

CURRICULUM VITAE AND BIBLIOGRAPHY

Howard J. Worman, M. D.

Date of Preparation:

November 7, 2017

Personal Data:

Name: Howard J. Worman
Birthdate: May 21, 1959
Birthplace: Paterson, NJ
Citizenship: USA

Academic Training:

Cornell University, Ithaca, NY	A. B.	1981
University of Chicago, Chicago, IL	M. D.	1985
Licensure:	New York State Medical License #167259	July 28, 1986
	Illinois Medical License #036-110239	July 31, 2003 (inactive)

Traineeships:

Intern and Resident in Internal Medicine. New York Hospital, New York, NY, 1985-1987.
Fellow in General Internal Medicine. New York Hospital, New York, NY, 1987-1990.
Postdoctoral Fellowship in Cell Biology. Rockefeller University, New York, NY, 1987-1990.
Clinical Training in Liver Diseases. Mount Sinai Hospital, New York, NY, 1990-1991.

Board Certifications:

National Board of Medical Examiners, July, 1986, Certificate #307912.
American Board of Internal Medicine, September 15, 1988, Certificate #118192.

Professional Organizations and Societies:

American Association for the Advancement of Science
American Association for the Study of Liver Diseases
American Chemical Society
American College of Physicians
American Diabetes Association
American Federation for Medical Research
American Gastroenterological Association
American Society for Cell Biology
American Society for Clinical Investigation
New York Academy of Sciences (Vice-Chairman, Section of Biological Sciences, 1992- 1993;
Chairman, Section of Biological Sciences, 1993-1994; Advisory Board 1995-1996)
Association of American Physicians

Academic Appointments:

Clinical Associate in Medicine. Cornell University Medical College, New York, NY, 1986-1987.
Fellow in Medicine. Cornell University Medical College, New York, NY, 1987-1990.
Guest Investigator (Postdoctoral Fellow) in Cell Biology. The Rockefeller University, New York, NY, 1987-1990.
Assistant Professor of Medicine and Molecular Biology. Mount Sinai School of Medicine, New York, NY, 1990-1994.
Assistant Professor Biomedical Sciences. City University of New York, New York, NY, 1991-1994.
Assistant Professor of Medicine. Columbia University, New York, NY, 1995.

Assistant Professor of Medicine and Anatomy and Cell Biology. Columbia University, New York, NY, 1995-1998.

Associate Professor of Medicine and Anatomy and Cell Biology. Columbia University, New York, NY, 1998-2007 (tenured 2001).

Professor of Medicine and Pathology and Cell Biology. Columbia University, New York, NY, 2007-present.

Hospital Appointments:

Intern in Medicine. The New York Hospital, New York, NY, 1985-1986.

Resident in Medicine. The New York Hospital, New York, NY, 1986-1987.

Clinical Fellow in Medicine. The New York Hospital, New York, NY 1987-1990.

Assistant Attending Physician. The Mount Sinai Hospital, New York, NY, 1990-1994.

Assistant Attending Physician. New York-Presbyterian Hospital Columbia-Presbyterian Center, New York, NY, 1995-1998.

Associate Attending Physician. New York-Presbyterian Hospital Columbia University Medical Center, New York, NY, 1998-2007.

Director, Division of Digestive and Liver Diseases. New York-Presbyterian Hospital Columbia University Medical Center, New York, NY, 1999-2002.

Director of Research Training and Liver Research, Division of Digestive and Liver Diseases. New York-Presbyterian Hospital Columbia University Medical Center, New York, NY, 2004-2015.

Attending Physician. New York-Presbyterian Hospital Columbia University Medical Center, New York, NY, 2007-present.

Honors:

Phi Beta Kappa, Cornell University, 1980

Bachelor of Arts cum laude in biology, Cornell University, 1981

Calvin Fentress Research Fellowship Award, University of Chicago, 1984

First Prize Midwest Student Medical Research Forum, 1985

Franklin McLean Award for meritorious medical student research, University of Chicago, 1985

Richard W. Reilly Award for outstanding aptitude in gastroenterology, University of Chicago, 1985

Trainee Award in Clinical Research, American Federation for Clinical Research, 1989

Henry Christian Award, American Federation for Clinical Research, 1990

Charles E. Culpeper Scholar in Medical Science, 1994

SmithKline Beecham Clinical Research Award, American Gastroenterological Association, 1994

Travel Award 16th International Congress of Biochemistry & Molecular Biology New Delhi, American Society for Biochemistry and Molecular Biology, 1994

Silberberg Award, Columbia University College of Physicians and Surgeons, 1995

Irma T. Hirschl Scholar, Irma T. Hirschl Trust, 1997

American Society for Clinical Investigation, 1998

Marquis *Who's Who in America*

Elliott Osserman Award, Israel Cancer Research Fund Scientific Review Panel, 2010

Association of American Physicians, 2010

Bioaccelerate NYC Prize, New York City Partnership Foundation, 2010

Grant and Fellowship Support:

Research Grants, Contracts and Fellowships:

1. National Institutes of Health. "Physician-Scientist Award: Characterization of Nuclear Pore Complex Proteins." Grant #K11 DK01790. Principal Investigator. Total direct costs: \$342,400. 1987-1992.

2. Henry M. and Lillian Stratton Foundation, Inc. Medical Research Grant. "Cell Biology of the Nuclear Envelope: A Target Organelle for Autoantibodies in Liver Diseases." Principal Investigator. Total direct costs: \$136,365. 1992-1995.
3. Charles H. Revson Foundation. "Fellowship in Biomedical Research." Principal Investigator. Total direct costs: \$50,000. 1992-1994.
4. Charles E. Culpeper Foundation. "Scholarship in Medical Science." Principal Investigator. Total direct costs: \$50,000. 1994.
5. American Gastroenterological Association Foundation SmithKline/Beecham Clinical Research Award. "Gp210 Autoantibodies in Diagnosis and Pathophysiology of Primary Biliary Cirrhosis." Principal Investigator. Total direct costs: \$25,000. 1994-1995.
6. American Gastroenterological Association Foundation. "Student Research Fellowship: Flora Tartakovsky." Preceptor. Total direct costs: \$2,500. 1994.
7. American Liver Foundation. "Student Research Fellowship: Qian Ye." Preceptor. Total direct costs: \$2,500. 1994.
8. American Liver Foundation. "Student Research Fellowship: Qian Ye." Preceptor. Total direct costs: \$2,500. 1995.
9. American Liver Foundation. "Student Research Fellowship: Flora Tartakovsky." Preceptor. Total direct costs: \$2,500. 1995.
10. American Cancer Society. "Inner Nuclear Membrane Biogenesis." Grant #CB-119. Principal Investigator. Total direct costs: \$252,000. 1995-1997.
11. National Science Foundation. "U.S.-France Cooperative Research: Nuclear Envelope Dynamics During Mitosis." Award #9415591. Principal Investigator. Total direct costs: \$13,500. 1995-1998.
12. National Institutes of Health. "Pathobiology of the Nuclear Envelope in Cancer" Grant #RO1-CA66974. Principal Investigator. Total direct costs: ~\$720,000. 1996-2000.
13. March of Dimes Birth Defects Foundation. "The Human Chromodomain Protein Multigene Family" Grant #1-FY96-0668/#1-FY97-0616. Principal Investigator. Total direct costs: \$85,670. 1996-1998.
14. American Liver Foundation. "Postdoctoral Research Fellowship: Qian Ye." Preceptor. Total direct costs: \$7,500. 1996-1997.
15. The Blowitz-Ridegway Foundation. "Interactions Between Hepatitis C Virus and Liver Cell Proteins." Principal Investigator. Total direct costs: \$71,169. 1996-1998.
16. National Institutes of Health. "Shared Equipment Grant Confocal Microscope." Grant #1S10-RR10506. Investigator on shared equipment grant to purchase confocal microscope for Department of Anatomy and Cell Biology, Columbia University. 1997.
17. Irma T. Hirschl Trust. "Irma T. Hirschl Career Scientist Award - Nuclear Envelope Disassembly During Cell Division." Total direct costs: \$100,000. 1997-2001.
18. American Liver Foundation. "Postdoctoral Research Fellowship: Paul Mustacchia." Preceptor. Total direct costs: \$7,500. 1997-1998.
19. Muscular Dystrophy Association. "Functions of the Emery-Dreifuss Muscular Dystrophy Protein." Principal Investigator. Total direct costs: \$164,918. 1998-2000.
20. American Liver Foundation. "Student Research Fellowship: Arash Pezhman." Preceptor. Total direct costs: \$2,500. 1998.
21. American Liver Foundation. "Hepatology Seed Grant: Nuclear Envelope Protein Paralogues as Autoantigens in Primary Biliary Cirrhosis." Total direct costs: \$90,910. 1998-2000.
22. Crohn's and Colitis Foundation of America. "Complementary DNA Cloning of the 'ANCA Autoantigen' in Inflammatory Bowel Disease." Total direct costs: \$240,000. 1998-2001.
23. American Digestive Health Foundation. "Student Research Fellowship Award: Arash Pezhman." Preceptor. Total direct costs: \$2,500. 1999.
24. American Heart Association. "Student Scholarship in Cardiovascular Disease & Stroke: Arash Pezhman." Preceptor. Total direct costs: \$2,500. 2000.
25. National Institutes of Health. "Epidemiology of Primary Biliary Cirrhosis." Grant #RO1-

- DK56839. Co-investigator (Principal Investigator M. Eric Gershwin). Total direct costs of subcontract: \$91,533. 2000-2005.
26. Muscular Dystrophy Association. "Nuclear Lamins and Emery-Dreifuss Muscular Dystrophy." Principal Investigator. Total direct costs: \$237,326. 2001-2003.
 27. Human Frontiers Science Program. "Nuclear Envelope and Muscle Diseases." Co-investigator. Total direct costs: \$170,454. 2001-2004.
 28. American Diabetes Association. "Function of the Lamin A/C Ig-fold Mutated in Partial Lipodystrophy." Principal Investigator. Total direct costs: \$254,403. 2002-2005.
 29. FSH Society, Inc. "FSH Society Marjorie Bronfman Fellowship Grant: Cecilia Östlund." Grant #FSHS-MB-008. Preceptor. Total direct costs. \$60,000. 2003-2004.
 30. National Institutes of Health. "Lamin A in Adipocyte Differentiation and Survival." Grant #R21-DK062351. Principal Investigator. Total direct costs: \$200,000. 2003-2006.
 31. National Institutes of Health. "Pathogenesis of Emery-Dreifuss Muscular Dystrophy." Grant #R01-AR048997. Principal Investigator. Total direct costs: ~\$1,055,000. 2003-2008.
 32. National Institutes of Health. "DUX4 and Facioscapulohumeral Muscular Dystrophy." Grant #R21-NS046342. Principal Investigator. Total direct costs: ~\$220,000. 2003-2006.
 33. Muscular Dystrophy Association. "Abnormal Smad2/3-mediated Signal Transduction in Nuclear Envelopathies." Grant #MDA3711. Principal Investigator. Total direct costs: \$300,253. 2004-2006.
 34. Fondation Recherche Médicale (France). "Fellowship: Antoine Muchir." Preceptor. Total direct costs: ~\$32,000. 2004.
 35. Muscular Dystrophy Association. "Neuromuscular Disease Research Development Grant: Cecilia Östlund." Grant #MDA3859. Mentor. Total direct costs: \$122,727. 2004-2007.
 36. Association Française contre les Myopathies (France). "Fellowship: Antoine Muchir." Grant #2005.0476. Preceptor. Total direct costs: ~\$21,800. 2005-2006.
 37. Deutsche Forschungsgemeinschaft. "Research Scholarship: Angelika Lütcke." Preceptor. Total direct costs: ~\$79,200. 2005-2007.
 38. National Institutes of Health. "Lamin A Mutation and Hutchinson-Gilford Progeria." Grant #R01-AG025240. Principal Investigator. Total direct costs: ~\$492,000. 2006-2009.
 39. Versimmune, Inc. "Research Contract." Co-investigator. Total direct costs of subcontract: \$47,604. 2006-2007.
 40. Muscular Dystrophy Association. "MAP Kinase Inhibition to Treat Emery-Dreifuss Muscular Dystrophy." Grant #MDA4287. Principal Investigator. Total direct costs: \$293,303. 2007-2009.
 41. National Institutes of Health. "Nucleocytoplasmic Interactions and Dynamics in Emery-Dreifuss Muscular Dystrophy." Grant #R01-NS059352. Principal Investigator. Total direct costs: \$1,093,750. 2007-2012.
 42. The Bachmann-Strauss Dystonia and Parkinson Foundation. "High Throughput Small Molecule Screen to Identify TorsinA Activating Compounds." Principal Investigator. Total direct costs: \$50,000. 2009.
 43. National Institutes of Health. "Pathogenesis of Emery-Dreifuss Muscular Dystrophy." Grant #R01-AR048997 (competing renewal). Principal Investigator. Total direct costs: ~\$1,125,000. 2009-2014.
 44. National Institutes of Health. "Nucleocytoplasmic Interactions and Dynamics in Emery-Dreifuss Muscular Dystrophy (Supplement)." Grant #R01-NS059352-03S1. Principal Investigator. Total direct costs: \$124,000. 2009-2011.
 45. Howard Hughes Medical Institute Med into Grad Institutional Initiative 2009. "Training Program in Molecular Basis of Health and Disease." Program Co-director (Program Director Ronald K. Liem). Total direct costs: \$700,000. 2010-2014.
 46. National Institutes of Health. "Identification of compounds to treat Charcot-Marie-Tooth type 2E neuropathy." Grant #1RC1NS068131. Co-investigator (Principal Investigator Ronald K. Liem). Total direct costs: \$553,260. 2009-2011.
 47. National Institutes of Health. "Ruth L. Kirschstein National Research Service Award

