SHINYA YAMAMOTO, D.V.M., PH.D.

ASSOCIATE PROFESSOR, DEPARTMENT OF MOLECULAR & HUMAN GENETICS
GRADUATE PROGRAMS IN GENETICS & GENOMICS, NEUROSCIENCE, AND DDMT (DEVELOPMENT, DISEASE MODELS & THERAPEUTICS), BAYLOR COLLEGE OF MEDICINE

INVESTIGATOR, JAN AND DAN DUNCAN NEUROLOGICAL RESEARCH INSTITUTE, TEXAS CHILDREN'S HOSPITAL

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EDUCATION

1999 - 2005 *Bachelor in Veterinary Medicine (B.S.)*
The University of Tokyo, Tokyo, Japan

2005 *Doctor of Veterinary Medicine (D.V.M.)*
Ministry of Agriculture, Forestry & Fisheries, Tokyo, Japan

2005 - 2012 *Doctor of Philosophy in Developmental Biology (Ph.D.)*
Baylor College of Medicine (BCM), Houston, Texas, U.S.A.
Thesis Title: "Novel Insights into the Notch Signaling Pathway through Forward Genetic Approaches: *In vivo* Analyses of *Notch* and *EHBP1* in *Drosophila*"
Advisor: Dr. Hugo J. Bellen

POSTGRADUATE TRAINING

2012 - 2013 *Postdoctoral Fellow*
Department of Molecular & Human Genetics, BCM, Houston, Texas, U.S.A.
Project Title: "Integration of *Drosophila* Phenotypic Screening and Human Whole-Exome Sequencing Datasets to Identify and Study Novel Human Disease Genes"
Advisors: Dr. Hugo J. Bellen [In close collaboration with the Baylor-Hopkins Center for Mendelian Genomics (led by Dr. James R. Lupski) and Human Genome Sequencing Center (led by Dr. Richard Gibbs) at BCM]

ACADEMIC APPOINTMENTS

2013 – 2016 *NRI Fellow (Independent Research Position)*, Jan and Dan Duncan Neurological Research Institute (NRI), Texas Children's Hospital (TCH)

2014 – 2016 *Assistant Professor (non-tenure track)*, Department of Molecular & Human Genetics (primary), Graduate Program in Developmental Biology, BCM

2017 – 2024 *Assistant Professor (tenure track)*, Department of Molecular & Human Genetics (primary), Department of Neuroscience (secondary), Graduate Programs in Genetics & Genomics, Developmental Biology, Neuroscience and DDMT, BCM

2017 – present *Investigator*, NRI, TCH

2024 – present *Associate Professor (tenured)*, Department of Molecular & Human Genetics (primary), Department of Neuroscience (secondary), Graduate Programs in Genetics & Genomics, Developmental Biology, Neuroscience and DDMT, BCM

HONORS AND AWARDS

2005 "Dean's Award for Excellence", Graduate School of Biomedical Sciences (GSBS), BCM

2010 "Mavis P. Kelsey Student Speaker Award", 22nd Annual Graduate Studies Symposium, BCM

2011 "Milton Gregory Poster Award, First place", 23rd Annual Graduate Studies Symposium, BCM

2013 "Best Student Paper Award", Department of Molecular & Human Genetics, BCM

2018 "Nancy Chang, Ph.D. Award for Research Excellence", BCM

2020 "Rolanette & Berdon Lawrence Family Achievement Award in Genetics", BCM

2021 "Best Course Award for Graduate Program in Genetics & Genomics", a recognition for co-directing the *Method and Logic* Course in AY2021, GSBS, BCM

2022 "Outstanding Lecturer Award for Graduate Program in Genetics & Genomics", GSBS, BCM

2022 "Marc Dresden Excellence in Education Award", GSBS, BCM

2023 "Young Alumnus Award", Alumni Executive Committee, BCM

2024 Nominee for "2024 RARE Champion in Research Award", Global Genes

"Johannes Ludwig Janson Award", Alumni Association, University of Tokyo Veterinary Medical School

2025 "Genetics Society of America Early Career Medal", Genetics Society of America (GSA)

2025 "2025 UJA Science Outreach Award", United Japanese researchers Around the world (UJA)

2025 "Kenneth Scott Outstanding Mentorship Award", Department of Molecular & Human Genetics, BCM

2025 "Best Course Award for Graduate Program in Genetics & Genomics", a recognition for co-directing a Ph.D.-level Course in AY2024-2025, GSBS, BCM

2025 "2025 NISTEP Selection", National Institute of Science and Technology Policy (NISTEP, Japan)

TEACHING RELATED ACTIVITIES

GRADUATE PROGRAM LEADERSHIP

2020-present Member, Program Executive Committee. Genetics & Genomics Ph.D. Program, BCM.
2021-2023 Co-Director, Curriculum Committee, Genetics & Genomics Ph.D. Program, BCM.
2021-present Member, Curriculum Committee, GSBS, BCM.
2022-present Associate Director, Genetics & Genomics Ph.D. Program, BCM.
2023-present Member, Student Services Committee, GSBS, BCM.
2024-present Director, Curriculum Committee, Genetics & Genomics Ph.D. Program, BCM.

COURSE DIRECTOR/CO-DIRECTOR (GRADUATE EDUCATION LEVEL)

2020-present *Model Systems in Developmental Biology and Disease,* Ph.D. level course, BCM.
Co-Director with Dr. Ross Poché.
2021-present *Genetics & Genomics Journal Club*, Ph.D. level course, BCM.
Co-Director with Dr. Hamed Jafar-Nejad.

2021-present *Methods and Logic*, Ph.D. level course, Ph.D. level course, BCM.
Co-Director with Dr. Ross Poché.

LECTURES & DISCUSSION FACILITATION (GRADUATE EDUCATION LEVEL)

2007-2018 *Classical Developmental Biology*, Ph.D. level course. Three lectures. BCM
2014-2018 *Developmental Biology Journal Club*. Ph.D. student course. One-two sessions. BCM
2016-2023 *Neural Development*, Ph.D. level course. Three lectures. BCM
2016-present *Responsible Conduct of Research (Ethics) training*, Ph.D. level course. One lecture. BCM
2016-present *Neuro Lab II,* Ph.D. level course. One lecture and one lab. BCM
2017-2022 *Anatomy of the Nervous System,* Ph.D. level course. One lecture and one lab. BCM
2017 *Genetics Ethics Session*. M.D. level course. One discussion session. BCM
2017-present *Genetics Journal Club*. Ph.D. level course. Three terms/tear. BCM
2017-present *Responsible Conduct of Research (Ethics) training*, Postdoc level course. One lecture. BCM
2017-present *Methods and Logic*, Ph.D. level course. Four lectures & discussion sessions/year. BCM
2019 *TBMM Bench to Bedside-Neurodegeneration Journal Club*. Ph.D. level course. One discussion session, BCM
2019-2020 *Powerful Presentations*, Ph.D. level course. Three lectures + 1:1 student meetings. BCM
2019-2023, 2025 *Concepts in Genetics & Genomics*, Ph.D. level course. One lecture. MD Anderson Cancer Center
2020-present *Model Systems in Developmental Biology and Disease.* Ph.D. level course. Four lectures. BCM
2020 CNS Diseases (BIOH 441), B.S. level course. One lecture, University of Montana
2021-2024 *Animal Models of Human Disease*, Ph.D. level course. One lecture. BCM
2022 *CTR-CAQ Lecture Series*, Clinical Translational Research Certificate of Added Qualification, Ph.D. level course. One lecture. BCM
2025-2026 *Introduction to Genetics & Genomics Research (MEGNT 553)*, M.D. level course. One lecture. BCM

LECTURES (POST-GRADUATE EDUCATION LEVEL)

2023-2024 *Evaluation of Undiagnosed and Rare Condition*, CME Credit Course (ABMS/ACGME), One lecture. Harvard Medical School https://cmecatalog.hms.harvard.edu/evaluation-undiagnosed-and-rare-conditions
2025 *Diagnóstico genético de las enfermedades raras (Genetic diagnosis of rare diseases)*, Training Course for Health Professionals, One lecture. Red de Expertos en Salud de Enfermedades Raras (RIBERSER, a.k.a Iberoamerican Health Expert Network for Rare Diseases) https://intercoonecta.aecid.es/programaci%C3%B3n-de-actividades/diagn-stico-gen-tico-de-las-enfermedades-raras
2026 *Evaluation of Undiagnosed and Rare Condition*, Training Course for Healthcare Providers One lecture. Undiagnosed Diseases Network https://undiagnosed.hms.harvard.edu/events/course/

TEACHING ASSISTANT

2003 *Animal Resource Sciences*, DVM student Course, The University of Tokyo
2006 *Genetics A*, PhD student course, BCM

EDITORIAL & OTHER SCIENTIFIC/ACADEMIC ACTIVITIES

Peer-reviewed Manuscripts for: *Acta Neuropathologica Communications*; *American Journal of Human Genetics (AJHG); Antioxidants; Biochimica et Biophysica Acta (BBA) Molecular Cell Research; Bioinformatics; Cell; Cell*

& Bioscience; Cell Death & Differentiation; Cell Reports; Cell Stress; Clinical and Translational Medicine; Current Biology; Circulation; Development; Developmental Biology; Developmental Cell; Disease Models and Mechanisms; eBioMedicine; eLife; European Journal of Medical Genetics (EJMG); Experinmental Cell Research; Experinmental Neurology; Frontiers in Cell and Developmental Biology; Frontiers in Immunology; Genes, Genomes, Genetics (G3); Genetics; Genetics in Medicine; Genetics in Medicine Open; Genes & Development; Genome Biology; Genome Research, Heliyon; Human Molecular Genetics, Human Mutation; International Journal of Molecular Sciences (IJMS), iScience; Journal of Alzheimer's Disease; Journal of Cell Biology (JCB); Journal of Cell Science (JCS); Journal of Neurodevelopmental Disorders; Journal of Neuroscience; Journal of Visualized Experiments (JoVE); Metallomics; Mitochondrion; Molecular Psychiatry, Mutation Research; Nature Cell Biology; Nature Communications; Nucleic Acid Research; PLoS Biology; PLoS Genetics; PLoS One; Proceedings of the National Academy of Sciences (PNAS); *Rare*; *Review Commons; Science Signaling; Scientific Reports*; and *Traffic.*

