterized neuronal protein.

Current Research Support

NIMH K01 MH133970August 2023 – July 2027Phenotypic convergence at mitochondria in copy number variant disordersRole: PlDescription: The aims of this project are to (1) determine the effects of 3q29Del and 22q11Delon the neural mitochondrial proteome in mouse and human systems, (2) test the capacity of3q29Del and 22q11Del neural cells to adapt to metabolic stress, and (3) to identify the 3q29genes responsible for mitochondrial phenotypes.

Completed Research Support

Imagine, Innovate, Impact (I³) AwardAugust 2023 – July 2024Emory School of MedicinePurcell, Ryan (Pl), Bassell, Gary (Pl), Duncan, Erica (Pl)Testing convergent biology across schizophrenia risk variants in forebrain cortical organoidsRole: Co-Investigator (lead author of proposal)Description: Pilot study to investigate the transcriptomes of 3q29Del and 22q11Del humancortical organoids at single cell resolution.

NARSAD Young Investigator GrantJanuary 2022 – January 2024Brain & Behavior Research FoundationRole: PICross-comparison of schizophrenia risk copy number variants.Description: Testing the hypothesis that the two highest known genetic risk factors for
schizophrenia converge on similar neurodevelopmental pathways.University Research Committee AwardMay 2022 – August 2023

Emory University Research Commutee Award Role: PI Emory University Role: PI Convergent mechanisms in schizophrenia risk variants Description: Funding for quantitative proteomics experiments in 3q29 and 22q11 neurons and cortical organoids.

Ruth L. Kirschstein National Research Service AwardJuly 2020 – July 2022F32 MH124273National Institute of Mental HealthRole: PINeural mechanisms of 3q29 deletion syndromeDescription: Investigated the impact of the 3q29 deletion on proliferation and fate commitment in

the neural lineage using iPSC-derived neural progenitor cells, forebrain neurons, and cortical organoids.

Imagine, Innovate, Impact (I³) AwardBassell, Gary (PI) and Duncan, Erica (PI)Emory School of MedicineMay 2021 – December 2022Direct comparison of high-risk schizophrenia genetic variants using translational cell biologyRole: Co-Investigator (lead author of proposal)

Description: Seed funding (\$75,000) to generate isogenic 22q11.2 deletion cell lines in the same genetic background as 3q29 deletion and test for convergent biological mechanisms.

Publications

- Purcell RH^{1#}, Sefik E¹, Werner E, King AT, Mosley TJ, Merritt-Garza ME, Chopra P, McEachin ZT, Karne S, Raj N, Vaglio BJ, Sullivan D, Firestein BL, Tilahun K, Robinette MI, Warren ST, Wen Z, Faundez V, Sloan SA, Bassell GJ[#], Mulle JG[#] (2023). Crossspecies analysis identifies mitochondrial dysregulation as a functional consequence of the schizophrenia-associated 3q29 deletion. *Science Advances* 9 (33) August 16. PMID: 37585521 (¹equal contribution first authorship, [#]corresponding)
- Yilmaz F, Gurusamy U, Mosley TJ, Hallast P, Kim K, Mostovoy Y, Purcell RH, Shaikh TH, Zwick ME, Kwok PY, Lee C, Mulle JG (2023). High level of complexity and global diversity of the schizophrenia-associated 3q29 locus revealed by optical mapping and long-read sequencing. *Genome Medicine* 15, 35. PMID: 37165454
- Commission on Novel Technologies for Neurodevelopmental CNVs [Alphabetical: Buttermore ED, Chamberlain SJ, Cody JD, DeWoody A, DeWoody YD, Dies KA, Eichler EE, Gramm M, Girirajan S, Halladay A, Lal D, Lalli MA, Levy T, Logsdon GA, Lowenstein DH, Mefford HG, Mulle JG, Muotri AR, Murphy MM, Palma EP, Pinter SF, Pollak RM, Purcell RH, Samaco RC, Shah BM, Singh KK, So J, Sundberg M, Veeraragavan S, Vogel-Farley V, Wynshaw-Boris A] (2022). Neurodevelopmental copy number variants: a roadmap to improving outcomes by uniting patient advocates, researchers, and clinicians for collective impact. *American Journal of Human Genetics* Aug 4; 109(8):1353-1365. PMID: 35931048
- Shiu FH, Wong JC, Yamamoto T, Lala T, Purcell RH, Owino S, Zhu D, Van Meir EG, Hall RA, Escayg A (2022). Mice lacking full length Adgrb1 (Bai1) exhibit social deficits, increased seizure susceptibility, and altered brain development. *Experimental Neurology* May 2022, Vol 351. PMID: 35114205
- Pollak RM, Purcell RH, Rutkowski TP, Malone T, Pachura KJ, Bassell GJ, Epstein MP, Dawson PA, Smith MR, Jones DP, Zwick ME, Warren ST, Caspary T, Weinshenker D, Mulle JG (2022). Metabolic effects of the schizophrenia-associated 3q29 deletion. *Translational Psychiatry* Feb 17; 12(1):66 PMID: 35177588
- Cable J¹, Purcell RH¹, Robinson E, Vorstman JAS, Chung WK, Constantino JN, Sanders SJ, Sahin M, Dolmetsch RE, Shah B, Thurm A, Martin CL, Bearden CE, Mulle JG (2021). Harnessing rare variants in neuropsychiatric and neurodevelopmental disorders – a Keystone Symposia report. *Annals of the New York Academy of Sciences* doi: 10.1111/nyas.14658. Dec;1506(1):5-17. PMID: 34342000 (¹equal contribution first authorship)
- Glassford MM¹, Purcell RH¹, Pass S, Murphy MM, The Emory 3q29 Project, Bassell GJ, Mulle JG (2021). Caregiver perspectives on a child's diagnosis of 3q29 deletion: "We can't just wish this thing away" *Journal of Behavioral and Developmental Pediatrics* Feb-Mar;43(2):e94-e102 PMID: 34320535 (¹equal contribution first authorship)

