Curriculum vitae

Date Prepared:	07/09/2026
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Personal Statement: For more than 18 years, my scientific interests have touched on fields ranging from germ cell development to stem cell biology, mRNA translation, and ribosome synthesis and activity. At UT Southwestern, my lab has a long-standing interest in ribosome biogenesis and mRNA translation and their roles in development and disease. We use a variety of genetic, molecular, biochemical and live cell-imaging methods to address the questions we seek to answer. We are experts in different biochemical techniques for analyzing ribosome assembly and function, including sucrose gradient fractionation, polysome analysis, and ribosome pull-downs. Through these studies we have also developed several innovative tools including the Ribo-SNAP platform, which allows us to assay ongoing ribosome biogenesis at single cell resolution in living human cells. This work has led to the discovery that ribosome biogenesis and the global regulation of protein synthesis influence cell differentiation in a range of contexts from the Drosophila germline to the human brain development.

Service to the local and national scientific community has always been a high priority for me. At UT Southwestern, I am an Associate Director in the Hamon Center for Regenerative Science and Medicine. I am also a member of the Genetic, Development and Disease (GD&D) training program and have served on its steering committee for the last ten years. I help to organize and lecture in several graduate student courses. I serve as chair of UT Southwestern Conflict of Interest Committee and also participate in the Institutional Biosafety Committee. Finally, I administer our local fly kitchen.

Nationally, I served as Treasurer of the Genetics Society of America (GSA) from 2020–2022, gaining firsthand experience with the fiscal challenges and opportunities facing scientific societies. I currently serve on the GSA Awards Committee and as Chair of the GSA Publications Committee, which advises the Editors-in-Chief of GENETICS and G3 and the GSA Executive Board. I am a member of the Bloomington Stock Center Scientific Advisory Board and twice served on the Larry Sandler Selection Committee. I also served for six years on the CMAD NIH study section and continue to ad hoc for special emphasis panels and the NIH Pioneer award. I also serve on the Board of Reviewing Editors at eLife.

Education

Year	Degree (Honors)	Field of Study (Thesis advisor for PhDs)	Institution
2002	Ph.D.	Biology (Dr. Lynn Cooley)	Yale University
1994	B.S.	Biology, English	Tufts University

Postdoctoral Training

Year(s)	Titles	Specialty/Discipline (Lab PI for postdoc research)	Institution
2002-2007	Postdoctoral Fellow	Genetics and Cell Biology (Dr. Allan Spradling)	Carnegie Institution for Science

Honors and Awards

Year	Name of Honor/Award	Awarding Organization
2025	Hill Prizes Ad Hoc Funding	Lyda Hill Philanthropies
2024	Lillian B. and Tom B. Rhodes Professorship in Stem Cell Research	UT Southwestern Medical Center
2023	Commercialization Milestone Award	UTSW Biotech+ at Pegasus Park
2022	Pitch Competition Winner ($100K)	Blackstone LaunchPad
2021	Translational Pilot Award	SCCC
2018	High Impact/ High Risk Award	UT Southwestern Medical Center
2007	E.E. and Greer Garson Fogelson Scholar in Medical Research	Endowed Scholars Program; UT Southwestern Medical Center
2002	John Spangler Nicholas Prize for Outstanding Doctoral Dissertation	Yale University
1993	HHMI Summer Internship Award	HHMI
2008-2009	New Investigator Award	Simmons Cancer Center; UT Southwestern Medical Center
2008-2010	Beginning Grant-in-Aid award	American Heart Association
2009-2011	Basil O'Connor Starter Scholar Research Award	March of Dimes
2020-2022	Elected as Treasurer	Genetics Society of America
2004-2007	ACS-Postdoctoral Fellowship	American Cancer Society

Faculty Academic Appointments

Year(s)	Academic Title	Department	Academic Institution

9/2019-present	Professor	Molecular Biology	UT Southwestern Medical Center
9/2014-8/2019	Associate Professor	Molecular Biology	UT Southwestern Medical Center
9/2007-8/2014	Assistant Professor	Molecular Biology	UT Southwestern Medical Center