- Individual Fellowship: Jason C. Choi.” Grant #1F32-HL094037. Sponsor. Total direct costs: \$155,118. 2010-2012.
48. New York City Partnership Foundation, Inc. “Bioaccelerate NYC Prize - MAP kinase signaling inhibitors to treat cardiomyopathy.” Principal Investigator. Total direct costs: \$200,000. 2010-2011.
 49. National Institutes of Health. “Pathogenesis of Emery-Dreifuss Muscular Dystrophy (Administrative Supplement Providing Summer Research Experiences for Students and Science Educators).” Grant #R01-AR048997-06A2S1. Principal Investigator. Total direct costs: \$6,191. 2010.
 50. Muscular Dystrophy Association. “Treatment of Cardiomyopathy in Emery-Dreifuss Muscular Dystrophy.” Grant #MDA172222. Principal Investigator. Total direct costs: \$282,630. 2010-2013.
 51. Muscular Dystrophy Association. “Neuromuscular Disease Research Development Grant: Ji-Yeon Shin.” Grant #MDA171880. Mentor. Total direct costs: \$163,635. 2010-2013.
 52. National Institutes of Health. “Pathogenesis of Emery-Dreifuss Muscular Dystrophy (Research Supplement to Promote Diversity in Health-Related Research).” Grant #R01-AR048997-07S2. Principal Investigator. Total direct costs: \$56,000. 2010-2011.
 53. National Institutes of Health. “The Nucleocytokeleton in Progeria and Aging.” Grant #R01-HD070713. Co-principal Investigator (MPI Grant with Gregg G. Gundersen). Total direct costs: \$1,062,500. 2011-2016.
 54. Los Angeles Thoracic and Cardiovascular Foundation. “Preclinical Development of Selumetinib for Cardiomyopathy Caused by Lamin A/C Gene Mutations.” Principal Investigator. Total direct costs: \$97,859. 2012-2013.
 55. National Institutes of Health. “Pathway to Independence Award: Jason C. Choi.” Grant #1 K99-HL118163. Sponsor. Total direct costs: \$249,950. 2013-2015.
 56. Los Angeles Thoracic and Cardiovascular Foundation. “Preclinical Development of MEK Inhibitor for Cardiomyopathy Caused by Lamin A/C Gene Mutations.” Principal Investigator. Total direct costs: \$200,000. 2013-2015.
 57. National Institutes of Health. “Preclinical Development of Novel MEK1/2 Inhibitors to Treat Inherited Cardiomyopathy.” Grant #R41-TR001008. Co-investigator (Principal Investigator Uday Khire). Total direct costs of subcontract: \$31,232. 2013-2014.
 58. Muscular Dystrophy Association. “Emerin-LAP1 Interaction and X-linked Emery-Dreifuss Muscular Dystrophy.” Grant #MDA294537. Principal Investigator. Total direct costs: \$230,727. 2014-2017.
 59. National Institutes of Health. “Nucleocytoplasmic Interactions and Dynamics in Emery-Dreifuss Muscular Dystrophy.” Grant #R56-NS059352. Co-principal Investigator (MPI Grant with Gregg G. Gundersen). Total direct costs: \$350,000. 2014-2015.
 60. National Institutes of Health. “Pathogenesis of Emery-Dreifuss Muscular Dystrophy.” Grant #R01-AR048997 (competing renewal). Principal Investigator. Total direct costs: \$1,100,000. 2015-2020.
 61. National Institutes of Health. “Nuclear Movement LINC Complex and Emery-Dreifuss Muscular Dystrophy.” Grant #R01-AR068636. Co-principal Investigator (MPI Grant with Gregg G. Gundersen). Total direct costs: \$1,744,136. 2015-2020.
 62. Los Angeles Thoracic and Cardiovascular Foundation. “Emery-Dreifuss Muscular Dystrophy Registry and Database.” Principal Investigator. Total direct costs: \$ 26,656. 2016-2021.
 63. National Institutes of Health. “Pathogenic Role of Selected Cardiac Myocyte- and Fibroblast-specific Epigenetic Changes in Laminopathies.” Grant #R01-HL132401. Co-investigator (Principal Investigator Ali J. Marian). Total direct costs of subcontract: \$199,992. 2016-2020.

Sponsored Clinical Trials:

1. "Step Dose Interferon Alpha-2b in the Treatment of Chronic Hepatitis C." Principal Investigator. Supported by Integrated Therapeutics Group, Inc. Direct costs: \$10,000. 1995-1997.
2. "Ribavirin Plus Interferon Alpha-2b in the Treatment of Chronic Hepatitis C." Principal Investigator and Sponsor FDA Investigational New Drug Application (IND) #51,560. Supported by Integrated Therapeutics Group, Inc. Direct costs: ~\$75,000. 1997-1999.
3. "Intron-A + Ribavirin for the Treatment of Patients with Chronic Hepatitis C Not Previously Treated with Interferon." Sub-investigator. Sponsored by Schering-Plough, Inc., Supported by Integrated Therapeutics Group, Inc. Direct costs: ~\$15,000. 1997-1999.

Departmental and University Committees:

1. Committee on Differentiation and Development, Mount Sinai School of Medicine, 1992.
2. Committee on Higher Degrees, Department of Anatomy and Cell Biology, Columbia University, 1996-2004.
3. Committee on Website Development, Department of Medicine, Columbia University, 1998-2000.
4. Subcommittee on Genomics, College of Physicians and Surgeons Curricular Affairs, Columbia University, 1998-2000.
5. Committee on Human Investigation, Department of Medicine, Columbia University, 1998-2000.
6. Resident Selection Committee, Department of Medicine, Columbia University, 2000-2004.
7. Division of Digestive and Liver Diseases Postgraduate Training and Education Committee, Department of Medicine, Columbia University, 2001-2002.
8. Promotions and Tenure Committee, Department of Pathology and Cell Biology, Columbia University, 2001-present.
9. Fourth Year Tenure Review Committee José Luchsinger, Department of Medicine, Columbia University, 2005.
10. Columbia University Senate (elected 2005, re-elected 2007, re-elected 2009, re-elected 2011, re-elected 2013, re-elected 2015, re-elected 2017; Senate Committee on External Relations and Research Policy 2005-2019 [Co-chair 2013-2014, Chair 2014-2109]; Senate Budget Review Committee 2016-2017), 2005-2019.
11. Columbia University MD/PhD Program Advisory Committee, 2007-2009.
12. Columbia University Internal Selection Committee for Burroughs Wellcome Fund 2009 Investigators in the Pathogenesis of Infectious Disease Program, 2008.
13. Department of Medicine "Post Doc Grand Rounds" Reviewer, Columbia University, 2008.
14. Charles H. Revson Foundation Senior Fellows in Biomedical Science Program Columbia University Selection Committee, 2009.
15. Department of Medicine "Grand Rounds for Post-Doctoral Fellows and Scientists" Reviewer, Columbia University, 2009.
16. Charles H. Revson Foundation Senior Fellows in Biomedical Science Program Columbia University Selection Committee, 2010.
17. Department of Medicine "Grand Rounds for Post-Doctoral Fellows and Scientists" Reviewer, Columbia University, 2010.
18. Columbia University Internal Selection Committee for AXA Research Fund Post-Doctoral Fellowships, 2011.
19. Ad Hoc Conflict of Interest Review Committee, Columbia University Senate, 2011.
20. Chairman, Ad Hoc Committee on Promotion of Robert L. Fine, Department of Medicine, Columbia University, 2011-2013.
21. Charles H. Revson Foundation Senior Fellows in Biomedical Science Program Columbia University Selection Committee, 2011.
22. Executive Committee, Department of Medicine, Columbia University, 2011-present.
23. 2012 Doris Duke Clinical Scientist Development Award Columbia University Selection

- Committee, 2011.
24. Member, Ad Hoc Committee on Promotion of Elizabeth W. Mayer, Department of Medicine, Columbia University, 2012.
 25. Member, Ad Hoc Committee on Promotion of William Whang, Department of Medicine, Columbia University, 2013.
 26. Charles H. Revson Foundation Senior Fellows in Biomedical Science Program Columbia University Selection Committee, 2013.
 27. Fourth Year Tenure Review Committee P. Christian Schulze, Department of Medicine, Columbia University, 2013.
 29. Member, Ad Hoc Committee on Promotion of Ulrich Jorde, Department of Medicine, Columbia University, 2013.
 30. Charles H. Revson Foundation Senior Fellows in Biomedical Science Program Columbia University Selection Committee, 2014.
 31. Department of Medicine Young Faculty Mentorship Program, Mentor for Vivek Iyer, Columbia University, 2014.
 32. Chairman, Ad Hoc Committee on Promotion of Emmanuel Zorn, Department of Medicine, Columbia University, 2014.
 23. Member, Ad Hoc Committee on Promotion of Steven O. Marx, Department of Medicine, Columbia University, 2014.
 24. Chairman, Ad Hoc Committee on Promotion of Richard D. Carvajal, Department of Medicine, Columbia University, 2015.
 25. Member, Ad Hoc Committee on Promotion of Lewis J. Rubin, Department of Medicine, Columbia University, 2015.
 26. Louis V. Gerstner Jr. Scholar Program Columbia University Selection Committee, 2016.
 27. Basic Science Recruitment Search Committee, Department of Pathology and Cell Biology, Columbia University, 2016-2018.
 28. Department of Medicine Young Faculty Mentorship Program Basic & Translational Research, Mentor for Jining Lü, Columbia University, 2016.
 29. Member, Ad Hoc Committee on Promotion of Yong-Guang Yang, Department of Medicine, Columbia University, 2016.
 30. Louis V. Gerstner Jr. Scholar Program Columbia University Selection Committee, 2017.
 31. Department of Medicine Young Faculty Mentorship Program Basic & Translational Research, Mentor for Arnold Han, Columbia University, 2017.
 32. Chairman, Ad Hoc Committee on Promotion of Anthony W. Ferrante Jr, Department of Medicine, Columbia University, 2017.

Teaching Experience and Responsibilities:

Courses:

1. Advanced Molecular Biology, Mount Sinai School of Medicine, New York, NY, 1991.
2. Cell and Developmental Biology, Mount Sinai School of Medicine, New York, NY, 1993-1994.
3. Advanced Cell Biology, Mount Sinai School of Medicine, New York, NY, 1993.
4. Cell Membranes and Organelles, Columbia University, New York, NY, 1994-2008.
5. Pathophysiology for Medical Students, Columbia University, New York, NY, 1995-2010.
6. Graduate Student Journal Club in Cell Biology, Columbia University, New York, NY, 1996.
7. Advanced Pathophysiology for Fourth Year Medical Students, Columbia University, New York, NY, 1997-1998.
8. Graduate Student Journal Club in Cell Biology, Columbia University, New York, NY, 1999 and 2004.
9. Science Basic to the Practice of Medicine and Dentistry, Columbia University, New York, NY, 1999-2008.
10. Biochemistry and Molecular Biology of Eukaryotes, Columbia University, New York, NY, 2000-2008.