- Sefik E¹, Purcell RH¹, The Emory 3q29 Project, Walker EF, Bassell GJ, Mulle JG (2021). Convergent and distributed effects of the 3q29 deletion on the human neural transcriptome. *Translational Psychiatry* Jun 15; 11(1):357 PMID: 34131099 (¹equal contribution first authorship)
- Sanchez Russo R, Gambello MJ, Murphy MM, Aberizk K, Black E, Burrell TL, Carlock G, Cubells JF, Epstein MT, Espana R, Goines K, Guest RM, Klaiman C, Koh S, Leslie EJ, Li L, Novacek DM, Saulnier CA, Sefik E, Shultz S, Walker E, White SP; Emory 3q29 Project, Mulle JG (2021). Deep phenotyping in 3q29 deletion syndrome: recommendations for clinical care. *Genetics in Medicine*. May;23(5):872-880 PMID: 33564151
- McEachin ZT, Gendron TF, Raj N, Garcia-Murias M, Banerjee A, Purcell RH, Ward PJ, Todd TW, Merritt-Garza ME, Jansen-West K, Hales CM, Garcia-Sobrino T, Quintans B, Holler CJ, Taylor G, San Millan B, Teijeira S, Yamashita T, Ohkubo R, Boulis NM, Xu C, Wen Z, Streichenberger N, Neuro–CEB Neuropathology Network, Fogel BL, Kukar T, Abe K, Dickson DW, Arias M, Glass JD, Jiang J, Tansey MG, Sobrido MJ, Petrucelli L, Rossoll W, Bassell GJ (2020). Chimeric Peptide Species Contribute to Divergent Dipeptide Repeat Pathology in c9ALS/FTD and SCA36. *Neuron* Vol. 107, 1-14.
- Murphy MM, Burrell TL, Cubells JF, Epstein MT, Espana R, Gambello MJ, Goines K, Klaiman C, Koh S, Russo RS, Saulnier CA, Walker E, Emory 3q29 Project, Mulle JG (2020). Comprehensive Phenotyping of Neuropsychiatric Traits in a Multiplex 3q29 Deletion Family: A Case Report. *BMC Psychiatry*. Online April 22. PMID: 3232147.
- Pollak RM, Murphy MM, Epstein MP, Zwick ME, Klaiman C, Saulnier CA, Emory 3q29 Project, Mulle JG (2019). Neuropsychiatric phenotypes and a distinct constellation of ASD features in 3q29 deletion syndrome: results from the 3q29 registry. *Molecular Autism* Vol. 10 Issue 30. PMID: 31346402.
- Rutkowski TP, Purcell RH, Pollak RM, Grewenow SM, Gafford GM, Malone T, Khan U, Schroeder JP, Epstein MP, Bassell GJ, Warren ST, Weinshenker D, Caspary T, Mulle JG (2019). Behavioral changes and growth deficits in a CRISPR engineered mouse model of the schizophrenia-associated 3q29 deletion. *Molecular Psychiatry*. Online April 11, 2019. PMID: 30976085.
- 14. **Purcell RH**, Hall RA (2018). Adhesion G protein-coupled receptors as drug targets. *Annual Review of Pharmacology and Toxicology*. Vol. 58: 429-449. PMID: 28968187.
- Purcell RH, Toro C, Gahl WA, Hall RA (2017). A disease-associated mutation in the adhesion GPCR ADGRB2 (BAI2) increases receptor signaling activity (2017). *Human Mutation*. Vol. 38: 1751-1760. PMID: 28891236.
- 16. Purcell RH, Rommelfanger KS (2016). Biometric tracking from professional athletes to consumers. *American Journal of Bioethics.* 17 (1) 72-74.* PMID: 27996927.
- 17. **Purcell RH**, Rommelfanger KS (2016). Neuroscience online: real ethical issues in virtual realms. *Routledge Handbook of Neuroethics*, p. 262 270.*
- 18. Kishore A¹, **Purcell RH¹**, Nassiri-Toosi Z, Hall RA (2016). Stalk-dependent and stalkindependent signaling by the adhesion G protein-coupled receptors GPR56 (ADGRG1)