Other Professional Positions

Year(s)	Position Title	Institution
1994-1996	Research Technician Dr. Douglas Melton	Harvard University

Major Administrative/Leadership Positions

Year(s)	Position Title	Institution
2019-Present	Associate Director	Center for Regenerative Science and Medicine; UT Southwestern
2018-Present	Director	Media core; UT Southwestern Medical Center
2024-Present	Chair	UTSW Conflict of Interest Committee

Committee Service (*Member, unless noted otherwise)*

Year(s)	Name of Committee	Institution/Organization
2026-present	MSTP admissions committee	UT Southwestern Medical Center
2024-present	Scientific Advisory Board	The SPATA Foundation
2024-present	Scientific Advisory Board	Bloomington Drosophila Stock Center
2023-present	IBC Committee	UT Southwestern Medical Center
2023-present	COI Subcommittee	UT Southwestern Medical Center
2022-2023	Six Year Planning Committee	UT Southwestern Medical Center
2018-present	COI committee	UT Southwestern Medical Center
2017-present	PhD and Postdoctoral training committee	UT Southwestern Medical Center
2013-present	Genetics and Development Steering Committee	UT Southwestern Medical Center
2009-2013; 2023-2025	DBS admissions committee	UT Southwestern Medical Center

Professional Societies

Dates	Society Name, member
2024-present	GSA Awards Committee
2024-present	Chair, GSA Publications Committee

2020-2022	Treasurer, Genetics Society of America (GSA)
2018-2019	Chair, Organizing committee 2019 GSA Annual Drosophila Conference
2018	GSA Larry Sandler Award selection committee
2014-present	International Society of Stem Cell Research
2014	GSA Larry Sandler Award selection committee
1998-present	Genetics Society of America (GSA)

Grant Review Activities

Year(s)	Name of Review Committee	Organization
2025	Ad hoc member, Pioneer Award Review	NIH
2024	Ad hoc member, Pioneer Award Review	NIH
2018-2024	Regular member, Scientific Advisory Committee, CMAD NIH Study Section	NIH
2018	Ad hoc member, CHHD-C NIH Study Section	NIH
2017	Ad hoc member, CMAD NIH Study Section	NIH
2017-2020	Regular Member, Scientific Advisory Committee	American Cancer Society
2017	Ad hoc member, Scientific Advisory Committee	American Cancer Society
2017	Scientific Advisory Committee (ZRG1 F08-F(20)L) NIH Special Emphasis Panel	NIH
2017	Ad hoc member, DEV2 NIH Study Section	NIH
2016	Ad hoc member, CMAD NIH Study Section	NIH
2016	Ad hoc, Scientific Advisory Committee	NYSTEM
2016	Scientific Advisory Committee (ZRG1 CB-F.55) NIH Special Emphasis Panel	NIH
2015	Scientific Advisory Committee (ZRG1 CB-F.55) NIH Special Emphasis Panel	NIH
2015	Ad hoc member, CMAD NIH Study Section	NIH
2015	Ad hoc member, NCI Site Visit	NIH
2014	Scientific Advisory Committee (ZRG1 CB-F.55) NIH Special Emphasis Panel	NIH
2013	Ad hoc	Israel Science Foundation (ISF)
2013	Ad hoc, Scientific Advisory Committee	NYSTEM
2013	Scientific Advisory Committee (ZRG1 CB-F.56) NIH Special Emphasis Panel	NIH
2012	Ad hoc	Israel Science Foundation (ISF)
2010	Ad hoc	Japanese Israeli scientific and technological cooperation
2009	Ad hoc, Scientific Advisory Committee	NYSTEM