Peer-reviewed Grants for: *Agency for Medical Research and Development* (Japan, 2019); *Biotechnology and Biological Sciences Research Council* [United Kingdom (UK), 2016, 2019]; *Cerebral Palsy Alliance Research Foundation* (Australia, 2019); CURE Epilepsy (USA, 2026); *Czech Science Foundation* (Czech Republic, 2020); *Department of Defense(DOD)- Congressionally Directed Medical Research Programs (CDMRP) Rare Cancer Research Program (RCRP) Concept-Thoracic Cancers (CON-TC) Peer Review Panel* (USA, 2025), *European Research Counsel* (European Commission, 2022); *Deutsche Forschungsgemeinschaft* (Germany, 2026); *Gulf Coast Consortia* (USA, 2019); *Human Frontier Science Program* (International, 2023 & 2024), *Israel Science Foundation* (Israel, 2021); *Medical Research Council* (UK, 2017, 2022); *National Institutes of Health(NIH)- Cellular and Molecular Neurodegeneration (CMND) Study Section* (USA, 2021 & 2023); *NIH-Genetics of Health and Disease (GHD) Study Section* (USA, 2024, 2025); *Swiss National Science Foundation* (Switzerland, 2022, 2023, 2024); *UK Research and Innovation* (UK, 2024), and *United States-Israel Binational Science Foundation* (USA & Israel, 2024).

Associate Faculty Member, Faculty of 1000 (F1000) (2011-2019)

Chair, Gordon Research Seminar "*Notch Signaling in Development, Regeneration and Disease*", Gordon Research Conferences (2014)"

Editor of the book "*Notch Signaling- Methods and Protocols*", Editors: Hugo J. Bellen and Shinya Yamamoto, Humana Press/Springer (2014)

SFARI Investigator, Simons Foundation Autism Research Initiative (2015-2018)

Co-Director, Model Organisms Screening Center *Drosophila* Core, Undiagnosed Diseases Network (UDN) (2015-present)

Guest Editor of the "*Notch Signaling* (in Japanese)" issue of *Jikken Igaku* (*Experimental Medicine*), Editors: Shinya Yamamoto and Mitsuru Morimoto, Yodosha (Japan) (2016)

Platform Judge for "*29th Annual BCM Graduate Student Research Symposium Speaker Award*" (2017)

Member, Seminar Committee, Department of Neuroscience, BCM (2017-2023)

Member, Functional Study Working Group, Undiagnosed Diseases Network International (2018-present)

Scientific Member, Undiagnosed Diseases Network International (2019-present)

Workshop Chair, Annual *Drosophila* Research Conference, Genetics Society of America (2019)

Chair, Functional Study Working Group, Undiagnosed Diseases Network International (2020-present)

Workshop Chair, The Allied Genetics Conference (TAGC2020), Genetics Society of America (2020)

Workshop Chair, The 43rd Annual Meeting of the Molecular Biology Society of Japan, (2020)

Member, GSA Award Committee, Genetics Society of America (2020-2023)

Guest Editor of the special issue "Role of *Drosophila* in Human Disease Research" and "Role of *Drosophila* in Human Disease Research 2.0", *International Journal of Molecular Sciences* (2020-2021)

Guest Editor of the commentary article collection "Impact of COVID-19 on scientific research and graduate education in the USA and Europe (in Japanese)", *Jikken Igaku* (*Experimental Medicine*), Yodosha (Japan) (2021)

Editorial Board Member, *Rare*, Elsevier (the Netherlands) (2023-present)

Guest Editor of the article collection "Maximizing your research training abroad (in Japanese)", *Jikken Igaku* (*Experimental Medicine*), Yodosha (Japan) (2023)

Co-Chair, Executive Committee and Steering Committee, UDN (2023-2025)

Editorial Supporter, *Jikken Igaku* (*Experimental Medicine*), Yodosha (Japan) (2024-2025)

Co-Chair, UDN Environmental Triggers Workshop, NIH (NINDS & NHEIS) (2024)

Lead author and editor of the book "A practical guide to conducting research abroad (in Japanese)", Authors: Shinya Yamamoto and Daisuke Nakada, Yodosha (Japan) (2024)

Editor, *Disease Models & Mechanisms*, Company of Biologists (UK) (2025-present)

Member, Awards Committee, BCM Alumi Association (2025-present)

Member, Faculty Committee on Awards, BCM (2025-present)

Member, Proposal Review Committee, Department of Molecular & Human Genetics, BCM (2025-present)

FUNDING

CURRENT SUPPORT

U54 OD030165 (ORIP) Heaney/Lee/Milosavljevic/**Yamamoto** (PD/PI) 9/15/2020-8/31/2030
The major goal of this project is to establish a BCM Center for Precision Medicine Models, which will support local, national, and international programs and individual researchers in the development of precision animal models that end the diagnostic odyssey of patients with undiagnosed, rare, and Mendelian diseases and serve as resources for pre-clinical studies investigating personalized medicine approaches to their care.
Role: MPI

RF1 AG071557 (NIA) **Yamamoto** (PD/PI) 5/1/2021-4/30/2027
The major goal of this proposal is to study the function of TM2D3 and its related genes in the context of Alzheimer's disease pathogenesis in Notch signaling.
Role: PI

#2023-32824 (CHAN ZUCKERBERG INITIATIVE) Gibbs/King/Bellen (PD/PI) 08/01/2023 - 07/31/2027
The major goal of this subcontract is to provide diagnosis and study mechanisms of rare undiagnosed pediatric disorders at Texas Children's Hospital.
Role: Co-I

Mark A. Wallace Endowment Award (Texas Children's Hospital) **Yamamoto** (PI) 7/1/2025 - 6/30/2027

This internal funding is used to study the role of KCJN2 in psychiatric diseases using *Drosophila*.
Role: PI

Raynor Funds (Texas Children's Hospital) **Yamamoto** (PI) 7/1/2025-6/30/2027
This philanthropic fund is used to support functional studies in *Drosophila* to study variants and genes of uncertain significance found in patients with rare and undiagnosed diseases.
Role: PI

R21OD038417 (ORIP) **Yamamoto** (PD/PI) 7/15/2025-6/30/2027
The major goal of this project is to sequence and map ~700 EMS-induced lethal mutants on the *Drosophila* X-chromosome using the state-of-the-art-genomic and genetic technology. These mutants were left unmapped from the X-chromosome screen project (Yamamoto et al., 2014) and this collection is known to be enriched for mutants that affect evolutionarily conserved genes that are linked to rare diseases in human.

#2025-367725 (CHAN ZUCKERBERG INITIATIVE) LIU (PD/PI) 11/01/2025 - 10/31/2027
The major goal of this grant is to on project Benchmarking for Variant Interpretation to generate high-quality, real-world training and benchmarking datasets for interpreting rare disease variants and to extend and enhance AI MARRVEL into a more scalable, comprehensive variant prioritization platform.
Role: Co-PI

U2C NS132415-04S01 subaward (NINDS) Kohane (PD/PI) 04/01/2026 - 03/31/2027
The major goal of this subcontract is to pursue functional studies in *Drosophila* to support the diagnostic mission of the Phase III UDN.
Role: Co-I

Anonymous fund (Texas Children's Hospital) **Yamamoto** (PI) 1/1/2026-12/31/2028
This philanthropic fund from an anonymous doner to the Jan and Dan Duncan Neuorological Reseearch Institute is designed to facilitate the study the functions of new candidate genes and variants that are linked to neurodevelopmental and neurodegenerative diseases using *Drosophila*.
Role: PI

PAST SUPPORT

Nakajima Foundation Fellowship (Nakajima Foundation) **Yamamoto** (Fellow) 5/1/2005-4/30/2010
This competitive fellowship is awarded to 3-4 Japanese students annually to pursue graduate studies in the life science field in a foreign country. Fellows receive a generous stipend for 5 years.
Role: Pre-Doctoral Fellow

NRI Fellowship (Texas Children's Hospital) **Yamamoto** (PI) 3/1/2013-2/28/2017
The NRI Fellowship is designed to recruit and support candidates that have just received their final degrees (Ph.D.) to start up an independent laboratory at the Jan and Dan Duncan Neurological Research Institute (NRI) at TCH. This support was used to perform a forward genetic screen to identify new genes involved in Dopamine synthesis, secretion, and metabolism in *Drosophila*.
Role: PI

R13 HD080297-01 (NCI & NICHD) Blacklow (PI) 5/10/2014-4/30/2015
This grant supported a Gordon Research Conference (GRC) and Seminar (GRS) on "Notch Signaling in Development, Regeneration & Disease" held in July 19-25, 2014 at Bates College, Maine.
Role: Chair of GRS.