Editorial review only.

and BAI1 (ADGRB1). *Journal of Biological Chemistry* 291 (7) 3385-3394. PMID: 26710850. (¹equal contribution first authorship)

- 19. Purcell RH, and Wolpe PR. Overview of Neuroethics (2016). *eLS* (Wiley Online Library). Published online July 15th, 2016. DOI: 10.1002/9780470015902.a0026498
- Purcell RH and Rommelfanger KS (2015). Internet-based brain training games, citizen scientists, and big data: Ethical issues in unprecedented virtual territories. *Neuron* 86 (2) 356-359.* PMID: 25905809.
- Stephenson JR, Purcell RH, Hall RA (2014). The BAI Sub-family of Adhesion GPCRs: Synaptic Regulation and Beyond. *Trends in Pharmacological Sciences* 35(4) 208-215. PMID: 24642458.
- Boersma GJ, Lee RS, Cordner ZA, Ewald ER, Purcell RH, Moghadam AA, Tamashiro KL (2014). Prenatal stress decreases *Bdnf* expression and increases methylation of *Bdnf* exon IV in rats. *Epigenetics* 9(3) 437-447. PMID: 24365909.
- Sun B, Liang NC, Ewald ER, Purcell RH, Boersma GJ, Yan J, Tamashiro KL (2013). Early postweaning exercise improves central leptin sensitivity in offspring of rat dams fed high-fat diet during pregnancy and lactation. *Am J Physiol Regul Integr Comp Physiol* 305(9) R1076-1084. PMID: 24026073.
- Purcell RH, Papale LA, Makinson CD, Sawyer NT, Schroeder JP, Escayg A, and Weinshenker D (2013). An epilepsy-causing mutation in the SCN1A sodium channel gene confers susceptibility to cocaine-induced seizures in mice. *Psychopharmacology* 228(2); 263-270. PMID: 23494229.
- 25. Purcell R (2012). To embrace doping in sport is absurd. *Nature* 488; 157. PMID: 22874954*
- Sun B, Purcell RH, Terrillion CE, Yan J, Moran TH, and Tamashiro KL (2012). Maternal high-fat diet during gestation or suckling differentially affects offspring leptin sensitivity and obesity. *Diabetes* 61(11) 2833-41. PMID: 22751689.
- Purcell RH, Sun B, Pass LL, Power ML, Moran TH, and Tamashiro KL (2011). Maternal stress and high-fat diet effects on maternal behavior, milk composition, and pup ingestive behavior. *Physiology and Behavior* 104; 474-479. PMID: 21605577.
- Lee RS, Tamashiro KL, Yang X, Purcell RH, Huo Y, Rongione M, Potash JB, and Wand GS (2011). A measure of glucocorticoid load provided by DNA methylation of *Fkbp5* in mice. *Psychopharmacology* 218(1) 303-312. PMID: 21509501.
- Lee RS, Tamashiro KL, Yang X, Purcell RH, Harvey A, Willour V, Huo Y, Rongione M, Wand GS, and Potash JB (2010). Chronic corticosterone exposure increases expression and decreases deoxyribonucleic acid methylation of *Fkbp5* in mice. *Endocrinology* 151(9) 4332-4343. PMID: 20668026.