11. Biochemistry, Cell and Molecular Biology II (replaced Cell Membranes and Organelles and Biochemistry and Molecular Biology of Eukaryotes), Columbia University, New York, NY, 2009-present.
12. Molecular Mechanisms and Disease (replaced parts of Science Basic to the Practice of Medicine and Dentistry), Columbia University, New York, NY, 2009-present.
13. The Body: In Health and Disease II (replaced Pathophysiology for Medical Students), Columbia University, New York, NY, 2010-present.
14. Mechanisms of Human Disease (Course Co-director, Section Director and Lecturer), Columbia University, New York, NY, 2011-present.
15. Molecular Mechanisms and Disease Team-based Learning Supervisor, Columbia University, New York, NY, 2017-present

Students/Fellows Trained in Laboratory:

1. Bruno Soullam, Graduate Student, Université Paris VI, 1991-1995.
2. Howard P. Reynolds, Anesthesiology Fellow, Mount Sinai School of Medicine, 1991-1992.
3. Qian Ye, Molecular Biology Ph. D. Student, City University of New York, 1992-1996.
4. Richard E. Nickowitz, Gastroenterology Fellow, Mount Sinai School of Medicine, 1992-1993.
5. Charles M. Noyer, Gastroenterology Fellow, Mount Sinai School of Medicine, 1993-1994.
6. Ekkehard Schuler, Medicine Fellow, University of Regensburg, Germany, 1992-1993.
7. Flora Tartakovsky, Westinghouse Science Talent Search Finalist, Bronx High School of Science, 1992-1994; College Student, Harvard University, 1995.
8. Anthony Carter, Medical Student, Mount Sinai School of Medicine, 1993-1994.
9. David Della Rocca, Post-baccalaureate Student, Columbia University, 1994-1995.
10. Alex Park, College Student, Columbia University, 1995-1996.
11. Racine M. Barton, Ph. D. Student, Columbia University, 1995-2000; Postdoctoral Fellow Columbia University, 2001.
12. Qian Ye, Postdoctoral Fellow, Columbia University, 1996-1997.
13. Naoto Mamiya, Postdoctoral Fellow, Columbia University, 1996-1998.
14. Elizabeth De La Riva, College Student, Barnard College, 1996-1998.
15. Arash Pezhman, Post-college Premedical Program, Columbia University, 1996-2000.
16. Cecilia Östlund, Visiting Graduate Student, Stockholm University, 1996-1998; Ph. D. Student, Columbia University, 1998-2002; Postdoctoral Fellow Columbia University, 2002-2006.
17. Paul Mustacchia, Postdoctoral Fellow, Columbia University, 1997-1999.
18. Lars Holmer, Postdoctoral Fellow, Columbia University, 1997-2000.
19. Kyu-Kye Hwang, Ph. D. Student, Columbia University, 1997-2002.
20. Birgit Terjung, Postdoctoral Fellow, Columbia University, 1998-2000.
21. Amy Rosenfeld, Ph. D. Student, Columbia University, 1999-2001.
22. Revekka Boguslavsky, Ph. D. Student, Columbia University, 1999-2005.
23. Wei Wu, Visiting Student, Fourth Military Medical University, Xi'an, China, 2000-2003; M. S. Student, Columbia University, 2003-2004; Postdoctoral Fellow, Columbia University, 2004-2008.
24. Antoine Muchir, Postdoctoral Fellow, Columbia University, 2003-2008.
25. Yuexia Wang, Postdoctoral Fellow, Columbia University, 2004-2009.
26. Angelika Lüdtke, Postdoctoral Fellow, Columbia University, 2005-2008.
27. Ann-Mari Håkelién, Postdoctoral Fellow, Columbia University, 2007.
28. Jason Choi, Postdoctoral Fellow, Columbia University, 2007- 2013.
29. Amanda Colon, Visiting M. S. Student, Thomas Jefferson University, Philadelphia, PA, 2008-2009.
30. Ji-Yeon Shin, Postdoctoral Fellow, Columbia University, 2009-2012.
31. Sarah Reilly, Columbia University Postbaccalaureate Premedical Program, 2010; M. P. H. Student, Columbia University, 2010-2011.
32. Ivan Méndez-López, Postdoctoral Fellow, Columbia University, 2010-2012.

33. Caroline LeDour, Postdoctoral Fellow, Columbia University, 2011-2014.
34. Youngjin Kim, Postbaccalaureate, Columbia University, 2011-2012.
35. Leana Shugol, Postbaccalaureate, Columbia University, 2014-2015.

Thesis Sponsorships:

1. Bruno Soullam, D. E. A., Université Paris 6, 1991-1995.
2. Qian Ye, Ph. D., Molecular Biology, City University of New York, 1992-1996.
3. Racine M. Barton, Ph. D., Anatomy and Cell Biology, Columbia University, 1995-2000.
4. Kyu-Kye Hwang, Ph. D., Anatomy and Cell Biology, Columbia University, 1997-2002.
5. Cecilia Öslund, Ph. D., Anatomy and Cell Biology, Columbia University, 1998-2002.
6. Revekka L. Boguslavsky, Ph. D., Anatomy and Cell Biology, Columbia University, 1999-2005.
7. Jee-Hyeon Song, M. A., Biotechnology M. A. Program, Columbia University, 2004.

Thesis Examination Committees:

1. Wei Hsu, Ph. D., Molecular Biology, City University of New York, 1993.
2. Nancy Wang, Ph. D., Cell Biology, State University of New York-Downstate (Outside Examiner), 1995.
3. Dongming Sun, Ph. D., Pathology, Columbia University, 1996.
4. Sucharita Mistry, Ph. D., Cell Biology, State University of New York-Downstate (Outside Examiner), 1997.
5. Chung-Liang Ho, Ph. D., Pathology, Columbia University, 1997.
6. Viviana Simon, Ph. D., Anatomy and Cell Biology, Columbia University, 1997.
7. Hoang-Lan Nguyen, Ph. D., Pathology, Columbia University, 1998.
8. Henrik Söderqvist, Ph. D., Faculty of Science, Stockholm University (Opponent), 1998.
9. Conrad L. Leung, Ph. D., Biochemistry and Molecular Biophysics, Columbia University, 1998.
10. Hong Liao, Ph. D., Anatomy and Cell Biology, Columbia University, 1999.
11. Wei Wang, Ph. D., Microbiology, State University of New York-Downstate (Outside Examiner), 1999.
12. Tiffani Cook, Ph. D., Integrated Program in Cellular, Molecular and Biophysical Studies, Columbia University, 1999.
13. Dee N. Dao, Ph. D., Anatomy and Cell Biology, Columbia University, 2001.
14. Gilad Ofek, Ph. D., Integrated Program in Cellular, Molecular and Biophysical Studies, Columbia University, 2001.
15. Dmitri Gorunov, Ph. D., Integrated Program in Cellular, Molecular and Biophysical Studies, Columbia University (Chairman), 2002.
16. Sophie Zinn-Justin, Diplôme de l'Habilitation à Diriger des Recherches de Dr. Sophie Zinn-Justin, Université de Paris Sud XI (Rapporteur), 2003.
17. Joël Beaudouin, Ph. D., Interface Physique-Biologie, Université Paris 7 (Rapporteur), 2003.
18. Qinwei Wang, Ph. D., Microbiology, Columbia University, 2003.
19. Matthew J. Evans, Ph. D., Integrated Program in Cellular, Molecular and Biophysical Studies, Columbia University, 2003.
20. Dedra A. Cutler, Ph. D., Genetics, George Washington University (Outside Examiner), 2004.
21. Kammy L. Fehrenbacher, Ph. D., Anatomy and Cell Biology, Columbia University, 2004.
22. Amy Rosenfeld, Ph. D., Microbiology, Columbia University, 2005.
23. Gillis Lockwood Heller, M. P. H., Clinical Trials Research Methodology, University of Hong Kong (External Examiner), 2006.
24. Nupur D. Kittur, Ph. D., Graduate Division of Medical Sciences, Albert Einstein College of Medicine of Yeshiva University (Outside Examiner), 2006.
25. Rikke Lise Steen Folstad, Ph. D., Biochemistry, University of Oslo (First Opponent), 2007.
26. Theresa C. Swayne, Ph. D. Pathology and Cell Biology, Columbia University (Chairman), 2007.
27. Frank S. K. Appah, Jr., Ph. D., Integrated Program in Cellular, Molecular and Biophysical

- Studies, Columbia University, 2008.
28. Charlotta Buch, Ph. D., Biosciences and Nutrition, Karolinska Institutet (Opponent), 2009.
 29. Connie E. Kim, Ph. D., Integrated Program in Cellular, Molecular and Biophysical Studies, Columbia University (Chairman), 2009.
 30. Lauren M. Tanabe, Ph. D., Pharmacology, Columbia University, 2010.
 31. Mario Benavides, Ph. D., Program in Biology, Hunter College of the City University of New York (Outside Examiner), 2013.
 32. Ruijun Zhu, Ph. D., Integrated Program in Cellular, Molecular and Biophysical Studies, Columbia University (Chairman), 2017.
 33. Enrique J. Garcia, Ph. D., Integrated Program in Cellular, Molecular and Biophysical Studies, Columbia University, date pending.

Clinical Teaching:

1. Resident Supervisor for medical students, Medicine Wards, The New York Hospital, Cornell University Medical College, New York, NY, 1986-1987.
2. Preceptor for students, Internal Medicine Clinic, The New York Hospital-Cornell Medical Center, Cornell University Medical College, New York, NY 1987-1990.
3. Attending, Liver Consult Service, The Mount Sinai Hospital, Mount Sinai School of Medicine, New York, NY, 1991-1994.
4. Attending, Medicine Wards, The Mount Sinai Hospital, Mount Sinai School of Medicine, New York, NY, 1991-1994.
5. Resident Report and Medical Housestaff Conferences, The Mount Sinai Hospital, Mount Sinai School of Medicine, New York, NY, 1991-1994.
6. Preceptor, Physical Diagnosis Course, Mount Sinai School of Medicine, New York, NY, 1992.
7. Supervision of Gastroenterology fellows, Liver Clinic, New York-Presbyterian Hospital Columbia University Center, New York, NY, 1995-present.
8. Attending, Medicine Wards, New York-Presbyterian Hospital Columbia University Medical Center, New York, NY, 1995-present.
9. Medicine Chief of Service Rounds, Harlem Hospital Center, New York, NY, 1996-present.
10. Medical Housestaff Chief of Service Rounds, New York-Presbyterian Hospital Columbia University Medical Center, New York, NY, 1997-present.
11. Discussant, Medical Housestaff Clinical-Pathological Conference, New York-Presbyterian Hospital Columbia University Medical Center, New York, NY, 2004-present.

Training Program Leadership:

1. Program Co-director, Howard Hughes Medical Institute Med into Grad Institutional Initiative Training Program in Molecular Basis of Health and Disease, Columbia University, 2010-2014.
2. Associate Program Director, NIH (5T32DK083256) Multidisciplinary Training in Translational Gastrointestinal and Liver Research, Columbia University, 2014-2019.
3. Program Co-director, Med into Grad Program, Columbia University, 2014-present.