Editorial Activities

Year(s)	Journal Name
Editor/Associate Editor	
2021-2022	Special Guest Editor for Seminars in Cell and Developmental Biology
Editorial Board	
2018-present	eLife; Board of Reviewing Editors
Ad Hoc Reviewer	
	Science
	Nature
	eLife
	Cell Stem Cell
	Developmental Cell
	Cell Host & Microbe
	Current Biology
	Proceedings in the National Academy of Sciences, USA
	Development
	Nature Communications
	Developmental Biology
	Cell & Bioscience
	EMBO
	Genetics
	Journal of Cell Science
	The FASEB Journal
	Molecular Biology of the Cell
	BMC Biology
	Briefings in Functional Genomics
	Cell Research
	General and Comparative Endocrinology
	Journal of Genetics and Genomics
	PLoS One
	Stem Cell Reports
	G3

Grant Support

Present	1. National Institutes of Health/National Institute of General Medical Sciences
	Genetic Dissection of Germ Cell Differentiation and Function (R35GM144043)

	Principal Investigator
	$305,000 02/01/2026 – 01/31/2027
	$1,306,774 02/01/2022 – 01/31/2027
	2. National Institutes of Health/National Institute on Aging
	Characterization of how mRNA translation influences reproductive aging
	Principal Investigator
	$205,000 02/01/2026 – 01/31/2027
	$1,681,000 07/15/2022– 03/31/2027
	3. National Institutes of Health/National Cancer Institute
	Developing ribosome biogenesis inhibitors for the prevention of cancer (1UG3CA290312)
	MPI
	$212,500 05/01/2025-04/30/2026
	$1,045,500 05/01/2024-04/30/2027
	Welch Foundation
	Developing ribosome biogenesis inhibitors for the treatment of disease
	Principle Investigator
	$100,000 06/01/2025-5/31/2026
	$300,000 06/01/2025-5/31/2028
Past	1. National Institutes of Health/National Institute of General Medical Sciences
	Role of GCNA in preserving genome integrity and fertility
	MPI
	$139,466 09/16/2021 – 08/31/2022
	$1,845,294 09/16/2019 – 08/31/2024 (NCE)
	2. National Institutes of Health/National Institute of Childhood Health and Human Development
	Developing human gonad organoids to promote germ cell differentiation
	MPI
	$125,000 09/01/2022-08/31/2023
	$451,000 09/01/2021-08/31/2023
	3. National Institutes of Health/National Institute of General Medical Sciences
	Regulation of mRNA translation during germline cyst differentiation (R01GM125812)
	Principal Investigator
	$200,000 01/01/2019 – 12/31/2020

	$800,000 01/01/2018 – 12/31/2021

	4. National Institutes of Health/National Institute on Aging
	Systematic Characterization of an Aging Stem Cell Niche (R01AG047318)
	Principal Investigator
	$205,000 05/01/2019 – 03/31/2020
	$1,025,000 04/15/2015 – 03/31/2020
	5. Harold C. Simmons Comprehensive Cancer Center
	The role of protease-dependent DNA-protein crosslink repair mechanisms in cancer
	Principal Investigator
	$50,000 07/15/18-07/14/19
	$100,000 07/15/18-07/14/2020
	6. National Institutes of Health/National Institute of General Medical Sciences
	Decoding Stem Cell Chromatin Using Drosophila (1R01GM086647)
	Principal Investigator
	$930,239 08/01/2009-07/31/2014
	7. National Institutes of Health/National Institute of General Medical Sciences
	GERM CELL DIFFERENTIATION IN DROSOPHILA (5R01GM045820)
	Principal Investigator
	$220,523 07/01/2012- 06/30/2013
	8. National Institutes of Health/National Institute of Child Health & Human Development
	Characterization of Drosophila Germline Stem Cell Chromatin Using ChIP-Seq (1R21HD065174)
	Principal Investigator
	$275,000 07/01/2010 – 6/30/2012
	9. National Institutes of Health/ National Institute on Alcohol Abuse and Alcoholism
	Role of histone demethylases in experience dependent alcohol behavior (R21AA022404)
	Co-Principal Investigator with Dr. Adrian Rothenfluh
	$221,705 07/01/2015 – 06/30/2017
	10. Cancer Prevention Research Institute of Texas