Meeting Abstracts and Presentations

 Purcell RH, Robinette MI, Duncan EJ, Cubells JF, Wen Z, Mulle JG, Faundez V, Bassell GJ. Investigating convergent cellular phenotypes of 22q11 and 3q29 deletions. The 13th Biennial Meeting of the 22q11 Society, 2024. Óbidos, Portugal. <u>Oral Presentation</u>.

- Purcell RH, Faundez V, Mulle JG, Bassell GJ. Investigating convergent cellular phenotypes in schizophrenia-associated copy number variants. Society of Biological Psychiatry Annual Meeting. Austin, TX. May 9, 2024. <u>Oral Presentation</u>.
- 3. **Purcell RH**, Sefik E, Werner E, Sloan SA, Faundez V, Bassell GJ, Mulle JG. Identifying the neurodevelopmental impact of the 3q29 deletion through single-cell sequencing. Canadian Association for Neuroscience Annual Meeting. Montreal. May 29, 2023. <u>Oral Presentation</u>.
- 4. Purcell RH, Sefik E, King AT, Mosley T, Merritt-Garza ME, Chopra P, Raj N, McEachin ZT, Karne S, Tilahun K, Weinshenker D, Warren ST, Wen Z, Sloan SA, Bassell GJ, and Mulle JG. Identifying the neurodevelopmental impact of the schizophrenia-associated 3q29 deletion through cross-species single-cell sequencing. Cell Symposia: The Biology of Neuropsychiatric Disorders. Sitges, Spain. May 15, 2022. <u>Oral Presentation</u>.
- Purcell RH, Sefik E, King AT, Mosley T, Merritt-Garza ME, Chopra P, Raj N, McEachin ZT, Karne S, Tilahun K, Weinshenker D, Warren ST, Wen Z, Sloan SA, Bassell GJ, and Mulle JG. Identifying the neurodevelopmental impact of the schizophrenia-associated 3q29 deletion through cross-species single-cell sequencing. Atlanta Workshop on Single-Cell Omics 2022. Georgia Tech, Atlanta, GA. <u>Oral presentation</u>.
- Purcell RH, Sefik E, Karne S, Murphy MM, Pollak RM, Mosley T, Merritt-Garza MM, Raj N, McEachin ZT, Evans E, Randall J, Sloan SA, Wen Z, The Emory 3q29 Project, Mulle JG, Bassell GJ. An iPSC-derived neuronal model of the schizophrenia-associated 3q29 deletion. American Society of Human Genetics 2019. Houston, TX.
- Purcell RH and Hall RA. A disease-associated mutation in the C-terminus of ADGRB2 (BAI2) increases receptor signaling. 2016 Adhesion GPCR Workshop. Leipzig, Germany. <u>Oral presentation</u>.
- 8. **Purcell RH** and Hall RA. A disease-associated mutation in the C-terminus of ADGRB2 (BAI2) increases receptor signaling. Experimental Biology, 2016. San Diego, CA.
- Purcell RH, Nassiri-Toosi Z, and Hall, RA. New insights into the activation mechanisms of the adhesion GPCR BAI1. Gordon Research Conference: Molecular Pharmacology 2015, Ventura, CA.
- 10. **Purcell RH** and Hall RA. The GAIN domain of the adhesion GPCR BAI1 regulates the constitutive activity of the receptor. Neuroscience 2014, Washington, DC.
- 11. **Purcell RH** and Rommelfanger KS. An ethical evaluation of commercial brain training programs. International Neuroethics Society Annual Meeting, Washington, DC, November 2014. Oral and poster presentation.
- 12. **Purcell RH** and Hall RA. Interactions between the adhesion GPCR BAI1 and the BAI1 GAIN domain affect receptor signaling activity. 2014 Adhesion GPCR Workshop, Boston, MA.
- 13. **Purcell RH**, Ewald ER, Volk K, Sun B, Liang NC, Moran TH, and Tamashiro KL. Mechanisms for metabolic side-effects associated with the atypical antipsychotic olanzapine. Neuroscience 2011, Washington, DC.

