CURRICULUM VITAE

1. Name:

Richard N. Freiman
Professor of Molecular Biology, Cell Biology and Biochemistry (with tenure)
Professor of Obstetrics and Gynecology (with tenure)
Department of Molecular Biology, Cell Biology and Biochemistry
Brown University, Providence, RI
Telephone: 401-863-9633 (office), 401-863-9615 (lab)
E-mail: Richard_Freiman@Brown.edu
Website: http://research.brown.edu/myresearch/Richard_Freiman

2. Home address:

58 Hawthorne Avenue
Barrington, RI 02806

3. Education

Undergraduate:	Cornell University, Ithaca, NY
1989	B.S., Nutritional Sciences
Graduate:	State University of New York at Stony Brook, Stony Brook, NY Cold Spring Harbor Laboratory, Cold Spring Harbor, NY Mentor: Winship Herr, Ph.D.
1997	Ph.D., Genetics Dissertation Title: Herpes Simplex Virus-Host Cell Interactions
Postgraduate:	University of California, Berkeley, CA
1998-2003	Postdoctoral Fellow, Molecular & Cell Biology Mentor: Robert Tjian, Ph.D. Area: Tissue-Specific Mechanisms of Gene Expression

4. Professional appointments:

1989-1991	Mass. General Hospital & Harvard Medical School, Boston, MA Senior Research Technician Molecular Neuro-Oncology Laboratory
2003-2010	Brown University, Providence, RI Assistant Professor of Molecular Biology, Cell Biology and Biochemistry Department of Molecular Biology, Cell Biology and Biochemistry
2010-2016	Brown University, Providence, RI Director, Mouse Transgenic and Gene Targeting Facility
2010-present	Brown University, Providence, RI Associate Professor of Molecular Biology, Cell Biology and Biochemistry (with tenure)

2018-present	Department of Molecular Biology, Cell Biology and Biochemistry Brown University, Providence, RI Faculty Supervisor Mouse Transgenic and Gene Targeting Facility
2020-present	Brown University, Providence, RI Professor of Molecular Biology, Cell Biology and Biochemistry (with tenure) Department of Molecular Biology, Cell Biology and Biochemistry
2022-present	Brown University, Providence, RI Professor of Obstetrics and Gynecology (with tenure) Department of Obstetrics and Gynecology

5. Completed Publications:

Refereed journal articles (in chronological order)

Seizinger, B.R., Smith, D.I., Filling-Katz, M.R, Neumann, H., Green, J.S., Choyke, P.L., Anderson, K.M., **Freiman, R.N.,** et al. Genetic flanking markers refine diagnostic criteria and provide insights into the genetics of Von Hippel Lindau disease. *Proc. Natl. Acad. Sci. USA* 88:2864-8 (1991).

Chung, R.Y., Whaley, J.M., Anderson, K.M., Louis, D.N., Menon, A.G., Hettlich, C., **Freiman, R.N.,** et al.. TP53 gene mutations and 17p deletions in human astrocytomas. *Genes Chromosomes Cancer* 3(5): 323-31 (1991).

Goto, H., Motomura, S., Wilson, A.C., **Freiman, R.N.**, Nakabeppu, Y., Nishitani, H., Fujishima, M., Herr, W., and Nishimoto, T. A single point mutation in HCF causes temperature-sensitive cell-cycle arrest and disrupts VP16 function. *Genes & Dev.* 11: 726-37 (1997).

Sutton, A. and **Freiman, R.N.** The Cak1p protein kinase is required at G1/S and G2/M in the budding yeast cell cycle. *Genetics* 147: 57-71 (1997).

Wilson, A.C., **Freiman, R.N.**, Goto, H., Nishimoto, T., and Herr, W. VP16 targets an amino-terminal domain of HCF involved in cell cycle progression. *Mol. Cell. Biol.* 17: 6139-46 (1997).

Freiman R.N. and Herr, W. Viral mimicry: Common mode of association with HCF by VP16 and the cellular protein LZIP. *Genes & Dev*. 11: 3122-7 (1997).

Freiman, R.N., Albright, S.R., Zheng, S., Sha, W.C., Hammer, R.E., and Tjian, R. Requirement of tissue-selective TBP-associated factor TAFII105 in ovarian development. *Science* 293:2084-7 (2001).

Freiman, R.N. and Tjian, R. A glutamine-rich trail leads to transcription factors. *Science* 296:2149-50 (2002).

Freiman R.N., Albright, S.R., Chu, L.E., Zheng, S., Liang, H.E., Sha, W.C., and Tjian, R. Redundant role of tissue-selective TAFII105 in B-lymphocytes. *Mol. Cell. Biol.* 22: 6564-72 (2002).

Freiman, R.N. and Tjian, R. Regulating the regulators: Lysine modifications make their mark. *Cell* 112: 11-7 (2003).

Falender, A.E., **Freiman, R.N.**, Geles, K.G., Hwang, K.S., Morris, P.L., Tjian, R., and Richards, J.S. Maintenance of spermatogenesis requires TAF4b, a gonad-specific component of TFIID. *Genes & Dev.* 19: 794-803 (2005).

Wessel, G.M. and **Freiman, R.N.** Every sperm - and germ cell protocol- is sacred. *Development***:** 132: 5127-8 (2006).

Geles, K.G., **Freiman, R.N.**, Liu, W-L., Zheng, S., Voronina, E. and Tjian, R. Cell type-selective induction of c-jun by TAF4b directs ovarian-specific transcription networks. *PNAS* 103(8)**:** 2594-9 (2006).

Voronina, E., Lovasco, L.A., Gyuris, A., Baumgartner, R.A., Parlow, A.F. and **Freiman, R.N.** Ovarian granulosa cell survival and proliferation requires the gonad-selective TFIID subunit TAF4b. *Dev. Biol. 303***:** 715-26 (2007).

Freiman, R.N. Specific variants of general transcription factors regulate germ cell development in diverse organisms. *BBA-Gene Regulatory Mechanisms* 1789**:** 161-6 (2009).

Gyuris, A., Donovan, D.J., Seymour, K.A., Lovasco, L.A., Smilowitz, N., Halperin, A., Klysik, J. and **Freiman, R.N.** The chromatin targeting protein Brd2 is required for neural tube closure and embryogenesis. *BBA-Gene Regulatory Mechanisms* 1789**:** 413-21 (2009).

Lovasco, L.A., Seymour, K.A., Zafra, K., O'Brien, C.W., Schorl, C., and **Freiman, R.N.** Accelerated ovarian aging in the absence of the transcription regulator TAF4b in mice. *Biol. Reprod*. 82: 23-34 (2010).

Reich, A., Neretti, N., ***Freiman, R.N.** and *Wessel G.M. Transcriptome variance in single oocytes within and between genotypes. *Mol. Reprod. Dev*. 79: 502-3 (2012). *Co-corresponding authors.

Wardell, J.P., Hodgkinson K.M., Binder, A. K., Seymour, K.A., Korach, K.S., Vanderhyden, B.C., and **Freiman, R.N.** Estrogen Responsiveness of the TFIID Subunit TAF4B in the Normal Mouse Ovary and in Ovarian Tumors. *Biol Reprod.* 2013 Nov 14;89(5):116(2013).