Targeted-Functional Screen of Autism-Associated Variants Award
(Simons Foundation) Wangler/**Yamamoto** (Co-PIs) 8/1/2015-7/31/2018

The major goal of this project is to perform functional analyses of rare variants in conserved Autism genes found in the Simons Simplex Cohort using *Drosophila*.
Role: Co-PI

U54 NS093793 (NINDS & CommonFund). Bellen (PD/PI) 9/15/2015-6/30/2023
The major goal of this project is to establish and operate a Model Organisms Screening Center (MOSC) that will provide valuable *in vivo* functional information of conserved genes that are likely to be involved in rare human diseases by performing genetic experiments in *Drosophila* and Zebrafish as part of the larger Undiagnosed Disease Network (UDN).
Role: Co-I of overall, Project Lead of *Drosophila* Core

New Investigator Research Grant (Alzheimer's Association) **Yamamoto** (PI) 10/1/2015-9/30/2017
The major goal of this project is to understand the functional effect of a late-onset Alzheimer's disease associated variant in *TM2D3* using *Drosophila*. **Role: PI.**

R24 OD022005 (ORIP) Bellen (PD/PI) 06/01/2016 - 05/31/2025 (NCE)
The goal of this study is to generate a large library of human cDNA expressing constructs and transgenic *Drosophila* strains to facilitate the use of fruit flies in biomedical research.
Role: Co-I

R01 DC014932 (NIDCD) Groves (PI) 12/1/2016-11/30/2022
The goal of this proposal is to study the role of the ubr3 gene in regulating proteins involved in usher syndrome, the most common form of deaf-blindness, and myh9-related disease syndromes that can also cause deafness. In addition, we will perform genetic screens to identify additional genes involved in hearing in insects and mice.
Role: Co-I

Junior Faculty Seed Funding Award (Naman Family Fund for Basic Research and Caroline Wiess Law Fund for Research in Molecular Medicine) **Yamamoto** (PI) 07/01/2017-06/30/2018
The major goal of this project is to understand the function of proteins and non-coding RNAs encoded in the Zika viral genome using *Drosophila* to understand the mechanism by which this virus cause microcephaly in humans.
Role: PI

Nancy Chang, Ph.D. Award for Research Excellence **Yamamoto** (PI) 07/01/2019-06/30/2020
The major goal of this project is to understand the function of TM2D family proteins in the context of Notch signaling and late-onset Alzheimer's disease using *Drosophila*.
Role: PI

U01 HG007530-07 subaward (NHGRI) Kohane/McCray/Might (PD/PI) 7/1/2020-6/30/2021
The major goal of this administrative supplement is to study the function of *GLS*, a gene identified as a in the Undiagnosed Disease Network as a disease-causing gene, using *Drosophila*.
Role: Project Lead

U54 NS093793-06S1 (NINDS) Bellen (PD/PI) 7/01/2020-6/30/2021
The major goal of this administrative supplement is to establish a global matchmaking system between scientist and clinicians called ModelMatcher to facilitate rare and undiagnosed disease research.
Role: Project Lead

R24 OD022005-05S1 (ORIP) Bellen (PD/PI) 07/01/2020 - 06/30/2022
The major goal of this administrative supplement is to establish a genetic tool kit of SARS-CoV-2 and human cDNAs to study the functional interaction of host-protein proteins involved in COVID-19.

Role: Co-I

U54 NS093793-07S1 (NINDS) Bellen (PD/PI) 7/01/2021-6/30/2022
The major goal of this administrative supplement is to increase the utility of MARRVEL and ModelMatcher by integrating these two online resources to facilitate rare and undiagnosed disease research.
Role: Project Lead

RESEARCH AWARD (SATB2 Gene Foundation) **Yamamoto** (PD/PI) 12/1/2021-2/28/2023
The major goal of this project is to study the function of pathogenic variants identified in SATB2-associated syndrome and to further functionally characterize the role of this gene in the nervous system using *Drosophila*.
Role: PI

R24 OD022005-07S1 (ORIP) Bellen (PD/PI) 06/01/2022-05/31/2025 (NCE)
The major goal of this administrative supplement is to expand and characterize a genetic tool kit of SARS-CoV-2 and human cDNAs to study the functional interaction of host-protein proteins involved in COVID-19.
Role: Co-I

U54 NS093793-07S2 (NINDS & CommonFund). Bellen (PD/PI) 7/1/2022-6/30/2023
The major goal of this project is to continue to perform genetic experiments in *Drosophila* and Zebrafish in the Model Organisms Screening Center (MOSC) to support the mission of the larger Undiagnosed Disease Network (UDN).
Role: Co-I of overall, Project Lead of *Drosophila* Core

U2C NS132415-01S01 subaward (NINDS) Kohane (PD/PI) 07/01/2023 - 03/31/2024
The major goal of this subcontract is to pursue functional studies in *Drosophila* to support the diagnostic mission of the Phase III UDN.
Role: Co-I

U2C NS132415-02S01 subaward (NINDS) Kohane (PD/PI) 04/01/2024 - 03/31/2025
The major goal of this subcontract is to pursue functional studies in *Drosophila* to support the diagnostic mission of the Phase III UDN.
Role: Co-I

U2C NS132415-03S01 subaward (NINDS) Kohane (PD/PI) 04/01/2025 - 03/31/2026
The major goal of this subcontract is to pursue functional studies in *Drosophila* to support the diagnostic mission of the Phase III UDN.
Role: Co-I

R01 HG011795 (NHGRI) Bellen/Wangler (PD/PI) 7/13/2021-4/30/2026
The major goal of this project is to facilitate the implementation of genomic medicine in a medically underserved population by combining the latest clinical diagnostics, bioinformatics and *Drosophila* genetics tools in a clinical setting.
Role: Co-I

#2023-332162 (CHAN ZUCKERBERG INITIATIVE) **Yamamoto** (PD/PI) 11/01/2023 - 10/31/2026
The major goal of this grant is to further develop MARRVEL, AI-MARRVEL and ModelMatcher to facilitate diagnosis and collaborative research for rare diseases.
Role: PI

PUBLICATIONS

ARTICLES PUBLISHED & IN PRESS (CHRONOLOGICAL ORDER)

1. Qin J, Takahashi Y, Imai M, **Yamamoto S**, Takakura K, Noda Y, Imakawa K (2003) Use of DNA array to screen blastocyst genes potentially involved in the process of murine implantation. ***Journal of Reproduction and Development***, 49(6):473-484. PMID: 14967898, PMCID: N/A.

2. Qin J, Takahashi Y, Isuzugawa K, Imai M, **Yamamoto S**, Hirai Y, Imakawa K (2005) Regulation of embryo outgrowth by a morphogenic factor, epimorphin, in the mouse. ***Molecular Reproduction and Development***, 70:455-463. PMID: 15685636, PMCID: N/A.

3. Qin J, Diaz-Cueto L, Schwarze JE, Takahashi Y, Imai M, Isuzugawa K, **Yamamoto S**, Chang KT, Gerton GL, Imakawa K (2005) Effects of progranulin on blastocyst hatching and subsequent adhesion and outgrowth in the mouse. ***Biology of Reproduction***, 73:434-442. PMID: 15901638, PMCID: N/A.

4. **Yamamoto S**, Isuzugawa K, Takahashi Y, Murase Y, Iwata M, Arisawa T, Nakano H, Nishimura N, Yamato S, Ohta M, Ina K, Murata T, Hori M, Ozaki H, Imakawa K (2005) Intestinal gene expression in TNBS treated mice using genechip and subtractive cDNA analysis: implications for Crohn's disease. ***Biological and Pharmaceutical Bulletin***, 28:2046-2053. PMID: 16272687, PMCID: N/A.

5. Takahashi Y, Isuzugawa K, Murase Y, Imai M, **Yamamoto S**, Iizuka M, Akira S, Bahr GM, Momotani E, Hori M, Ozaki H, Imakawa K (2006) Up-regulation of NOD1 and NOD2 through TLR4 and TNF-alpha in LPS-treated murine macrophages. ***The Journal of Veterinary Medical Science***, 68:471-478. PMID: 16757890, PMCID: N/A.

6. Andrews HK, Giagtzoglou N, **Yamamoto S**, Schulze KL, Bellen HJ (2009) Sequoia regulates cell fate decisions in the external sensory organs of adult *Drosophila*. ***EMBO Reports***, 10:636-641. PMID: 19444309, PMCID: PMC2711842.

7. **Yamamoto S***, Charng W-L*, Bellen HJ (2010) Endocytosis and intracellular trafficking of Notch and its ligands. ***Current Topics in Developmental Biology***, 92: 165-200 **(*equal contribution)**. PMID: 20816395, PMCID: PMC6233319.

8. Giagtzoglou N*, **Yamamoto S***, Zitserman D, Graves HK, Schulze KL, Wang H, Klein H, Bellen HJ (2012) dEHBP1 controls exocytosis and recycling of Delta during asymmetric divisions. ***Journal of Cell Biology***, 196: 65-83 **(*equal contribution)**. PMID: 22213802, PMCID: PMC3255984.

9. **Yamamoto S**, Charng W-L, Rana NA, Kakuda S, Jaiswal M, Bayat V, Xiong B, Zhang K, Sandoval H, David G, Wang H, Haltiwanger RS, Bellen HJ (2012) A mutation in EGF repeat of Notch discriminates between Serrate/Jagged and Delta ligand families. ***Science***, 338: 1229-1232. PMID: 23197537, PMCID: PMC3663443.

10. Xiong B, Bayat V, Jaiswal M, Zhang K, Sandoval H, Charng W-L, Li T, David G, Haueter C, **Yamamoto S**, Bellen HJ (2012) Crag, a GEF for Rab11, is required for rhodopsin trafficking and the maintenance of *Drosophila* photoreceptor cells. ***PLoS Biology***, 10: e1001438. PMID: 23226104, PMCID: PMC3514319.

11. Zhang K, Li Z, Jaiswal M, Bayat V, Xiong B, Sandoval H, Charng W-L, David D, Haueter C, Graham BH, **Yamamoto S**, Bellen HJ (2013) The C8ORF38 homologue Sicily is a cytosolic chaperone for a mitochondrial complex I subunit. ***Journal of Cell Biology***, 200:807-820. PMID: 23509070, PMCID: PMC3601355.

12. **Yamamoto S**, Bayat B, Bellen HJ, Tan C (2013) Protein Phosphatase 1ß limits ring canal constriction during *Drosophila* germline cyst formation. ***PLoS One***, 8:e70502. PMID: 23936219, PMCID: PMC3723691.