Other Professional Activities:

Editorial:

1. Editorial Board, *Hepatology*, 1994-2006.
2. Editorial Board, *Frontiers in Bioscience*, 1995-2008.
3. Editorial Board, *World Journal of Gastroenterology*, 1998-2003.
4. Co-Editor-in-Chief, *World Journal of Gastroenterology*, 2001-2003.
5. Ad Hoc Reviewer, *American Journal of Gastroenterology*, *American Journal of Medical Genetics Part C*, *American Journal of Pathology*, *American Journal of the Medical Sciences*, *Annals of Neurology*, *Autoimmunity Reviews*, *Biochemical Journal*, *Biochemical Pharmacology*, *Biochemistry*, *Biochimica et Biophysica Acta*, *Biochimie*,

Biology Open, BMC Cell Biology, BMC Medical Genetics, BMJ Clinical Evidence Point of Care, Brain, Cell, Cell Death and Differentiation, Cell Stem Cell, Cellular and Molecular Bioengineering, Cellular and Molecular Gastroenterology and Hepatology, Cellular and Molecular Life Sciences, Chromosoma, Circulation, Clinical and Experimental Immunology, Clinical Chemistry, Clinical Gastroenterology and Hepatology, Consultant, Current Biology, Current Molecular Pharmacology, Development, Developmental Cell, Differentiation, Disease Management and Health Outcomes, Disease Models and Mechanisms, Drug Benefit Trends, Drug Safety, EMBO Journal, EMBO Reports, European Journal of Biochemistry, European Journal of Cell Biology, European Journal of Heart Failure, European Journal of Human Genetics, Experimental Biology and Medicine, Experimental Cell Research, FASEB Journal, FEBS Letters, Future Lipidology, Gastroenterology, Gene, Genome Biology, Genomics, Hepatology, Human Molecular Genetics, Human Mutation, Journal of Autoimmunity, Journal of Biological Chemistry, Journal of Biosciences, Journal of Cell Biology, Journal of Cell Science, Journal of Cellular and Molecular Medicine, Journal of Cellular Biochemistry, Journal of Cellular Physiology, Journal of Clinical Endocrinology and Metabolism, Journal of Clinical Gastroenterology, Journal of Clinical Investigation, Journal of Hepatology, Journal of Lipid Research, Journal of Medical Genetics, Journal of Molecular Medicine, Journal of Neurology Neurosurgery and Psychiatry, Journal of Rheumatology, Journal of Virology, Journal of Visualized Experiments, Kidney International, Liver International, Molecular and Cellular Biology, Molecular Biology of the Cell, Molecular and Cellular Proteomics, Molecular Cell, Mount Sinai Journal of Medicine, Nature, Nature Communications, Nature Genetics, Nature Medicine, Nature Reviews Genetics, Nature Reviews Molecular Cell Biology, Neuromuscular Disorders, New England Journal of Medicine, Nucleus, Oncotarget, PLoS Biology, PLoS ONE, Proceedings of the National Academy of Sciences of the United States of America, Rare Diseases, Science, Translational Neurodegeneration, Trends in Cardiovascular Medicine, Trends in Cell Biology, Trends in Genetics, Trends in Molecular Medicine, Tumor Biology, World Journal of Gastroenterology.

6. Editor/Webmaster, *Diseases of the Liver* (World Wide Web).
7. Editorial Board, *BMC Cell Biology*, 2002-2009.
8. Board of Reviewing Editors, *Molecular Biology of the Cell*, 2006-present.
9. Editorial Board, *The Open Journal of Gastroenterology*, 2007-2010.
10. Associate Editor, *BMC Cell Biology*, 2008-2010.
11. Editorial Board, *Nucleus*, 2009-present.
12. Section Editor (Nuclear Function and Transport), *BMC Cell Biology*, 2010-2017.
13. Editorial Board, *Journal of Autoimmunity*, 2011-present.
14. Editorial Board, *Gastroenterology*, 2011-present.
15. Editorial Board, *World Journal of Clinical Cases*, 2012-2016.
16. Editorial Board, *Physiological Reports*, 2013-2016.
17. Editorial Board, *Experimental Biology and Medicine*, 2017-2020.

Consultative:

1. Ad Hoc Grant Reviewer, United States-Israel Binational Science Foundation.
2. External Grant Referee, Medical Research Council of Canada.
3. External Grant Referee, Natural Sciences and Engineering Research Council of Canada.
4. Ad Hoc Grant Reviewer, The Israel Science Foundation.
5. Computer and Technology Subcommittee, American Gastroenterological Association, 1995-1997.
6. Meeting Abstract Selection Committee, American Association for the Study of Liver Diseases, 1995-1996.
7. Medical/Scientific Advisory Board, American Liver Foundation Greater New York Chapter, 1995-present.

8. Ad Hoc Grant Reviewer, Muscular Dystrophy Campaign (United Kingdom).
9. Ad Hoc Grant Reviewer, Austrian Science Fund.
10. Ad Hoc Grant Reviewer, National Science Foundation.
11. Ad Hoc Grant Reviewer, American Cancer Society.
12. External Grant Reviewer, Kuwait Foundation for the Advancement of Science.
13. Member, National Institutes of Health Center for Scientific Review Special Emphasis Panel ZRG1 LBPA, Dec, 1998.
14. Medical Advisory Committee, Muscular Dystrophy Association, 1999-2005.
15. Ad Hoc Grant Reviewer, The Wellcome Trust (United Kingdom).
16. Member, National Institutes of Health Center for Scientific Review Special Emphasis Panel ZRG1 CDF3 01 S, Dec., 2000.
17. Ad Hoc Grant Reviewer, Biotechnology and Biological Sciences Research Council (United Kingdom).
18. Member, Scientific Advisory Board and Board of Directors, Vironics, Inc., 2000-2010.
19. Member, Cell Structure and Metastasis Peer Review Committee, American Cancer Society, 2002-2005.
20. Ad Hoc Grant Reviewer, Medical Investigation of Neurodevelopmental Disorders Institute Research Program (University of California Davis, CA).
21. Ad Hoc Grant Reviewer, Armenian National Science and Education Fund.
22. Ad Hoc Grant Reviewer, Association Française contre les Myopathies (France).
23. Ad Hoc Grant Reviewer, The Croucher Foundation (Hong Kong).
24. Ad Hoc Consultant on Biomedical Technologies, Warburg Pincus.
25. Ad Hoc Grant Reviewer, Biomedical Research Council (Singapore).
26. Web Site Committee, American Association for the Study of Liver Diseases, 2003-2005.
27. Committee on Publications and Informatics, American Gastroenterological Association, 2003-2006.
28. Ad Hoc Grant Reviewer, Human Frontiers Science Program.
29. Ad Hoc Grant Reviewer, The Health Research Board (Ireland).
30. Ad Hoc Member, National Institutes of Health Pathology A Study Section, Feb., 2003.
31. Ad Hoc Grant Reviewer, Israeli Ministry of Science, Culture and Sport, Life Sciences Division.
32. Ad Hoc Grant Reviewer, European Science Foundation.
33. Member, Site Visit Review Panel, National Cancer Institute Laboratory of Cancer and Developmental Biology, 2004.
34. Member, National Institutes of Health Center for Scientific Review Special Emphasis Panel ZRG1 CVS-E (03), Jul., 2004.
35. Medical and Scientific Advisory Council, Dystonia Medical Research Foundation, 2004-2008.
36. Ad Hoc Grant Reviewer, Uniformed Services University of the Health Sciences Peer Review Program, 2004.
37. Scientific and Medical Advisory Panel, Melorheostosis Association, 2004-present.
38. Member, National Institutes of Health Special Emphasis Panel ZRG1 NDT, Feb., 2005.
38. Member, National Institutes of Health Special Emphasis Panel ZRG1 MDCN-H (02), Apr., 2005.
40. Temporary Member, National Institutes of Health Hepatobiliary Pathology Study Section, Jun., 2005.
41. Member, National Institutes of Health Mechanisms of Muscular Dystrophy Topic Group, 2005.
42. Ad Hoc Review Committee, Muscular Dystrophy Association, 2005-2006.
43. Member, National Institutes of Health Special Emphasis Panel ZRG1 CB-J (02), Oct., 2005.
44. Member, National Institutes of Health Special Emphasis Panel ZDK1 GRB-3 (J3), Dec., 2005.
45. Scientific Advisory Board, Epiphany Biosciences, Inc., 2005-present.
46. Annual Meeting Program Committee, American Society for Cell Biology, 2006.

47. Member, National Institutes of Health Special Review Committee HLBP1 Workgroup 018, Jan., 2006.
48. Ad Hoc Grant Reviewer, Israeli-German Cooperation Program in Cancer Research.
49. Member, National Institutes of Health Special Emphasis Panel ZRG1 CB-G03, May, 2006.
50. Mail Reviewer, National Institutes of Health NDT Study Section, Jun., 2006.
51. Reviewer, National Library of Medicine Genetics Home Reference Website, Jun., 2006.
52. Reviewer, British Medical Journal Group Best Treatments Website.
53. Member, Threshold Pharmaceuticals Lonidamine Toxicology, Metabolism and Hepatotoxicity Advisory Board, 2006.
54. Member, National Institutes of Health Special Emphasis Panel ZDK1 GRB-N (J3), Sep., 2006.
55. Member and Consultant, Korea Healthcare Management, LLC., 2006-2009.
56. Temporary Member, National Institutes of Health NDT Study Section, Feb., 2007.
57. Temporary Member, National Institutes of Health NDT Study Section, Oct., 2007.
58. Scientific Review Panel, Israel Cancer Research Fund, 2008-2010.
59. Founder and Board of Directors, Advanced Medical Genomics, Inc., 2008-2011.
60. Scientific Advisory Committee, Hereditary Neuropathy Foundation, 2008-2013.
61. Independent Trustee, DDK 2008 Dynasty Trust, 2008-2009.
62. Ad Hoc Grant Reviewer, Muscular Dystrophy Association, 2008.
63. Temporary Member, National Institutes of Health NDT Study Section, Jan., 2009.
64. Member, National Institutes of Health Bioengineering, Cell Biology, Imaging Member Conflict Special Emphasis Panel, Feb., 2009.
65. Member, National Institutes of Health ZRG1 F05-K (20) Fellowship - Cell Biology Study Section, Mar., 2009.
66. Member, National Institutes of Health Special Emphasis Panel/Scientific Review Group 2009/05 ZDK1 GRB-S (M1) - Childhood Liver Disease Research and Education Network Consortium, Mar., 2009.
67. Member, Muscular Dystrophy Association 2009 Spring Ad Hoc Grant Review Committee.
68. Member, National Institutes of Health Scientific Review Group 2009/10 ZRG1 CB-N (58) R - Challenge Grants Panel #3, Jun., 2009.
69. Ad Hoc Grant Reviewer, Telethon Italy.
70. Member, National Institutes of Health Special Emphasis Panel/Scientific Review Group 2009/10 ZRG1 BDA-B (10) - Biology of Development and Aging SBIR/STTR, Jul., 2009.
71. Member, National Institutes of Health Small Research Grants Review Group 2010/01 ZAR1 MLB-G (M1) 1, Sep., 2009.
72. Temporary Member, National Institutes of Health Nuclear and Cytoplasmic Structure/Function and Dynamics Study Section, Oct., 2009.
73. Member, National Institutes of Health ZRG1 F05-C (20) Fellowship - Cell Biology Development Study Section, Nov., 2009.
74. Member, Muscular Dystrophy Association 2009 Fall Ad Hoc Grant Review Committee.
75. Board of Directors, Epiphany Biosciences, Inc., 2009-present.
76. Ad Hoc Consultant on Biomedical Technologies, Third Rock Ventures.
77. Member (Associate Chair Feb., 2012 meeting), National Institutes of Health Nuclear and Cytoplasmic Structure/Function and Dynamics Study Section, Jul., 2010-Jun., 2014.
78. Chair, National Institutes of Health Special Emphasis Panel 2010/05 ZNS1 SRB-S (22) - Wellstone Muscular Dystrophy, Mar., 2010.
79. Member, National Institutes of Health Scientific Review Group 2010/05 ZRG1 OBT-H (03) M - Oncology 1 - Basic and Translational Member Conflict - Cancer Biology, Apr., 2010.
80. Ad Hoc Grant Reviewer, Singapore Stem Cell Consortium A*STAR Biomedical Research Council, 2010.
81. Member, Muscular Dystrophy Association 2010 Fall Ad Hoc Grant Review Committee.
82. Basic Research Committee, American Association for the Study of Liver Diseases, 2011-2013.

83. Member, Muscular Dystrophy Association 2011 Spring Translational Research Infrastructure Grant Ad Hoc Review Committee.
84. Consultant on Research and Clinical Development of Small Molecule Therapeutics, Array BioPharma, Inc., 2012.
85. Mail Reviewer, National Institutes of Health Special Emphasis Panel ZTR1 CI-8 (01) - Rare Diseases Clinical Research Consortia (RDCRC) for Rare Disease Clinical Research Network (U54), Mar., 2014.
86. Member, National Institutes of Health Action Plan for the Muscular Dystrophies Mechanisms of Muscular Dystrophy Working Group, 2014.
87. Ad Hoc Grant Reviewer, Research Foundation Flanders (Belgium).
88. Chair, Scientific Advisory Board, AlloMek Therapeutics, LLC., 2015-present.
89. Temporary Member, National Institutes of Health Nuclear and Cytoplasmic Structure/Function and Dynamics Study Section, May, 2015.
90. Member, National Institutes of Health Special Emphasis Panel 2015/08 ZRG1 CB-D (51) R and 2015/08 ZRG1 CB-T (51) R Study of Nuclear Bodies and Compartments, Jul., 2015.
91. Mail Reviewer, National Institutes of Health Neurodifferentiation, Plasticity, Regeneration and Rhythmicity Study Section, Jun., 2016.
92. Mail Reviewer, National Institutes of Health Molecular Neuropharmacology and Signaling Study Section, Jun., 2016.
93. Ad Hoc Reviewer, Elsevier Book Proposals in Genetics and Genomics, 2016.
94. Member, National Institutes of Health 4D Nucleome-Transformative Collaborative Project Award Review, Apr. 2017.
95. Ad Hoc Grant Reviewer, University of Michigan MRC2 Pilot/Feasibility Program, Apr. 2017.
96. Scientific Advisory Board, MNG Laboratories. 2017-present.

