

Rachel Green
Curriculum Vitae

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DEMOGRAPHIC AND PERSONAL INFORMATION

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Johns Hopkins University
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EDUCATION AND TRAINING

Year	Degree	Institution	Discipline
1986	B.S.	University of Michigan	Chemistry
1992	Ph.D.	Harvard University	Biological Chemistry
1998	Post-doc	UC Santa Cruz	Biochemistry

Professional Experience

1998-2003	Assistant Professor Department of Molecular Biology and Genetics, Johns Hopkins University, School of Medicine, Baltimore, MD
2000-2005	Assistant Investigator, Howard Hughes Medical Institute, Johns Hopkins University, School of Medicine, Baltimore, MD
2003-2007	Associate Professor Department of Molecular Biology & Genetics, Johns Hopkins University, School of Medicine, Baltimore, MD
2005-present	Investigator, Howard Hughes Medical Institute, Johns Hopkins University, School of Medicine, Baltimore, MD

2007-2017	Professor Department of Molecular Biology & Genetics, Johns Hopkins University, School of Medicine, Baltimore, MD
2017-present	Bloomberg Distinguished Professor Joint Appointment in the Department of Molecular Biology & Genetics and Biology, Johns Hopkins University School of Medicine and Krieger School of Arts and Sciences, Baltimore, MD
2018-present	Director of Biochemistry, Cellular and Molecular Biology (BCMB) Program, Johns Hopkins University, School of Medicine, Baltimore, MD

RESEARCH ACTIVITIES

Peer-reviewed scientific articles

Goldman DH, Livingston NM, Movsik J, Wu B, Green R. (2021) Live-cell imaging reveals kinetic determinants of quality control triggered by ribosome stalling. *Mol Cell*. 2021 Apr 15;81(8):1830-1840.e8. doi: 10.1016/j.molcel.2021.01.029.

Ranjan N, Pochopien AA, Chih-Chien Wu C, Beckert B, Blanchet S, Green R, V Rodnina M, Wilson DN. (2021) Yeast translation elongation factor eEF3 promotes late stages of tRNA translocation. *EMBO J*. 2021 Mar 15;40(6):e106449. doi: 10.15252/embj.2020106449.

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Hickey KL, Dickson K, Cogan JZ, Replogle JM, Schoof M, D'Orazio KN, Sinha NK, Hussmann JA, Jost M, Frost A, Green R, Weissman JS, Kostova KK. (2020) GIGYF2 and 4EHP Inhibit Translation Initiation of Defective Messenger RNAs to Assist Ribosome-Associated Quality Control. *Mol Cell*. 2020 Sep 17;79(6):950-962.e6. doi: 10.1016/j.molcel.2020.07.007.

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- Wu CC, Peterson A, Zinshteyn B, Regot S, Green R. (2020) Ribosome Collisions Trigger General Stress Responses to Regulate Cell Fate. *Cell*. 2020 Jul 23;182(2):404-416.e14. doi: 10.1016/j.cell.2020.06.006.
- Zinshteyn B, Wangen JR, Hua B, Green R. (2020) Nuclease-mediated depletion biases in ribosome footprint profiling libraries. *RNA*. 2020 Jun 5;. doi: 10.1261/rna.075523.120.
- Goldman DH, Livingston NM, Movsik J, Wu B, Green R. (2020) Dynamic regulation of translation quality control associated with ribosome stalling. [preprint]. 2020 May; Available from: <https://www.biorxiv.org/content/10.1101/2020.05.29.121954v1>. doi: <https://doi.org/10.1101/2020.05.29.121954>. *Under review*.
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- Wangen JR & Green R. (2020) Stop Codon Context Influences Genome-Wide Stimulation of Termination Codon Readthrough by Aminoglycosides. *Elife*. 2020 Jan 23;9. pii: e52611. doi: 10.7554/eLife.52611.
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Reviews and Book Chapters

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- Cochella, L and Green, R. (2005) Wobble during decoding: more than third-position promiscuity. *Nat Struct Mol Biol*; 11: 1160-2.
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- Green, R, Ellington, AD, Bartel, DP and Szostak, JW. (1991) In vitro genetic analysis: selection and amplification of rare functional nucleic acids. Methods 2: 75-86.
- Ellington, AD and Green, R. (1990) Synthesis of oligonucleotides. Current Protocols in Molecular Biology Unit 2.11.