13. Giagtzoglou N, Li T, **Yamamoto S**, Bellen HJ (2013) dEHBP1 regulates Scabrous secretion during Notch mediated lateral inhibition. ***Journal of Cell Science***, 126:3686-3696. PMID: 23788431, PMCID: PMC3744027.

14. **Yamamoto S**, Bellen HJ (2014) Preface: Notch Signaling. ***Methods in Molecular Biology***, 1187:v. PMID: 25187920, PMCID: N/A.

15. **Yamamoto S†**, Schulze KL, Bellen HJ† (2014) Introduction to Notch signaling. ***Methods in Molecular Biology***, 1187:1-14. PMID: 25053477, PMCID: N/A. **(†corresponding authors)**.

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ARTICLES IN REVISION, SUBMITTED & IN PREPARATION

117. Butler DF, Yuan W, Hashimoto H, Hoang H, Sheehan JH, Gomez V, Rosenfeld JA, Burrage LC, Silverman GA, Dickson P, Moeller KK, Emrick L, Ganapathi M; Undiagnosed Diseases Network; Baldridge D, Kanca O, Bacino C, Lee B, Bellen HJ, **Yamamoto S**, Chung WK, Schedl T, Wangler M, Yoo A, Pak SC (2026) Cross-species functional analysis of a de novo DCLK1 variant associated with a neurodevelopmental disorder. In revision for ***Nat Commun***. Preprint uploaded to ***Res Sq*** (doi: 10.21203/rs.3.rs-10425123/v1. PMID: 42539103).

118. Tumiene B, David AR, Allaway R, Barrero MJ, Chan C-H, Faundes V, Fear VS, Glezer P, Fuchs C, Groza T, Houwink EJF, Jamuar SS, Letinturier MCV, Lomash RM, Puri RD, Reichardt JKV, Shai R, van der Westhuizen F, Varshney GK, **Yamamoto S**, Tataru E-A, Baynam G (2026) The roadmap for the development of the Human Variome - Development of functional multi-omics analyses for the understanding of human biology. Preprint uploaded to ***zenodo*** (doi: 10.5281/zenodo.21980384)

119. **Yamamoto S*†**, Kanca O*, Wan KH, Johnson TK, Hashimoto H, Huang M-C, Graves HK, Bhavana VH, Pan H, Bei D, Jangam S, Bhadane P, Park SI, Fisher WW, Takashima Y, Ravani S, Tomaru M, Ohsako T, Wangler MF, Warr C, Takano-Shimizu T , Celniker SE**†**, Bellen HJ**†** (2026) A resource of Drosophila transgenic and mutant lines to study genetic variants in human protein coding genes. In review in ***PNAS***. **(*equal contribution, †corresponding authors)**.

120. Oka M, Imura E, Dupont J, Duraine L, Kanca O, Yamanaka N, **Yamamoto S†** (2026). A *Drosophila* model of *BUD13*-related progeroid syndrome reveals a previously unrecognized steroid hormone defect in human. In preparation. **(†corresponding author)**.

-Complete list of published work in PubMed can be found in the following ***NCBI MyBibliography*** page:
https://www.ncbi.nlm.nih.gov/myncbi/1XUsbagdutxAi/bibliography/public/

-Publications curated in ***Google Scholar*** can be found here:
https://scholar.google.com/citations?user=GCbIDKwAAAAJ

-In addition, Shinya Yamamoto is listed as a consortium member/collaborator on the following additional papers published from the 'Undiagnosed Diseases Network', 'Baylor College of Medicine Center for Precision Medicine Models' and 'Texome Project' in PubMed.

PMIDs: 41655254 (***Adv Sci (Weinh)***), 41411404 (***AMA J Ethics***), 27693232, 28132692, 28157539, 30773277, 31155284, 31327508, 31585109, 32197074, 33508234, 34450031, 34529933, 37451268, 37467750, 37541189, 37622199, 38181735, 38348595, 38387458, 38508193, 38531365, 38593811, 38723631, 38749428, 38834072, 39106866, 39706195, 39798569, 39978342, 40043707, 40088891, 40975062, 41075783, 41468891 (***Am J Hum Genet***), 33184947, 33438828, 33847457, 33949769, 34042254, 34668327, 37246601, 37622199, 37743782, 37897121, 38168088, 38511854, 38613168, 38924341, 39166407, 39166428, 39333051, 39400494, 39629753, 40317671, 40838347, 40936200 (***Am J Med Genet A***), 40780579 (***Am J Ophthalmol***), 37194416, 38311799, 38504481 (***Ann Clin Transl Neurol***), 34185323, 41257467 (***Ann Neurol***), 35868845 (***Ann Rheum Dis***), 39825393 (***BioData Min***), 31443933 (***Biol Psychiatry***), 30134969 (***BMC Health Serv Res***), 31615419 (***BMC Bioinformatics***), 38279154 (***BMC Genomics***), 41239373, 41491999 (***BMC Med Genomics***), 32761064, 36718090 (***Brain***), 35218524 (***Cerebellum***), 39963794 (***Circ Res***), 33963760, 40931319 (***Clin Genet***), 31299614 (***Clin Imaging***), 29970384, 33811063 (***Cold Spring Harb Mol Case Stud***), 37565267 (***Dis Model Mech***), 40862571 (***ELife***), 40859057 (***EMBO Mol Med***), 30682224 (***Epilepsia***), 37500725, 38467731, 38965372, 41145827, 41606215 (***Eur J Hum Genet***), 33724412 (***Genetics***), 28914269, 29907797, 30568308, 33093671, 33239752, 33580225, 33833410, 34163037, 34230636, 35482014, 3641303, 37191094, 37947183, 38431799, 38436216, 38767059, 38967101, 39891528, 40417743, 40576023, 41121346, 41653023 (***Genet Med***), 39486878, 40113264 (***Genome Res***), 41808409 (***HGG Adv***), 33944996, 38451290 (***Hum Genet***), 35913761, 37552066, 41467504 (***Hum Mol Genet***), 31264822, 33239752, 33580225 (***Hum Mutat***), 33630084, 40844783 (***JAMA Netw Open***), 33771552 (***J Allergy Clin Immunol***), 34009343 (***J Am Med Inform Assoc***), 35998814 (***J Biomed Inform***), 38780621 (***J Exp Med***), 30706981, 30964584, 33108040, 34096130, 34115423, 34374469, 37005744 (***J Genet Couns***), 39723123 (***JIMD Rep***), 35621276, 40563223 (***J Inherit Metab Dis***), 35318459 (***J Hum Genet***), 37316189, 39643435 (***J Med Genet***), 37271495 (***J Pediatr***), 36984839 (***Metabolites***), 34702355 (***Mol Autism***), 30993913, 33159716, 33350591, 33955715, 33960148, 35247231, 41407309 (***Mol Genet Genomic Med***), 34412939, 35144859, 37883914, 39742826, 40215727, 41232198 (***Mol Genet Metab***), 39435313 (***Mol Genet Metab Rep***), 37828001, 38413582, 39107278, 39174524, 39256359, 40770127 (***Nat Commun***), 34211179 (***Nat Genet***), 33664507, 31160820 (***Nat Med***), 37653044 (***Nat Metab***), 40788430 (***Neurogenetics***), 37560121, 39880924 (***Neurol Genet***), 40542121 (***NPJ Digit Med***), 36765070 (***NPJ Genom Med***), 28416019, 33971915, 36624503, 37032333, 37667351, 39543639 (***Orphanet J Rare Dis***), 39181022 (***Pediatr Neurol***), 40982570 (***PLoS Comput Biol***), 37934770 (***PLoS Genet***) 31439813 (***Postgrad Med J***), 39435313, 41438096 (***Rare***), 33268356, 33523931 (***Sci Adv***), 33883556 (***Sci Data***).

ORAL PRESENTATIONS

2008 "*Drosophila* EH Domain Binding Protein 1 is required for Notch signaling during external sensory organ development", BCM Program in Developmental Biology Annual Retreat, Cleveland, TX. (2008/02/23)

2009 "Identification of Novel Genes Involved in Neural Development, Physiology and Pathology on the *Drosophila* X chromosome through an F3 Forward Genetic Screen", BCM Program in Developmental Biology Annual Retreat, Galveston, TX. (2009/02/20)

2010 "Different EGF-repeats of Notch have Distinct Biological Functions: *in vivo* Structure Function Analysis of the *Drosophila* Notch Receptor", BCM Program in Developmental Biology Annual Retreat, Galveston, TX. (2010/02/12)

"Distinct modes of Notch signaling are mediated by different EGF repeats of Notch", 22nd Annual Graduate Studies Symposium, BCM, Houston, TX. (2010/10/28)

2011 "An Evolutionally Conserved Valine in EGF repeat 8 of Notch is Involved in Ligand Specificity", The Notch Meeting V, Athens, Greece. (2011/10/04)

"Novel Insights into the Notch Signaling Pathway though a Forward Genetic Screen on the *Drosophila* X Chromosome", Developmental Biology Unit, EMBL (Host: Dr. Anne Ephrussi), Heidelberg, Germany. (2011/09/30)

2012 "Identification of novel Notch alleles that affect intracellular trafficking", The Notch Meeting VI, Athens, Greece. (2012/10/01)

"Learning new things about an old gene: *in vivo* structure function analysis of Notch through a forward genetic approach", Developmental Biology Program, Memorial Sloan-Kettering Cancer Center (Host: Dr. Jennifer A Zallen), New York, NY. (2012/08/03)

2013 "Screening for key genes in nervous system development, function and maintenance", RIKEN Brain Science Institute (Host: Dr. Adrian Moore), Wako, Japan. (2013/04/10)

"Screening for key genes in nervous system development, function and maintenance", School of Veterinary Medicine, the University of Tokyo (Host: Dr. Kazuhiko Imakawa), Tokyo, Japan. (2013/04/11)

"Screening for key genes in nervous system development, function and maintenance", Department of Pharmacology, The University of Tokyo (Host: Dr. Taisuke Tomita, Tokyo, Japan. (2013/04/12)