- 14. **Purcell RH**, Ewald ER, Volk K, Sun B, Liang NC, Moran TH, and Tamashiro KL. Shortand long-term effects of olanzapine on food intake and hypothalamic gene expression in female rats. Society for the Study of Ingestive Behavior annual meeting, Clearwater, FL, July 2011. <u>Oral Presentation</u>.
- 15. **Purcell RH**, Sun B, Pass LL, Moran TH, and Tamashiro KL. Gestational stress and high-fat diet effects on maternal and pup behavior and gene expression. Society for the Study of Ingestive Behavior annual meeting, Pittsburgh, PA, July 2010.

Teaching and Guest Lectures	
Emory University, IBS514: Cellular, Developmental, & Molecular Neuroscience	3.28.24
Journal article discussion leader	
Emory University, IBS514: Cellular, Developmental, & Molecular Neuroscience	3.27.24
Guest Lecture: "Neurotransmitters and Receptors"	
Emory University, NBB401: Perspectives in Neuroscience and Behavior	9.26.23
Guest Lecture: "Model system considerations and an approach to unders	stand the
neurobiology of schizophrenia"	44.0.04
Emory University, NBB280: Intro to Neuroethics	11.2.21
Guest Lecture: "From stem cells to brain surrogates: ethical issues mode disorders"	aing brain
Emory University, NBB270: Neuroethics	10.06.20
Guest lecture: "From stem cells to brain surrogates: ethical issues model	
disorders"	
Emory University, NBB270: Neuroethics	10.29.19
Guest lecture: "Human stem cells and cerebral organoids in neuropsychi	atric disease
research"	
Emory University, EPI552: Human Genome Epidemiology	3.18.19
Guest lecture: "Genome Architecture: Psychiatric Genetics"	
Emory University, NBB370: Neuroethics	3.6.18
Guest lecture: "Using stem cells to study neuropsychiatric disease"	0 0047
Summer Undergraduate Research Program	Summer 2017
Responsible Conduct of Research and Ethics Special Topics in Human Health: How self-tracking transforms health	
Guest lecture: "Big data, privacy, and ethics"	9.29.15
Guest lecture: "Ethics of Big Data in health and science"	3.17.16
Department of Biology, <u>Emory University</u>	0.17.10
Teaching Assistant NBB301: Introduction to Neurobiology	Fall 2012
Lecture: "The Chemical Senses"	11.29.12
Lecture: "Neurotransmitter Release"	10.4.12
Invited Talks	4 00 04
Emory University Dept. of Pharmacology and Chemical Biology	4.23.24
Johns Hopkins University Nu Rho Psi Club (Virtual)	4.22.24 1.19.24
Georgia State University Neuroscience Institute Virginia Tech Fralin Biomedical Research Institute	1.19.24
NIMH SSPsyGene Consortium (Virtual)	10.19.23
Rutgers Univ. Dept. of Psychiatry	9.18.23
Genes 2 Mental Health Network (Virtual)	8.24.22
Moving Mountains Commission Hybrid Conference, Comm. on Neurodevelopme	

Moving Mountains Commission Hybrid Conference, Comm. on Neurodevelopme	ental CNVs
Research Roadmap Draft Presentation Denver, CO	7.6.21
Collective Impact Conference, Commission on Neurodevelopment CNVs	3.3.21

Virtual Meeting – Research priorities for <i>in vitro</i> working group	
Kittell Laboratory, University of Würzburg, Germany	5.5.17
Department of Biochemistry, Leipzig University, Germany	4.27.17

Awards and Honors

22q11.2 Society Meeting Best Presentation of Session	July 2024
NARSAD Young Investigator Award	January 2022 – January 2024
Ruth L. Kirschstein National Research Service Award	July 2020 – July 2022
Travel award	November 2014
"Top 5 Abstract: International Neuroethics Society	/ Annual Meeting"
Appointed to Emory Neuroscience Program's NIGMS trai	ining grant: 2012 – 2013
"Training in systems and integrative biology –	neuroscience"
Johns Hopkins University Dean's List	2006 – 2009
Johns Hopkins Varsity Men's Basketball Scholar Athlete	Award 2007 – 2009

Peer Reviewer

American Journal of Bioethics Neuroscience The Lancet Psychiatry Nature Communications (co-reviewer) Nature Neuroscience (co-reviewer) Neurobiology of Disease Schizophrenia Scientific Reports

Additional Training

Responsible Conduct of Research – 10 hour in-person course	Spring 2024
Scientists Teaching Science – 8-week online course	Spring 2020