Freiman, R.N. Processing the complexities of transcription. *Dev Cell.* Oct 28; 27(2): 123-4 (2013).

Grive KJ, Seymour KA, Mehta R and **Freiman, RN**. (2014) TAF4b Promotes Mouse Primordial Follicle Assembly and Oocyte Survival. Dev Biol. Aug1;392(1):42-51. PMID 24836512.

Ribeiro JR, **Freiman R.N.** (2014) Estrogen signaling crosstalk: Implications for endocrine resistance in ovarian cancer. J Steroid Biochem Mol Biol. Feb 22;143C:160-173. PMID: 24565562.

Ribeiro JR, Lovasco LA, Vanderhyden, BC and **Freiman, R.N.** (2014) Targeting TBP-associated factors in ovarian cancer. Front Oncol. Mar 11; 4:45. PMID: 24653979.

Brown CW, Brodsky AS and **Freiman, R.N.** (2015) Notch3 Overexpression Promotes Anoikis Resistance in Epithelial Ovarian Cancer via Upregulation of COL4A2. Mol Cancer Res. Jan;13(1):78-85. PMID 25169943.

Lovasco LA, Gustafson EA, Seymour, KA, de Rooij, DG and **RN Freiman**. (2015). TAF4b is required for mouse spermatogonial stem cell development. Stem Cells Apr;33(4):1267-1276. PMID: 25727968.

Grive KJ and **Freiman, RN**. (2015) The developmental origins of the mammalian ovarian reserve. Development Aug 1;142(15):2554-2563. PMID: 26243868.

Grive KJ, Gustafson E, Seymour KA, Baddoo M, Schorl C, Golnoski K, Rajkovic A, Brodsky AS and **Freiman, R.N.** (2016) Taf4b regulates oocyte-specific genes essential for meiosis. PLoS Genet. Jun 24;12(6):e1006128.

Gura M and **Freiman, RN**. (2018) The primordial follicle. Encyclopedia of Reproduction, 2nd Edition, Elsevier.

Spade DJ, Dere E, Hall SJ, Schorl C, **Freiman, RN** and Boekelheide K. (2019) All-trans retinoic acid disrupts development in ex vivo cultured fetal rat testes I: Altered seminiferous cord maturation and testicular cell fate. Toxicol Sci. Oct 17.doi: 10.1093/kfy260. PMID:30329139.

James NE, Beffa L, Oliver MT, Borgstadt AD, Emerson JB, Chichester CO, Yano N, **Freiman RN,** DiSilvestro PA, Ribeiro JR. (2019) Inhibition of DUSP6 sensitizes ovarian cancer cells to chemotherapeutic agents via regulation of ERK signaling response genes. Oncotarget. May 21;10(36):3315-3327. PMID:31164954.

Gura MA, Mikedis, MM, Seymour KA, de Rooij, DG, Page DC and **Freiman, RN**. Dynamic and regulated TAF gene expression during mouse embryonic germ cell development. PLoS Genet. 2020 Jan 8;16(1):e1008515. doi: 10.1371/journal.pgen.1008515. PMID: 31914128.

Gustafson EA, Seymour, KA, Sigrist, K, de Rooij, DG and **RN Freiman**. ZFP628 is a TAF4b-interacting transcription factor required for mouse spermiogensis. Mol Cell Biol. 2020 Jan 13. pii: MCB.00228-19. doi: 10.1128/MCB.00228-19. PMID: 31932482.

Sloutskin A, Shir-Shapira H, **Freiman RN** and Juven-Gershon T. (2021) The Core Promoter Is a Regulatory Hub for Developmental Gene Expression. Front. Cell Dev. Biol. Sep 10;9:666508. doi: 10.3389/fcell.2021.666508. PMID: 34568311.

Gura MA, Relovska S, Abt KM, Seymour KA, Wu T, Kaya H, Turner JMA, Fazzio TG and **Freiman, RN**. (2022) TAF4b Transcription Networks Regulating Early Oocyte Differentiation. Development, https://doi.org/10.1242/dev.200074, PMID: 35043944.

James NE, Gura MA, Woodman M, **Freiman RN** and Ribeiro JR. (2022) A bioinformatic analysis of WFDC2 (HE4) expression in high grade serous ovarian cancer reveals tumor-specific changes in metabolic and extracellular matrix gene expression. Med Oncology, May 15;39(5):71. PMID: 35568777

Abstracts/Posters Presented

Germ Cells. Cold Spring Harbor Laboratory, October 13-17, 2004. Cold Spring Harbor, New York. (Poster, R.N.F).

Mechanisms of Eukaryotic Transcription. Cold Spring Harbor Laboratory.
August 31-September 4, 2005. Cold Spring Harbor, New York (Poster, R.N.F).

Stem Cell and Cancer Therapeutics. Rhode Island Convention Center.
May 24, 2006. Providence, Rhode Island (2 Posters, Gyuris and Lovasco).
Mammalian Gametogenesis and Embryogenesis. Gordon Research Conference
Connecticut College, June 18-23, 2006. New London, CT (Poster, R.N.F.).

National Idea Symposium of Biomedical Research. July 20-22, 2006. Washington, DC
(Poster, Lovasco).

Colloquium on the Biology of Aging. Marine Biological Laboratory, August 17-19, 2006.
Woods Hole, MA.

Cancer, Development and Regenerative Medicine. COBRE/INBRE Symposium, Rhode Island Convention Center, May 30, 2007. Providence, RI (2 Posters, Gyuris and Lovasco).

Colloquium on the Biology of Aging. Marine Biological Laboratory, August 16-18, 2007.
Woods Hole, MA.

Reproductive Tract Biology Gordon Research Conference. Proctor Academy, August 3-8, 2008. Andover, NH.

Colloquium on the Biology of Aging. Marine Biological Laboratory, August 20-22, 2008. Woods Hole, MA.

The Regulation and Transcription of Eukaryotic Gene Expression, Glen Cove Mansion Hotel and Conference Center, July 31- August 2, 2009. Glen Cove, NY (Session Chair).

Mammalian Gametogenesis and Embryogenesis, Gordon Research Conference. Waterville Valley Resort, August 2-7, 2009. Waterville Valley, NH (Poster, R.N.F.).

Ovarian Workshop, Hilton Milwaukee City Center, July 28-30, 2010. Milwaukee, WI (Poster, R.N.F.).

45th Annual Meeting of the Society for the Study of Reproduction and 18th Ovarian Workshop, August 12-August 15, 2012. State College, PA. (Poster presented Graduate Student J. Wardell).

Germ Cells. Cold Spring Harbor Laboratory, October 2-6, 2012. Cold Spring Harbor, New York. (Poster presented by Postdoctoral Fellow E. Gustafson).

46th Annual Meeting of the Society for the Study of Reproduction, July 22-26, 2013. Montreal, Quebec, Canada. (Poster presentation by J. Wardell)

AACR Advances in Ovarian Cancer Research. Sept. 18-21, 2013. Miami, FL (Poster presentation by J. Wardell)

Cell Symposia: Transcriptional Regulation in Development. July 13-16, 2014. (Poster presented by E. Gustafson).