	An Improved Transgenesis Platform for Systematic Screening of Tumor Suppressor Activity in Complete Gene Families in Drosophila (RP100516)
	Co-Principal Investigator with Dr. Robin Hiesinger
	$342,585 08/01/2010 – 01/31/2014
	11. March of Dimes/ Basil O'Connor Award
	Systematic Characterization of Histone Demethylase Function in Drosophila Stem Cells (5-FY09-10)
	Principal Investigator
	$150,000 02/01/2009 –01/31/2011
	12. American Heart Association/ Beginning Grant-in-Aid
	Systematic Characterization of Histone Deacetylase Function in Drosophila Stem Cells (0865087F)
	Principal Investigator
	$140,000 7/1/2008 – 6/30/2010
	13. SCCC/Translation Grant
	Compound screen for inhibitors of ribosome biogenesis in cancer
	PI
	$94,106 08/01/2021-07/31/2022

Teaching Activities

Year(s)	Activity
Medical and graduate school didactic and small group teaching Supervision of fellow's clinics and didactic teaching for fellows	
2016-present	Core Course
2015-present	Developmental Principles in Regenerative Science and Medicine
2011-present	Gene Expression
2009-2019	Advanced Genetics
2009-2015	Topics in Developmental Biology
2008-2015	Germ and Stem Cell Biology
Dissertation committees	
2024-present	Yiming Sun (Jun Wu)
2024-graduated	Dayea Park (Can Cenik; UT Austin)
2024-present	Siyuan Hao (DJ Pan)
2024-present	Krystal Goyins (Lacy Barton; UT San Antonio)
2023-2025	Jeffrey Huang (J. Mendell)

2022-graduated	Jordan Wall (P. Douglas)
2022-present	Juan Corrales (E. Betran; UTA)
2021-present	Garrett Kimble (M. Buszczak)
2021-graduated	Mateusz Durbacz (E. Olson)
2021-2025	Modupeola Bolaji (E. Kelleher; U. Houston)
2020-graduated	Purbita Saha (L. Banaszynski)
2020-graduated	Yingjie Hu (V. Tagliabracci)
2020-graduated	Yujing Cheng (J. Mendell)
2020-graduated	David Sanchez (D. Marciano)
2019-graduated	Juliana Herbeck (N. Conrad)
2019-graduated	Marianne Mercer (M. Buszczak)
2019-graduated	Helin Hocaoglu (M. Sieber)
2019-graduated	Emily Binshtok (J. Wu)
2019-graduated	Daniel Schmitz (J. Wu)
2019-graduated	Rui Chen (J. Collins)
2019-2021; graduated	Mahmoud Elguindy (J. Mendell)
2018-graduated	Amrita Gokhale (E. Chen)
2018-graduated	Yuemeng Jia (H. Zhu)
2017-graduated	Chunyang Ni (M. Buszczak)
2017- graduated	Seyedeh Mirsalehi (E. Betran; UTA)
2017graduated	Li Wang (DJ Pan)
2017-2021; graduated	Fatema Ruma (E. Betran; UTA)
2016-2022; graduated	Jeremiah Herbert (G. Hon)
2015-2020; graduated	Courtney Goldstein (M. Buszczak)
2015-2019; graduated	Edward Daniel (O. Cleaver)
2015-2017; graduated	Paula Kurtz (J. Abrams)
2014-2018; graduated	Diwash Jangam (E. Betran; UTA)
2013-2019; graduated	Victor Palacios (M. Buszczak)
2013-2018; graduated	Barrett Updegraff (K. O'Donnell)
2013-2018; graduated	Varsha Bhargava (M. Buszczak)
2013-2014	Megan Cermak (T. Carroll)