Other:

1. Certification of Professional Achievement in Business, Columbia University, 2017.

Publications:

Original, Peer Reviewed Articles:

1. Youmans, S. J., Worman, H. J. and Brodsky, W. A. ATPase activity and ATP-dependent proton translocation in plasma membrane vesicles of turtle bladder epithelial cells. *Biochim. Biophys. Acta* 1983;730:173-177.
2. Worman, H. J. and Field, M. Osmotic water permeability of small intestinal brush-border membranes. *J. Membrane Biol.* 1985;87:233-239.
3. Brasitus, T. A., Dudeja, P. K., Worman, H. J. and Foster, E. S. The lipid fluidity of rat colonic brush-border membrane vesicles modulates Na⁺- H⁺ exchange and osmotic water permeability. *Biochim. Biophys. Acta* 1986;855:16-24.
4. Worman, H. J., Brasitus, T. A., Dudeja, P. K., Fozzard, H. A. and Field, M. Relationship between lipid fluidity and water permeability of bovine tracheal epithelial cell apical membranes. *Biochemistry* 1986;25:1549-1555.
5. Worman, H. J., Lazaridis, I. and Georgatos, S. D. Nuclear lamina heterogeneity in mammalian cells. Differential expression of the major lamins and variations in lamin B phosphorylation. *J. Biol. Chem.* 1988;263:12135-12141.
6. Worman, H. J., Yuan, J., Blobel, G. and Georgatos, S. D. A lamin B receptor in the nuclear envelope. *Proc. Natl. Acad. Sci. USA* 1988;85:8531-8534.
7. Worman, H. J., Evans, C. D. and Blobel, G. The lamin B receptor of the nuclear envelope inner membrane: a polytopic protein with eight potential transmembrane domains. *J. Cell Biol.* 1990;111:1535-1542.
8. Courvalin, J.-C., Lassoued, K., Worman, H. J. and Blobel, G. Identification and characterization of autoantibodies against the nuclear envelope lamin B receptor from patients with primary biliary cirrhosis. *J. Exp. Med.* 1990;172:961-967.

9. Dannenberg, A. J., Worman, H. J. and Scarlata, S. Developmental changes in the amount and functional state of UDP-glucuronosyltransferase. *Biochim. Biophys. Acta* 1992;1116:250-255.
10. Cance, W. G., Chaudhary, N., Worman, H. J., Blobel, G. and Cordon-Cardo, C. Expression of the nuclear lamins in normal and neoplastic human tissues. *J. Exp. Clin. Cancer Res.* 1992;11:233-246.
- 11*. Courvalin, J.-C., Segil, N., Blobel, G. and Worman, H. J. The lamin B receptor of the inner nuclear membrane undergoes mitosis-specific phosphorylation and is a substrate for p34^{cdc2} - type protein kinase. *J. Biol. Chem.* 1992;267:19035-19038.
12. Hytioglou, P., Choi, S. W., Theise, N. D., Chaudhary, N., Worman, H. J. and Thung, S. N. The expression of nuclear lamins in human liver: an immunohistochemical study. *Human Pathol.* 1993;24:169-172.
- 13*. Soullam, B. and Worman, H. J. The amino-terminal domain of the lamin B receptor is a nuclear envelope targeting signal. *J. Cell Biol.* 1993;120:1093-1100.
- 14*. Lin, F. and Worman, H. J. Structural organization of the human gene encoding nuclear lamin A and nuclear lamin C. *J. Biol. Chem.* 1993;268:16321-16326.
- 15*. Nickowitz, R. E. and Worman, H. J. Autoantibodies from patients with primary biliary cirrhosis recognize a restricted region within the cytoplasmic tail of nuclear pore membrane glycoprotein gp210. *J. Exp. Med.* 1993;178:2237-2242.
- 16*. Nickowitz, R. E., Wozniak, R. W., Schaffner, F. and Worman, H. J. Autoantibodies against integral membrane proteins of the nuclear envelope in patients with primary biliary cirrhosis. *Gastroenterology* 1994;106:193-199.
- 17*. Ye, Q. and Worman, H. J. Primary structure analysis and lamin B and DNA binding of human LBR, an integral protein of the nuclear envelope inner membrane. *J. Biol. Chem.* 1994;269:11306-11311.
- 18*. Schuler, E., Lin, F. and Worman, H. J. Characterization of the human gene encoding LBR, an integral protein of the nuclear envelope inner membrane. *J. Biol. Chem.* 1994;269:11312-11317.
- 19*. Tartakovsky, F. and Worman, H. J. Detection of gp210 autoantibodies in primary biliary cirrhosis using a recombinant protein containing the predominant autoepitope. *Hepatology* 1995;21:495-500.
- 20*. Lin, F. and Worman, H. J. Structural organization of the human gene (LMNB1) encoding nuclear lamin B1. *Genomics* 1995;27:230-236.
- 21*. Soullam, B. and Worman, H. J. Signals and structural features involved in integral membrane protein targeting to the inner nuclear membrane. *J. Cell Biol.* 1995;130:15-27.
- 22*. Ye, Q. and Worman, H. J. Protein-protein interactions between human nuclear lamins expressed in yeast. *Exp. Cell Res.* 1995;219:292-298.
- 23*. Lin, F., Noyer, C. M., Ye, Q., Courvalin, J.-C. and Worman, H. J. Autoantibodies from patients with primary biliary cirrhosis recognize a restricted region within the nucleoplasmic domain of inner nuclear membrane protein LBR. *Hepatology* 1996;23:57-61.
24. Wydner, K. L., McNeil, J. A., Lin, F., Worman, H. J. and Lawrence, J. B. Chromosomal assignment of human nuclear envelope protein genes LMNA, LMNB1 and LBR by fluorescence *in situ* hybridization. *Genomics* 1996;32:474-478.
25. Favreau, C., Worman, H. J., Wozniak, R. W., Frappier, T. and Courvalin, J.-C. Cell cycle-dependent phosphorylation of nucleoporins and nuclear pore membrane protein gp210. *Biochemistry* 1996;35:8035-8044.
- 26*. Ye, Q. and Worman, H. J. Interaction between an integral protein of the nuclear envelope inner membrane and human chromodomain proteins homologous to *Drosophila* HP1. *J. Biol. Chem.* 1996;271:14653-14656.

27. Nishio, A., Van de Water, J., Leung, P. S. C., Joplin, R., Neuberger, J. M., Lake, J., Björkland, A., Tötterman, T. H., Peters, M., Worman, H. J., Ansari, A. A., Coppel, R. L. and Gershwin, M. E. Comparative studies of antimitochondrial autoantibodies in sera and bile in primary biliary cirrhosis. *Hepatology* 1997;25:1085-1089.
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29. Callebaut, I., Courvalin, J.-C., Worman, H. J. and Mornon, J.-P. Hydrophobic cluster analysis reveals a third chromodomain in the *Tetrahymena* Pdd1p protein of the chromo superfamily. *Biochem. Biophys. Res. Commun.* 1997;235:103-107.
30. Ellenberg, J., Siggia, E. D., Moreira, J., Smith, C. L., Presley, J. F., Worman, H. J. and Lippincott-Schwartz, J. Nuclear envelope dynamics and reassembly in living cells: targeting of an inner nuclear membrane protein in interphase and mitosis. *J. Cell Biol.* 1997;138:1193-1206.
31. Mattalia, A., Lütting, B., Rosina, F., Leung, P. S. C., Van de Water, J., Bauducci, M., Ciancio, A., Böker, K. H. W., Worman, H., Cooper, R. L., Manns, M., Ansari, A., Rizzetto, M. and Gershwin, M. E. Persistence of autoantibodies against recombinant mitochondrial and nuclear pore proteins after orthotopic liver transplantation for primary biliary cirrhosis. *J. Autoimmun.* 1997;10:491-497.
- 32*. Lin, F. and Worman, H. J. Expression of nuclear lamins in human tissues and cancer cell lines and transcription from the promoters of the lamin A/C and B1 genes. *Exp. Cell Res.* 1997;236:378-384.
33. Luettig, B., Boeker, K. H., Schoessler, W., Will, H., Loges, S., Schmidt, E., Worman, H. J., Gershwin, M. E. and Manns, M. P. The antinuclear autoantibodies Sp100 and gp210 persist after orthotopic liver transplantation in patients with primary biliary cirrhosis. *J. Hepatol.* 1998;28:824-828.
34. Terjung, B., Herzog, V., Worman, H. J., Gestmann, I., Bauer, C., Sauerbruch, T. and Spengler, U. Atypical antineutrophil cytoplasmic antibodies with perinuclear fluorescence in chronic inflammatory bowel diseases and hepatobiliary disorders colocalize with nuclear lamina proteins. *Hepatology* 1998;28:332-340.
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38. Quaranta, S., Shulman, H., Ahmed, A., Shoenfeld, Y., Peter, J., McDonald, G. B., Van de Water, J., Coppel, R., Östlund, C., Worman, H. J., Rizzetto, M., Tsuneyama, K., Nakanuma, Y., Ansari, A., Locatelli, F., Paganin, S., Rosina, F., Manns, M. and Gershwin, M. E. Autoantibodies in human chronic graft-versus-host disease after hematopoietic cell transplantation. *Clin. Immunol.* 1999;91:106-116.
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- 40*. Mamiya, N. and Worman, H. J. Hepatitis C virus core protein binds to a DEAD-box RNA helicase. *J. Biol. Chem.* 1999;274:15751-15756.
41. Pierce, T., Worman, H. J. and Holy, J. Neuronal differentiation of NT2/D1 teratocarcinoma cells is accompanied by a loss of lamin A/C expression and an increase in lamin B1 expression. *Exp. Neurol.* 1999;157:241-250.