World Congress of Reproductive Biology, Sept 2-4, 2014. Edinburgh, Scotland. (Poster presentation by K. Grive)

10th Biennial Ovarian Cancer Research Symposium, Sept 8-9, 2014. Seattle, WA (Poster, R.N.F.).

Germ Cells. Cold Spring Harbor Laboratory, October 7-11, 2014. Cold Spring Harbor, New York. (Two poster presentations by E. Gustafson and K. Grive).

52nd Annual Meeting of the Society for the Study of Reproduction, July 18-21, 2019. San Jose, California. (Oral and Poster presentation by M. Gura)

Mechanisms of Eukaryotic Transcription. Cold Spring Harbor Laboratory. August 27-31, 2019. Cold Spring Harbor, New York (Poster presentation by M. Gura).

53rd Annual Meeting of the Society for the Study of Reproduction, July 9-12, 2020. Virtual (Oral and Poster presentations by M. Gura; Poster presentation by K. Abt)

54th Annual Meeting of the Society for the Study of Reproduction, Dec. 13-18, 2021. St. Louis, Missouri (Virtual Poster presentations by K. Abt and S. Relovska).

Gordon Research Conference on Mammalian Reproduction, Aug 14-19, 2022. Mt. Snow VT. (Poster presentations by K. Abt and M. Bartholomew)

Invited Lectures

2003 University of Massachusetts Medical Center, Program in Gene Expression
Dartmouth Medical College, Department of Pharmacology and Toxicology
University of Illinois, Champaign-Urbana, Department of Molecular and Integrative Physiology
SUNY Buffalo, Department of Biology

2004 University of Vermont Medical School, Department of Biochemistry
University of Michigan Medical School, Department of Cell and Developmental Biology
University of Massachusetts, Amherst, Department of Veterinary and Animal Sciences
Brown University, Department of Molecular and Cell Biology and Biochemistry
Cornell University, Department of Molecular Biology and Genetics
SUNY Stony Brook, Department of Pharmacology
University of California, San Francisco, Department of Obstetrics and Gynecology
NYU School of Medicine, Department of Pharmacology

2007 Women and Infants Hospital, Reproductive Biology Seminar Series, 1/23/07

2008 University of Texas Health Science Center at San Antonio,
Molecular Medicine Seminar Series, 1/15/08
Women and Infants Hospital, Liver Research Center Seminar Series, 1/24/08
Brandeis University, Colloquium Series in the Life Sciences, 3/19/08

2009 Harvard University School of Public Health, Department of Genetics and Complex Diseases, 5/13/09
University of Colorado at Boulder, Department of Chemistry and Biochemistry, 6/16/09
Syracuse University, Department of Biology, 9/4/09

2011 University of Ottawa, Center for Cancer Therapeutics, 3/7/11
Michigan State University, Department of Animal Science, 4/14/11
University of Massachusetts Medical School, Department of Cell Biology 10/26/11

2012 University of Cambridge, Gurdon Institute, 6/13/12
Kings College London, Department of Craniofacial Development, 6/15/12

2014 University of Virginia, Pathology Department, 3/25/14

2015 Rhode Island Hospital, Pathology Department, 2/17/15
University of Texas, San Antonio, Department of Biology, 11/23/15

2016 Indiana University, Bloomington, Medical Sciences Program, 2/8/16

2017 UT Southwestern Medical School, Green Center for Reproductive Biology, 1/10/17
UMASS Medical School, Molecular, Cell and Cancer Biology, 9/15/17

2018 Women and Infants Hospital of RI, Reproductive Biology and Women's Health, 4/24/18

2019 University of Kansas Medical Center, Pathology Department, 10/3/19

2022 Brown University, Gynecologic Cancers TRDG, 9/8/22

Papers Read

Mechanisms of Eukaryotic Transcriptional Regulation. Keystone Symposia, February 26-March 4, 2001. Santa Fe, New Mexico (Invited Speaker).

Transcriptional Regulation During Cell Growth, Differentiation and Development. FASEB Summer Research Conferences, June 28-July 3, 2002. Saxtons River, Vermont (Invited Speaker).

Germ Cells. Cold Spring Harbor Laboratory, October 9-13, 2002. Cold Spring Harbor, New York (Invited Speaker).

Chromatin and Transcription. Center for Biomedical Genetics Symposium, November 21-22, 2002. Amsterdam, The Netherlands (Invited Speaker).

Society For Developmental Biology, Northeast Developmental Biology Conference. Marine Biological Laboratory, April 22-24, 2005. Woods Hole, MA (Invited Speaker).
41st Annual Meeting of the Society for the Study of Reproduction. May 27-30, 2008. Kailua-Kona, Hawaii (Invited Symposia Speaker).

MSU Summer Symposium on Transcriptional Regulation and Systems Biology, East Lansing, Michigan. July 18-20, 2008 (Invited Speaker).

Molecular Reproduction and Development Conference, Brown University, March 23-26, 2009. Providence, RI (Invited Speaker).

42nd Annual Meeting of the Society for the Study of Reproduction, July 18-22, 2009. Pittsburgh, PA. (Graduate student L. Lovasco abstract selected for platform presentation).

Colloquium on the Biology of Aging. Ellison Medical Foundation. Marine Biological Laboratory, August 11-14, 2010. Woods Hole, MA (Invited Speaker).

Germ Cells. Cold Spring Harbor Laboratory, October 5-9, 2010. Cold Spring Harbor, New York (Invited Speaker, could not attend due to health issues).

44th Annual Meeting of the Society for the Study of Reproduction, July 31-August 4, 2011. Portland, OR. (Invited Speaker).

The XXII North American Testis Workshop. April 10-13, 2013. San Antonio, TX. (Invited Speaker).

46th Annual Meeting of the Society for the Study of Reproduction, July 22-26, 2013. Montreal, Quebec, Canada. (Platform presentation by K. Grive)

Rhode Island NIH IDeA Symposium, April 2, 2015. Providence, RI (Invited Speaker).

48th Annual Meeting of the Society for the Study of Reproduction, June 18-22, 2015. San Juan, Puerto Rico. (Platform presentation by K. Grive)

Gordon Research Conference on Mammalian Reproduction, Aug 21-26, 2016. Waterville Valley, NH. (Platform presentation by K. Grive)

Gordon Research Conference on Mammalian Reproduction, July 29-Aug 3, 2018. Lucca (Barga), Italy. (Invited Speaker)

Regulation of transcription: From genetics and biochemistry to single molecule visualization. September 20-22, 2019. Pacific Grove, California (Invited Speaker).

Gordon Research Conference on Mammalian Reproduction, Aug 14-19, 2022. Mt. Snow VT. (Platform presentation by M. Gura)

6. GRANTS

Current

2019285 (Freiman, R.N. and Juven-Gershon,T.) 09/01/2020-08/31/2024
US-Israel Binational Science Foundation Annual Direct Costs: $31,295
Alternative TFIID Assemblies and Core Promoter Regulation of Pluripotency and Differentiation
The major goal of this project is to establish an international collaboration with Dr. Tamar Juven-Gershon at Bar Ilan University in Israel to study the role of core promoter recognition in driving embryonic stem cell pluripotency and differentiation.