Patents

Date	Title
4/12/2000	In Vitro Ribosome Evolution US app. no. 09/547,537; ref. no. JHU-3413; patent issued 3/19/2002
3/27/2003	Method for Producing Diverse Libraries of Encoded Polymers US app. no. 11/235,667; ref. no. JHU-4204; pending
6/21/2004	In Vitro Reconstitution of Ribonucleoprotein Complexes, and Methods of Use Thereof; US app. no. 05/22017; ref. no. JHU-4466; pending
12/02/2008	Manipulation of Post Peptidyl Transfer Quality Control for Protein Synthesis; JHU C10563

EXTRAMURAL SPONSORSHIP

Current Grants

Dates/Title: 2000-present
Sponsor: Howard Hughes Medical Institute
Principle Investigator: Rachel Green
Role: PI

Dates/Title: 1999-2024
"Molecular mechanisms of ribosome pausing and the cellular response"
ID# 2R37GM059425

Sponsor: NIH
Principal Investigator: Rachel Green
Role: PI

Dates/Title: 2019-2021
“Molecular definition of nonsense suppression and nonsense mediated decay”
ID# GREEN19G0
Sponsor: Cystic Fibrosis Foundation
Principal Investigator: Rachel Green
Role: PI

Previous Grants

Dates/Title: 2013-2018
“Interactions regulating translation and protein biogenesis in vivo”
ID#: U54GM105816
Sponsor: NIH
Principal Investigator: Patricia Clark
Role: PI

Dates/Title: 2016-2018
“Defining readthrough drug specificity for cystic fibrosis therapeutic development”
ID# 124760 (GREEN16G0)
Sponsor: Cystic Fibrosis Foundation
Principal Investigator: Rachel Green
Role: PI

Dates/Title: 2014-2019
“Molecular mechanisms of ribosome pausing and the cellular response”
ID# 2R01GM059425-14/2R37GM059425-14
Sponsor: NIH
Principal Investigator: Rachel Green
Role: PI

Dates/Title: 2005-2013
“The role played by the rRNAs and tRNAs in translation”
ID #: 2R01GM059425-06A1
Sponsor: NIH
Principle Investigator: Rachel Green
Role: PI

Dates/Title: 1999-2004
“Defining the role played by 23S rRNA in translation”
ID #: 1R01GM059425
Sponsor: NIH

Dates/Title: 1998-2003
"Directed evolution of the catalytic center of the ribosome"
ID #: 98-4403
Sponsor: David and Lucile Packard Fellowship Award

Dates/Title: 1999-2002
"Defining and evolving the peptidyl transferase center of the ribosome"
ID #: 99 B-110
Sponsor: Searle Scholarship Award

Dates/Title: 1998-2002
"Development of an in vitro selection scheme for the isolation of functional ribosomes from heterogeneous populations"
ID #: 2078
Sponsor: Burroughs Wellcome Fund Career Award

EDUCATIONAL ACTIVITIES**Teaching***Course Co-director*

Spring 2003 (with J. Corden) RNA structure and function (upper level elective)
 Fall 2004-2007 (with J. Boeke) Molecular biology and genomics (BCMB core module)

Course Director

Spring 2007 Topics in RNA biology
 2008-present Molecular Biology and Genomics (BCMB core module)

Lecturer

Fall 1998-present Molecular biology core graduate course
 Fall 2001-present Molecules and cells (medical school course)
 Fall 2001-2002 Computational approaches to RNA structure
 Fall 2004 Rockefeller University (graduate course)

Small group instructor

Fall 2002-2003 Molecules and cells (molecular biology)
 Fall 2004-present Molecules and cells (biophysics)

Mentoring*Pre-doctoral students:**Current position:*

1998-2005	Daniel R. Southworth, Ph.D. <i>Paul Ehrlich Research Award (2004)</i>	Associate Professor University of California-San Francisco
2000-2005	Anthony R. Cukras, M.D./Ph.D.	Dermatologist, Harvard Medical Faculty Physician at Beth Israel Deaconess, Boston, MA
2000-2006	Luisa Cochella, Ph.D. <i>Alicia Showalter Reynolds Award (2005)</i>	Group Leader Institute of Molecular Pathology Vienna, Austria
2000-2007	Divya Sharma, Ph.D.	Post-doc with Harris Bernstein NIH
2000-2007	Elaine Youngman, Ph.D. <i>(Alicia Showalter Reynolds Award 2006)</i>	Assistant Professor Villanova University