42. Minc, E., Allory, Y., Worman, H. J., Courvalin, J.-C. and Buendia, B. Localization and phosphorylation of HP1 proteins during the cell cycle in mammalian cells. *Chromosoma* 1999; 108:220-234.
- 43*. Barton, R. M. and Worman, H. J. Prenylated prelamin A interacts with Narf, a novel nuclear protein. *J. Biol. Chem.* 1999;274:30008-30018.
44. Moss, S. F., Krivosheyev, V., de Souza, A., Chin, K., Gaetz, H. P., Chaudhary, N., Worman, H. J. and Holt, P. R. Decreased and aberrant nuclear lamin expression in gastrointestinal tract neoplasms. *Gut* 1999;45:723-729.
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47. Ma, J., Hwang, K.-K., Worman, H. J., Courvalin, J.-C. and Eissenberg, J. C. Expression and functional analysis of three isoforms of human heterochromatin-associated protein HP1 in *Drosophila*. *Chromosoma* 2001;109:536-544.
48. Parikh-Patel, A., Gold, E. B., Worman, H. J., Krivy, K. E. and Gershwin, M. E. Risk factors for primary biliary cirrhosis in a cohort of patients from the United States. *Hepatology* 2001;33:16-21.
49. Laguri, C., Gilquin, B., Wolff, N., Romi-Lebrun, R., Courchay, K., Callebaut, I., Worman, H. J. and Zinn-Justin, S. Structural characterization of the LEM motif common to three human inner nuclear membrane proteins. *Structure* 2001;9:503-511.
50. Wolff, N., Gilquin, B., Courchay, K., Callebaut, I., Worman, H. J. and Zinn-Justin, S. Structural analysis of emerin, an inner nuclear membrane protein mutated in X-linked Emery-Dreifuss muscular dystrophy. *FEBS Lett.* 2001;501:171-176.
51. Terjung, B., Worman, H. J., Herzog, V., Sauerbruch, T. and Spengler, U. Differentiation of antineutrophil nuclear antibodies in inflammatory bowel and autoimmune liver diseases from antineutrophil cytoplasmic antibodies using immunofluorescence microscopy. *Clin. Exp. Immunol.* 2001;126:37-46.
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- 54*. Wu, W., Lin, F. and Worman, H. J. Intracellular trafficking of MAN1, an integral protein of the nuclear envelope inner membrane. *J. Cell Sci.* 2002;115:1361-1371.
- 55*. Hwang, K.-K. and Worman, H. J. Gene regulation by human orthologues of *Drosophila* heterochromatin protein 1. *Biochem. Biophys. Res. Commun.* 2002;293:1217-1222.
56. Krimm, I., Couprie, J., Östlund, C., Worman, H. J. and Zinn-Justin, S. ¹H, ¹³C and ¹⁵N resonance assignments of the C-terminal domain of human lamin A/C. *J. Biomol. NMR* 2002;22:371-372.
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Reviews, Chapters, Commentaries and Editorials:

1. Youmans, S. J., Worman, H. J. and Brodsky, W. A. ATP-driven electrogenic proton translocation in plasma membrane vesicles from turtle bladder cells. In *Membrane Biophysics II: Physical Methods in the Study of Epithelia* (eds. Dinno, M. A., Callahan, A. B. and Rozzell, T. C.). Alan R. Liss, Inc., New York, 1983;pp. 159-171.
- 2*. Worman, H. J. Military AIDS tests can't be conclusive (letter). *The New York Times* Oct. 28, 1985;p. A18.
- 3*. Worman, H. J. Cardiac stress test is far from routine (letter). *The New York Times* Dec. 30, 1988;p. A30.
- 4*. Worman, H. J. When life is toxic (letter). *The New York Times Magazine* Oct. 14, 1990;p. 10.
- 5*. Worman, H. J. Cellular intermediate filament networks and their derangement in alcoholic hepatitis. *Alcohol. Clin. Exp. Res.* 1990;14:789-804.
6. Worman, H. J. and Courvalin, J.-C. Autoantibodies against nuclear envelope proteins in liver disease. *Hepatology* 1991;14:1269-1279.
- 7*. Berk, P. D. and Worman, H. J. An introduction to molecular biology and recombinant DNA technology for the hepatologist. *Semin. Liver Dis.* 1992;12:227-245.
- 8*. Worman, H. J. Hepatocyte differentiation: cellular and molecular biology. In *Hepatic*

- Transport and Bile Secretion: Physiology and Pathophysiology* (eds. Tavoloni, N. and Berk, P. D.) Raven Press, Ltd., New York, 1993;pp. 117-134.
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 - 10*. Worman, H. J. Primary biliary cirrhosis and the molecular cell biology of the nuclear envelope. *Mt. Sinai J. Med.* 1994;61:461-475.
 - 11*. Worman, H. J. Book review-the liver: biology and pathobiology. *Gastrointest. Endosc.* 1995;42:284.
 - 12*. Worman, H. J. Blood donors with antibody to hepatitis C virus (letter). *Ann. Intern. Med.* 1996;124:930-931.
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Books:

- 1*. Worman, H. J. *The Liver Disorders Sourcebook*. Lowell House, Los Angeles, 1999;341pp.
- 2*. Worman, H. J. *The Hepatitis C Sourcebook*. McGraw Hill-Contemporary Books, New York, 2002;184pp.
- 3*. Worman, H. J. *The Liver Disorders and Hepatitis Sourcebook (second edition)*. McGraw-Hill, New York, 2006;310pp.

Patents:

- 1*. Worman, H. J. and Terjung, B., inventors; The Trustees of Columbia University in the City of New York, assignee. Nuclear envelope protein recognized by atypical p-ANCA in patients with inflammatory bowel diseases and autoimmune liver diseases. United States patent US 6,627,458. 2003 Sep 30
- 2*. Worman, H. J. and Mamiya, N., inventors; The Trustees of Columbia University in the City of New York, assignee. HCV core protein binding agents for treatment of hepatitis C virus infection. United States patent US 7,094,401. 2006 Aug 22
- 3*. Worman, H. J., Muchir, A., Khire, U. R., Chordia, M. D. and Hart, B., inventors; Allomek Therapeutics LLC and The Trustees of Columbia University in the City of New York, assignee. Novel mek inhibitors for treating cardiomyopathies and related conditions. United States patent US 20150250762 A1. Pending

*Indicates senior author or co-senior author on work.

Miscellaneous:

Featured Speaker or Section Chair at National/International Meetings:

1. International Congress of Comparative Physiology and Biochemistry. Symposium on "Waterproofing Mechanisms in Biology" Aug., 1988, Baton Rouge, LA
2. American Federation for Clinical Research. Symposium on "Transcriptional Regulatory Proteins" May, 1989, Washington, DC

3. American Federation for Clinical Research. Symposium on "Molecular Aspects of Autoimmune Disease" May, 1990, Washington, DC
4. American Society for Cell Biology. Minisymposium on "Organelle Biogenesis and Inheritance" Dec., 1994, San Francisco, CA (presented by Bruno Soullam, graduate student)
5. American Association for the Study of Liver Diseases. Internet Program on "The Internet and Academics: What Role for the AASLD?" Nov., 1995, Chicago, IL
6. National Managed Health Care Congress. Executive Briefing Series on "Internet and Clinical Medicine" May, 1996, San Francisco, CA
7. Digestive Disease Week/American Association for the Study of Liver Diseases. Section Co-Chair "Immune-mediated and Cholestatic Liver Diseases" May, 1996, San Francisco, CA
8. Schering Oncology/Biotech Hepatitis Educators Conference. Seminar on "Gastroenterology and Hepatology on the Internet" Jun., 1996, Laguna Niguel, CA
9. Gordon Research Conference on "Intermediate Filaments" Jul., 1996, Holderness, NH
10. American Association of Clinical Chemistry Arnold O. Beckman Conference on "Liver Diseases and the Clinical Laboratory" Feb., 1997, New Orleans, LA
11. Gordon Research Conference on "Intermediate Filaments" Jul., 1998, Holderness, NH
12. Paterson Symposium on "The Nucleus and Cell Cycle Control" Sep., 1998, Manchester, UK
13. World Chinese Congress of Digestion. Invited Plenary Speaker on "Molecular Biology and the Diagnosis and Treatment of Liver Diseases" Oct., 1998, Beijing, China
14. Falk Symposium on Autoimmune Liver Diseases. Invited Speaker on "Nuclear Antigens in Primary Biliary Cirrhosis" Oct., 1999, Basel, Switzerland
15. 1999 Airlie Nuclear Transport Meeting: Molecules and Mechanisms. Invited Speaker on "Inner Nuclear Membrane Proteins and Their Associations with Human Disease" Nov., 1999, Warrenton, VA
16. Myologie 2000, Invited Speaker on "The Structure of the Nuclear Envelope" Mar., 2000, Nice, France
17. Facing the Challenge PBC Conference, Invited Speaker on "The Diagnosis of Primary Biliary Cirrhosis" Jun., 2000, Las Vegas, NV
18. 81st European Neuromuscular Center International Workshop on Emery-Dreifuss Muscular Dystrophy on "Inner Nuclear Membrane Proteins and Mechanisms of Human Disease" Jul., 2000, Naarden, The Netherlands
19. 82st European Neuromuscular Center International Workshop/1st Workshop of the MYO CLUSTER project European Muscle Envelope Nucleopathies (EUROMEN) on Emery-Dreifuss Muscular Dystrophy and related Disorders on "Inner Nuclear Membrane Proteins and Mechanisms of Human Disease" Sep., 2000, Naarden, The Netherlands
20. eHealthcare World New York 2000, Panelist on "Clinicians on the Internet" Dec., 2000, New York, NY
21. Schering Hepatitis Investigators Network Meeting. Seminar on "Molecular Biology of the Hepatitis C Virus: New Targets for Drug Therapy." Feb., 2001, Orlando, FL
22. Max-Planck-Institut für Molekulare Zellbiologie und Genetik Symposium on "Principles of Protein Targeting and Sorting in the Cell" May, 2001, Dresden, Germany
23. National Cancer Institute-Frederick Workshop on Nuclear Organization and Disease. Seminar on "Inner Nuclear Membrane Proteins and Muscle Disease" Jul., 2001, Frederick, MD
24. American Association of Clinical Chemistry Annual Meeting Symposium on Autoimmune Disorders – Current and Future Impact on the Clinical Lab. Seminar on "Autoantibody Markers Inflammatory Bowel, Celiac and Autoimmune Liver Disease" Aug., 2001, Chicago, IL
25. American Society for Cell Biology Annual Meeting Special Interest Subgroup on "Nuclear Organization and Nuclear Lamina" Seminar on "Inner Nuclear Membrane Proteins, Nuclear Function and Human Disease" Dec., 2001, Washington, DC
26. American Association for the Advancement of Science Annual Meeting Symposium on The "New" Nucleus: Mothership of the Human Genome. Seminar on "Nuclear Envelope

- Proteins and Human Disease" Feb., 2003, Denver, CO
27. Society for Experimental Biology Conference on Communication and Gene Regulation at the Nuclear Envelope. Hitachi High Technology Plenary Lecture on "Nuclear Envelope and Human Disease" Jul., 2003, Durham, UK
 28. National Institutes of Health-The Progeria Research Foundation Joint Workshop on Hutchinson-Gilford Progeria Syndrome. Seminar on "Lamin A Structure, Function and Protein Interactions in the Normal and Defective States" Jul., 2003, Bethesda, MD
 29. European Federation of Internal Medicine 4th Congress Scientific Satellite Meeting on Perspectives of *LMNA*-associated Lipodystrophies. State of the Art Lecture on "Molecular Aspects in Laminopathies" Sep., 2003, Berlin, Germany
 30. Muscular Dystrophy Association Scientific Workshop on Cardiomyopathy in Muscular Dystrophy. Seminar on "Role of Nuclear Envelope Proteins Emerin and Lamins A/C in Cardiomyopathy, Muscular Dystrophy and Other Disorders" Sep., 2003, Tucson, AZ
 31. American Association for the Study of Liver Diseases. Co-Director "Focused Study Group on Primary Biliary Cirrhosis" Oct., 2003, Boston, MA
 32. Novartis Foundation Symposium 264 on Nuclear Organization in Development and Disease. Seminar on "Components of the Nuclear Envelope and Their Role in Human Disease" Jan., 2004, London, UK
 33. Novartis Foundation/The Royal Society of Medicine/The Physiological Society Open Meeting on Nuclear Organization in Development and Disease. Seminar on "Components of the Nuclear Envelope and Their Role in Human Disease" Jan., 2004, London, UK
 34. Gordon Research Conference on "Signal Transduction Within the Nucleus" (Speaker and Discussion Leader) Feb., 2005, Buellton, CA
 35. Charité Symposium on *LMNA*-associated Lipodystrophy. Seminar on "Nuclear Envelope Proteins Associated with Human Diseases" Apr., 2005, Berlin, Germany
 36. Deutsche Gesellschaft für Innere Medizin 111th Kongress. Seminar on "Nuclear Envelope Proteins Associated with Human Diseases" Apr., 2005, Wiesbaden, Germany
 37. Myologie 2005. Seminar on "Nuclear Envelope and the Regulation of Signal Transduction" May, 2005, Nantes, France
 38. Melorheostosis Association 3rd International Conference. Seminar on "The Identification and Characteristics of MAN1: The Protein Mutated in Melorheostosis" Jul., 2005, St. Louis, MO
 39. American Society for Cell Biology Summer Meeting on "Nuclear Architecture and Disease" (Speaker and Section Leader) Jul., 2005, Ames, IA
 40. Lazard Capital Markets' Life Sciences Conference. Featured Speaker on "Hepatitis C: Current and Emerging Therapies" Nov., 2005, New York, NY
 41. American Society for Cell Biology. Minisymposium on "Nuclear Envelope Functions" Dec., 2005, San Francisco, CA (presented by Antoine Muchir, postdoctoral fellow)
 42. American Society for Cell Biology. Minisymposium Co-chair "Nuclear Envelope Functions" Dec., 2005, San Francisco, CA
 43. Dystonia Medical Research Foundation TorsinA/Nuclear Envelope Workshop. Meeting Co-chair, Section Chair and Seminar on "Inner Nuclear Membrane Protein MAN1 and Signal Transduction" May, 2006, Chicago, IL
 44. Melorheostosis Association 3rd International Conference. Seminar on "Inner Nuclear Membrane Protein MAN1 and Regulation of R-Smad Signaling" Jun., 2006, Madison, WI
 45. National Institute of Neurological Disorders and Stroke - Dystonia Medical Research Foundation Workshop on Dystonia: Recent Advances and Future Directions. Session Co-chair "TorsinA – Functions and Interactions" Jun., 2006, Bethesda, MD
 46. 20th IUBMB International Congress of Biochemistry and Molecular Biology and 11th FAOBBM Congress Symposium on Organelle Biogenesis and Human Disorders. Seminar on "Nuclear Envelope and Human Disease" Jun., 2006, Kyoto, Japan
 47. Gordon Research Conference on "Intermediate Filaments" Jul., 2006, Newport, RI
 48. Fifth JSH Single Topic Conference on Liver and Immune Disorder: New Insights from