1R01 HD091848-01A1 (Freiman) 08/10/2018-05/31/2023 (NCE)
NIH/NICHD Annual Direct Costs: $249,655
Dynamic Regulation of the Ovarian Reserve
The major goal of this project is to understand the cell type-specific and temporal functions and mechanisms of TAF4b in promoting the normal development of the mouse ovarian reserve.

P20 GM11943 (PI: Quesenberry, P.) 07/01/2017-06/30/2022
NIH/NIGMS
COBRE Center for Stem Cells and Aging
The major goal of this program project is to understand stem cells, their microenvironment, the aging process and their relationship to myeloid or neural diseases of the elderly.
Role: Mentor

Pending

1 R01 GM151183-01 (Freiman, R.N.) 07/01/2023-06/30/2028
NIH/NIGMS Annual Direct Costs: $283,068
Transcriptional Reprograming Embryonic Male Germ Cells
The major goals of this project are to identify the interconnections between transcription, DNA methylation and cell cycle regulation during embryonic and early postnatal prospermatogonial development in the mouse testis.

1 R01 HD113567-01 (Freiman, R.N.) 09/01/2023-08/31/2028
NIH/NICHD Annual Direct Costs: $296,490

Regulating Establishment of the Mammalian Ovarian Reserve
The major goals of this project are to understand if and how transcription and chromatin modifications are coupled during establishment of the embryonic mouse ovarian reserve.

Completed

U54GM115677 (PI: Padbury, J.) 5/1/2018-6/30/2018
NIH/NHLBI
Advance CTR Grant Resubmission Award
Role: Pilot Award Lead
The major goal of this project is to continue to collect preliminary data for my NIH application which received a competitive score upon its NIH review.

2R56HD065445-06A1 (PI: Freiman, R.N.) 02/08/2016-01/31/2018
NIH-NICHD
Ovarian-Specific Transcription Networks Regulated by the TFIID Subunit TAF4b
The major goal of this project is to elucidate the mechanisms of the TAF4b subunit of TFIID in the regulation of ovarian-specific networks of gene expression.

6R01HD065445-05 (PI: Freiman, R.N.) 04/01/10-03/31/16
National Institutes of Health
Ovarian-specific transcription networks regulated by the TFIID subunit TAF4b
The major goal of this project is to elucidate the mechanisms of the TAF4b subunit of TFIID in the regulation of ovarian-specific networks of gene expression.

1P30RR031153 (PI: Atwood, W.) 04/15/2011-03/31/2017
NIH-NIGMS
Center for Cancer Signaling Networks - COBRE Core C (Director, Transgenic Core)
The major goal of this project is to support the genomics, proteomics and transgenic mouse core facilities situated in the Laboratories for Molecular Medicine at Brown University.

Research Scholar Grant DMC-117629 (PI: Freiman, R.N.) 07/01/2009-06/30/2013
American Cancer Society
TAF4b function in granulosa cell proliferation and ovarian tumorigenesis
The major goal of this project is to uncover the potential impact of TAF4b regulation in ovarian cancer using multiple mouse transgenic models.

2 P20 RR015578-06 (PI Atwood, W.) 7/1/2005-2/28/2010
National Institutes of Health
COBRE Award: Center For Cancer Signaling Networks
Project 1: Gonad-Specific Transcriptional Cofactors
The major goals of this project are to determine the proliferative effects and transcriptional outputs of over-expression of TAF4b in the mouse ovary by transgenesis.
Role: Project 1 Leader

New Scholar Award in Aging (PI: Freiman, R.N.) 7/1/2006-06/30/2010
The Ellison Medical Foundation
Germline Stem Cell Maintenance During Mammalian Spermatogenesis
The major goals of this project are to identify the potential functions of TAF4b in the regulation of testicular homeostasis and premature testicular aging in the context of the TAF4b-deficient mice.

Innovations in Women's Health Research Seed Grant (PIs: Freiman, R.N. and Hixon, M.L.)
National Center of Excellence in Women's Health 11/01/06-10/31/07
Brown University and Women & Infants Hospital Direct Costs: $20,000
Mouse Models of Female Reproductive Anomalies
The major goals of this project are to explore the potential function of MED 26/CRSP 70 and AKT1 in normal mouse utero-placental development using gene-targeted knockout mice.

Research Seed Grant (PI Brodsky, A., Co-PIs: Freiman, R.N., Brard, L. and C. Lawrence)
Office of the Vice President for Research, Brown University 3/01/06-2/29/07
The goal of this project is to take a global genomic view to understand the effect of vitamin D and the vitamin D derivative, MT19C, on ovarian tumors.

7. SERVICE

Service to the University

2003 Developmental Biologist Search Committee
Ph.D. Thesis Committees: Jae Lim (Fallon Lab), Shan Wei (Sedivy Lab)

2004 Ph.D. Thesis Committees: Jae Lim (Fallon Lab), Martina Strbuncelj (Serio Lab)
First Year Graduate Student Advisory Committees

2005 Ph.D. Thesis Committees: Megan Stanifer, Joslynn Jordan (Atwood Lab), James Gagnon (Mowry Lab), Anne Booker (Fallon Lab), Liz Bartley (Zhitkovich Lab), Tsedensodnom Orkhontuya (Wands Lab)
Honors Undergraduate Thesis Reader: Karen Kan (Mowry Lab), Vincent Leung (Smith Lab).
MCB Executive Committee
MCB Curriculum Committee
Developmental Biologist Search Committee
MCB Graduate Program Admissions Committee
Concentration Advisor-Biology

2006 Ph.D. Thesis Committees: Megan Stanifer, Joslynn Jordan (Atwood Lab), James Gagnon (Mowry Lab), Anne Booker (Fallon Lab), Liz Bartley (Zhitkovich Lab), Tsedensodnom Orkhontuya (Wands Lab), Maryanna Aldrich (Wharton Lab)
MCB Graduate Program Admissions Committee
Undergraduate Biology Senior Prize Selection Committee
Concentration Advisor-Biology

2007 Ph.D. Thesis Committees: Megan Stanifer, Joslynn Jordan (Atwood Lab), James Gagnon (Mowry Lab), Anne Booker (Fallon Lab), Liz Bartley (Zhitkovich Lab), Tsedensodnom Orkhontuya (Wands Lab), Maryanna Aldrich (Wharton Lab), Hanna Rauch (Fallon Lab), Stephen Brown (Zervas Lab), Nelwynn Hagan (Zervas Lab).
Honors Undergraduate Thesis Reader: Linnea Anderson (Hixon Lab), Rashidah Green (Brodsky Lab), Jonathan Levin (Fairbrother lab) and Christina Parodi (Creton Lab).
MCB Curriculum Committee
Concentration Advisor-Biology
Undergraduate Biology Commencement Address 5/25/08