"Screening for key genes in nervous system development, function and maintenance", School of Medicine, Kyoto University (Host: Dr. Makoto Mark Taketo), Kyoto, Japan. (2013/04/16)

"Screening for key genes in nervous system development, function and maintenance", Department of Biological Sciences, Osaka University (Host: Dr. Kenji Matsuno), Osaka, Japan. (2013/04/17)

"Screening for key genes in nervous system development, function and maintenance", School of Medicine, Kansai Medical University (Host: Dr. Ikuko Yao), Moriguchi, Japan. (2013/04/17)

"Screening for key genes in nervous system development, function and maintenance", School of Medicine, Hamamatsu Medical University (Host: Dr. Mitsutoshi Setou), Hamamatsu, Japan. (2013/04/18)

"Screening for key genes in nervous system development, function and maintenance", Department of Life Science, Rikkyo University (Host: Dr. Satoshi Goto), Tokyo, Japan. (2013/04/19)

"*In vivo* structure-function analysis of the Notch receptor in *Drosophila*", The 36th Annual Meeting of the Molecular Biology Society of Japan, Kobe, Japan. (2013/12/04)

"Can Flies Help Us Fight Cancer?", School of Medicine, Juntendo University (Host: Dr. Misa Imai), Tokyo, Japan. (2013/12/11)

"Identification of New Genes in Notch Signaling through Forward Genetic Approaches in *Drosophila*", Department of Biological Sciences, Tokyo Metropolitan University (Host: Dr. Aigaki Toshiro), Tokyo, Japan. (2013/12/12)

2014 "Using Fruit Flies to Understand Human Diseases: A Sophisticated Tool to Unravel Molecular Mechanisms and Promote Gene Discovery", Texas Children's Hospital (Host: Dr. Jimmy Holder), Houston, TX. (2014/01/22)

"A *Drosophila* resource to study the molecular pathology of human neurological disorders" University of Cambridge (Host: Dr. Sarah Bray), Cambridge, UK. (2014/03/05)

"Integration of *Drosophila* Phenotypic Screening and Human Exome Datasets to Identify New Human Disease Genes: Towards Identification of New Notch Signaling Disorders", 2014 Gordon Research Conference: Notch Signaling in Development, Regeneration & Disease, Lewiston, ME. (2014/07/23)

"Integration of Drosophila Phenotypic Screening and Large Human Exome Datasets to Identify and Study New Human Disease Genes", Houston Fly Club Monthly Meeting, Rice University, Houston (2014/7/30).

"Using *Drosophila* to identify and study human disease genes", Center for Interdisciplinary Cardiovascular Sciences, Brigham and Women's Hospital and Harvard Medical School (Host: Dr. Masanori Aikawa), Boston, MA. (2014/10/28)

2015 "Using *Drosophila* to Identify and Study of New Human Disease Genes", BCM Program in Developmental Biology Annual Retreat, Galveston, TX. (2015/02/06)

"Using *Drosophila* to Identify and Study of New Human Disease Genes", Alberta Children's Hospital Research Institute 2015 Symposium, Calgary, Canada. (2015/04/15)

"Using *Drosophila* to Identify and Study of New Human Disease Genes", 2015 Texas Children's Hospital Seminar Series, Houston, TX. (2015/04/23)

"Using *Drosophila* to identify and study human disease genes", Houston Fly Club Monthly Meeting, Rice University, Houston (2015/8/26).

"Using *Drosophila* to Understand Notch-related Human Diseases", The Notch Meeting IX, Athens, Greece. (2015/10/06)

"Using *Drosophila* to Identify and Study Human Diseases", Venetian Institute of Molecular Medicine and University of Padova (Host: Dr. Luca Scorrano), Padova, Italy. (2015/10/12)

"Using *Drosophila* to Identify and Study Human Diseases", University of Rome-La Sapienza (Host: Dr. Maurizio Gatti), Rome, Italy. (2015/10/14)

"Using *Drosophila* to Probe the Function of Genes and Variants Associated with Human Diseases", Intellectual and Developmental Disability Research Center (IDDRC) Director's Meeting, UC Davis Medical School, Sacramento, CA. (2015/11/12)

"Functional Genomics through Integration of *Drosophila* and Human Genetics", 2015 Department of Molecular & Human Genetics Seminar Series, BCM (Host: Dr. Huda Zoghbi), Houston, TX. (2015/12/15)

2016 "Functional Genomics through Integration of *Drosophila* and Human Genetics", Department of Genetics, MD Anderson Cancer Center (Hosts: Drs. Michael Galko and George Eisenhoffer), Houston, TX. (2016/01/20)

"Functional Genomics through Integration of *Drosophila* and Human Genetics", Division of Developmental Biology, Cincinnati Children's Hospital Medical Center (Host: Dr. Raphael Kopan), Cincinnati, OH. (2016/02/09)

"Functional Genomics through Integration of *Drosophila* and Human Genetics", Institute of Systems Genetics, New York University Langone Medical Center (Host: Dr. Jef Boeke), New York, NY. (2016/02/17)

"MiMIC and CRIMIC: Introducing versatile artificial exons for gene function studies in *Drosophila*" The Allied Genetics Conference (TAGC2016, Genetics Society of America), Orlando, FL. (2016/07/16)

"National & International Collaborations to Facilitate the Diagnosis & Study of Undiagnosed Diseases", Undiagnosed Diseases Network In-Person Steering Committee Meeting, Washington, DC. (2016/07/26)

"CRIMIC: Introducing versatile artificial exons via CRISPR for gene function studies in *Drosophila*" Symposium on Genome Editing (BCM, MD Anderson, University of Texas Health Science Center at Houston, Rice University), Houston, TX. (2016/11/08)

"Genetic model organisms to study disease associated variants", The 4th Conference of Undiagnosed Diseases Network International, Tokyo, Japan. (2016/11/17)

2017 "The Baylor College of Medicine-University of Washington Model Organisms Screening Center for the Undiagnosed Diseases Network", Undiagnosed Diseases Network Grand Rounds (CME Credit Approved Lecture), Online Webinar (2017/2/8)

"Using *Drosophila* to discover new genes involved in human neurological disorders", 27th Record Neuroscience Forum, Galveston, TX. (2017/02/11)

"*Drosophila* in Undiagnosed Disease Research", 4th Asia-Pacific *Drosophila* Research Conference, Osaka, Japan. (2017/05/09)

"Using *Drosophila* to discover and study human disease genes", Kobe University Inter-Genomics Seminar Series (Host: Dr. Yoshiko Aihara), Kobe, Japan. (2017/05/12)

"Using *Drosophila* to discover and study human disease genes", RIKEN Center for Developmental Biology (Host: Dr. Mitsuru Morimoto), Kobe, Japan. (2017/05/15)

"Using *Drosophila* to discover and study human disease genes", Advanced Insect Research Promotion Center at Kyoto Institute of Technology (Host: Drs. Masamitsu Yamaguchi and Toshiyuki Takano), Kyoto, Japan. (2017/12/19)

"Using *Drosophila* to discover and study human disease genes", RIKEN Center for Life Science Technologies (Host: Dr. Piero Carninci), Yokohama, Japan. (2017/12/20)

"Using *Drosophila* to discover and study human disease genes", RIKEN Brain Science Institute (Host: Dr. Adrian Moore), Wako, Japan. (2017/12/21)

2018 "Obtaining a Ph.D. and Running an Independent Lab in the USA", University of Tokyo Veterinary Medical School. (Host: Kazuhiko Imakawa), Tokyo, Japan (2018/2/21)

"The Model Organisms Screening Center for the Undiagnosed Diseases Network", IRUD-Beyond Symposium: Model organism research for human rare diseases, Tokyo, Japan (2018/2/22)

"Using *Drosophila* to discover and study new human disease genes", Jikei University School of Medicine (Host: Hirotaka Kanuka), Tokyo, Japan (2018/3/1)

"TM2D family genes in Notch signaling and Alzheimer 's disease pathogenesis", 2018 Alzheimer's Association Research Symposium on Alzheimer's Disease & Related Dementias, Methodist Research Institute, Houston, TX (2018/5/2)

"Model organisms facilitate rare disease diagnosis and therapeutic research", Undiagnosed Diseases Network Grand Rounds (CME Credit Approved Lecture), Online Webinar (2018/6/14)

"The Model Organism Screening Center for the Undiagnosed Diseases Network", 2018 INFRAFRONTIER / IMPC Stakeholder Meeting, Munich, Germany (2018/12/3)

2019 "*Drosophila* as a discovery tool for rare human disease causing genes", University of Texas Health Science Center at Houston School of Public Health, Houston, TX (2019/1/28)

"Informatics analysis workflow at the BCM-UO UDN Model Organisms Screening Center", Tool Building Coalition Committee Meeting, Undiagnosed Diseases Network In-person Steering Committee Meeting, Washington, DC (2019/1/30)

"Phenotypic expansion of known disease causing genes identified in the Undiagnosed Disease Network", 2nd International Symposium for Model Organism Research on Human Rare Diseases, Tokyo, Japan (2019/3/4)

"Using *Drosophila* to discover and study new human disease genes", National Institute of Genetics (Host: Kuniaki Saito), Mishima, Japan (2019/3/6)

"The Undiagnosed Disease Network in the USA", Japan Agency for Medical Research and Development (AMED, Host: Yoshihiko Izumida & Noriaki Imanishi), Tokyo, Japan (2019/3/12)

"The Undiagnosed Diseases Network *Drosophila* Core", Advanced Insect Research Promotion Center at Kyoto Institute of Technology (Host: Drs. Toshiyuki Takano), Kyoto, Japan (2019/3/14)

"Workshop Organizer: Collaborating with clinical researchers -expanding opportunities for *Drosophila* biologists in rare disease diagnosis and therapeutic research", 60th Annual *Drosophila* Research Conference, Dallas, TX (2019/3/29)

