Juan I. Fuxman Bass, Ph.D.

Boston University
Department of Biology
5 Cummington Mall
Boston, MA 02215
fuxman@bu.edu
(617) 353-2448

EDUCATION

2006-2010 Ph.D. Biology.

University of Buenos Aires and National Academy of Medicine, Argentina.

Advisor: Dr. Analia S. Trevani

1999-2005 Lic. in Biology (equivalent to B.S./M.S.). Summa cum laude.

University of Buenos Aires, Argentina.

Specialization: Molecular Biology and Biotechnology.

POSTDOCTORAL TRAINING

2011-2016 Postdoctoral fellow

University of Massachusetts Medical School, Worcester, MA.

Advisor: Dr. A.J. Marian Walhout

APPOINTMENTS

2024-present Director of Research

Biology Department

Boston University, Boston, MA.

2023-present Associate Professor

Biology Department

Boston University, Boston, MA.

2019-2023 Director of Graduate Admissions and Associate Program Director

Molecular Biology, Cell Biology & Biochemistry Program

Boston University, Boston, MA.

2016-2023 Assistant Professor

Biology Department

Boston University, Boston, MA.

2003-2011 Teaching Assistant

University of Buenos Aires, Buenos Aires, Argentina.

1999-2005 Elementary and high-school mathematics teacher

Mary Graham, North Hills, and Pilar's Parish schools.

Pilar and Buenos Aires, Argentina

PROGRAMATIC APPOINTMENTS

2023-present Core member of the Biological Design Center (Boston University).

2020-present Member of the PhD Program in Biomedical Sciences (Boston University).

2018-present Member of the BU-BMC Cancer Center (Boston University).

2017-present Member of the Bioinformatics Program (Boston University).

2017-present Member of the Genome Sciences Institute (Boston University).

2017-present Member of the Molecular Biology, Cell Biology and Biochemistry Program (Boston University).

2016-present Member of the Center for Cancer Systems Biology (Dana-Farber Cancer Institute).

AWARDS AND HONORS

2022	Keystone Symposia Early Career Investigator Award
2019	Milstein Young Investigator Award, International Cytokine & Interferon Society.
2007	"Leonardo Satz" Award, Argentine Immunology Society (award to the best oral presentation).
2005	Bronze Medal in the 8th Iberoamerican Mathematical Olympiad for University Students.
2004	National Academy of Medicine Award (best original work in immunology developed in Argentina).
2004	Argentine Council for the Information and Development of Biotechnology Award (best research and development project). Declared project of national interest by the Argentine Parliament.
2004-2006	Undergraduate Fellowship for research Initiation. School of Medicine, University of Buenos Aires, Argentina.
2002-2003	Undergraduate Scholarship "Paulo D. Barroso Mastronardi" in Biological Sciences. National Academy of Exact, Physics and Natural Sciences, Argentina.
2002	Bronze Medal in the 5 th Iberoamerican Mathematical Olympiad for University Students.
2000	Bronze Medal in the 3 rd Iberoamerican Mathematical Olympiad for University Students.
1999	Bronze Medal in the 2 nd Iberoamerican Mathematical Olympiad for University Students.
1999	Silver Medal in the XI Asian Pacific Mathematics Olympiad.

1998-2000	Undergraduate scholarship in mathematics, Bernardo Houssay Foundation, Argentina.
1998	Presidential Silver Medal in mathematics.
1998	Silver Medal in the VII Rioplatense Mathematical Olympiad.
1998	Silver Medal in the 13th Iberoamerican Mathematical Olympiad.
1998	Bronze Medal in the 39 th International Mathematical Olympiad.
1998	Bronze Medal in the X Asian Pacific Mathematical Olympiad.
1998	First place in the Buenos Aires Province Mathematical Olympiad.
1998	Second place in the Argentinean Mathematical Olympiad.
1997	Bronze Medal in the VI Rioplatense Mathematical Olympiad.
1997	Silver Medal in the 12 th Iberoamerican Mathematical Olympiad.
1997	Bronze Medal in the 38 th International Mathematical Olympiad
1997	Third place in the Argentinean Mathematical Olympiad.
1996	First place in the Buenos Aires Province Mathematical Olympiad.

PRESENT FUNDING

2024	NIH equipment supplement associated with R35-GM128625. \$2,227,500 total cost (direct cost to my lab = \$179,000). PI: JI Fuxman Bass .
2023-2028	NIH Maximizing Investigator's Research Award (R35), R35-GM128625: Structure and function of immune gene regulatory networks. \$2,227,500 total cost (direct cost to my lab = \$1,350,000, indirect cost to BU = \$877,500). PI: JI Fuxman Bass .
2022-2027	NIH National Institute of Child Health and Human development, R01-HD104971: Characterization of the gene regulatory network governing the first cell fate decision in mammalian embryonic development. \$2,613,240 total cost (direct cost to my lab = \$635,282, indirect cost to BU = \$412,933). Co-Pls: JI Fuxman Bass (BU) , Thomas Fazzio (UMass Medical School).
2022-2025	NSF, "REU Site: Control of Gene Expression for Biological Effect", PI: Thomas D. Gilmore. Role:

PAST FUNDING

NIH National Cancer Institute, R21-CA279630: Spatio-temporal mechanistic modeling of whole-cell tumor metabolism. \$192,844 total cost (direct cost to my lab = \$49,000, indirect cost to BU = \$31,850). Pls: Daniel Segre, Ilika Dukovski, Kirill Korolov. **Co-I: JI Fuxman Bass**.

mentor. Total Costs to BU \$453,726. Total cost to my lab ~\$9,000.