2005-2009	Jeffrey Shaw, Ph.D.	Senior Research Scientist Promega
2005-2011	Rodrigo Ortiz-Meoz, Ph.D.	Senior Scientist Janssen Pharmaceutical Companies Johnson & Johnson
2005-2011	Michelle Kim (Zinchenko), Ph.D.	Lead Scientist, Circulomics, Inc.
2006-2012	Daniel Eyler, Ph.D.	Lab Manager, Koutmou Lab University of Michigan
2006-2011	Shan He, Ph.D.	Co-Founder, Chief Business Officer LinkDoc Technology, Beijing, China
2007-2012	Junho Hur, Ph.D.	Assistant Professor Kyung Hee University College of Medicine, Seoul, Korea
2008-2012	Christopher Shoemaker, Ph.D.	Assistant Professor Geisel School of Medicine at Dartmouth
2007-2013	Megan McDonald Gilmore, Ph.D.	Life Sciences Consultant Accenture
2011-2018	Anthony Schuller, Ph.D.	Post-doc with Thomas Schwartz MIT, Helen Hay Whitney Fellow
2011-2017	Aditya Radakrishnan, Ph.D.	Scientist Cellgene, Seattle, WA
2011-2015	Eric Mills, M.D., Ph.D. (co-advisor with Nick Ingolia)	Resident at Mass. Gen. Hospital
2013-2019	Laura Lessen, Ph.D.	Post-doc with Rachel Green, Johns Hopkins University Vaccines, Glaxo Smith Kline
2013-2019	Jamie Wangen, Ph.D.	Post-doc with Rachel Green, Johns Hopkins University Post-doc with Mitch Guttman, Caltech
2015-2020	Karole D'Orazio, Ph.D.	Post-doc with Rachel Green, Johns Hopkins University

Post-doc with Danesh Moazed
Harvard Medical School

2015-2019	Fuad Mohammad (BCMB student)	Post-doc with Cynthia Sears, Johns Hopkins University
2016-	Anthony Veltri (PMB student)	
2019-	Miguel Pacheco (BCMB student)	
2019-	James (Jake) Saba (M.D./Ph.D. student)	
2020-	Annie Campbell (BCMB student)	
2020-	Esther Park (PMB student)	
2021-	Jeff Li (SPH-BMB student)	
2021-	Vienna Huso (BCMB student)	

*Post-doctoral fellows:**Current position:*

1999-2002	Katharina Semrad, Ph.D. Austrian Funds	Senior instructor IMP, Vienna
2002-2005	Charles (Chuck) Merryman, Ph.D.	Senior Scientist J. Craig Venter Institute
2002-2006	Silke Dorner, Ph.D. Austrian Funds	Group Leader Max Perutz Laboratories, Vienna
2005-2010	Ali Nahvi, Ph.D. LSRF (2006-2008), HHMI	Discovery Research Lead Spark Therapeutics, Philadelphia, PA
2007-2012	Sergej Djuranovic, Ph.D.	Associate Professor Washington University
2007-2012	Hani Zaher, Ph.D. NSERC fellowship (2007-2009) NIH K99 award	Associate Professor Washington University
2009-2012	Alexandros Petropoulos, Ph.D.	Research Associate, NCSR Demokritos, Athens, Greece
2009-2015	Nicholas Guydosh, Ph.D.	Stadtman Tenure-Track Investigator

	Damon-Runyon post-doc fellow	NIDDK, NIH
2012-2016	Kristin Smith-Koutmou, Ph.D. NIH-funded post-doc	Assistant Professor University of Michigan
2010-2015	Karen Wehner, Ph.D. BSI-funded post doc HHMI	Associate Director Research Integrity Johns Hopkins University
2013-2020	Chih-Chien (Colin) Wu, Ph.D. HHMI	Stadtman Investigator, RNA Biology Lab, NIH-NCI Frederick, MD
2014-2015	Chris Woostenhulme, Ph.D. NIH U54 funded post-doc	Research Associate, Johns Hopkins University Cytiva
2015-	Kazuki Saito, Ph.D.	
2015-2021	Boris Zinshteyn, Ph.D. Damon-Runyon post-doc fellow NIH K99 award	Senior Scientist, Panorama Medicine, Philadelphia, PA
2016-2021	Daniel Goldman, Ph.D. Damon-Runyon post-doc fellow	Senior Scientist, Sana Biotechnology, Inc., Cambridge, MA
2018-	Niladri Sinha, Ph.D. HHMI-Jane Coffin Childs post-doc fellow	
2019-	Boyang (Frank) Hua, Ph.D.	
2020-	Marco Catipovic, Ph.D. Damon-Runyon post-doc fellow	