- Pathogenesis to Treatment. Seminar on “Nuclear Envelope Protein Autoantigens in Primary Biliary Cirrhosis” Sep., 2006, Nagasaki, Japan
49. National Institute of Diabetes and Digestive and Kidney Diseases Lipodystrophy and the Metabolic Consequences of Altered Fat Deposition Workshop. Seminar on “Update on the Role of Lamin A/C in Familial Partial Lipodystrophy” Nov., 2006, Bethesda, MD
 50. The 20th Anniversary of the *DMD* Gene Discovery: Impact on Muscle Biology, Disease and Therapy Symposium. Seminar on “Nuclear Envelope and Emery-Dreifuss Muscular Dystrophy” May, 2007, Ottawa, Canada
 51. 3rd Luzie Fabisch Symposium for Cancer Research and Cell Biology on Nuclear Envelope in Aging, Cancer and Disease. Seminar on “Pathogenesis of Cardiomyopathy in Emery-Dreifuss Muscular Dystrophy Caused by *LMNA* and *EMD* Mutations” Sep., 2007, Berlin, Germany
 52. Myologie 2008. Seminar on “MAP Kinase Signaling and Cardiomyopathy in Emery-Dreifuss Muscular Dystrophy” May, 2008, Marseille, France
 53. American Society for Cell Biology Annual Meeting Special Interest Subgroup on “Organization of the Nuclear Lamina in Development and Disease” (Speaker and Co-Chair) Dec., 2008, San Francisco, CA
 54. EMBO Workshop: The Multiple Faces of Lamins in Aging and Disease. Seminar on “ERK Inhibition Prevents Cardiomyopathy in Emery-Dreifuss Muscular Dystrophy Laminopathies” Jan., 2009, Vienna, Austria
 54. 4th Meeting of the British Nuclear Envelope, Disease and Chromatin Organisation. Plenary Lecture on “Laminopathies: A Long Strange Trip from Basic Cell Biology to Therapy” Apr., 2009, Durham, UK
 56. Fondation des Treilles Meeting on Nucleocytoplasmic Interactions. Seminar on “Nucleocytoplasmic Interactions and MAP Kinase Activation in Emery-Dreifuss Muscular Dystrophy” May, 2009, Tourtour, France
 57. American Association for the Study of Liver diseases. Parallel Session on “Steatohepatitis: Experimental” Nov., 2009, Boston, MA (presented by Wei Wu, Staff Associate)
 58. Bachmann-Strauss Dystonia and Parkinson Foundation Annual Meeting. Seminar on “High Throughput Small Molecule Screen to Identify TorsinA Activating Compounds” Nov., 2009, New York, NY
 59. Gordon Research Conference on “Intermediate Filaments” (Speaker, Session Chair and Discussion Leader) Jun., 2010, Tilton, NH
 60. RBC Capital Markets’ Global Healthcare Conference. Roundtable Discussant on “Hepatitis C Therapies” Feb., 2012, New York, NY
 61. Gordon Research Conference on “Intermediate Filaments” Jun., 2012, Lewiston, ME
 62. Barclays Select Series 2014: Global Therapeutics Symposium. Panel Discussant on “Liver Diseases” May, 2014, New York, NY
 63. Gordon Research Conference on “Intermediate Filaments” (Speaker and Session Discussion Leader) Jun., 2014, West Dover, VT
 64. New Directions in Biology and Disease of Skeletal Muscle Conference. Seminar on “Signaling Defects in Laminopathies” Jul., 2014, Chicago, IL
 65. XIII International Congress on Neuromuscular Disease (Speaker and Coordinator of Session on “Nuclear Lamina/Nuclear Matrix”). Seminar on “Emerin-LAP1 Interaction in X-linked Emery-Dreifuss Muscular Dystrophy” Jul., 2014, Nice, France
 66. Prospective *LMNA*-Congenital Muscular Dystrophy Natural History and Biomarker Study Working Meeting at Institut de Myologie. Discussant on “Clinical Trials and Research Updates” Oct., 2014, Paris, France
 67. *LMNA* Scientific/Clinical Meeting at Hospital Sant Joan de Déu. Seminar on “Therapy for *LMNA* Disease - Challenges and Current Research” Oct., 2015, Barcelona, Spain
 68. 6th Annual Sanford Rare Disease Symposium. Seminar on “Nuclear Envelope and Rare Diseases” Feb., 2016, Sioux Falls, SD
 69. Montage de Réseaux Scientifiques Européens ou Internationaux Working Meeting at Institut

- de Myologie. “MEK Inhibitor to Treat *LMNA* Cardiomyopathy” Apr., 2016, Paris, France
70. RBC Capital Markets’ Doctor Day - New York. Panel Discussant on “Liver Disease” Apr., 2016, New York, NY
 71. Gordon Research Conference on “Intermediate Filaments” Jun., 2016, Stowe, VT
 72. *LMNA*-Congenital Muscular Dystrophy Meeting at Institut de Myologie. Seminar on “Drug Treatments for *LMNA* Cardiomyopathy” Oct., 2016, Paris, France
 73. COST School and the Batsheva de Rothschild Seminar: The Nuclear Lamina and Nuclear Organization. Seminar on “Lamina-associated Polypeptide 1 in Striated Muscle and Liver Maintenance” Jun., 2017, Ma’ale HaHamisha, Israel
 74. Biochemical Society Focused Meeting: The Pleiotropic Nuclear Envelope. Seminar on “Cell Signaling Abnormalities in *LMNA*-associated Cardiomyopathy” Aug., 2017, Edinburgh, UK
 75. IV *LMNA* Meeting at Instituto de Salud Carlos III. Seminar on “Developing a Therapy for *LMNA* Cardiac Disease - MEK Inhibitor from AlloMek Toward a Phase I Trial” Oct., 2017, Madrid, Spain

Invited Lectures:

1. Section of Physiology Seminar, Cornell University, Ithaca, NY, Apr., 1988. “Cell Biology of the Nuclear Lamina”
2. Medical Staff Conference, Community Hospital of Brooklyn, Brooklyn, NY, Mar., 1988. “Secretory Diarrhea”
3. Institute Seminar, Eleanor Roosevelt Institute for Cancer Research, Denver, CO, Feb., 1989. “Nuclear Lamina Heterogeneity and Interaction with the Nuclear Membrane”
4. GI Science Conference, Cornell University Medical College, New York, NY, Feb., 1989. “Nuclear Lamina: Heterogeneity and Interaction with Nuclear Membrane”
5. Liver Center Seminar, University of California San Francisco, San Francisco, CA, Oct., 1989. “Nuclear Lamina Heterogeneity and Its Interaction with the Nuclear Membrane”
6. Division of Gastroenterology Research Seminar, Columbia University College of Physicians and Surgeons, New York, NY, Nov., 1989. “Nuclear Lamina and Its Interaction with the Nuclear Membrane”
7. Medical Staff Conference, Community Hospital of Brooklyn, Brooklyn, NY, Nov., 1989. “Mechanisms of Gastric Acid Secretion”
8. Michigan Gut Peptide Research Center Seminar, University of Michigan, Ann Arbor, MI, Nov., 1989. “The Nuclear Lamina and Its Interaction with the Nuclear Membrane”
9. Division of Liver Diseases Research Conference, Mount Sinai School of Medicine, New York, NY, Jan., 1990. “Nuclear Lamina and Its Interactions with the Nuclear Membrane”
10. Department of Biochemistry Seminar, Boston University School of Medicine, Boston, MA, Oct., 1990. “The Nuclear Lamina and Its Interaction with the Nuclear Membrane”
11. Liver Center Seminar, Albert Einstein College of Medicine, New York, NY, Apr., 1991. “The Nuclear Lamina and Its Interaction with the Nuclear Membrane”
12. Section of Cell Physiology Seminar, The University of Chicago, Chicago, IL, Nov., 1991. “The Nuclear Lamina and Its Interaction with the Nuclear Membrane”
13. Department of Chemistry General Chemistry Seminar, Cornell University, Ithaca, NY, Apr., 1992. “Structures, Interactions and Dynamics of Nuclear Envelope Proteins”
14. Département de Biologie Cellulaire Seminar, Institut Jacques Monod, University of Paris 7, Paris, France, May, 1992. “The Inner Nuclear Membrane Lamin B Receptor: Characterization, Structure and Cell Cycle-Dependent Phosphorylation”
15. Medical Staff Conference, Community Hospital of Brooklyn, Brooklyn, NY, May, 1992. “Viral Hepatitis 1992”
16. Department of Physiology and Cellular Biophysics Seminar, Columbia University College of Physicians and Surgeons, New York, NY, May, 1992. “Inner Nuclear Membrane Lamin B Receptor: Characterization, Structure and Cell Cycle-Dependent Phosphorylation”

17. Medical Staff Conference, Community Hospital of Brooklyn, Brooklyn, NY, Nov., 1992. "Hepatitis B"
18. Seminar, Institut Pasteur, Paris, France, May, 1993. "The Lamin B Receptor: Structure, Cell Cycle-Dependent Phosphorylation and Targeting to the Inner Nuclear Membrane"
19. Family Practice Grand Rounds, Jamaica Hospital, Queens, NY, Oct., 1993. "Overview of Hepatitis C"
20. Medicine Grand Rounds, Mount Sinai School of Medicine, New York, NY, Dec., 1993. "Primary Biliary Cirrhosis and the Molecular Cell Biology of the Nuclear Envelope"
21. Brookdale Center for Molecular Biology Seminar, Mount Sinai School of Medicine, New York, NY, Jan., 1994. "Inner Nuclear Membrane Protein LBR: Structure, Function and Nuclear Targeting"
22. Pathology Grand Rounds, Mount Sinai School of Medicine, New York, NY, Jan., 1994. "Microanatomy and Cell Biology of the Nuclear Membrane"
23. Medicine Grand Rounds, Long Island Jewish Medical Center, Queens, NY, Mar., 1994. "Overview of Hepatitis C"
24. Family Practice Seminar, Jamaica Hospital, Queens, NY, Mar., 1994. "New Advances in Viral Hepatitis C"
25. Division of Gastroenterology Seminar, Harlem Hospital, New York, NY, Apr., 1994. "Overview of Hepatitis C"
26. Liver Center Seminar, Albert Einstein College of Medicine, New York, NY, Oct., 1994. "Inner Nuclear Membrane Biogenesis and Dynamics"
27. Medicine Grand Rounds, Saint John's Episcopal Hospital, Far Rockaway, NY, Oct., 1994. "Primary Biliary Cirrhosis and Chronic Viral Hepatitis"
28. Seminar in Clinical Research, The Rockefeller University, New York, NY, Feb., 1995. "Molecular Cell Biology of the Nuclear Envelope: A Target Organelle for Autoantibodies in Liver Disease"
29. Gastroenterology Grand Rounds, Columbia University College of Physicians and Surgeons, New York, NY, Mar., 1995. "Primary Biliary Cirrhosis and the Molecular Cell Biology of the Nuclear Envelope"
30. Research Seminar in Molecular and Cellular Biology, State University of New York Health Sciences Center at Brooklyn, Brooklyn, NY, Mar., 1995. "Biogenesis and Mitotic Dynamics of the Nuclear Envelope"
31. Seminar in Anatomy and Cell Biology, Columbia University College of Physicians and Surgeons, New York, NY, Apr., 1995. "Inner Nuclear Membrane Biogenesis and Interactions with the Nuclear Lamina and Chromatin"
32. Seminar in Cell Biology, Mount Sinai School of Medicine, New York, NY, Sep., 1995. "Inner Nuclear Membrane Biogenesis and Interactions with the Nuclear Lamina and Chromatin"
33. Department of Biochemistry Seminar, Michigan State University, East Lansing, MI, Oct., 1995. "Inner Nuclear Membrane Biogenesis and Interactions with the Nuclear Lamina and Chromatin"
34. Département de Biologie Cellulaire Seminar, Institut Jacques Monod, University of Paris 7, Paris, France, Oct., 1995. "Inner Nuclear Membrane Biogenesis and Interactions with the Nuclear Lamina and Chromatin"
35. Division of Substance Abuse/Primary Care Project Lecture Series, Albert Einstein College of Medicine, New NY, Jan., 1996. "Viral Hepatitis and the HIV Patient"
36. Gastroenterology Research Conference, St. Luke's-Roosevelt Medical Center, New York, NY, Feb., 1996. "Primary Biliary Cirrhosis and the Molecular Cell Biology of the Nuclear Envelope"
37. M. D.-Ph. D. Program Seminar, Columbia University College of Physicians and Surgeons, New York, NY, Mar., 1996. "Inner Nuclear Membrane Biogenesis and Interactions with the Nuclear Lamina and Chromatin"
38. Medical Staff Conference, Wayne General Hospital, Wayne, NJ, May, 1996. "Chronic Viral Hepatitis, 1996"