- 2023-2024 NSF, "REU Site: Control of Gene Expression for Biological Effect", Diversity supplement. PI: Thomas D. Gilmore. **Role: mentor**. Total Costs to BU \$84,348 (direct cost to my lab: \$51,120).
- NIH National Cancer Institute, U01-CA232161: Rewiring of regulatory networks in breast cancer by transcription factor isoforms. \$3,736,932 total cost (direct cost to my lab = \$718,000, indirect cost to BU = \$466,700). **Co-Pls: JI Fuxman Bass (BU)**, Marc Vidal (DFCI), Martha Bulyk (Harvard Medical School).
- NIH Maximizing Investigator's Research Award (R35), R35-GM128625: Structure and function of immune gene regulatory networks. \$2,062,500 total cost (direct cost to my lab = \$1,250,000, indirect cost to BU = \$812,500). **PI: JI Fuxman Bass**.
- NIH National Cancer Institute, U01-CA232161 (supplement): Functional roles of the intrinsically disordered regions of ESR1 on its transcriptional regulatory properties. \$316,000 total cost (direct cost to my lab = \$53,071, indirect cost to BU = \$34,496). **Co-Pls: JI Fuxman Bass (BU)**, Martha Bulyk (Harvard Medical School), Haribabu Arthanari (DFCI).
- 2017-2022 NSF, BIO-1659605, "REU Site: Control of Gene Expression for Biological Effect." PI: Thomas D. Gilmore. **Role: mentor**. Total Costs \$477,763 (DC, 432,480; IDC, 45,283).
- 2016-2018 NIH Pathway to Independence Award (K99/R00), R00-GM114296: *Delineation of a cytokine gene regulatory network and rewiring in disease.* \$505,931 total cost (direct cost = \$307,557, indirect cost = \$198,374). PI: **JI Fuxman Bass**.
- 2015-2016 NIH Pathway to Independence Award (K99/R00), K99-GM114296: *Delineation of a cytokine gene regulatory network and rewiring in disease.* \$90,000 total cost (direct cost = \$83,333, indirect cost = \$6,667). Pl: **JI Fuxman Bass**.
- 2012-2014 Pew Latin American Postdoctoral Fellowship. \$60,000 total cost (direct cost = \$60,000, indirect cost = \$0). Pl: **JI Fuxman Bass**.
- 2006-2011 Graduate Fellowship from CONICET (National Council of Scientific and Technical Investigations, Argentina).

PUBLICATIONS

Peer-reviewed publications

postdocs, graduate students, undergraduate students, and technicians mentored

Faculty research

- Moyer DC, Reimertz J, #Segrè D, #Fuxman Bass JI. Semi-Automatic Detection of Errors in Genome-Scale Metabolic Models. bioRxiv [Preprint]. 2024 Jun 27:2024.06.24.600481. doi: 10.1101/2024.06.24.600481. (in press at Genome Biology; # co-corresponding authors)
- 2. Lu Y, Berenson A, Lane R, Guelin I, Li Z, Chen Y, Shah S, Yin M, Soto-Ugaldi LF, Fiszbein A, Fuxman Bass JI. A large-scale cancer-specific protein-DNA interaction network. *Life Science Research Alliance* 2024 Jul 16;7(10):e202402641.

- 3. Rottenberg JT, Taslim TH, Soto-Ugaldi LF, Martinez-Cuesta L, Martinez-Calejman C, Fuxman Bass JI. Viral cis-regulatory elements as sensors of cellular states and environmental cues. *Trends Genet*. 2024 May 30:S0168-9525(24)00108-2. doi: 10.1016/j.tig.2024.05.004.
- 4. He X, Berenson A, Bernard M, Weber C, **Fuxman Bass JI**, Fisher S. Identification of conserved skeletal enhancers associated with craniosynostosis risk genes. *Hum Mol genet*. 2024 May 4;33(10):837-849.
- 5. Patalano SD, Fuxman Bass P, Fuxman Bass JI. Transcription factors in the development and treatment of immune disorders. *Transcription*. 2023 Dec 15:1-23.
- 6. Berenson A, Lane R, Soto LF, Patel M, Ciausu C, Li Z, Chen Y, Shah S, Santoso CS, Liu X, Spirohn K, Hao T, Hill DE, Vidal M, Fuxman Bass JI. Paired yeast one-hybrid assays to detect DNA-binding cooperativity and antagonism across transcription factors. *Nature Communications*. 2023 Oct 18;14(1):6570.
- Nora EP, Aerts S, Wittkopp PJ, Bussemaker HJ, Bulyk M, Sinha S, Zeitlinger J, Crocker J, Fuxman Bass JI. Emerging questions in transcriptional regulation. *Cell Systems*. 2023 Apr 19;14(4):247-251. doi: 10.1016/j.cels.2023.03.005.
- 8. Carrasco Pro S, Hook H, Bray D, Moyer D, Yin M, Labadorf A, Tewhey R, *Siggers T, *Fuxman Bass J. Widespread perturbation of ETS factor binding sites in cancer. *Nature Communications*. 2023 Feb 17;14(1):913. Doi: 10/1038/s41467-023-36535-8. (*co-corresponding authors)
- 9. Berenson A, Fuxman Bass JI. Enhanced yeast one-hybrid assays to study protein-DNA interactions *Methods Mol Biol*. 2023;2599:11-20.
- 10. *Soto LF, *Requena D, *Fuxman Bass JI. Epitope Evaluator: an interactive web application to study predicted T-cell epitopes. *PLoS One*. 2022 Aug 26;17(8):e0273577 (*co-corresponding author)
- 11. Soto L, Li Z, Santoso CS, Berenson A, Ho I, Shen VX, Yuan S, Fuxman Bass JI. Compendium of human transcription factor effector domains. *Molecular Cell*. 2022 Feb 3;82(3):514-526.
- 12. Kuniholm J, Armstrong E, Bernabe B, Coote C, Berenson A, Drinan SD, Olson A, He X, Lin N, **Fuxman Bass JI**, Henderson AJ. Intragenic proviral elements support transcription of defective HIV-1 proviruses. *PloS Pathogens*. 2021 Dec 28;17(12):e1009982.
- 13. Santoso CS, Li Z, Rottenberg JT, Liu X, Shen V, Fuxman Bas JI. Therapeutic targeting of transcription factors to control the cytokine release syndrome in COVID-19. *Frontiers in Pharmacology*. 2021 Jun 7;12:673485.
- Rasekh ME, Hernandez Y, Drinan SD, Fuxman Bass JI, Benson G. Genome-wide characterization of human minisatellite VNTRs: population-specific alleles and gene expression differences. *Nucleic Acids Res.* 2021 May 7;49(8):4308-4324.
- 15. Pedro KD, Agosto LM, Sewell JA, Eberenz KA, He X, *Fuxman Bass JI, *Henderson AJ. An unbiased functional screen identifies transcriptional networks that regulate HIV-1 and HIV-2. *Proc Natl Acad Sci USA*. 2021 Mar 16;118(11):e2012835118. (*co-corresponding and co-senior author).
- 16. Santoso CS, Li Z, Lal S, Yuan S, Gan KA, Agosto LM, Liu X, Carrasco Pro S, Sewell JA, Henderson A, Atianand MK, Fuxman Bass JI. Comprehensive mapping of the human cytokine gene regulatory network. *Nucleic Acids Research* 2020 Dec 2;48(21):12055-12073.