2012-2015; graduated	James Peyer (S. Morrison)
2012-2015; graduated	Chris Inra (S. Morrision)
2012-2015; graduated	Min He (M. Cobb)
2011-2014; graduated	Jueqi Chen (J. Chen)
2011-2014; graduated	Stefan Breson (N. Conrad)
2011-2013; graduated	Marieke Oldenbroek (R. Lin)
2010-2016; graduated	Arnaldo Carreira (M. Buszczak)
2010-2013; graduated	Clayton Boldt (J. Amatruda)
2010-2011; graduated	Drew Stenesen (J. Graff)
2009-2014; graduated	Jumama Alhaj Abed (R. Jones; SMU)
2009-2014; graduated	Dhananjay Chaturvedi (M. Buszczak)
2009-2012; graduated	Michele Carrer (E. Olson)
2008-2013; graduated	Qiao Zhang (M. Buszczak)
2008-2013; graduated	Vanessa Damoulis (J. Amatruda)
2008-2012; graduated	Susan Eliazer (M. Buszczak)
2008-2011; graduated	Jennifer Winn (S. Cameron)
2008-2010; graduated	Omur Yilmaz Tastan (M. Buszczak)
2008-2009; graduated	Tugba Guven (R. Lin)
2007-2012; graduated	Fangfang Ren (J. Jiang)
Qualifying examination committees	
2025	Haocheng Li (chair)
2025	Nicholas Slimmon
2024	Ivy Fang

2024	Ashley Rowe
2023	Hai Cheng Huang (chair)
2022	Philip Brown (chair)
2021	Ashley Truong
2020	Yang Fan (chair)
2019	Sherwin Kelekar
2018	Rupam Ghosh (chair)
2017	Yu (Bob) Zhang
2016	Sarah Addams (observer)
2015	Edward Daniel
2014	Berfin Azizoglu
2012	Keun Ryu
2011	Moushumi Dey
2011	Chengzu Long
2010	Robert Borkowski
2010	Yindi Jiang
2009	Miguel Mata
2008	Ke Xu
Committees concerned with medical and graduate student education	
2022-2025	Division of Biomedical Sciences Graduate Student Admissions Committee
2013-present	Steering Committee, GDD Graduate Program
2009-2013	Division of Biomedical Sciences Graduate Student Admissions Committee
Graduate student rotations	
2025	Xinyu Wang
2025	Alvin Kalathungal
2025	Anna Ramsey
2024	Natalie Jones
2024	Angie Huang
2023	Annie Zhou
2023	Nik Malev
2020	Garrett Kimble
2020	Jane Warshaw
2020	Lidia Llacsahuanga Allcca
2019	Alia Edington
2018	Yang Fan
2018	Marianne Mercer
2017	Haley Barlow

2017	Chunyang Ni
2016	Aarin Jones
2016	Akansha Shah
2016	Benjamin Jones
2015	Jeremiah Herbert
2015	Courtney Goldstein
2013	Victor Palacios
2013	Varsha Bhargava
2012	Andrew Sohn
2012	Kathryn Pendleton
2012	Megan Cermak
2011	Harini Ramalingam
2011	Henry Hudson
2010	Joshua Pierce
2010	Steven Gore
2010	Adam Coster
2010	Hiroyoshi Tanda
2010	Arnaldo Carreira-Rosario
2009	Christopher Desevo
2009	Marieke Oldenbroek
2009	Dhananjay Chaturvedi
2008	Peter Ly
2008	Andrea Mcreynolds
2008	Amanda Ruiz
2007	Susan Eliazer
2007	Qiao Zhang
Graduate student trainees Supervision and didactic teaching of residents in clinics and ward rotation	
4/2026-present	Alvin Kalathungal
4/2021-present	Garrett Kimble
6/2019-3/2025	Marianne Mercer
12/2017-10/2023	Chunyang Ni
3/2015-12/2019	Courtney Goldstein
1/2014-10/2018	Varsha Bhargava
1/2010-4/2016	Arnaldo Carreira-Rosario
1/2009-8/2014	Dhananjay Chaturvedi
1/2008-8/2013	Qiao Zhang
1/2013-2019	Victor Palacios