2008 Ph.D. Thesis Committees: Megan Stanifer, Joslynn Jordan (Atwood Lab), James Gagnon (Mowry Lab), Anne Booker (Fallon Lab), Liz Bartley (Zhitkovich Lab), Tsedensodnom Orkhontuya (Wands Lab), Maryanna Aldrich (Wharton Lab), Hanna Rauch (Fallon Lab), Stephen Brown, Nelwynn Hagan (Zervas Lab), Eric Gustafson (Wessel Lab).
MCB Executive Committee
Frank and Levy Fellowship Selection Committee
Concentration Advisor-Biology

2009 Ph.D. Thesis Committees: Joslynn Jordan (Atwood Lab), Alec DeSimone, Christina Sowards (Laney Lab) James Gagnon (Mowry Lab), Tsedensodnom Orkhontuya (Wands Lab), Maryanna Aldrich (Wharton Lab), Hanna Rauch (Fallon Lab), Stephen Brown, Nelwynn Hagan (Zervas Lab), Eric Gustafson (Wessel Lab).
MCB Graduate program curriculum committee
Frank and Levy Fellowship Selection Committee
Concentration Advisor-Biology

2010 Ph.D. Thesis Committees: Joslynn Jordan (Atwood Lab), James Gagnon (Mowry Lab), Tsedensodnom Orkhontuya (Wands Lab), Maryanna Aldrich (Wharton Lab), Hanna Rauch (Fallon Lab), Stephen Brown, Nelwynn Hagan (Zervas Lab), Jeena Santos-Ahmed, Benjamin Moyer (Hixon Lab), Nick Heger, Camelia Saffarini (Boekelheide Lab), Jessica Chery (Larschan Lab).
MCB Graduate Program Admissions Committee
Women and Infants Neonatology Search Committee
Frank and Levy Fellowship Selection Committee
Concentration Advisor-Biology

2011 Ph.D. Thesis Committees: Maryanna Aldrich (Wharton Lab), Hanna Rauch (Fallon Lab), Stephen Brown, Nelwynn Hagan (Zervas Lab), Jeena Santos-Ahmed, Jessica LaRocca, Benjamin Moyer (Hixon Lab), Nick Heger, Camelia Saffarini (Boekelheide Lab), Jessica Chery (Larschan Lab), Anne Saunders (Padbury Lab).
Frank and Levy Fellowship Selection Committee
Concentration Advisor-Biology

2012 Ph.D. Thesis Committees: Maryanna Aldrich (Wharton Lab), Hanna Rauch (Fallon Lab), Stephen Brown, Nelwynn Hagan (Zervas Lab), Jessica LaRocca, Benjamin Moyer (Hixon Lab), Camelia Saffarini, Natasha Catlin, Marguerite Vontangoli, (Boekelheide Lab), Jessica Chery (Larschan Lab), Anne Saunders (Padbury Lab).
MCB Graduate Program Admissions Committee
Frank and Levy Fellowship Selection Committee
Concentration Advisor-Biology

2013 Ph.D. Thesis Committees: Camelia Saffarini, Natasha Catlin, Marguerite Vontangoli, (Boekelheide Lab), Jessica Chery, Emily Kaye (Larschan Lab), Anne Saunders (Padbury Lab), Hilary Magruder (Filardo Lab) Alex Conciella, (Fawzi Lab).
Chair, MCB Graduate Program Admissions Committee

Undergraduate Biology Senior Prize Selection Committee
Concentration Advisor-Biology

2014 Ph.D. Thesis Committees: Marguerite Vontangoli, (Boekelheide Lab), Emily Kaye (Larschan Lab), Anne Saunders (Padbury Lab), Alex Conciella, (Fawzi Lab), Jenna Kotak (Bender Lab), Erin Kennedy (Delaney Lab), Zak Swartz (Wessel Lab).
MCB Graduate Program Admissions Committee
Vice-Chair, IACUC Committee
Concentration Advisor-Biology

2015 Ph.D. Thesis Committees: Marguerite Vontangoli, (Boekelheide Lab), Emily Kaye (Larschan Lab), Anne Saunders (Padbury Lab), Alex Conciella, (Fawzi Lab), Jenna Kotak (Bender Lab), Erin Kennedy (Delaney Lab), Abbie Maguire (Morrow Lab), Valerie Zabala (Gruppuso Lab)
MCB Graduate Program Admissions Committee
Vice-Chair, IACUC Committee
Concentration Advisor-Biology

2016 Ph.D. Thesis Committees: Marguerite Vontangoli, (Boekelheide Lab), Emily Kaye (Larschan Lab), Alex Conciella, (Fawzi Lab), Jenna Kotak (Bender Lab), Erin Kennedy (Delaney Lab), Abbie Maguire (Morrow Lab), Valerie Zabala (Gruppuso Lab), Lauren Olinski (Oancea Lab)
MCB Graduate Program Admissions Committee
Vice-Chair, IACUC Committee
Concentration Advisor-Biology
Faculty Liaison – Brown University Women's Ice Hockey Team
External Ph.D. Thesis Examiner, Dr. Katherine Romer, MIT (Page Lab), 7/7/16

2017 Ph.D. Thesis Committees: Alex Conciella, (Fawzi Lab), Jenna Kotak (Bender Lab), Erin Kennedy (Delaney Lab), Valerie Zabala (Gruppuso Lab), Lauren Olinski (Oancea Lab), Carolina Mejia Pena (Dawson Lab), Jessica Sadick (Darling Lab), Abigail Brown (Webb Lab), Sean Gillis (Dennery Lab).
MCB Graduate Program Admissions Committee
Vice-Chair, IACUC Committee
Concentration Advisor-Health and Human Biology
Faculty Liaison – Brown University Women's Ice Hockey Team
External Ph.D. Thesis Examiner, Dr. Xiaoming Sun, UMASS Medical School (Kaufman Lab), 9/15/17

2018 Ph.D. Thesis Committees: Jenna Kotak (Bender Lab), Erin Kennedy (Delaney Lab), Valerie Zabala (Gruppuso Lab), Lauren Olinski (Oancea Lab), Carolina Mejia Pena (Dawson Lab), Abigail Brown (Webb Lab), Jenna Morris-Love (Atwood Lab), Amy Elias (Kreiling Lab), Sean Gillis (Dennery Lab).
Chair, MCB Curriculum Committee
Member, Biology Curriculum Committee
Vice-Chair, IACUC Committee
Concentration Advisor-Health and Human Biology
Faculty Liaison – Brown University Women's Ice Hockey Team
Interim Director, Mouse Transgenic and Gene Targeting Core Facility

MMI Faculty Search Committee

2019 Ph.D. Thesis Committees: Jenna Kotak (Bender Lab), Erin Kennedy (Delaney Lab), Valerie Zabala (Gruppuso Lab), Lauren Olinski (Oancea Lab), Carolina Mejia Pena (Dawson Lab), Abigail Brown (Webb Lab), Jenna Morris-Love (Atwood Lab), Amy Elias (Kreiling Lab), Sean Gillis (Dennery Lab), Alice Pieplow (Wessel Lab) and Stephany Foster (Wessel Lab).
Chair, MCB Curriculum Committee
Member, Biology Curriculum Committee
Vice-Chair, IACUC Committee
Concentration Advisor-Health and Human Biology
Faculty Liaison – Brown University Women's Ice Hockey Team
Faculty Advisor, Mouse Transgenic and Gene Targeting Core Facility