- 17. Carrasco Pro S, Bulekova K, Gregor B, Labadorf L, **Fuxman Bass JI**. Prediction of genome-wide effects of single nucleotide variants on transcription factor binding. **Scientific Reports**. 2020 Oct 19; 10, 1-11.
- 18. Liu X, Hong T, Parameswaran S, Ernst K, Marazzi I, *Weirauch MT, *Fuxman Bass JI. Human Virus Transcriptional Regulators. *Cell*. 2020 Jul 9;182(1):24-37. (*co-corresponding and co-senior author)
- 19. Shrestha S, Sewell JA, Santoso CS, Forchielli E, Carrasco Pro S, Martinez M, Fuxman Bass JI. Discovering human transcription factor physical interactions with genetic variants, novel DNA motifs, and repetitive elements using enhanced yeast one-hybrid assays. *Genome Research.* 2019 Sep 29: 1533-1544; doi:10.1101/gr.248823.119
- 20. Shrestha S, Liu X, Santoso CS, Fuxman Bass JI. Enhanced yeast one-hybrid screens to identify transcription factor binding to human DNA sequences. *J Vis Exp*. 2019 Feb 11;(144). doi: 10.3791/59192
- 21. Carrasco Pro S, Dafonte Imedio A, Santoso CS, Gan KA, Sewell JA, Martinez M, Sereda R, Mehta S, Fuxman Bass JI. Global landscape of mouse and human cytokine transcriptional regulation. *Nucleic Acids Res.* 2018 Sep 3. doi: 10.1093/nar/gky787.
- 22. Demchak B, Kreisberg JF, **Fuxman Bass JI**. Theory and Application of Network Biology Toward Precision Medicine. *J Mol Biol*. 2018 Jul 18. pii: S0022-2836(18)30811-8.
- 23. Gan KA, Carrasco Pro S, Sewell JA, and Fuxman Bass JI. Identification of Single Nucleotide Non-coding Driver Mutations in Cancer. *Frontiers in Genetics*. 2018 Feb 2;9:16. doi: 10.3389/fgene.2018.00016.
- 24. Sewell JA, Fuxman Bass JI. Options and considerations when using a yeast one-hybrid system. *Methods Mol Biol.* 2018;1794:119-130.
- 25. Sewell JA, Fuxman Bass JI. Cellular network perturbations by disease-associated variants. *Curr Opin Sys Biol*. 2017 June; 3: 60–66.

Postdoctoral research

- 26. Basu J, Zha J, Reis BS, Hua X, Ge L, Ferchen K, Nicolas E, Czyzewicz P, Cai KQ, Tan YF, Peri S, Fuxman Bass, JI, Walhout AJM, Grimes HL, Grivennikov SI, Mucida D, Kappes DJ. Essential role of ThPOK autoregulatory loop in maintenance of mature CD4 T cell identity and function. *Nature Immunology*. 2021 Aug;22(8):969-982.
- 27. Mookerjee-Basu J, Hua X, Ge L, Nicolas E, Li Q, Czyzewicz P, Zhongping D, Peri S, **Fuxman Bass JI**, Walhout AJM, Kappes DJ. Functional conservation of a developmental switch in mammals since the Jurassic age. *Mol Biol Evol*. 2018 Oct 8. doi: 10.1093/molbev/msy191
- 28. #Fuxman Bass JI, Reece-Hoyes JS, #Walhout AJ. Gene-Centered Yeast One-Hybrid Assays. *Cold Spring Harb Protoc*. 2016 Dec 1;2016(12):pdb.top077669. (#co-corresponding author).
- 29. #Fuxman Bass JI, Reece-Hoyes JS, #Walhout AJ. Zymolyase-Treatment and Polymerase Chain Reaction Amplification from Genomic and Plasmid Templates from Yeast. *Cold Spring Harb Protoc*. 2016 Dec 1;2016(12):pdb.prot088971. (#co-corresponding author).
- 30. #Fuxman Bass JI, Reece-Hoyes JS, #Walhout AJ. Colony Lift Colorimetric Assay for β-Galactosidase Activity. *Cold Spring Harb Protoc*. 2016 Dec 1;2016(12):pdb.prot088963. (#co-corresponding author).

- 31. #Fuxman Bass JI, Reece-Hoyes JS, #Walhout AJ. Performing Yeast One-Hybrid Library Screens. *Cold Spring Harb Protoc*. 2016 Dec 1;2016(12):pdb.prot088955. (#co-corresponding author).
- 32. #Fuxman Bass JI, Reece-Hoyes JS, #Walhout AJ. Generating Bait Strains for Yeast One-Hybrid Assays. *Cold Spring Harb Protoc*. 2016 Dec 1;2016(12):pdb.prot088948. (#co-corresponding author).
- 33. **Fuxman Bass JI**, Pons C, Kozlowski L, Reece-Hoyes JS, Shrestha S, Holdorf AD, Mori A, Myers CL, Walhout AJ. A gene-centered *C. elegans* protein-DNA interaction network provides a framework for functional predictions. *Mol Syst Biol*. 2016 Oct 24;12(10):884.
- 34. **Fuxman Bass JI**, Sahni N, Shrestha S, Garcia-Gonzalez A, Mori A, Bhat N, Yi S, Hill DE, Vidal M, Walhout AJ. Human Gene-Centered Transcription Factor Networks for Enhancers and Disease Variants. *Cell*. 2015 Apr 23;161(3):661-73.
- 35. *Sahni N, *Yi S, *Taipale M, *Fuxman Bass JI, *Coulombe-Huntington J, Yang F, Peng J, Weile J, Karras GI, Wang Y, Kovács IA, Kamburov A, Krykbaeva I, Lam MH, Tucker G, Khurana V, Sharma A, Liu YY, Yachie N, Zhong Q, Shen Y, Palagi A, San-Miguel A, Fan C, Balcha D, Dricot A, Jordan DM, Walsh JM, Shah AA, Yang X, Stoyanova AK, Leighton A, Calderwood MA, Jacob Y, Cusick ME, Salehi-Ashtiani K, Whitesell LJ, Sunyaev S, Berger B, Barabási AL, Charloteaux B, Hill DE, Hao T, Roth FP, Xia Y, Walhout AJ, Lindquist S, Vidal M. Widespread Perturbation of Disease-Specific Macromolecular Interactions in Human Genetic Disorders. *Cell*. 2015 Apr 23;161(3):647-60. (*co-first author).
- 36. Narasimhan K, Lambert SA, Yang AW, Riddell J, Mnaimneh S, Zheng H, Albu M, Najafabadi HS, Reece-Hoyes JS, **Fuxman Bass JI**, Walhout AJ, Weirauch MT, Hughes TR. Mapping and analysis of *Caenorhabditis elegans* transcription factor sequence specificities. *Elife*. 2015 Apr 23;4.
- 37. **#Fuxman Bass JI**, Diallo A, Nelson J, Soto JM, Myers CL, #Walhout AJ. Using networks to measure similarity between genes: association index selection. *Nature Methods*. 2013 Dec. 10(12):1169-76. (*co-corresponding author).
- 38. **Fuxman Bass JI**, Tamburino AM, Mori A, Beittel N, Weirauch MT, Reece-Hoyes JS, Walhout AJ. Transcription factor binding to *Caenorhabditis elegans* first introns reveals lack of redundancy with gene promoters. *Nucleic Acids Res.* 2014 Jan;42(1):153-62.
- 39. Ritter AD, Shen Y, **Fuxman Bass J**, Jeyaraj S, Deplancke B, Mukhopadhyay A, Xu J, Driscoll M, Tissenbaum HA, Walhout AJ. Complex expression dynamics and robustness in *C. elegans* insulin networks. *Genome Research*. 2013 Jun;23(6):954-65.