University and Community Service

Conferences and Consortia		
Selected as conference assistant, Keystone eSymposium	2.11.2021	
"Neuropsychiatric and Neurodevelopmental Disorders: Harnes		
In vitro Working Group, Commission on Neurodevelopmental CNV		
Mentoring		
Delia Du, undergraduate student	Fall 2023 – Present	
Sridhar Karne, undergraduate student	Fall 2019 – 2021	
Laboratory intern (1yr full time) and three graduate student rotation	is 2014 – 2016	
Emory Summer Undergraduate Research Experience		
Admissions committee	2016, 2017	
Atlanta Track Club		
Second largest running organization in US with more than 30,000 members. Organizes the		
annual AJC Peachtree Road Race (largest 10k in the world).	0	
Board of Directors	2014 – 2021	
Elite Team Captain	2014 – 2015	
Editorial Activities		
BMC Psychiatry		
Editorial Board Member	2023 –	
American Journal of Bioethics Neuroscience		

Associate Editor Managing Editor Assistant Managing Editor Editorial intern	June 2023 – Fall 2020 – June 2023 Spring 2017 – Fall 2020 Fall 2013 – Spring 2017
Contributor to <u>The Neuroethics Blog</u> "When it comes to issues of identity and an lot patients have a value"	uthenticity in DBS, 3.22.16
let patients have a voice" "Getting aHead: Ethical issues facing hum "'Believe the children'? Childhood memory	, amnesia, and its
implications for law" "Burden of Proof: Does Neuroscience Hav "Big data and privacy on the Web: how sho	
conducted on the Internet?"	9.9.14
"The New Normal: How the definition of dis Cited in "Gray Matters Vol. 2: Topic Ethics, and Society" by the Preside Bioethical Issues	es at the Intersection of Neuroscience,
"Lumosity: A 'personal trainer for your brai	n'?" 3.4.14
On-campus presentations	0.40.04
Fralin Biomedical Research Institute Retreat "Leveraging rare variants to investigate ne	6.12.24
Emory Human induced Pluripotent Stem Cell Wor	•
"Genome engineering in iPSC lines"	10.17.23
Human Genetics Research in Progress	
"Assessing the impact of the schizophrenia	a-associated 3q29 deletion on the
developing neural transcriptome"	1.15.21
Frontiers in Neuroscience Seminar	
"Advances in Adhesion GPCR Signaling a	
for human health"	2.19.16
<u>Neuroethics Journal Club</u> "Ethics of motivation enhancement"	2 19 15
"Parvizi et al. 2013 Neuron"	3.18.15 3.18.14
Bassell Lab Meetings	5.16.14
Mitochondrial phenotypes in models of neu	rodevelopmental copy number
variants	3.27.23
Cross-species single-cell RNA-seq in 3q29	
Direct comparison of high-risk genetic vari	
Neurodevelopmental transcriptomic dysreg	gulation in the schizophrenia-
associated 3q29 deletion	11.15.21
Assessing the impact of the schizophrenia	
developing neural transcriptome	11.16.20
Convergent and distributed effects of the s	• •
on the human neural transcriptome Review of NRSA proposal	5.18.20 4.13.20
Isogenic 3q29 deletion cell lines	1.6.20
Generating isogenic cell lines with CRISPI	
A human neuronal model of schizophrenia	
A human neuronal model of schizophrenia	•
A neuronal model of 3q29 deletion syndro	me 6.18.18
3q29 deletion syndrome: progress in huma	
Gene and protein expression in 3q29 mou	se model 2.5.18

Project introduction: Modeling 3q29 deletion syndrome in iPS cell lines	9.8.17
Hall Lab Meetings	
Disease-associated mutations in ADGRB1 and B2 may reveal aGPCR	
regulatory mechanisms	9.14.16
Co-expression of a lipid scramblase activates ADGRB1 and B2	5.11.16
The BAI Family of Adhesion GPCRs: Focus on regulation	9.23.15
New insights into the activation mechanisms of ADGRB1	4.15.15
BAI1-3: Toward a cohesive understanding of activation and function	9.4.14
Intracellular Ca ²⁺ stabilizes the cleaved form of BAI1	5.29.14
BAI1 interactions with the GAIN domain, effect on signaling	2.27.14
Orphan receptors for peptide and steroid hormones	7.11.13
The search for a receptor for the VGF-derived peptide TLQP-21	11.13.12
ENCORE Seminar Series	
New insights into the activation mechanisms of the aGPCR ADGRB1	4.7.15

Professional society memberships Society of Biological Psychiatry 22q11.2 Society American Society of Human Genetics Society for Neuroscience