Sabbatical visitors:

2011-2013	Allen Buskirk, Ph.D., BYU Professor
2013-2014	Martine Collart, Ph.D., Universite de Geneve

EDITORIAL ACTIVITIES

Member of RNA journal editorial board (2007)
 Member of Molecular Cell editorial board (2007)
 Member of Journal of Biology journal editorial board (2008)
 Member of Chemistry and Biology journal editorial board (2009)
 RNA Society Board of Directors (effective Jan 1, 2010)

Damon Runyon-Rachleff Innovation Award Selection Committee (effective Oct 22, 2009)
RNA associate editor (2011)
NAS editor (2012-present)

Journal peer review *eLife, Cell, Molecular Cell, Nature Structural Biology, Journal of Molecular Biology, PNAS, Biochemistry, RNA, Science, Nature, J. Biological Chemistry*

ORGANIZATIONAL ACTIVITIES

Institutional Administrative Appointments

2000-2004 BCMB rotation committee
2004, 2006 Chair of MBG job search
2018-present Director of BMCB Program

Professional Society

Membership in RNA society since 1998
Membership in National Academy of Sciences since 2012
Membership in National Academy of Medicine since 2017
Membership in American Academy of Arts & Sciences since 2019

Conference Session Chair

2004 Cold Spring Harbor Laboratory Bacterial Genetics (Cold Spring Harbor, NY)
2005 RNA Society Meeting – Translation session (Banff, Canada)
2005 Japanese-American Frontiers in Science (Tokyo, Japan)
2006 Keystone meeting – Nucleic Acid Enzymes (Taos, NM)
2006 FASEB meeting – Nucleic Acid Enzymes (Saxtons River, VT)
2007 ASBMB meeting (Washington, D.C.)
2007 EMBO Conference (Heidelberg, Germany)

Conference Co-organizer

2007 RNA society annual meeting (Madison, WI)
(~1000 participants)
2010 Ribosomes 2010 International ribosome meeting (Orvieto, Italy)
300 participants
2011 Translational Control (Heidelberg, Germany)
400 participants
2012 RNA society annual meeting (Ann Arbor, MI)
(~1000 participants)
2013 ASBMB – Section organizer (with Dan Herschlag)
2013 GRC Nucleic Acids (co-organize with Karolin Luger)
2017 RNA Meeting organizer
2017 EMBL organizer
2018 CSH organizer

Scientific review panel

2004 NIH Biochemistry study section, Ad Hoc Reviewer (SRO Mike Sveda)

2006	NIH Microbiology study section, Ad Hoc Reviewer (SRO Diane Stassi)
2007	NIH Biochemistry study section, Ad Hoc Reviewer (SRO Mike Sveda)
2008	NIH Biochemistry study section, Ad Hoc Reviewer (SRO Mike Sveda)
2009-2012	NIH Biochemistry study section, Permanent Reviewer (SRO Mike Sveda)
2009	Science Foundation Ireland –Life Sciences
2009-	Reviewer for Damon Runyon Early Career Rachleff Award
2012	NIH MGA chair (SRO Mike Sveda)
2011	NIH Pioneer award - Reviewer
2012	DFG Review Panel – Berlin
2014	ERC Review Panel - Brussels
2014	Munich SAB panel for interdisciplinary graduate program

Consulting Activities and Science Advisory Boards

2001	Kosan Pharmaceuticals
2004	Legal advisor (Benitec)
2005	AminoArrays
2015-present	Cystic Fibrosis Foundation
2016-present	Moderna SAB
2017-present	Stowers Institute SAB
2019-present	Celgene
2020-present	FL63
2021-present	Arrakis
2021-present	Foresite Labs
2021-present	Initial Therapeutics