Graduate and undergraduate research

- 40. Gabelloni ML, Sabbione F, Jancic C, **Fuxman Bass JI**, Keitelman I, Iula L, Oleastro M, Geffner JR, Trevani AS. NADPH oxidase derived reactive oxygen species are involved in human neutrophil IL-1β secretion but not in inflammasome activation. *Eur J Immunol*. 2013 Dec;43(12):3324-35.
- 41. Traglia GM, Sala CD, **Fuxman Bass JI**, Soler-Bistué AJ, Zorreguieta A, Ramírez MS, Tolmasky ME. *Internalization of Locked Nucleic Acids/DNA Hybrid Oligomers into Escherichia coli. Biores Open Access*. 2012 Oct;1(5):260-3.
- 42. Nahmod K, Walther T, Cambados N, Fernandez N, Meiss R, Tappenbeck N, Wang Y, Raffo D, Simian M, Schwiebs A, Pozner R, **Fuxman Bass J**, Geffner J, Kordon E, Schere Levy C. AT1 receptor blockade

- delays post-lactational mammary gland involution: a novel role for the renin angiotensin system. *FASEB J*. 2012 May;26(5):1982-94.
- 43. **Fuxman Bass J**, Russo D, Gabelloni M, Geffner J, Giordano M, Catalano M, Zorreguieta A, Trevani A. Extracellular DNA: A Major Proinflammatory Component of *P. aeruginosa* Biofilms. *J Immunol*. 2010 Jun 1;184(11):6386-95.
- 44. Salamone G, Petracca Y, **Fuxman Bass J**, Rumbo M, Geffner J, Trevani A. Flagellin delays spontaneous human neutrophil apoptosis. *Lab Invest*. 2010 Jul;90(7):1049-59.
- 45. **Fuxman Bass J**, Alvarez M, Gabelloni M, Geffner J, Vermeulen M, Amaral M, Trevani A. GM-CSF enhances a CpG-independent pathway of neutrophil activation triggered by bacterial DNA. *Mol Immunol*. 2008 Nov;46(1):37-44.
- 46. **Fuxman Bass J**, Gabelloni M, Alvarez M, Vermeulen M, Russo D, Zorreguieta A, Geffner J, Trevani A. Characterization of bacterial DNA binding to human neutrophil surface. *Lab Invest*. 2008 Sep;88(9):926-37.
- 47. Alvarez M, **Fuxman Bass J**, Geffner J, Fernández Calotti P, Costas M, Coso O, Gamberale R, Vermeulen M, Salamone G, Tanos T, Trevani A. Neutrophil signaling pathways activated by bacterial DNA stimulation. *J Immunol*. 2006 Sep 15;177(6):4037-46.

Preprints

Lambourne L, #Mattioli K, Santoso C, Sheynkman G, Inukai S, Kaundal B, Berenson A, Spirohn-Fitzgerald K, Bhattacharjee A, Rothman E, Shrestha S, Laval F, Yang Z, Bisht D, Sewell JA, Li G, Prasad A, Phanor S, Lane R, Campbell DM, Hunt T, Balcha D, Gebbia M, Twizere JC, Hao T, Frankish A, Riback JA, Salomonis N, Calderwood MA, Hill DE, #Sahni N, #Vidal M, #Bulyk ML, #Fuxman Bass JI. Widespread variation in molecular interactions and regulatory properties among transcription factor isoforms. bioRxiv [Preprint]. 2024 Apr 10:2024.03.12.584681. doi: 10.1101/2024.03.12.584681. (under revision at Molecular Cell) # co-corresponding authors

Books

1. **Fuxman Bass JI**. Solving math problems. Buenos Aires: Red Olímpica (2010). 252 pages. ISBN 978-987-9072-66-0.

INVITED SEMINARS AND CONFERENCES

2024	Latin American and Caribbean Association for Immunology Conference, Buenos Aires, Argentina.
2024	University of Puerto Rico – Rio Piedras seminar, San Juan, Puerto Rico.
2024	Department of Medicine and Life Sciences seminar, University of Pompeu Fabra, Barcelona, Spain.
2024	Department seminar Microbiology Department, Icahn School of Medicine at Mount Sinai, New York City, NY.

2024	Cold Spring Harbor Laboratory meeting "Systems Biology: Global Regulation of Gene Expression", Huntington, NY.
2023	Jackson Laboratories Seminar, Bar Harbor, ME.
2023	Institute of Physiology, Molecular Biology and Neurosciences Seminar, University of Buenos Aires, Argentina.
2023	Leloir Institute Seminar, Buenos Aires, Argentina.
2023	New England Biolabs seminar, Ipswich, MA.
2023	STEM Pathways Seminar, Boston University, Boston, MA.
2023	Biological Design Center Faculty Seminar, Boston University Boston, MA.
2023	Cold Spring Harbor Laboratory meeting "Systems Biology: Networks", Huntington, NY.
2023	Department of Epigenetics and Molecular Carcinogenesis Seminar, MD Anderson Cancer Center, Houston, TX.
2023	5th annual "Precision Genomics Midwest" Conference, Cincinnati, OH.
2023	"Rules of protein-DNA recognition" workshop, Cancun, Mexico.
2023	Center for Cell Analysis and Modeling and Genomics Department Seminar, University of Connecticut Medical School, Hartford, CT.
2022	Cell and Experimental Biology Conference, Boston, MA.
2022	Department of Innate Immunity, UMass Chan Medical School, Worcester, MA.
2021	Center for Autoimmune Genomics and Etiology, Cincinnati Children's Hospital, Cincinnati, OH.
2021	Department of Systems Biology, UMass Chan Medical School, Worcester, MA.
2021	Cell and Experimental Biology Conference, Houston, TX.
2021	BIRS meeting: Rules of protein-DNA recognition: computational and experimental advances. Oaxaca, Mexico. (cancelled because of COVID-19)
2021	Developmental Biology Center Andalucia, Pablo de Olavide University, Seville, Spain.
2020	Cell and Experimental Biology Conference, Boston, MA.
2019	Biology Department, University at Albany, Albany, NY.
2019	International Cytokine & Interferon Society, Vienna, Austria.
2019	Center for Cancer Systems Biology annual retreat, Gloucester, MA.
2019	Center for Autoimmune Genomics & Etiology, Cincinnati Children's Hospital, Cincinnati, OH.