2020 Ph.D. Thesis Committees: Jenna Kotak (Bender Lab), Lauren Olinski (Oancea Lab), Carolina Mejia Pena (Dawson Lab), Abigail Brown (Webb Lab), Jenna Morris-Love (Atwood Lab), Amy Elias (Kreiling Lab), Sean Gillis (Dennery Lab), Alice Pieplow (Wessel Lab), Maureen Dowell (Bennet Lab) Stephany Foster (Wessel Lab), Shanelle Reilly (Brossay Lab), Farha Mithila (Beura Lab) and Maha Alhasnani (Spade Lab).
Chair, MCB Curriculum Committee
Chair, MCBGP Admissions Committee
Member, Biology Curriculum Committee
Vice-Chair, IACUC Committee
Concentration Advisor-Health and Human Biology
Faculty Advisor, Mouse Transgenic and Gene Targeting Core Facility

2021 Ph.D. Thesis Committees: Carolina Mejia Pena (Dawson Lab), Abigail Brown (Webb Lab), Jenna Morris-Love (Atwood Lab), Amy Elias (Kreiling Lab), Sean Gillis (Dennery Lab), Alice Pieplow (Wessel Lab), Maureen Dowell (Bennet Lab) Stephany Foster (Wessel Lab), Shanelle Reilly (Brossay Lab), Farha Mithila (Beura Lab), Maha Alhasnani (Spade Lab) and Gordo King (Bennet Lab).
Chair, MCB Curriculum Committee
Member, MCBGP Admissions Committee
Member, Biology Curriculum Committee
Vice-Chair, IACUC Committee
Concentration Advisor-Health and Human Biology
Faculty Advisor, Mouse Transgenic and Gene Targeting Core Facility

2021 Ph.D. Thesis Committees: Carolina Mejia Pena (Dawson Lab), Abigail Brown (Webb Lab), Jenna Morris-Love (Atwood Lab), Amy Elias (Kreiling Lab), Sean Gillis (Dennery Lab), Alice Pieplow (Wessel Lab), Maureen Dowell (Bennet Lab) Stephany Foster (Wessel Lab), Shanelle Reilly (Brossay Lab), Farha Mithila (Beura Lab), Maha Alhasnani (Spade Lab) and Gordo King (Bennet Lab).
Chair, MCB Curriculum Committee
Member, MCBGP Admissions Committee
Member, Biology Curriculum Committee
Vice-Chair, IACUC Committee
Concentration Advisor-Health and Human Biology
Faculty Advisor, Mouse Transgenic and Gene Targeting Core Facility

2022 Ph.D. Thesis Committees: Carolina Mejia Pena (Dawson Lab), Jenna Morris-Love (Atwood Lab), Amy Elias (Kreiling Lab), Cosmo Pieplow (Wessel Lab), Maureen Dowell (Bennet Lab) Stephany Foster (Wessel Lab), Shanelle Reilly (Brossay Lab), Farha Mithila (Beura Lab), Maha Alhasnani (Spade Lab) and Gordo King (Bennet Lab), Dominique Pablito (Larschan Lab).
Chair, MCB Curriculum Committee
Member, MCBGP Admissions Committee
Member, Biology Curriculum Committee
Vice-Chair, IACUC Committee
Concentration Advisor-Health and Human Biology
Faculty Advisor, Mouse Transgenic and Gene Targeting Core Facility

Service to the Profession

2003-present Peer review of manuscripts for the following journals:
Development, Genes and Development, PNAS, Molecular Reproduction and Development, Breast Cancer Research, Developmental Biology, PLoS Genetics, Biology of Reproduction, Scientific Reports and eLife

2009-present Associate Editor, Molecular Reproduction and Development and Biology of Reproduction

2009 NIH CMIR Study Section, Ad-hoc reviewer

2009 Session Chair, The Regulation and Transcription of Eukaryotic Gene Expression, Glen Cove, NY

2010-2015 Member, DNA Mechanisms in Cancer Study Section, American Cancer Society

2012 NIH ICER Study Section, Ad-hoc reviewer

2013-2018 Member, NIH CMIR Study Section

2017-present Associate Editor, Biology of Reproduction

2019 NIH ENMR ZRG1 F06 A (20) Fellowship Review Panel Ad-hoc member

2020 NIH ZHD1 DSR-M(55) NCTRI/NICHD study section Ad-hoc member

2021 NIH CMIR Study Section-Ad-hoc member

2021 NIH ZRG1 EMNR-D(02) study section Ad-hoc member

2022 NIH ZRG1 F06-B(02) study section Ad-hoc member

2022 NIH-NICHD P50 panel member, National Centers for Translational Research in Reproduction and Infertility

2022 Co-Vice Chair, Gordon Research Conference on Mammalian Reproduction

8. HONORS

Academic Honors

1987 Dean's List, Cornell University

2021 Dean's Award for Excellence in Graduate and/or Postdoctoral Teaching and Mentoring in Biological Sciences, Brown University

Fellowships

1999-2002 Leukemia and Lymphoma Society Postdoctoral Research Fellow

2002-2003 Howard Hughes Medical Institute Postdoctoral Research Fellow

2006-2010 Ellison Medical Foundation New Scholar Award in Aging

2009-2010 Brown/NSF Advance Career Development Award

2010-2013 Research Scholar Grant, American Cancer Society

9. TEACHING

Fall 2003
BIO 201A, Introduction to Faculty Research, 1 lecture
BIO 131, Analysis of Development, 1 lecture

Fall 2004
BIO 201A, Introduction to Faculty Research, 1 lecture
BIO 131, Analysis of Development, 1 lecture
BIO 127, Advanced Biochemistry, 1 lecture

Spring 2005
BIO 220, Current topics in biochemistry and molecular biology
Chromatin and gene expression in development and disease
Seminar course leader (80%) and co-instructor with Professor Alison DeLong (20%). Ten students (7 graduate students, 3 undergraduates)
Averaged overall instructor evaluation*: 1.8

Fall 2005
BIO 131/231, Analysis of Development, co-instructor (50%) with Professor Kristi Wharton. Twenty five students (15 undergraduates, 10 graduate students) Averaged overall instructor evaluation*: 1.8

BIO 105/205, Eukaryotic Cell Biology, 2 lectures on Chromatin and Transcription

Spring 2006
BIO 248, Current Topics in Genetics: Molecular Genetics of Sex.
Graduate seminar course, co-instructor (50%) with Professor Michael Mckeown (6 students) Averaged overall instructor evaluation*: 1.3

Fall 2006
BIO 233, Current Topics in Developmental Biology: Molecular Basis of Cell-Cell Recognition. Graduate seminar course. co-instructor (33%) with Professors Kristi Wharton and Mark Johnson.
(11 students) Averaged overall instructor evaluation*: 1.1