1/2008-12/2012	Susan Eliazer
7/2008-7/2010	Omür Yilmaz-Tastan
Postdoctoral trainees	
03/2026-present	Daiki Kitamura
05/2025-present	Sonam Rani
07/2023-present	Da Chen
02/2023-present	Anirban Dasgupta
5/2022-present	Yudong Wei
8/2016-4/2022	Seoyeon Jang
10/2012-1/2017	Mayu Inaba
9/2009-3/2015	Nevine Shalaby
7/2008-5/2014	Yun Li
9/2010-2/2014	Zhaohui Wang
7/2011-8/2013	Violaine Mottier

Invited Lectures

Year(s)	Title	Location
International		
June 2008	Regulation of Chromatin Programming in Drosophila Stem Cells	Crete, Greece, The EMBO Molecular and Developmental Biology of Drosophila meeting (Selected Abstract)
May 2010	Searching for Identity: Lessons from Drosophila Stem Cells	Department of Genetics, Trinity College, Dublin, Ireland (invited by Mani Ramaswami)
April 2019	New roles for Rbfox1 in the regulation of mRNA translation	Division of Neurobiology, Free University, Berlin, Germany (invited by Robin Hiesinger)
Oct 2024	Genetic regulation of germ cell development and function	Invited Speaker; 6th SRLab Symposia on Frontiers in Reproductive Biology, PRC
Oct 2024	Links between ribosome biogenesis, development, and human disease	Peking University
Oct 2024	Genetic dissection of germ cell differentiation and function	Tsinghua University

Sept 2025	Late steps in pre-60S maturation impact early human brain development	Cambridge, UK. EMBO Workshop: Invited Speaker
June 2026	GCNA protects genome integrity in germ cells	Crete, Greece, The EMBO Molecular and Developmental Biology of Drosophila meeting (Selected Abstract)
June 2026	Late steps in pre-60S maturation impact early human brain development	Division of Neurobiology, Free University, Berlin, Germany (invited by Robin Hiesinger)
National		
Sept. 2009	Chromatin regulation of Drosophila stem cells and their daughters	Chromosomes, Cancer and Stem Cells Journal of Cell Biology/ The New York Academy of Sciences (invited by Tom Misteli)
April 2010	Searching for Cellular Identity: Lessons from Drosophila GSCs and Their Daughters	National Institute of Diabetes and Digestive and Kidney Diseases National Institutes of Health (invited by Anna Allen)
Sept. 2011	Lysine Specific Demethylase 1 Limits the Size of the Germline Stem Cell Niche	Department of Genetics and Development Columbia University (invited by Ben Ohlstein)
April 2012	Regulation of Adult Stem Cells: Lessons from the Drosophila Ovary	Department of Biochemistry University of Iowa (invited by Pam Geyer)
October 2012	Asymmetric regulation of rRNA transcription promotes germline stem cell maintenance and stem cell daughter differentiation	Cold Spring Harbor, Germ Cell Meeting (selected abstract)
January 2014	Regulation of rRNA transcription in germline stem cells and their daughters	Columbia Stem Cell Initiative
March 2014	Changes in Pol I activity influence proliferation and differentiation within a stem cell lineage	SDB Southwest Regional Meeting (invited by Aaron Johnson)