2019	Tertulia, Boston University, Boston, MA.
2018	Genome Science Institute, Boston University, Boston, MA.
2018	Center for Cancer Systems Biology annual retreat, Gloucester, MA.
2018	BIRS meeting: Rules of protein-DNA recognition: computational and experimental advances. Oaxaca, Mexico.
2017	Center for Cancer Systems Biology annual retreat, Gloucester, MA.
2017	Cold Spring Harbor Laboratory meeting "Systems Biology: Networks", Huntington, NY.
2017	Microbiology Department, Boston University School of Medicine, Boston, MA.
2016	Worcester Area Worm Meeting, Worcester, MA.
2016	Program in Systems Biology, UMass Medical School, Worcester, MA.
2016	BioFrontiers Institute, Colorado University, Boulder, CO.
2016	Bioengineering Department, University of Washington, Seattle, WA.
2016	Molecular, Cell and Developmental Biology Department, University of California, Santa Cruz, CA.
2016	Biochemistry Department, Boston University School of Medicine, Boston, MA.
2016	Biology Department, Boston University, Boston, MA.
2015	Center of Cancer Systems Biology meeting, Rockport, MA.
2015	Microbiology and Physiological Systems Department, UMass Medical School, Worcester, MA.
2015	Molecular, Cell and Cancer Biology Department, UMass Medical School, Worcester, MA.
2015	20th International C. elegans Meeting, Genetics Society of America, Los Angeles, CA.
2015	Leloir Foundation Institute, Buenos Aires, Argentina.
2014	Center of Cancer Systems Biology meeting, Rockport, MA.
2014	Systems Biology: Global Regulation of Gene Expression Meeting, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY.
2014	Pew Annual Meeting. Costa Rica.
2014	National Academy of Medicine, Buenos Aires, Argentina.
2014	Lewis-Sigler Institute of Integrative Genomics, Princeton University, Princeton, NJ.
2014	Program in Bioinformatics and Integrative Biology, UMass Medical School, Worcester, MA.
2012	Center of Cancer Systems Biology meeting, Rockport, MA
2007	Argentinean Immunology Society meeting, Mar del Plata, Argentina.

STUDENT PRESENTATIONS

Poster presentations

postdocs, graduate students, undergraduate students, technicians mentored Underlined name indicates poster presenter

2024 Mar Uncovering the functions of human viral transcriptional regulators.

Jaice T. Rottenberg, Xing Liu, Anna Berenson, Clarissa Santoso, David E. Hill, Ryan

Lane, Lucia Martinez Cuesta, Marc Vidal, Juan I. Fuxman Bass.

CSHL meeting - Systems Biology: Global Regulation of Gene Expression, Huntington, NY

2024 Mar Identification and functional characterization of viral Cis-regulatory elements

<u>Tommy H Taslim</u>, Susan Kales, Yossef A Finkelberg, <u>Luis Soto-Ugaldi</u>, Jaice T Rottenberg, <u>Elvis Morara</u>, <u>Jacob Purinton</u>, <u>Harshpreet Chandok</u>, Rodrigo Castro, <u>Kelian Bonhomme</u>, <u>Lucia Martinez Cuesta</u>, Ryan Tewhey, **Juan I Fuxman Bass**.

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CSHL meeting - Systems Biology: Global Regulation of Gene Expression, Huntington, NY

2024 Mar Widespread variation in molecular interactions and regulatory properties among transcription

factor isoforms.

Luke Lambourne, Kaia Mattioli, Clarissa S. Santoso, Gloria Sheynkman, Sachi Inukai, Anna Berenson, Elisabeth Rothman, Kerstin Spirohn, Tong Hao, Josh Riback, Nidhi Sahni, Nathan Salomonis, Michael A. Calderwood, David E. Hill, Marc Vidal, Martha L. Bulyk, **Juan I. Fuxman** Bass.

CSHL meeting – Systems Biology: Global Regulation of Gene Expression, Huntington, NY

2023 Nov Paired yeast one-hybrid assays to detect DNA-binding cooperativity and antagonism across

transcription factors.

Berenson A, Lane R, Soto LF, Patel M, Ciausu C, Li Z, Chen Y, Shah S, Santoso CS, Liu X,

Spirohn K, Hao T, Hill DE, Vidal M, **Fuxman Bass JI**. CSHL meeting – Immune regulation, Huntington, NY

2023 Mar Paired yeast one-hybrid assays to detect DNA-binding cooperativity and antagonism across

transcription factors.

Berenson A, Lane R, Soto LF, Patel M, Ciausu C, Li Z, Chen Y, Shah S, Santoso CS, Liu X,

Spirohn K, Hao T, Hill DE, Vidal M, Fuxman Bass JI.

CSHL meeting – Systems Biology: Networks, Huntington, NY

2022 Nov Virus-host cross-transcriptional regulation

Xing Liu, Ted Hong, Kyle Pedro, Anna Berenson, Sreeja Parameswaran, Kevin Ernst, Jared

Sewell, Luis Agosto, Andrew Henderson, Matthew Weirauch, Juan Fuxman Bass.

CSHL meeting – Immune regulation, Huntington, NY

2022 Jun Compendium of human transcription factor effector domains

Soto L, Li Z, Santoso CS, Berenson A, Ho I, Shen VX, Yuan S, Fuxman Bass JI.