"A damaging missense de novo variant in *RNF2* is associated with neurological symptoms", Undiagnosed Diseases Network Grand Rounds (CME Credit Approved Lecture), Online Webinar (2019/6/13)

"Peculiar behavior of human *NOTCH* transgenes in vivo in *Drosophila*", Poster Teaser Session, The Notch Meeting XI, Athens, Greece. (2019/10/07)

"Informatics analysis in the UDN MOSC to prioritize candidate genes and variants", INFRAFRONTIER Rare Disease Data Integration Workshop, Satellite meeting of the Annual Meeting of the American Society of Human Genetics, Houston, TX (2019/10/15)

"Damaging de novo missense variants in *TOMM70* cause a variable white matter disease with neurological phenotypes", UDN Steering Committee In-Person Meeting, Washington DC (2019/12/06)

2020 "Using *Drosophila* to discover and study new human disease causing genes", Kyoto Prefectural University of Medicine (Host: Toshiki Mizuno), Kyoto, Japan (2020/1/21)

"Using *Drosophila* to discover and study new human disease causing genes", Kyoto Institute of Technology University (Host: Toshiyuki Takano), Kyoto, Japan (2020/1/22)

"Using *Drosophila* to discover and study new human disease causing genes", Kyoto University (Host: Tatsushi Igaki), Kyoto, Japan (2020/1/23)

"Using *Drosophila* to discover and study new human disease causing genes", Osaka University (Host: Masahito Ikawa), Osaka, Japan (2020/1/24)

"Using *Drosophila* to discover and study new human disease causing genes", International University of Health and Welfare (Host: Motoo Kitagawa), Narita, Japan (2020/1/27)

"Using *Drosophila* to discover and study new human disease causing genes", Radboud UMC (Host: Annette Schenck), Nijmegen, the Netherlands (2020/2/6)

"Functional Study Working Group of the Undiagnosed Disease Network International", 8th Conference of UDNI (Undiagnosed Disease Network International), Nijmegen, the Netherlands (2020/1/27)

"Strategies and resources to facilitate direct collaborations between clinicians and model organism researchers on a global scale", TAGC2020 Online (Genetics Society of America), Virtual Conference via ZOOM (2020/4/24)

"Bringing MARRVEL to the Next Level", UDN Steering Committee Virtual In-Person Meeting, Virtual Conference via ZOOM (2020/7/30)

"Using *Drosophila* to discover and study new human disease causing genes", RARE TAMU [Student chapter of NORD (National Organization for Rare Diseases) at Texas A&M University] seminar series, Texas A&M University, Virtual Presentation via ZOOM (2020/9/15)

"Facilitating collaborations between clinicians & *Drosophilists* in the USA and around the world", MBSJ2020 Online (Molecular Biology Society of Japan), Virtual Conference (2020/12/4)

2021 "The Baylor College of Medicine-University of Washington Model Organisms Screening Center for the Undiagnosed Diseases Network", Undiagnosed Diseases Network Grand Rounds (CME Credit Approved Lecture), Online Webinar (2021/1/14)

"Using *Drosophila* to discover and study new human disease genes", Dalhousie University (Host: Jamie Kramer), Online Webinar (2021/3/10)

"The roles of *TM2D* genes in late-onset Alzheimer's disease and Notch signaling", University College London, Institute of Healthy Aging Virtual Symposium, Online Webinar (2021/3/17)

"Tools and strategies to identify new disease causing human genes and variants using *Drosophila*", 62nd Annual *Drosophila* Research Conference, Online Webinar (2021/3/29)

"ModelMatcher: a matchmaking platform for scientists and clinicians", the Alliance of Genome Resources PI meeting, Virtual Presentation via ZOOM (2021/4/9)

"Functional Study Working Group of the Undiagnosed Disease Network International", 9th Conference of UDNI (Undiagnosed Disease Network International), Virtual Presentation via ZOOM (2021/4/11)

"ModelMatcher and MARRVEL: Two integrative tools for the rare and undiagnosed diseases community", UDN PEER (Undiagnosed Diseases Network Participant Engagement and Empowerment Resource) group meeting, Virtual Presentation via ZOOM (2021/4/12)

"MARRVEL: Mining genetic and genomic data across MO and human", GSA webinar series "Exploring gene function across humans and model organisms", Genetic Society of America, Online Webinar (2021/9/20)

"New Neurological Disease Gene Discovery through Functional Studies and Matchmaking", University of Texas McGovern Medical School (Host: Kartik Venkatachalam), Houston, TX (2021/10/25)

"New Neurological Disease Gene Discovery through Functional Studies and Matchmaking", Tsukuba University (Host: Niwa Ryosuke), Online Webinar (2021/10/28)

2022 "Studying Human Notch Proteins using *Drosophila melanogaster*", Osaka University (Host: Kenji Matsuno), Online Webinar (2022/1/18)

"Using *Drosophila* to discover and study new human disease genes", Sam Houston State University (Host: Mardelle Atkins), Online Webinar (2022/3/3)

"ModelMatcher: a scientist-centric online platform for rare and undiagnosed diseases research", GREGoR Consortium Functional Study Working Group Meeting, Online Webinar (2022/3/15)

"ModelMatcher: a scientist-centric online platform for rare and undiagnosed diseases research", Matchmaker Exchange Steering Committee Meeting, Online Webinar (2022/3/16)

"The role of model organisms in the Undiagnosed Diseases Network", Future of the Undiagnosed Diseases Network Meeting, Panelist, Boston, MA (2022/7/14)

"ModelMatcher: a scientist-centric online platform for rare and undiagnosed diseases research", IMPC Rare Disease Working Group Meeting, Online Webinar (2022/7/26)

"Using *Drosophila* to discover and study new human disease genes", Florida State University (Host: Mischelle Arbeitman and Edrem Bangi), Tallahassee, FL (2022/10/12)

"Fruit flies and mice facilitate undiagnosed diseases research in the BCM CPMM", 11th UDNI Conference Scientific Meeting, Vienna, Austria (2022/11/7)

"Functional Study Working Group Report", 11th UDNI Conference Business Meeting, Vienna, Austria (2022/11/8)

2023 "Using *Drosophila* to discover and study new human disease genes), MD Anderson Cancer Center Research Exchange Lecture Series (Host: Shih-Han Lee & Peter Van Loo), Houston, TX (2023/3/22)

"Developing Informatic Tools to Facilitate Rare Disease Diagnosis and Collaborative Research", Pediatrics Research Symposium Workshop, BCM and TCH, Houston, TX (2023/4/4)

"Collaborations between scientists and clinicians facilitate undiagnosed disease research", UDNI and Wilhelm Foundation, Undiagnosed Day 2023, Online Webinar (2023/4/29)

"Functional Studies in Evaluation of Undiagnosed and Rare Conditions", Harvard Medical School Continuing Education, Online CME Credit Course (2023/5/10)

"Informatic Tool Development in the UDN MOSC to Facilitate Rare Disease Diagnosis and Research", Longwood Bioinformatics Lecture Series, Harvard Medical School, Online Webinar (2023/5/19)

"Functional analysis of *SATB2* and disease-associated variants using *Drosophila*", 2023 SATB2 Research Roundtable, *Cure*SATB2 & SATB2 Europe, Online Webinar (2023/6/20)

"Navigating MARRVEL, an integrated search engine for rare and undiagnosed disease research", 1st Undiagnosed Hackathon Tools Workshop, Karolinska Institute, Stockholm, Sweden (2023/06/17)

"Functional studies of disease associated genes and rare variants using state-of-the-art technologies in *Drosophila melanogaster*", 2023 Gordon Research Conference: Human Genetics & Genomics, Waterville Valley, NH (2023/7/10)

"A comprehensive Drosophila resource to identify key functional interactions between SARS-CoV-2 factors and host proteins", Houston Fly Club Monthly Meeting, Houston, TX, Virtual Presentation via ZOOM (2023/7/27).

"MARRVEL and ModelMatcher: Platforms & Tools for Rare Disease Genomics Collaboration", Science in Society Annual Meeting 2023, Chan Zuckerberg Initiative (CZI), Newport Beach, CA (2023/09/22)

"Functional studies using *Drosophila* support clinical diagnosis and phenotypic expansion: *BMPR2* in neurodevelopmental disorders", 12th Conference of UDNI Scientific Meeting, Tbilisi, Georgia (2023/10/22)

"Functional Study Working Group Report", 12th Conference of UDNI (Undiagnosed Disease Network International) Business Meeting, Tbilisi, Georgia (2023/10/23)

"Functional studies in *Drosophila* facilitate rare disease diagnosis and research", National Institute of Genetics of Japan International Symposium, Mishima, Japan (2023/11/09)

"Humanization *Drosophila* genes for rare disease diagnosis and research", TT2023 (The 18th Transgenic Technology Meeting), Houston, TX (2023/11/13)

"Precision Medicine *Drosophila* Models for Undiagnosed and Rare Disease", 2023 KOMP2 & IMPC Fall Meeting, Houston, TX (2023/11/27)

2024 "MARRVEL and ModelMatcher: publicly available web services that facilitate collaborative research on rare diseases", TAGC2024 (Genetics Society of America), National Harbor, MD (2024/3/4)

"Using *Drosophila* to discover and study new human disease genes", Rice University, (Host: Kathleen Beckingham), Houston, TX (2024/4/1)

"Bioinformatic tool development to facilitate rare disease diagnosis and research", Genetics Faculty Short Talk Series, Baylor College of Medicine, Houston, TX (2024/4/1)

"Facilitating collaborations through the Undiagnosed Hackathon & informatic tool development", Undiagnosed Day event at Harvard Medical School, Boston, MA (2024/4/29)

"Functional Studies in Evaluation of Undiagnosed and Rare Conditions", Harvard Medical School Continuing Education, Online CME Credit Course (2024/5/13)