Spring 2007	BIO 131/231, Analysis of Development, Co-course leader (50% of course responsibility) with Professor Kristi Wharton (16 undergraduates) Averaged overall instructor evaluation*: 1.7
	BIO 152/252, Molecular Genetics, 1 lecture
Spring 2008	BIO 131/231, Analysis of Development, Course leader, instructor (40%) with Professor Mark Zervas and Professor Kristi Wharton (22 undergraduates, 9 graduate students) Averaged overall instructor evaluation*: 1.6
	BIO 152/252, Molecular Genetics, 1 lecture
Spring 2009	BIO 0050, Cell and Molecular Biology, Course instructor (50%) with Professor Peter Heywood (124 undergraduates, 1 graduate student) Averaged overall instructor evaluation*: 2.0
Spring 2010	BIOL 1310/2310, Analysis of Development, Course instructor (25%) with Professor Gary Wessel and Mark Zervas (8 undergraduates, 2 graduate students) Averaged overall instructor evaluation*: 2.1/1.0 (BIOL 1310/BIOL 2310)
	BIOL 0050, Cell and Molecular Biology, Course instructor (25%) with Professor Peter Heywood and Walter Atwood (142 undergraduates) Averaged overall instructor evaluation*: 2.3
Fall 2010	BIOL 2290D, Current Topics in Cell Biology, MicroRNA Regulation of Germ Cells and Development, Course instructor (50%) with Professor Mark Johnson (6 undergraduates, 2 graduate students, 1 medical fellow) Averaged overall instructor evaluation*: 1.1
	BIOL 2840, Reproductive Toxicology, 1 lecture on Sex Determination
Spring 2011	BIOL 0050, Cell and Molecular Biology, Course instructor (50%) with Professor Walter Atwood (124 undergraduates, 1 graduate student) Averaged overall instructor evaluation*: 2.0
Fall 2011	BIOL 2290D, Current Topics in Cell Biology, Small RNA Regulation of Germ Cells and Development, Course instructor (50%) with Professor Mark Johnson (7 undergraduates, 2 graduate students) Averaged overall instructor evaluation*: 1.2
Spring 2013	BIOL 0050, Cell and Molecular Biology, Course instructor (50%) with Professor Peter Heywood (115 undergraduates) Averaged overall instructor evaluation*: 2.0
Fall 2013	BIOL 2150, Scientific Communication, Course Instructor with Professors Kimberly Mowry and Erica Larschan (11 graduate students)

Spring 2014	BIOL 0050, Cell and Molecular Biology, Course leader and instructor (50%) with Professor Peter Heywood (99 undergraduates) Averaged overall instructor evaluation*: 1.9
Fall 2014	BIOL 1970A, Stem Cell Biology, Course leader and instructor (100%; 22 undergraduates) Averaged overall instructor evaluation*: 1.3
Spring 2015	BIOL 0050, Cell and Molecular Biology, Course leader and instructor (50%) with Professor Mark Alliegro (68 undergraduates) Averaged overall instructor evaluation*: 1.5
Spring 2016	BIOL 0050, Cell and Molecular Biology, Instructor (25%) with Professors Peter Heywood and Asheley Webb (96 undergraduates) Averaged overall instructor evaluation*: 1.9
Fall 2016	BIOL 1970A, Stem Cell Biology, Course leader and instructor (100%; 12 undergraduates, 1 graduate student) Averaged overall instructor evaluation*: 1.1
Fall 2017	BIOL 1970A, Stem Cell Biology, Course leader and instructor (100%; 22 undergraduates, 1 graduate student) Averaged overall instructor evaluation*: 1.2
Spring 2018	BIOL 0050, Cell and Molecular Biology, Instructor (50%) with Professor Ashley Webb (80 undergraduates) Averaged overall instructor evaluation*: 1.5
Fall 2018	BIOL 1970A, Stem Cell Biology, Course leader and instructor (100%; 20 undergraduates) Averaged overall instructor evaluation*: 1.3
Spring 2019	BIOL 0050, Cell and Molecular Biology, Instructor (25%) with Professors Peter Heywood and Ashley Webb (72 undergraduates) Averaged overall instructor evaluation*: 1.8 *Rating legend (1=excellent, 2=very good, 3=good, 4=fair, 5=poor)
Fall 2019	BIOL 1970A, Stem Cell Biology, Course leader and instructor (50%) with Professor Webb (20 undergraduates) Averaged overall instructor evaluation**: 4.8 **Rating legend (1=lowest, 5=highest)
Spring 2020	BIOL 0050, Cell and Molecular Biology, Instructor (50%) with Professor Peter Heywood (99 undergraduates) Averaged overall instructor evaluation**: 4.6 **Rating legend (1=lowest, 5=highest)
Spring 2021	BIOL 0050, Cell and Molecular Biology, Instructor (50%) with Professor Peter Heywood (117 undergraduates) Averaged overall instructor evaluation**: 4.5 **Rating legend (1=lowest, 5=highest)

Fall 2021 BIOL 1970A, Stem Cell Biology, Course leader (100%) (12 undergraduates, 4 graduate students) Averaged overall instructor evaluation**: 5.0
**Rating legend (1=lowest, 5=highest)

Fall 2022 BIOL 1970A, Stem Cell Biology, Course leader and instructor (50%) with Professor Webb (10 undergraduates, 4 graduate students) Averaged overall instructor evaluation**: 4.8
**Rating legend (1=lowest, 5=highest)

Academic Advising and Independent Study

Total Number of Undergraduate Honor's Theses Awarded: 11
Total Number of Ph.D. Theses Awarded: 6
Total Number of postdoctoral fellows: 4
Total Number of Health and Human Biology Concentration Advisee's: 25

Brown Undergraduate Research and Teaching Assistants (BIOL 1950/1960)

2004-2005 Mr. Robert Baumgartner
B.S., Brown University, May 2005
Project: The role of $TAF_{II}105$ in FSH-mediated transcriptional regulation.
Support: Howard Hughes Medical Institute
Honors Awarded 5/05
Elizabeth Leduc Prize in Experimental Biology

Mr. Nathaniel Smilowitz
B.S., Brown University, May 2005
Project: The role of Fsrg1 in transcription and reproduction.
Support: Howard Hughes Medical Institute
Honors Awarded 5/05
Elizabeth Leduc Prize in Experimental Biology

2005-2006 Ms. Binny Chokshi
B.S., Brown University, May 2006
Project: The role of transcriptional deregulation in premature ovarian failure.
Support: Howard Hughes Medical Institute
Honors Awarded 5/06

Mr. Anthony Halperin
B.S., Brown University, May 2006
Project: The role of Fsrg1 in reproduction and development.
Support: NIH COBRE Award

2006-2007 Ms. Sarah Cabot
B.S., Brown University, May 2007
Project: The role of CRSP70 reproduction and development.
Support: NIH COBRE Award
Honors Awarded 5/07

2006-2008 Ms. Kathleen Zafra
B.S., Brown University, May 2008
Project: The role of TAF4b in estrogen-dependent transcription in the ovary.
Support: Brown UTRA
Honors Awarded 5/08

2007-2010 Mr. Colin O'Brien
B.S., Brown University, May 2010
Project: The role of TAF4b in Burkitt's Lymphoma.
Support: Brown/Royce Fellowship
Honors Awarded 5/10
George W. Hagy Prize in Human Biology