2022 Apr	Comprehensive mapping of heterodimer-DNA binding using a novel yeast based method. <u>Anna Berenson</u> , Ryan Lane, Yilin Chen, Sakshi Shah, Mahir Patel, Cosmin Ciausu, Luis Soto, Clarissa Santoso, David Hill, Marc Vidal, Juan I. Fuxman Bass . Cell and Experimental Biology conference, Boston, MA
2021 Mar	Comprehensive Mapping of the Human Cytokine Gene Regulatory Network. Santoso CS, Li Z, Lal S, Yuan S, Gan KA, Agosto LM, Liu X, Carrasco Pro S, Sewell JA, Henderson A, Atianand MK, Fuxman Bass JI. CSHL meeting - Systems biology: networks, Huntington, NY
2020 Nov	Human Virus Transcriptonal Regulators <u>Liu X</u> , Hong T, Parameswaran S, Ernst K, Marazzi I, Weirauch MT, Fuxman Bass JI . EMBL Conference: From Functional Genomics to Systems Biology, Heidelberg, Germany
2020 Nov	Comprehensive Mapping of the Human Cytokine Gene Regulatory Network. Santoso CS, Li Z, Lal S, Yuan S, Gan KA, Agosto LM, Liu X, Carrasco Pro S, Sewell JA, Henderson A, Atianand MK, <u>Fuxman Bass JI</u> . EMBL Conference: From Functional Genomics to Systems Biology, Heidelberg, Germany
2019 Nov	Rewiring of regulatory networks in breast cancer by transcription factor isoforms Lambourne L, Santoso CS, Sheynkman G, Inukai S, Bhattacharjee A, Mattioli K, Berenson A, Calderwood MA, Hill DE, Salomonis N, Bulyk ML, Vidal M, <u>Fuxman Bass JI</u> . Systems Approaches in Cancer Biology, Woodhole, MA
2019 Oct	Modulation of IL10 Production by Targeting Synergistic Transcription Factor Combinations. Yuan S, Santoso CS, Fuxman Bass JI. UROP 22nd annual undergraduate research symposium, Boston, MA
2019 Sep	Rewiring of regulatory networks in breast cancer by transcription factor isoforms Sheynkman G, Inukai S, Santoso CS, Phanor S, Calderwood MA, Hill DE, Salomonis N, Bulyk ML, Vidal M, <u>Fuxman Bass JI</u> . Cancer Systems Biology Consortium meeting, Irvine, CA
2019 Apr	The Role of ZF-DHHC Proteins in ALU Element Regulation Lobos G, Forchielli E, Shretha S, Thapa B, Liu X, Fuxman Bass JI. Showcase of Undergraduate Research Excellence, Orlando, FL
2019 Mar	Comprehensive Mapping of the Human Cytokine Gene Regulatory Network. Santoso CS, Carrasco Pro S, Dafonte Imedio A, Gan KA, Sewell J, Martinez M, Sereda R, Mehta S, Liu X, Bloom J, Agosto L, Henderson A, <u>Fuxman Bass JI</u> . CSHL meeting: Systems Immunology, Huntington, NY
2018 Oct	Comprehensive Mapping of the Human Cytokine Gene Regulatory Network. <u>Santoso CS</u> , Gan KA, Carrasco Pro S, Bloom J, Agosto LM, Henderson AJ, and Fuxman Bass JI . 6 th Annual Meeting of the International Cytokine and Interferon Society, Boston, MA
2018 Oct	Global Landscape of Mouse and Human Cytokine Transcriptional Regulation. Carrasco Pro S, Dafonte Imedio A, Santoso CS, Gan KA, Sewel JA, Martinez M, Sereda R, Mehta S, and Fuxman Bass JI. 6 th Annual Meeting of the International Cytokine and Interferon Society, Boston, MA

Keystone meeting: Gene regulation - from mechanisms to disease, Santa Fe, NM

2018 Oct The Role of ZF-DHHC Proteins in ALU Element Regulation

<u>Lobos G</u>, Forchielli E, <u>Shretha S</u>, Thapa B, <u>Liu X</u>, <u>Fuxman Bass JI</u>. UROP 21st annual undergraduate research symposium, Boston, MA

2018 Sep Rewiring of regulatory networks in breast cancer by transcription factor isoforms

Sheynkman G, Inukai S, Calderwood MA, Hill DE, Salomonis N, Fuxman Bass JI, Bulyk ML,

Vidal M.

Cancer Systems Biology Consortium meeting, Bethesda, MD

2017 Mar Delineation of a cytokine protein-DNA interaction network

Sewell J, Rodriguez-Sastre N, Forchielli E, Carrasco Pro S, Gan KA, Fuxman Bass JI.

CSHL meeting - Systems biology: networks, Huntington, NY

Oral presentations

2023 Aug Boston College, Science on Tap invited talk

Presenter: Anna Berenson (Ph.D. graduate student)

2022 Mar Comprehensive characterization of human transcription factor heterodimers as regulators of

immune genes.

9th Annual Biology Graduate Student Symposium, Boston, MA

Presenter: Anna Berenson (Ph.D. graduate student)

Award: best oral presentation

2021 Nov Comprehensive characterization of human transcription factor heterodimers as regulators of

immune genes.

13th Annual Genome Science Institute Research Symposium, Boston, MA

Presenter: Anna Berenson (Ph.D. graduate student)

Award: research supply award

2020 Nov Rewiring of Gene Regulatory Networks by Transcription Factor Isoforms

8th Annual Biology Graduate Student Symposium, Boston, MA

Presenter: Clarissa Santoso (Ph.D. graduate student)

Award: best oral presentation

2019 Aug Uncovering the Combinatorial Transcriptional Regulation of IL10.

New England Biolabs invited talk, Ipswich, MA

Presenter: Samson Yuan (undergraduate student)

2019 Sep Rewiring of Gene Regulatory Networks by Transcription Factor Isoforms

Annual Program in Systems Biology Retreat, Gloucester, MA

Presenter: Clarissa Santoso (Ph.D. graduate student)

2018 Sep Gene Regulatory Network Wiring and Re-wiring in Disease

Annual Program in Systems Biology Retreat, Gloucester, MA

Presenter: Clarissa Santoso (Ph.D. graduate student)

2018 Nov Comprehensive Mapping of the Human Cytokine Gene Regulatory Network

10th Annual Genome Science Institute Research Symposium, Boston, MA

Presenter: Clarissa Santoso (Ph.D. graduate student)

Students: ~20 (graduate)

TEACHING

2025	Biology Department, Boston University Course: BI 565 (Functional Genomics). Students: 34 (graduate and undergraduate)
2024	Biology Department, Boston University Course: BI 565 (Functional Genomics). Students: 13 (graduate and undergraduate)
2023	Biology Department, Boston University Course: BI 565 (Functional Genomics). Students: 31 (graduate and undergraduate)
2022	Biology Department, Boston University Course: BI 565 (Functional Genomics). Students: 37 (graduate and undergraduate)
2022	Guest lecture, Boston University Course: BI 697 (A Bridge to Knowledge: A Practical Seminar for First-Year Graduate Students in Biology). Students: ~20 (graduate)
2022	Guest lecture, Boston University Course: BI 385 (Immunology). Students: ~150 (undergraduate)
2021	Biology Department, Boston University Course: BI 565 (Functional Genomics). Students: 25 (graduate and undergraduate)
2021	Guest lecture, Boston University Course: BI 697 (A Bridge to Knowledge: A Practical Seminar for First-Year Graduate Students in Biology).