RECOGNITION

Awards and Honors

1982-86	Undergraduate Academic Scholarships
1987-90	NSF Predoctoral Fellowship
1993-96	Damon Runyon Walter Winchell Postdoctoral Fellowship
1996	American Cancer Society Postdoctoral Fellowship, California Division
1996-01	Burroughs Wellcome Career Award
1999	RPI/RNA Award for Young Scientists
2000	David and Lucile Packard Fellowship Award
1999	Searle Scholarship Award
2005	Graduate Student Teaching Award
2012	Elected to the National Academy of Sciences
2017	Elected to the National Academy of Medicine
2017	Named Bloomberg Distinguished Professor at Johns Hopkins University School of Medicine
2019	Elected to the American Academy of Arts & Sciences

Invited Seminars

1998	NIH Lambda Lunch (hosted by Gisela Storz), MD
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1999 University of Maryland, College Park, MD
1999 University of Maryland, Baltimore County, MD
1999 Dept. of Biological Chemistry, JHU-SOM, Baltimore, MD
2000 NIH, Bethesda, MD
2000 Carnegie Institute of Washington, Baltimore, MD
2001 CARB, Rockville, MD
2001 Dept. of Pharmacology, JHU-SOM, Baltimore, MD
2002 Yale University, New Haven CT
2002 State University of New York, Buffalo NY
2002 Case Western Reserve, Cleveland OH
2003 Institute of Molecular Biology at University of Oregon, Eugene OR
2003 University of California at Irvine, Irvine, CA
2003 University of California at Davis, Davis, CA
2004 University of California at San Francisco, San Francisco, CA
2004 Iowa State University, Ames, IA
2004 Harvard University, Boston, MA
2004 Rockefeller University, New York, NY
2005 Johns Hopkins University (Institute of Genetic Medicine)
2005 Pennsylvania State University, Hershey, PA
2005 UT Southwestern Lecture (Paul Srere Lecture)
2005 Thomas Jefferson University, Philadelphia, PA
2005 NIH Lambda Lunch, MD
2006 Columbia University, New York, NY
2006 Stanford University, Frontiers in Science Lecture
2006 Johns Hopkins University (School of Public Health), Baltimore MD
2006 University of Washington, Seattle, WA
2006 University of Chicago, Chicago, IL
2006 North Carolina State University, Durham, NC
2006 University of California, San Diego, CA
2006 Simon Fraser University, Vancouver, BC, Canada
2006 New Jersey Medical School, Newark, NJ
2007 University of Utah, Salt Lake City, UT
2007 Brigham Young University, Provo, UT
2007 Rockefeller University, New York, NY
2007 Harvard University, Boston, MA
2007 Rochester University, Rochester, NY
2007 McMaster University (Canada)
2007 Bryn Mawr College, Philadelphia, PA
2007 Penn State University, State College, PA
2007 UCSF, San Francisco, CA
2007 University of Maryland, College Park, MD
2007 Howard University, Washington, DC
2008 Carleton College (Minnesota)
2008 Cal Tech, Pasadena, CA
2008 University of Illinois, Urbana-Champaign, IL
2008 University of Massachusetts, Worcester, MA

2008 University of Pennsylvania, Philadelphia, PA
2009 Cleveland Clinic Lerner Institute, Cleveland, PA
2009 Yale University, New Haven CT
2009 University of Michigan, Ann Arbor, MI
2009 Harvard University, Boston, MA
2009 University of Miami, Miami, FL
2009 Cleveland Clinic, Post-doctoral lecture, Cleveland, OH
2009 University of Maryland, Baltimore County
2009 Johns Hopkins School of Public Health, Baltimore, MD
2009 Ohio State University, Columbus, OH
2009 Indiana University, Bloomington, IN
2010 University of Arizona, Roy Parker Lab Retreat
2010 Virginia Commonwealth University
2010 University of California, Berkeley
2011 Brown University
2011 Carnegie Institute
2011 Franklin and Marshall College
2011 University of Chicago
2012 Cold Spring Harbor Laboratories
2012 ETH – Zurich
2012 Columbia University
2012 University of California (UCLA)
2012 NIEHS
2012 IMP (Vienna, Austria)
2012 University of Toronto (Toronto, Ontario, Canada)
2012 Rutgers University (New Brunswick, NJ)
2013 Harvard Medical School (Boston, MA)
2013 University of Massachusetts (Worcester, MA)
2013 University of Rochester (Rochester, NY)
2013 UNC Distinguished Lecture (Chapel Hill, NC)
2013 USUHS (Washington, DC)
2013 UCSF (Women’s society, San Francisco, CA)
2014 SUNY Albany – Keynote (Albany, NY)
2014 Washington University (St. Louis, MO)
2014 Biocenter of the Goethe University (Frankfurt, Germany)
2014 Aarhus Universitet (Aarhus, Denmark)
2014 Case Western Reserve (Cleveland, OH)
2014 Yale University (New Haven, CT)
2014 MUSC keynote address (Charleston, SC)
2014 Tsinghua University (Beijing, China)
2015 University of Notre Dame (Notre Dame, IN)
2015 University of Michigan (Ann Arbor, MI)
2015 University of Texas Southwestern (Dallas, TX)
2016 University of Colorado (Denver, CO)
2017 Salk Symposium
2017 Cornell University