"Facilitating rare disease diagnosis through functional studies using *Drosophila*", 2nd Undiagnosed Hackathon Tools Workshop, Radboud UMC, Nijmegen, the Netherlands (2024/6/26)

"Facilitating rare disease diagnosis through functional studies using *Drosophila*", 13th Conference of UDNI Scientific Meeting, Seoul, Korea (2024/9/6)

"Functional Study Working Group Report", 13th Conference of UDNI Business Meeting, Seoul, Korea (2024/9/7)

"Facilitating rare disease diagnosis through functional studies using *Drosophila*", Department of Biological Sciences, Tokyo Metropolitan University Drosophila Symposium: New Horizons in *Drosophila* Models, Tokyo, Japan (2024/11/5)

"Combining state-of-the-art technologies in *Drosophila* to discover novel rare disease-causing genes and variants in human", 97th Annual Meeting of the Japanese Biochemical Society, Yokohama, Japan (2024/11/7)

"Medical research using *Drosophila*: potential application to the veterinary field", Alumni Reunion, Veterinary Medical School, University of Tokyo, Tokyo, Japan (2024/11/9)

"Facilitating rare disease diagnosis through functional studies using *Drosophila*", 2nd Rare Diseases & Rare Cancers in the Era of Systems Biology Symposium (hybrid conference), Medical College of Wisconsin, Milwaukee, WI (2024/11/14)

"Empowering clinically relevant research projects through the BCM Center for Precision Medicine Models (CPMM)", Inaugural NRI Faculty Retreat, Texas Children's Hospital, Houston, TX (2024/12/9)

2025 "Facilitating rare disease diagnosis through functional studies using *Drosophila*", Department of Genetics, Perelman School of Medicine at the University of Pennsylvania (Host: Drs. Dan Rader and Matthew Kayser), Philadelphia, PA (2025/3/13)

"Functional Studies in Rare Disease Diagnosis", Red de Expertos en Salud de Enfermedades Raras (RIBERSER, a.k.a Iberoamerican Health Expert Network for Rare Diseases), Online Webinar (2025/3/15)

"Pushing the limits of *Drosophila*", NeuroRadio (https://neuroradio.tokyo/, Hosts: Drs. Kenta Hagihara & Takeyuki Miyawaki), Online Podcast in Japanese (Episodes 86 & 87, 2025/4/2 & 7)

"Using *Drosophila* to discover and study new human developmental disease genes", 2025 Gordon Research Conference: Developmental Biology, Pomona, CA (2025/4/2)

"Using *Drosophila* to discover and study new human disease-causing genes", GSA Award Seminar Series, Online Webinar (2025/7/24)

"Alumni Lightning Talks", Science Careers Conference, BCM, TX (2025/9/9)

"Using *Drosophila* to discover and study new human disease-causing genes", Keck Seminar, Rice University, Houston, TX (2025/9/12)

"FlyBase & the Biomedical Model Organism Database Ecosystem, Japanese Young *Drosophila* Researcher's Club (Hosts: Drs. Yuta Takada & Mr. Yuma Tsukasa), Online Webinar (2025/10/10)

"Using *Drosophila* to discover and study new human disease-causing genes", College of Sciences, The University of Texas at San Antonio (Host: Dr. Jeffrey Vedanayagam), San Antonio, TX (2025/11/10)

2026 "Using *Drosophila* to discover and study new human disease-causing genes", Emory University School of Medicine (Host: Dr. Jian Zhou), Atlanta, GA (2026/3/23)

"Using *Drosophila* to discover and study new human disease-causing genes", Zebra Talk Series, Dell Medical School, The University of Texas at Austin (Host: Drs. Ankit Sabharwal and Stephen Ekker), Austin, TX (2026/4/23)

"Facilitating rare disease diagnosis using fruit flies through teamwork", RNDF Spring Assembly, Rare Neurological Disorder Foundation, Online Webinar (2026/5/1)

"Functional Studies using Model Organisms", Online Training Course: "Evaluation of Undiagnosed and Rare Conditions (https://undiagnosed.hms.harvard.edu/events/course/)", Undiagnosed Diseases Network (2026/5/13)

"Research on rare and undiagnosed diseases using *Drosophila*", NISTEP Seminar Series, NISTEP (National Institute of Science and Technology Policy), Online Webinar in Japanese (2026/7/3)

"Using *Drosophila* to discover and study new human disease-causing genes and variants", 51st Serendipity Seminar, The University of Tokyo (Host: Dr. Keisuke Goda), Tokyo, Japan (2026/7/30)

"Using *Drosophila* to discover and study new human disease-causing genes", NIH Neuroscience Seminar Series, National Institutes of Health (Host: Dr. Benjamin White), Bethesda, MD (2026/9/14)

"Using *Drosophila* to discover and study new human disease-causing genes", Rutgers University (Host: Dr. Kenneth D. Irvine), Princeton, NJ (2026/10/6)

"Using *Drosophila* to discover and study new human disease-causing genes", Quantitative & Computational Biology Seminars, Princeton University (Host: Dr. Stanislav Y. Shvartsman), Princeton, NJ (2026/10/7)

"A *Drosophila* transgenic resource to study the functions of human genes and variants", Drosophila Camp (organized by Dr. Keisuke Goda at University of Tokyo), Sendai, Japan (11/1/2026)

"A Rare Recurring Gain-of-Function Variant in *BMPR2* Causes Neurodevelopmental Phenotypes in Humans and Flies", The 17th Japanese Drosophila Research Conference, Tokyo, Japan (11/6/2026)

2027 "Using *Drosophila* to discover and study new human disease-causing genes", Swiss 3R Day conference, University of Geneva (Host: Dr. Vladimir Katanaev), Geneva, Switzerland (2027/7/29)…Scheduled

MENTORSHIP OF STUDENTS AND TRAINEES

GRADUATE (PHD) STUDENTS

2015-2021 Jose L. Salazar (Program in Molecular & Human Genetics, BCM)
Current position: Field Applications Scientist, Oxford Nanopore Technologies

2018-2021 J. Michael Harnish (Program in Molecular & Human Genetics, BCM)
Current position: Business Development Lead, Author Health

2017-2023 Samantha Deal (Program in Developmental Biology, BCM)

Current position: Assistant Professor, Mercer University

2020-2026 Shelley Gibson (Genetics & Genomics Graduate Program, BCM)
Current position: Postdoctoral Fellow, Eunice Kennedy Shriver National Institute of Child Health (NICHD, Mentor: Dr. Mihaela Serpe)

2022- Harmin Delgado-Seo (Neuroscience Graduate Program, BCM)

2023- Haley A. Dostalik (Genetics & Genomics Graduate Program, BCM)

2025- Jasmine O. Brown (Genetics & Genomics Graduate Program, BCM)

GRADUATE (MS) STUDENTS

2026- Isabella Tandy (Master of Science in Biomedical Sciences Graduate Program, BCM)

POSTDOCTORAL FELLOWS

2016 Sumit Saurabh, Ph.D.
Current position: Assistant Professor, Chicago State University

2019-2022 Sheng-An Yang, Ph.D.
Current position: Clinical Variant Scientist, ARUP Laboratories

2021- Jung-Wang Mok, Ph.D.

2022- Mikiko Oka, Ph.D.

2022- Hirokazu Hashimoto, Ph.D.

2022-2024 Rei Yasuda, M.D., Ph.D.
Current position: Assisatnt Professor, Kyoto Prefectural University of Medicine

POST-BAC STUDENTS

2015-2016 Samantha L. Deal (Post-Baccalaureate student, BCM)
Subsequent position: Ph.D. student in BCM

2015-2016 Matthew Lagarde (Post-Baccalaureate student, BCM)
Subsequent position: M.D. student in G. McGovern Medical School at UTHealth

2015 Matthew Feiock (Post-Baccalaureate student, BCM)
Subsequent position: Pathology Laboratory Aide, Florida Cancer Specialists & Research Institute

2018-2019 Brooke Hull [PREP (Post-baccalaureate Research Education Program), BCM]
Subsequent position: Ph.D. student in Princeton University

2023 Jasmine O. Brown (PREP, BCM)
Subsequent position: Ph.D. student in BCM

UNDERGRADUATE STUDENTS

2013 David Wang (Rice University, NEUR310 course)
Subsequent position: M.D. student in McGovern Medical School at UTHealth

2018-2020 Ashley Phillips (Rice University, NEUR310 course)
Subsequent position: M.P.H. student at NYU

2019-2020 Frank Shi (Rice University, NEUR310 course)

2019-2020 Victoria Lee (Rice University, BIOC310 course)

2022 Jean-Luc Shimizu (Cornell University, summer student)

2022-2023 Fernanda Valle Sirias (Rice University, NEUR310 course)

2025- Swayam Rath (Rice University, NEUR310 course)

RESEARCH ROTATIONS

2013 Yi-Chen Hsieh (PhD Student Rotation, BCM)

2014 Krystal English (PREP Student Rotation, BCM)

2015 Valencia Potter (PhD Student Rotation, BCM)

2015 Yingyao Shao (PhD Student Rotation, BCM)
2017 Fatma Isleyen (PhD Student Rotation, BCM)
2018 Angad Jolly (PhD Student Rotation, BCM)
2018 J. Michael Harnish (PhD Student Rotation, BCM)
2018 Brooke Hull (PREP Student Rotation, BCM)
2019 Morgan Stephens (PhD Student Rotation, BCM)
2019 Shelley Gibson (PhD Student Rotation, BCM)
2021 Julie Ann Goddard (PhD Student Rotation, BCM)
2022 Devine Jackson (PhD Student Rotation, BCM)
2022 Harim Delgado-Seo (PhD Student Rotation, BCM)
2022 Danielle Mendonca (PhD Student Rotation, BCM)
2022 Ellen Thompson (PhD Student Rotation, BCM)
2023 Haley A. Dostalik (PhD Student Rotation, BCM)
2025 Jasmine O. Brown (PhD Student Rotation, BCM)
2025 Shanice James (MS Student Rotation, BCM)
2025 Isabella Tandy (MS Student Rotation, BCM)
2025 Adrian Bafor (MS Student Rotation, BCM)
2025 Ashlee Prejean (MS Student Rotation, BCM)
2025 Mariyah Sion (MS Student Rotation, BCM)
2026 Carlee Marquez (PhD Student Rotation, BCM)