2021 Guest lecture, Boston University

Course: BI 522 (Molecular Biology Laboratory).

Students: ~50 (undergraduate)

Guest lecture. Boston University

2020 Biology Department, Boston University

Course: BI 565 (Functional Genomics). Students: 25 (graduate and undergraduate)

Course: BI 697 (A Bridge to Knowledge: A Practical Seminar for First-Year Graduate Students

in Biology).

2020

Students: ~20 (graduate)

2019 Biology Department, Boston University

Course: BI 565 (Functional Genomics).
Students: 13 (graduate and undergraduate)

2018 Biology Department, Boston University

Course: BI 594 (Topics in Biology).

Students: 17 (graduate and undergraduate)

2017 Biology Department, Boston University

Course: BI 553 (Molecular Biology II).
Students: 24 (graduate and undergraduate)

2014 Guest lecturer, Lewis-Sigler Institute of Integrative Genomics.

Princeton University.

Course: Introduction to Genomics and Computational Biology.

Students: ~60 (undergraduate and graduate)

2010 Organizer and lecturer of the "Solving math problems" course for High School teachers organized

by the Argentine Mathematics Olympiad, Mar del Plata, Argentina.

2005-2011 Teaching assistant, Department of Physiology, Molecular and Cell Biology.

School of Exact and Natural Sciences, University of Buenos Aires, Argentina.

Courses: Introduction to Molecular and Cell Biology, Genetics, Cell Biology, Biological

Chemistry IIA.

Students: 30-50 in each course (undergraduate)

2004-2006 Teaching assistant, Department of Microbiology, Parasitology and Immunology.

School of Medicine, University of Buenos Aires.

Course: Immunology.

Students: ~200 (undergraduate)

2004-2005 Teaching assistant, Department of Immunology.

National Academy of Medicine, Argentina.

Course: Update in the acute inflammatory response.

Students: ~30 (graduate)

2003-2004 Teaching assistant, Department of Biochemistry.

School of Exact and Natural Sciences, University of Buenos Aires, Argentina.

Course: Biochemistry.

Students: ~40 (undergraduate)

1999-2005

MENTORING EXPERIENCE

Postdoctoral Fellows

2018-2022 Dr. Xing Liu. Now Principal Scientist – Seed Therapeutics, Philadelphia, PA.

2016-2017 Dr. Jared Sewell. Now Senior Scientist – Recursion Pharmaceuticals, Salt Lake City, UT.

Graduate students

2024-present Joseph Finkelberg (Bioinformatics PhD student)

2024-present Benedetta D'Elia (MCBB PhD student)

2024-present Berkay Engin (Biology PhD Student)

2024-present Freya Jungen (Master student – Germany)

2022-present Tommy Taslim (MCBB PhD student)

2022-present Yunwei Lu (Biology PhD student – co-mentored with Ana Fiszbein)

2022-2023 Justin Reimertz (Bioinformatics MA student). Now computational biologist (Boston Children's

Hospital)

2021-2022 Isabelle Guelin (Biology MA student). Now PhD student at BU.

2021-present Zhaorong Li (Bioinformatics PhD student)

2020-present Devlin Moyer (Bioinformatics PhD student)

2020-present Jaice Rottenberg (Biology PhD student)

2019-present Samantha Patalano (MCBB PhD student)

2019-present Anna Berenson (MCBB PhD student). Now postdoc at Dr. Jef Boeke's lab (NU)

2018-2021 Clarissa Santoso (MCBB PhD). Now Senior Scientist at Takeda.

2017-2020 Sebastian Carrasco-Pro (Bioinformatics PhD). Now Associate Principal Scientisit at Tempus

Labs.

Post-bacs

2023 Elvis Morara

Undergraduate students

2023-present Sean Cottrell (Biology student)

2023 Deeow Munkong (Biology student)

2023 Srinidhi Senapathi (Biology student)

2023 Elvis Morara (Biology student)

2023-present Jake Purinton (UROP student)

2023-present Jordyn Choe (UROP student) 2023 Valentin Vigeant (Polytech'Nice Sophia - University Côte d'Azur, France) 2023 Kelian Bonhomme (Polytech'Nice Sophia - University Côte d'Azur, France) 2022 Nina Gonzalez (NSF-REU student) 2022-2023 Dithmi Vithana (Biology student) 2022 Kevin Li (Biology student) 2022 Francisco Figueiras (UROP student) 2021-2023 Sakshi Shah (UROP student) 2021-2022 Vikram Srinath (Biology student) 2021-2023 Ryan Lane (UROP student) 2021 Kimberly Tran (UROP student) 2020-2021 Zachary Nelson (UROP student) Vivian Shen (UROP student) 2020-2022 2020-2021 Yilin Chen (Nutritional sciences student) 2020 Fernanda De la Rosa (work study student) 2019-2022 Isabella Ho (UROP student) Cheng-Che Lee (UROP student) 2019-2021 2019 Xeila Cendan (work study student) 2019 Andrew Munoz (NSF-REU student) 2019 Mary Gao (work study student) 2019 Mano Harada (work study student) Samson Yuan (UROP student). Now MS in Genetic Councling at Columbia University. 2018-2021 2018-2020 Amisha Gandhi (BME student). Now quality and Regulatory Affairs Specialist at Relay Response Nicholas Hahn (work study student). Now laboratory assistant at BU. 2018-2019 2018 Luiza Damotta (work study student) 2018 Mary Rolfes (work study student) 2018 Heejoo Kang (work study student) 2018 Giuliano Lobos (NSF-REU undergraduate student). Now Research assistant at Kindbody. 2017-2018 Alvaro Dafonte Imedio. Now PhD candidate at Boston College. 2017 Melissa Martinez (NSF-REU undergraduate student). Now Pharmacy school student at University of Southern California.