2017	UIC
2017	UMDNJ
2017	St. Judes
2017	Tel Aviv University
2017	Weizmann Institute
2017	University of Maryland
2018	Max Planck Institute -(Munich, Germany)
2018	WEHI (Melbourne, Australia)
2018	NYU Special Lecture – Nudler
2018	Arizona – Ross Buchan
2018	UCSD – Sue Ackerman
2018	OSU Symposium keynote
2018	Northwestern Symposium keynote
2018	IMP Vienna
2018	Princeton University
2018	Columbia University
2019	Rockefeller University
2019	Columbia University
2019	University of Toronto
2019	University of Michigan keynote
2019	NIH – post-doc invitation
2019	University of Texas Austin
2019	Villanova
2019	Stanford
2019	University of North Carolina- Duke Keynote
2020	Harvard University (Boston, MA)
2020	University of Pennsylvania School of Medicine
2020	Yale University (New Haven, CT)
2020	University of Washington Keynote
2020	Memorial Sloan Kettering Institute
2020	University of Alabama, Birmingham
2021	University of California, San Diego

Invited lectures at meetings

1998	Translational Control (Cold Spring Harbor, NY)
1998	Gordon Research Conference - Nucleic Acids (Newport, RI)
1999	The Ribosome Helsingor Conference (Denmark)
2001	Biophysical Society Annual Meeting (Boston, MA)
2001	CSH Symposium – Ribosome (Cold Spring Harbor, NY)
2001	Gordon Research Conference – Nucleic Acids (Newport, RI)
2001	Gordon Research Conference – QSAR (Tilton, NH)
2001	Wesleyan Symposium on Translation (Middletown, CN)
2001	American Chemical Society Meeting (Chicago, IL)
2002	Ribosome Meeting (Queenstown, New Zealand)
2003	RNA Horizon Symposia (Portland, ME)
2003	Gordon Research Conference - Nucleic Acids (Newport, RI)

2004 Gordon Research Conference - Coenzymes & Metabolic Pathways (Meridan, NH)
 2005 Biophysical Society Annual Meeting (Long Beach, CA)
 2006 ASBMB (San Francisco, CA)
 2006 Gordon Research Conference – Nucleic Acids (declined)
 2006 CSH Symposium - Regulatory RNAs (Cold Spring Harbor, NY)
 2006 Gordon Research Conference - Molecular Cell Biology (Tilton, NH)
 2006 FASEB Summer Research Conference – Nucleic Acid Enzymes (Saxons River, VT)
 2006 RNA Society (Seattle, WA)
 2007 ASBMB Meeting (Washington, DC)
 2007 RNA Annual Society Meeting (Madison, WI)
 2007 International Ribosome Conference (MA)
 2007 Symposium of Protein Society
 2007 ACS Meeting, Yonath Symposium (Boston)
 2007 EMBO Conference (Heidelberg, Germany)
 2007 Keystone Symposium (Coeur D’Alene, Idaho)
 2008 ASBMB Meeting (San Diego, CA)
 2008 RiboWest Conference – Keynote Speaker (Lethbridge, Canada)
 2008 RNA Annual Society Meeting (Berlin, Germany)
 2009 Gordon Research Conference – Nucleic Acids (Portland, ME)
 2009 Protein Society Conference (Boston, MA)
 2009 Neurons meeting at Janelia Farms
 2010 Cologne Spring Meeting (Germany)
 2010 International Ribosome Meeting (Orvieto, Italy)
 2010 GRC – Post transcriptional Gene Regulation (Providence, RI)
 2010 CSH Translational Control
 2010 Max Planck Horizons Seminar (Goettingen)
 2011 ASBMB (Washington DC)
 2011 Keystone RNA silencing meeting (Monterey, CA)
 2011 GRC – Nucleic Acids (New Biddeford, ME)
 2011 RNA Society Meeting (Kyoto, Japan)
 2012 Hutchinson symposium (Seattle, WA)
 2012 GRC – Post transcriptional Gene Regulation (Providence, RI)
 2012 EMBL – protein quality control
 2012 EMBL – life of an RNA
 2013 Cell meeting (Sitges, Spain)
 2013 Biophysical Society (Philadelphia, PA)
 2013 ASBMB (Boston, MA)
 2013 FEBS meeting – St. Petersburg, Russia
 2013 International Ribosome Meeting (Marin County, CA)
 2014 Berlin Molecules and Membranes (Berlin, Germany)
 2014 Mosbach Spring Meeting (Mosbach, Germany)
 2014 FASEB meeting on mRNA decay (Big Sky, MT)
 2014 GRC – Post transcriptional Gene Regulation (Providence, RI)
 2014 CSH Asia meeting on RNA biology (Shanghai, China)
 2015 ASBMB Special Symposium (St. Louis, MO)
 2016 MSTP Presentation (NIH)