2010-2013 Ms. Rajvi Mehta
B.S., Brown University, May 2013
Project: The function of TAF4b in mouse oogenesis.
Honors Awarded 5/13

2013-2014 Ms. Chiara Prodani
B.S., Brown University, May 2014
Project: The function of TAF4b in stem cells.
Honors Awarded 5/14

2015-2016 Ms. Rana Suliman
B.S., Brown University, May 2016
Project: Notch Inhibition in Ovarian Cancer.
Support: Brown UTRA
Honors Awarded 5/16

2015-2018 Ms. Amy Wang
B.S., Brown University, May 2018
Project: Notch Inhibition in Ovarian Cancer.
Support: Brown UTRA
Honors Awarded 5/18

2018-2019 Ms. Abbigail Niewchas
B.S., Brown University, May 2019
Project: Genomic Analyses of 3D Growth of Ovarian Cancer Cells.
Honors awarded 5/19

2019-2020 Ms. Anjali Mohan
B.S., Brown University, May 2021
Project: Computational analysis of TAF4b function during gametogenesis.

2019-2021 Ms. Lauren Smith
B.S., Brown University, May 2021
Project: Genetic factors associated with epithelial ovarian cancer

2021-present Mr. Talha Ahmed
B.S., Hunter College, Dec. 2021
Project: Bioinformatics of ovarian cancer metastasis (virtual).

2021-present Ms. Sarah Wornow
B.S., Brown University, expected May 2023
Project: Gene expression changes cell models of ovarian cancer: 2D vs. 3D

2021-present Ms. Hanna Richman
B.S., Brown University, expected May 2023
Project: Maximizing the initial ovarian reserve in mice

Graduate Students (BIOL 2980)

2004-2009 Dr. Lindsay Lovasco-Mehrmanesh (MCB)
B.S., University of Massachusetts, May 2003
Project: TAF4b function in the mammalian ovary.
Support: NIH COBRE Award, MCB Training Grant.
Doctorate awarded 6/09
Current Position: Teaching Faculty, Northeastern University, Boston, MA

2008-2013 Dr. Diana Donovan (MCB)
B.S., MIT, May 2000
Project: Brd2 Function in Neural Development and Disease.
Support: NIH RO1 award
Doctorate awarded 12/13

2010-2014 Dr. Jennifer Wardell-Ribeiro (Pathobiology)
B.A., University of Rhode Island, May 2009
Project: Transcriptional Deregulation in Ovarian Cancer
Support: NIH RO1 award
Doctorate awarded 5/14
Current Position: Assistant Professor of OB/GYN (Research), Alpert Medical School of Brown University, Women and Infants Hospital, Providence, RI

2011-2014 Dr. Caitlin Brown (Pathobiology)
B.A., Mt. Holyoke College, May 2007
Project: Signaling and Transcription in Ovarian Cancer
Support: Pathobiology Graduate Program and IMSD
Doctorate awarded 5/14
Current Position: Postdoctoral Fellow with Dr. Arthur Mercurio, UMASS Medical School, Worcester, MA

2011-2015 Dr. Kathryn Grive (MCB)
B.S., University of Connecticut, May 2009
Project: TAF4b in the regulation of primordial follicle development.
Support: NIH T32 and F31
Doctorate awarded 10/15
Current Position: Assistant Professor of OB/GYN (Research), Alpert Medical School of Brown University, Women and Infants Hospital, Providence, RI

2015-2021 Ms. Megan Gura (MCB)
B.S., University of Albany, May 2015
Project: TAF4b in the regulation of meiotic initiation.
Support: NIH T32 and F31
Current Position: Scientist, Regeneron Pharmaceuticals

2019-present Ms. Kimberly Abt (MCB)
B.S., Bridgewater State University, May 2018
Project: Dynamic localization of TAF4b during meiotic initiation.
Support: NIH T32 and F31

2021-present Mr. Myles Bartolomew (MCB)
B.S., Xavier University, May 2019
Project: Regulating spermatogonial stem cell d2/28/23evelopment
Support: NIH T32 and HHMI Gilliam Fellowship

Graduate Laboratory Rotations (BIOL 2980)

2004 Ms. Jahda Batton (MCB)
Ms. Lindsay Lovasco (MCB)

2005 Ms. Elizabeth Lynch (MCB)
2006 Ms. Maryanna Aldrich (MCB)
Mr. Ahmet Eken (MCB)

2007 Mr. Stephen Brown (MCB)
Mr. Daniel Reid (MCB)
2008 Ms. Diana Donovan (MCB)
Mr. Aron Gyuris (MCB)
Ms. Christine Langlois (MCB)

2009 Ms. Katherine Watkins (MCB)
Ms. Rachel Whitaker (MCB)
Ms. Camelia Saffarini (Pathobiology)
Ms. Jennifer Wardell (Pathobiology)

2010 Ms. Kathryn Grive (MCB)
Ms. Kathryn Coser (MCB)
Mr. Daniel Berg (MCB)

2013 Ms. Jenna Kotak (MCB)

2014 Ms. Alexandra Mascaro (MCB)

2015 Ms. Lauren Olinski (MCB)
Mr. Sean Gillis (MCB)
Ms. Megan Gura (MCB)

2017 Ms. Laura Madigan (MCB)
Ms. Stephany Foster (MCB)

2018 Ms. Alice Pieplow (MCB)
Ms. Kimberly Abt (MCB)

2020 Ms. Kimberly Meza (Pathobiology)
Ms. Radha Kalekar (MCB)

2021 Mr. Myles Bartholomew (MCB)

2022 Ann Nixon (MCB)
Joanna Maddela (MCB)

Postdoctoral Research Associates

2004-2006 Dr. Ekaterina Voronina, Postdoctoral Fellow
M.S. Moscow State University, May 1996
Ph.D. Brown University, April 2003
Project: The functional role of TAF4b in ovarian follicle development
Current Position: Assistant Professor, University of Montana, Missoula, MT

2009-2013 Dr. Lindsay Lovasco-Mehrmanesh
B.S., University of Massachusetts, May 2003
Ph.D. Brown University, June 2009
Project: Developmental regulation of spermatogonial stem cells
Current Position: Teaching Faculty, Brandeis University, Waltham, MA

2011-2016 Dr. Eric Gustafson
B.S., Vanderbilt University, May 2002
Ph.D. Brown University, September 2009
Project: Molecular mechanisms of spermatogonial stem cells
Support: NIH F32
Current Position: Consultant, Zipher Medical Affairs, Marion, MA

2020-2022 Dr. Sona Relovska, Postdoctoral Fellow
B.S. University of Edinburgh, May 2015
M.S. University of Edinburgh, May 2016
Ph.D. University of Edinburgh, April 2020
Project: Chromosome Aneuploidy in Mitosis and Meiosis

Laboratory Manager

2004-2007 Mr. Aron Gyuris
B.A., Brown University, May 2004
Research Assistant

2007-present Ms. Kimberly Seymour
B.A., University of Maine, May 1994
Laboratory Manager