Research technicians and associates

Center

2016-2017

2016-2017

2020-2023 Luis Soto (bioinformatics research assistant). Now PhD student at Rockefeller University.

Rebecca Sereda. Now PhD candidate at Albert Einstein College of Medicine.

Shivani Mehta (BMB student). Clinical Research Coordinator at Beth Israel Deaconess Medical

Zhaorong Li (bioinformatics research assistant). Now PhD student at BU. 2019-2020

2018-2020 Dr. Meimei Yin (Lab manager). Now research scientist at BU.

Shaleen Shrestha (Senior research technician). Now Molecular Biologist at Isolere Bio. 2017-2018

Student committees

2024	Thesis Defense Committee member for Dr. Patrick Lally
2024	Thesis Defense Committee member for Dr. Colin O'Leary
2024	Thesis Defense Committee member for Dr. Ting-Ya Chang
2024	Thesis Defense Committee member for Dr. Melissa Inge
2024	Thesis Defense Committee member for Dr. Devlin Moyer
2023	Thesis Defense Committee member for Dr. Kritika Kari, Boston University.
2023	Thesis Defense Committee member for Dr. Dakota Hawkins, Boston University.
2022	Thesis Defense Committee member for Dr. Meghan Bragdon, Boston University.
2022	Thesis Defense Committee member for Dr. Boting Ning, Boston University.
2022	Thesis Defense Committee member for Dr. Joshua Aguirre, Boston University.
2022	Thesis Defense Committee member for Dr. Aaron Chevalier, Boston University.
2022	Thesis Defense Committee member for Dr. Binita Basukala, Boston University.
2021	Thesis Defense Committee member for Dr. Kian Hong Kock, Harvard Medical School.
2021	Thesis Defense Committee member for Dr. Xingyi Shi, Boston University.
2021	Thesis Defense Committee member for Dr. Marzieh Rasekh, Boston University.
2021	Thesis Defense Committee member for Dr. Natalie Vaisman, Boston University.
2020	Thesis Defense Committee member for Dr. David Bray, Boston University.
2019	External examiner for Dr. Kelly Biette graduate thesis dissertation, Harvard Medical School.
2019	Thesis Defense Committee member for Dr. Bryan Matthews, Boston University.
2019	Thesis Defense Committee member for Dr. Jessica Keenan, Boston University.
2019	Thesis Defense Committee member for Dr. Kellan Andrilenas, Boston University.
2018	Thesis Defense Committee member for Dr. Alexandre Palagi, University of Nice Sophia Antipolis (France) and Harvard Medical School.
2017	External examiner for Dr. Benjamin Vincent graduate thesis dissertation, Harvard Medical School.
2017	Thesis Defense Committee member for Dr. Xu Yang, University of Massachusetts Medical School.
2017	Thesis Defense Committee member for Dr. Pengying Hao, Boston University.

2017-present Thesis committee member: Jessica Keenan (Bioinformatics), David Bray (Bioinformatics), Marzieh Rasekh (Bioinformatics), Aaron Chevalier (Bioinformatics), Boting Ning (Bioinformatics), Xingyi Shi (Bioinformatics), Meghan Bragdon (MCBB), Binita Basukala (MCBB), Patrick Lally (BME), Kellan Andrilenas (Biology), Christopher Thomas (Biology), Christopher DiRusso (Biology), Natalie Vaisman (Biology), Heather Hook (Biology), Alexandra Lion (Biology), Sita Ramaswamy (BMC), Hannah Lords (Bioinformatics), Natasha Gurevich (Bioinformatics), Alex Lion (Biology), Jaehoon Choi (BME), Christine Caroll (Biology), Gyeung Yun (MCBB), Imron.

Chaudhry (MCBB), Mengze Li (Biology), Mengrui Wang (MCBB), Neal Kwalranani (BMC), Pamela Garcia Lopez (Biology), Maryam Dashtiahangar (MCBB), Sita Ramaswamy (BMC).

PROFESSIONAL SERVICE

External serv	rice
2024	Reviewer for the MSI NIH study section.
2024	Reviewer for the Cancer Genetics NIH study section.
2023	Reviewer for K99 (special emphasis panel) NIH panel.
2023	Organizer of the meeting "Rules of protein-DNA recognition: computational and experimental advances." Cancun, Mexico.
2023	Reviewer for R15 (special emphasis panel) NIH panel.
2022	Reviewer for K99 (special emphasis panel) NIH panel.
2021	Organizer of the BIRS meeting "Rules of protein-DNA recognition: computational and experimental advances." Oaxaca, Mexico. (cancelled due to COVID-19)
2021	Reviewer for K99 (special emphasis panel) NIH panel.
2021	Reviewer for Genomics, Computational Biology and Technology NIH study section.
2021	Reviewer for NIH R01 special emphasis panel study section.
2020	European Research Council (ERC) grant reviewer.
2017-2023	Associate Editor, Systems Biology section (Frontiers journals)
2017-2018	Guest Editor, The Journal of Molecular Biology. Special issue on "Theory and Application of Network Biology Toward Precision Medicine."
2017-2018	NSF ad hoc reviewer.
2015-2021	Member, Advisory Editorial Board of <i>Genomics</i> .
2014-present	Reviewer for Nature Microbiology, Nature Methods, Cell Systems, Nature Communications, Nucleic Acids Research, G3 (Genes, Genomes, Genetics), BMC Biology, Current Opinions in Systems Biology, Journal of Visualized Experiments, Scientific Reports, Genome Research, Frontiers in Immunology, Genes and Immunity, Molecular Cell.

University service

2020	Member of the Tertulia Organization Committee.
2019-2023	Director of Graduate Admissions of the MCBB Program.
2017-2023	MCBB Program committee member and member of graduate student selection committee.
2017	Responsible Conduct of Research training mentor.
2016-2019	Poster judge at the Genome Science Institute Symposium.

Biology Department service

2024-present Director of Research.

2020-2023 Biology Department faculty search committee member.

2021 Advisory committee to select Biology Department Chair.

2020 BI 583 (Friday seminar series) organizer.

2019-2020 Biology Department faculty search committee member.

2018-2019 Biology Department annual retreat committee.

2018 Biology Department representative to the SACNAS conference, San Antonio, TX.

2016-present Cell and Molecular Biology graduate student admissions committee.

2017-2023 Biology Department Seminar Series (co-organizer).