2016 Translational Control Meeting (CSHL)
 2016 Complex Life of mRNA (Heidelberg, Germany)
 2017 UC Steitz Lectures
 2017 ASBMB (Chicago)
 2017 NIH RNA Symposium
 2017 EMBO Protein Quality Control (Spain)
 2017 Genetics Meeting (Lausanne, Switzerland)
 2017 FEBS (Israel)
 2018 Lorne Conference (Australia)
 2018 Cologne keynote
 2018 Chicheley Hall Profiling Conference (UK)
 2018 GRC Post-transcriptional
 2018 CSH translational control
 2018 ASCB Quality Control Meeting – plenary lecture
 2019 Ribosome Meeting (Mexico)
 2019 Cystic Fibrosis Foundation (Washington D.C.)
 2019 GRC Galveston Translation/Disease keynote
 2019 RNA Therapeutics Symposium (Worcester, MA)
 2019 Rosalind Franklin Board Meeting (Philadelphia, PA)
 2019 EMBO Protein Synthesis & Translational Control (Heidelberg, Germany)
 2019 MBSJ Workshop (Fukuoka, Japan)
 2020 Max Planck Horizons in Molecular Biology (Gottingen, Germany- Virtual)
 2020 Rustbelt RNA (RRM- Virtual)
 2020 8th International mRNA Health Conference (Virtual)
 2021 Stowers Institute, Scientific Advisory Board

Corporate Visits (Invited Seminar Speaker)

1998 Phylos Inc., Lexington MA
 1998 Dupont Chemical Corporation (Wilmington, DE)
 2000 Cumbre (Dallas, TX)
 2000 Pharmacia-Upjohn (Kalamazoo, MI)
 2001 Kosan Biosciences (San Francisco, CA)
 2002 Vertex Pharmaceuticals (Boston, MA)
 2004 GlaxoSmithKline (Collegeville, PA)
 2005 Venter Institute (Rockville, MD)
 2009 New England Bio Labs (Boston, MA)
 2012 Ra Pharmaceuticals (Boston, MA)
 2013 Moderna (Boston, MA)
 2013 Novartis (Boston, MA)
 2015 Moderna (Boston, MA)
 2016 Moderna (Boston, MA)
 2017 Moderna (Boston, MA)
 2017 Merck (Philadelphia, PA)
 2018 Moderna (Boston, MA)
 2018 Arrakis Therapeutics (Boston, MA)
 2018 ELOXX (Boston, MA)

2018 Celgene (Chicago, IL)
2019 Moderna (Boston, MA)
2019 Cystic Fibrosis Foundation (Bethesda, MD)
2020 FL63 (virtual-Cambridge, MA)
2020 Moderna (virtual, Boston, MA)
2021 Moderna (virtual, Boston, MA)

Invited Panel

2000 Harvard University Graduate Advisory Panel – Dept. of Genetics
2010 Harvard Medical School – former student symposium
2016 University of Rochester student invitation
2017 UCI – student invitation
2018 UCSF – student invitation
2020 HHMI Hanna H. Gray Fellowship Review Panel