October 2014	Asymmetric regulation of rRNA transcription promotes germline stem cell maintenance and stem cell daughter differentiation	Cold Spring Harbor, Germ Cell Meeting (selected abstract)
October 2014	Genetic regulation of stem cell self-renewal and stem cell daughter differentiation	Department of Cell and Developmental Biology, University of Michigan, Invited by Yukiko Yamashita
March 2015	Dynamic Regulation of Ribosome Biogenesis and Translation During Germline Development	Department of Biochemistry and Molecular Genetics, University of Illinois (Chicago), Invited by Brad Merrill
October 2015	Regulation of germ cell form and function	MARC Program, University of Arizona
April 2016	Regulation of germ cell differentiation and function	Department of Biochemistry and Molecular Biology, Uniform Services University, Invited by Rachel Cox
June 2016	USING CRISPR/CAS9 TO INTERROGATE GERM CELL FORMATION AND FUNCTION	International Society for Stem Cell Research, Annual meeting (San Francisco), Invited speaker
August 2016	Epigenetic mechanisms maintain germline stem cells in *Drosophila*	Society of Developmental Biology, Annual meeting (Boston), Invited speaker
October 2016	Using Crispr/Cas9 to interrogate germ cell formation and function in Drosophila	Cold Spring Harbor, Germ Cell Meeting (selected abstract)
May 2017	Genetic dissection of germ cell differentiation and function	NIDDK; Invited by Mary Lilly
October 2018	GCNA	Cold Spring Harbor, Germ Cell Meeting (selected abstract)

November 2018	Genetic control of germ cell development and function	Department of Genetics & Genome Sciences, Case Western Reserve University, Invited by Helen Salz
January 2019	Genetic control of germ cell development and function	Department of Cell Biology, Emory University, Invited by David Katz
May 2019	Genetic control of germ cell development and function	Department of Cell Biology, Johns Hopkins School of Medicine, Invited by Erika Matunis
September 2019	Genetic control of germ cell development and function	Department of Cell Biology, UConn Health Center, Invited by Mayu Inaba
November 2019	Genetic control of germ cell development and function	Magee-Womens Research Institute, Invited by Judith Yanowitz
December 2019	Genetic regulation of germ cell development and function	Department of Developmental Biology, Washington University, Invited by Aaron Johnson
April 2020	GCNA preserves genome integrity and fertility across species	Invited TAGC Plenary Talk; Genetics Society of America
December 2022	Links between ribosome biogenesis, development, and human disease	Cell, Developmental & Regenerative Biology, Icahn School of Medicine at Mount Sinai, Invited by Flo Marlow
May 2023	Ribosomes in development and disease	Anatomy and Cell Biology, University of Iowa, Invited by Tina Tootle
October 2023	Ribosomes in development and disease	Blaffer Distinguished Seminar Series at MD Anderson Cancer Center, Invited by Swathi Arur
March 2024	Ribosomes in development and disease	Dept. of Genetics, Yale University, Invited by Valerie Reinke
Oct 2024	Mechanisms that govern germ cell differentiation in Drosophila ovaries	Invited Speaker; Cold Spring Harbor Germ Cell Meeting
March 2026	Ribosomes in development and disease	Cincinnati Children's Hospital
April 2026	Ribosomes in development and disease	American Association for Anatomy; invited speaker
<u>Regional/Local</u>		

Feb. 2008	Decoding Stem Cell Chromatin	MSTP WIPs, UT Southwestern Medical Center
Sept. 2008	Decoding Stem Cells Using Drosophila	New Faculty Research Forum, UT Southwestern Medical Center
Sept. 2008	Decoding Stem Cell Chromatin	Cancer Biology Graduate Program WIPs, UT Southwestern Medical Center (invited by Rolf Brekken)
Feb. 2010	Searching for Cellular Identity: Lessons from Drosophila GSCs and Their Daughters	Department of Biological Sciences, Southern Methodist University (invited by Richard Jones)
July 2010	Using Drosophila as a Model to Study Stem Cells	TECC, UT Southwestern Medical Center (invited by Cheng-Ming Chiang)
Nov. 2010	Loss of the Histone Demethylase Lsd1 Non-Automonously Causes Stem Cell Tumors in the Drosophila Ovary	Department of Pharmacology, UT Southwestern (invited by Kent Hamra)
March 2011	Loss of the Histone Demethylase Lsd1 Non-Automonously Causes Stem Cell Tumors in the Drosophila Ovary	Dallas Germ Cell Meeting (invited by James Amatruda)
May 2011	Lysine Specific Demethylase 1 Limits the Size of the Germline Stem Cell Niche	Hamon Center Weekly Meeting (invited by John Minna)
October 2011	Lysine Specific Demethylase 1 Limits the Size of the Germline Stem Cell Niche	Department of Biology, University of Texas at Arlington (invited by Cedric Feschotte)
January 2012	Stem cells and niches	MSTP WIPs, UT Southwestern Medical Center (invited by Ying Li)
March 2013	Mechanisms that regulate the size of a stem cell niche	Cancer Center, Cancer Cell Networks, UT Southwestern Medical Center (invited by Melanie Cobb)
March 2013	Different levels of rRNA transcription promote germline stem cell maintenance and stem cell daughter differentiation	Cancer center, Development and Cancer Program, UT Southwestern Medical Center (invited by Stephen Skapek)