THESIS ADVISORY COMMITTEES

2014-2018 Chang-Ru Tsai (PI: Michael Galko, Program in Developmental Biology, BCM)
2017-2018 Mumine Senturk (PI: Hugo Bellen, Program in Developmental Biology, BCM), as ex-officio member
2017-2019 Julia Wang [PI: Hugo Bellen, Program in Developmental Biology and MSTP (Medical Scientist Training Program), BCM]
2017-2020 Amanda Gervaise (PI: Swathi Arur, Program in Developmental Biology, BCM)
2017-2020 Tarik Onur (PI: Juan Botas, Program in Molecular & Human Genetics, BCM)
2017-2021 Nicholas Albrecht (PI: Melanie Samuel, Program in Translational Biology and Molecular Medicine, BCM)
2018-2021 Thomas Ravenscroft (PI: Hugo Bellen, Program in Molecular & Human Genetics, BCM)
2018-2023 Daniel Sutton (PI: Andrew Groves, Program in Molecular & Human Genetics, BCM)
2018-2023 Meigen Yu (PI: Joshua Shulman, Program in Neuroscience, BCM)
2019-2025 Matthew Avalos (PI: Juan Botas, Program in Molecular & Human Genetics, BCM)
2019-2022 Liping Wang (PI: Hugo Bellen, Program in Developmental Biology, BCM)
2019-2023 Jiayang Li (PI: Juan Botas, Quantitative & Computational Biosciences Program, BCM)
2020-2021 Sean Dooling (PI: Mauro Costa-Mattioli, Program in Molecular & Human Genetics, BCM), as ex-officio member
2020-2023 Dillon R. Shapiro (PI: Olivier Lichtarge, Program in Molecular & Human Genetics, BCM), as ex-officio member
2020-2023 Ruizhi (Vince) Duan (PI: James Lupski, Program in Molecular & Human Genetics, BCM)
2020-2024 Kristy Jay (PI: Michael Wangler, Genetics & Genomics Graduate Program, BCM)
2020-2026 Megan Mair (PI: Juan Botas, Program in Molecular & Human Genetics, BCM)
2020-2025 Morgan Stephens (PI: Juan Botas, Genetics & Genomics Graduate Program, BCM)
2020-2026 Emily Leptich (PI: Rachel Arey, Neuroscience Graduate Program, BCM)
2020- Laura Deus Ramírez (PI: Christoph Herman, Genetics & Genomics Graduate Program)

2021-2022 Jamie Reyes (PI: Margaret Goodell, Program in Molecular & Human Genetics, BCM), as ex-officio member
2021-2024 Kamryn Gerner-Mauro (PI: Jichao Chen, DDMT Graduate Program, BCM)
2022-2025 Jennifer Deger (PIs: Joshua Shulman & Hugo J Bellen, Neuroscience Graduate Program and MSTP, BCM)
2022-2024 Guo Hu (PI: Meng Wang, Genetics & Genomics Graduate Program, BCM), as ex-officio member
2022- Tyler Jackson (PI: Hongjie Li, Cancer and Cell Biology Graduate Program, BCM)
2022,2025- Nirav Shah (PI: Jennifer Posey, Genetics & Genomics Graduate Program, BCM) as ex-officio member
2023- Jinghan Zhao (PI: Joshua Shulman, Neuroscience Graduate Program, BCM)
2023- Ye-Jin Park (PIs: Hongjie Li & Hugo Bellen, DDMT Graduate Program, BCM)
2023-2026 Bing Xie (PI: James Martin, Genetics & Genomics Graduate Program, BCM)
2023-2025 Brandon Garcia (PI: Jennifer Posey, Genetics & Genomics Program and MSTP, BCM)
2024- Michal Tyrlik (PI: Hugo Bellen, Genetics & Genomics Graduate Program and MSTP, BCM)
2024- Ellen Thompson (PI: Susan Rosenberg, DDMT Graduate Program, BCM)
2024- Guo-Teng Liang (PI: Steven Boeynaemes, Neuroscience Graduate Program, BCM)
2024-2026 Keyang Yu (PI: Aleksandar Milosavljevic, Genetics & Genomics Graduate Program, BCM), as ex-officio member
2024- Meredith Williams (PI: Rachel Arey, DDMT Graduate Program, BCM)
2024 Shania Pintor [PI: Margot Williams, Cancer & Cell Biology (CCB) Graduate Program, BCM]
2024- David Quispe Parra (PI: Ross A. Poché, Genetics & Genomics Graduate Program, BCM)
2024- Colleen Strohlein (PIs: Huda Zoghbi & Joshua Shulman, Neuroscience Graduate Program, BCM)
2024- Sofia Ivana Aramburu (PI: Susan Rosenberg, DDMT Graduate Program, BCM)
2024- Yan Li (PI: Huda Zoghbi, Genetics & Genomics Graduate Program, BCM) as reporting member
2024- Alex Larson (PIs: Joshua Shulman & Steven Boeynaemes, Neuroscience Graduate Program, BCM)
2025- Grace Pina (PI: Juan Botas, Genetics & Genomics Graduate Program, BCM)
2025- Paige Hall (PI: Michael Wangler, Genetics & Genomics Graduate Program, BCM) as reporting member
2025- Guantong Qi (PI: Zhandong Liu, Genetics & Genomics Graduate Program, BCM) as reporting member
2025- Kai-Li Chang (PI: Zhandong Liu, Genetics & Genomics Graduate Program, BCM)
2025- Edward Pietryk (PI: Cheryl Walker, Genetics & Genomics Graduate Program, BCM) as ex-officio member
2025- Adya Verma (PI: Margot Williams, DDMT Graduate Program, BCM) as reporting member
2025- Mubtasim Akhyar (PI: Steven Boeynaemes, CCB Graduate Program, BCM)
2025- Brandon Baltelmie (PI: Jason Heaney, Genetics & Genomics Graduate Program, BCM) as reporting member
2025- Juwan Copeland (PI: Andrew Groves, Genetics & Genomics Graduate Program, BCM) as reporting member
2025- Adya Verma (PI: Margot Williams, DDMT Graduate Program, BCM)
2025 Marije Been (PI: Erik Strokebaum, Radboud University, Nijmegen, the Netherlands)
2026- Justin Dhindsa (PI: Nicholas Tran, Genetics & Genomics Program and MSTP, BCM) as reporting member

2026- Yifan Chen (PI: Ryan Dhindsa, Genetics & Genomics Graduate Program and MSTP, BCM) as reporting member
2026- Harita Mani (PI: Vishnu Cuddapah, Genetics & Genomics Graduate Program, BCM) as reporting member
2026- Chloe Sands (PI: Ryan Dhindsa, Genetics & Genomics Graduate Program, BCM) as reporting member
2026- Alex Garza (PI: Benjamin Arenkiel, Genetics & Genomics Graduate Program, BCM) as ex-officio member

QUALIFYING EXAM COMMITTEES

2014 Matthew Hill (Program in Developmental Biology, BCM)
2015 Rebecca Murdaugh (Program in Developmental Biology, BCM)
2016 Amanda Gervaise (Program in Developmental Biology, BCM)
2017 Sean Dooling (Program in Molecular & Human Genetics, BCM), as chair of committee
2017 Nicholas Albrecht (Program in Translational Biology and Molecular Medicine, BCM)
2018 Meigen Yu (Program in Neuroscience, BCM)
2018 Vera Hutchison (Program in Developmental Biology, BCM)
2018 Max Gao (Program in Developmental Biology, BCM)
2018 Mayuri Patel (Program in Developmental Biology, BCM)
2018 Grant Mangleburg (Program in Molecular & Human Genetics and MSTP, BCM), as chair
2019 Ivanshi Patel (Program in Developmental Biology, BCM)
2019 Mary Edgington (Program in Developmental Biology, BCM)
2019 Timothy Wu (Program in Molecular & Human Genetics, BCM)
2019 Megan Mair (Program in Molecular & Human Genetics, BCM)
2020 Alice Wen (Program in Genetics & Genomics, BCM)
2020 Kristy Jay (Program in Genetics & Genomics, BCM)
2021 Emily Leptich (Program in Neuroscience, BCM, BCM)
2021 Gary Huang (Program in Genetics & Genomics, BCM)
2021 Fangfei Guo (Program in Genetics & Genomics, BCM)
2022 Brooke Horist (Program in Genetics & Genomics, BCM)
2022 Julie Ann Goddard (Program in Genetics & Genomics, BCM)
2023 Jackson Tyler (Program in Cancer and Cell Biology, BCM)
2023 Pragati Kore (Program in Genetics & Genomics, BCM)
2024 Guo-Teng Liang (Program in Neuroscience, BCM)
2024 Rajashree Venkatraman (Program in DDMT, BCM)
2024 Ashweni Ramanah (Program in DDMT, BCM)
2024 Melanie Mew (Program in Genetics & Genomics, BCM)
2024 Grace Pina (Program in Genetics & Genomics, BCM)
2025 Colleen Strohlein (Program in Neuroscience, BCM)
2025 Alex Larson (Program in Neuroscience, BCM)
2025 Meredith Williams (Program in DDMT, BCM)
2025 Shania Pinto (Program in Cancer and Cell Biology, BCM)
2025 Aanya Subramaniam (Program in Genetics & Genomics, BCM)
2025 Harita Mani (Program in Genetics & Genomics, BCM)
2026 Martha Chan (Program in Genetics & Genomics, BCM)
2026 Jessica Mason (Program in Genetics & Genomics, BCM)

-Updated on 11/13/2026