October 2013	Genetic Dissection of Self-renewal and Differentiation Within a Stem Cell Lineage	Department of Developmental Biology, UT Southwestern Medical Center (invited by Jon Graff)
March 2014	Genetic Regulation of Stem Cell Self-Renewal and Stem Cell Daughter Differentiation	Department of Physiology, UT Southwestern Medical Center
May 2014	Genetic Regulation of Stem Cell Self-Renewal and Stem Cell Daughter Differentiation	O'Brien Kidney Center, Annual Retreat, Invited speaker
August 2016	Genetic dissection of germ cell differentiation and function	Development and Cancer
November 2016	Genetic dissection of germ cell differentiation and function	Department of Biology, Texas Woman's University, Invited by Tina Gumienny
March 2018	Genetic dissection of germ cell differentiation and function	Department of Obstetrics and Gynecology, UT Southwestern Medical Center, Invited by Ann Word
April 2018	GCNA preserves genome integrity and function	Hamon Center for Therapeutic Oncology Research, UT Southwestern Medical Center, Invited by John Minna
November 2021	Labeling of heterochronic ribosomes reveals C1ORF109 and SPATA5 control a late step in human ribosome assembly	McDermott Center, UT Southwestern Medical Center, Invited by Helen Hobbs
December 2021	Links between ribosome biogenesis, development, and human disease	Department of Cell Biology, UT Southwestern Medical Center, Invited by Maralice Conacci-Sorrell

Technological and Other Scientific Innovations

Patents:

1) METHODS FOR LABELING RIBOSOMES (Filed August 30, 2023)
Publication No. WO 2024/050435 A

Service to the Community

Year(s)	Role	Organization or institution
2020-2022	Treasurer, Genetics Society of America	
2014-present	Organizer for the Center for Regenerative Science and Medicine (CRSM) Seminar Series	
2013-2014	Chair; Stem Cell Platform Session; Drosophila Genetics Research Conference	
2012-2014	Organized Stem Cell WIPs (In collaboration with Dr. Sean Morrison)	
2012	Organized Stem Cell WIPs for Cancer Center PIs	

Bibliography

Peer-Reviewed Publications

Original Research Articles

1.	Ni C, Wei Y,Vona B, Park D, Schmitz DA, Wei Y, Ding Y, Sakurai M, Ballard E, Liu Y, Kumar A, Xing C, Kim HG, Ekmekci C, Karimiani EG, Imannezhad S, Eghbal F, Badv RS, Schwaibold EMC, Dehghani M, Mehrjardi MYV, Metanat Z, Eslamiyeh H, Khouj E, Alhajj SMN, Chedrawi A, Alves CAPF, Houlden H, Kruer M, Alkuraya FS, Cenik C, Yu L, Maroofian R, Wu J, Buszczak M. (2025) A programmed decline in ribosome levels governs human early neurodevelopment. ***Nature Cell Biology***. 27(8):1240-1255. doi: 10.1038/s41556-025-01708-8.
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