39. Gastroenterology Grand Rounds, Harlem Hospital, New York, NY, Oct., 1996. "Chronic Hepatitis C 1996"
40. Schering Oncology-Biotech Program, Whippany, NJ, Oct., 1996. "Evaluation and Treatment of Chronic Viral Hepatitis C Including HCV/HIV Coinfection and PCR Monitoring"
41. Medicine Grand Rounds, Morristown Hospital, Morristown, NJ, Oct., 1996. "Chronic Hepatitis C and HCV/HIV Coinfection"
42. Department of Medicine Lecture in Continuing Education, Nassau County Medical Center, East Meadow, NY, Oct., 1996. "Viral Hepatitis and the HIV Patient"
43. Medicine Grand Rounds, Lawrence Hospital, Bronxville, NY, Nov., 1996, "Update: Chronic Hepatitis 1996"
44. Medicine Grand Rounds, Lincoln Medical and Mental Health Center, Bronx, NY, Nov., 1996, "Chronic Hepatitis C and HCV/HIV Coinfection"
45. Post Graduate Course in Gastroenterology and Hepatology, Columbia University College of Physicians and Surgeons, New York, NY, Nov., 1996, "Clinical-Molecular Correlations in Hepatitis C"
46. Special Seminar, Department of Biological Sciences, University of Dundee, Dundee, UK, Mar., 1997, "Inner Nuclear Membrane Biogenesis and Interactions with the Nuclear Lamina and Chromatin"
47. Department of Biochemistry and Molecular Biology Seminar, East Tennessee State University James H. Quillen College of Medicine, Johnson City, TN, Apr., 1997, "Inner Nuclear Membrane Biogenesis and Interactions with the Nuclear Lamina and Chromatin"
48. Molecular Medicine Seminar, Seminar, East Tennessee State University James H. Quillen College of Medicine, Johnson City, TN, Apr., 1997, "New Aspects of Chronic Hepatitis C"
49. Membrane Biology Club Seminar, Departments of Biological Chemistry and Molecular Pharmacology and Department of Cell Biology, Harvard Medical School, Boston, MA, Apr., 1997, "Inner Nuclear Membrane Biogenesis and Interactions with the Nuclear Lamina and Chromatin"
50. Gastroenterology Grand Rounds, Beth Israel Medical Center, New York, NY, Jun., 1997. "Autoantibodies Against Nuclear Envelope Proteins in Primary Biliary Cirrhosis"
51. Seminar in Anatomy and Cell Biology, Columbia University College of Physicians and Surgeons, New York, NY, Jul., 1997. "Inner Nuclear Membrane Biogenesis and Interactions with the Nuclear Lamina and Chromatin"
52. Seminar, Max Delbrück-Centrum für Molekulare Medizin, Berlin-Buch, Germany, Oct., 1997. "Inner Nuclear Membrane Biogenesis and Interactions with the Nuclear Lamina and Chromatin"
53. Medicine Resident and Fellow Conference, Metropolitan Hospital Center, New York, NY, Oct., 1997. "Trends in the Diagnosis and Treatment of HBV and HCV"
54. Post Graduate Course in Gastroenterology and Hepatology, Columbia University College of Physicians and Surgeons, New York, NY, Dec., 1997, Section Moderator "Hepatitis C" and Seminar "Molecular Biology: Diagnostic and Treatment Implications"
55. Roferon HCV Medical Lecture Program, New York, NY, Jan., 1998. "The Diagnosis, Management and Treatment of HCV"
56. Basic Science Conference, St. John's Episcopal Hospital, Far Rockaway, NY, Feb., 1998. "Molecular Biology of Hepatitis C Virus and Implications for Diagnosis and Treatment"
57. Physiology, Biophysics and Medicine Joint Seminar, University of Illinois at Chicago, Chicago, IL, Mar., 1998. "Inner Nuclear Membrane Biogenesis and Interactions with the Nuclear Lamina and Chromatin"
58. Roferon HCV Medical Lecture Program, New York, NY, Mar., 1998. "The Diagnosis, Management and Treatment of HCV"
59. Department of Cell Biology and Anatomy Seminar, Johns Hopkins University School of Medicine, Baltimore, MD, Apr., 1998. "Inner Nuclear Membrane Biogenesis and Interactions with the Nuclear Lamina and Chromatin"

60. Roferon HCV Medical Lecture Program, New York, NY, May, 1998. "Molecular Biology of Hepatitis C Virus"
61. Medicine Grand Rounds, Allen Pavilion of Columbia-Presbyterian Medical Center, New York, NY, May, 1998. "Hepatitis C"
62. Department of Cell Biology and Anatomy Seminar, University of Alberta, Edmonton, Alberta, Canada, Jun., 1998. "Inner Nuclear Membrane Biogenesis and Interactions with the Nuclear Lamina and Chromatin"
63. Joint Adult-Pediatric Infectious Disease Seminar, Columbia University, New York, NY, Jun., 1998. "Hepatitis C"
64. Schering-Plough Oncology/Biotech Program Seminar, New York, NY, Aug., 1998. "The Role of the Primary Care Physician in the Treatment of Hepatitis C: Diagnostic Issues, New Treatment Approaches and Therapeutic Options"
65. Department of Biochemistry Seminar, Stockholm University, Stockholm, Sweden, Sep., 1998. "Inner Nuclear Membrane Biogenesis and Interactions with the Nuclear Lamina and Chromatin"
66. Seminar, Fourth Military Medical University, Xian, China, Oct., 1998. "Molecular Biology of the Hepatitis C Virus"
67. Seminar, Second Military Medical University, Shanghai, China, Oct. 1998. "Molecular Biology of the Hepatitis C Virus"
68. Seminar, INSERM U153 – Institut de Myologie Groupe Hospitalier Pitié-Salpêtrière, Paris, France, Nov. 1998. "Inner Nuclear Membrane Proteins and Muscle Diseases"
69. Post Graduate Course in Gastroenterology and Hepatology, Columbia University College of Physicians and Surgeons, New York, NY, Dec., 1998, "Hemochromatosis: Gene, Mechanism and Genetic Testing"
70. Medical Teaching Conference, Lourdes Hospital, Binghamton, NY, Feb., 1999. "Diagnosis and Treatment of Chronic Hepatitis C"
71. M. D.-Ph. D. Program Seminar, Columbia University College of Physicians and Surgeons, New York, NY, Mar., 1999. "Cell Biology of the Nuclear Envelope"
72. Hepatitis C Educational Meeting, Pennsylvania State Department of Corrections, Harrisburg, PA, Apr., 1999. "Chronic Hepatitis C: Current and Future Perspectives"
73. Medicine Team Rounds, Columbia University College of Physicians and Surgeons, New York, NY, Jun., 1999. "Hepatitis C: Current and Future Perspectives"
74. Medicine Grand Rounds, St. Vincent's Hospital, Bridgeport, CT, Sep., 1999. "Molecular Virology of Hepatitis C"
75. Virology Research Seminar, Department of Microbiology, Columbia University College of Physicians and Surgeons, New York, NY, Oct., 1999. "Hepatitis C Virus - Host Cell Interactions"
76. Division of Liver Diseases Research Seminar, Mount Sinai School of Medicine, New York, NY, Oct., 1999. "Hepatitis C Virus - Host Cell Interactions"
77. Seminar, Compartimentation et Dynamiques Cellulaires, Intitut Curie, Paris, France, Nov. 1999. "Inner Nuclear Membrane Proteins and Human Myopathies"
78. Post Graduate Course in Gastroenterology, Hepatology and Nutrition, Columbia University College of Physicians and Surgeons and Weill Medical College of Cornell University, New York, NY, Dec., 1999, "Primary Biliary Cirrhosis"
79. Liver Update Seminar, American Liver Foundation Greater New York Chapter, Mineola, NY, Mar., 2000, "Hepatitis-New Research-New Options"
80. HIV/Infectious Diseases Seminar, St. Luke's-Roosevelt Hospital, New York, NY, Apr., 2000, "Hepatitis C: New Options"
81. Chief of Service Seminar, Department of Pathology, Columbia University College of Physicians and Surgeons, New York, NY, May, 2000. "Nuclear Envelope Proteins and Human Disease"
82. New York-Presbyterian Hospital HIV Clinical Education Activity, New York, NY, Jun., 2000. "Hepatitis C: Virology, Pathophysiology and Future Directions in Treatment"

83. Resident Teaching Conference, St. Vincent's Hospital, Bridgeport, CT, Sep., 2000. "Hepatitis B"
84. Seminar, Laboratory of Molecular Growth Regulation, National Institute of Child Health and Human Development, National Institutes of Health, Bethesda, MD, Oct., 2000. "Nuclear Envelope Proteins and Human Disease"
85. Medicine Team Rounds, Columbia University College of Physicians and Surgeons, New York, NY, Jan., 2001. "Molecular Biology of Hepatitis C Virus and Implications for Future Therapy"
86. Medicine Grand Rounds, Allen Pavilion of New York Presbyterian Hospital, New York, NY, Mar., 2001. "Hepatitis C: New Research and Treatment Options"
87. Division of Gastroenterology and Hepatology Conference, Cornell University College of Medicine, New York, NY, Mar., 2001. "Autoantibodies Against Nuclear Envelope Proteins in IBD and Autoimmune Liver Diseases"
88. Medicine Grand Rounds, Harlem Hospital, New York, NY, Apr., 2001. "Treatment of Chronic Hepatitis C"
89. Medicine Grand Rounds, Nassau County Medical Center, East Meadow, NY, May, 2001. "New Developments in the Treatment of Hepatitis C"
90. Internal Medicine Grand Rounds, Charité Universitätsklinikum Medizinische Fakultät der Humboldt - Universität zu Berlin, Berlin, Germany, Oct., 2001. "Nuclear Envelope Proteins and Human Disease"
91. Liver Research Center Seminar, Albert Einstein College of Medicine, Bronx, NY, Jan., 2002. "Inner Nuclear Membrane Proteins and Human Disease"
92. Invited Speaker Seminar Series, National Institute on Aging Gerontology Research Center, Baltimore, MD, Mar., 2002. "Inner Nuclear Membrane Proteins and Human Disease"
93. Seminar, Human Frontiers Science Program Team Meeting, INSERM U153 - Institut de Myologie Groupe Hospitalier Pitié-Salpêtrière, Paris, France, Mar. 2002. "Properties of Mutant Nuclear Lamins in Inherited Diseases"
94. Resident Teaching Conference, St. Vincent's Hospital, Bridgeport, CT, Sep., 2002. "Viral Hepatitis C – New Research and Treatment Options"
95. Department of Biochemistry Seminar, University of Iowa, Iowa City, IA, Oct., 2002. "Nuclear Envelope, Gene Expression and Inherited Disease"
96. Cancer Center Clinical Research Meeting, Columbia University, New York, NY, Nov., 2002. "Hepatitis C: New Research and Treatment Options"
97. Post Graduate Course in Gastroenterology, Hepatology and Nutrition, Columbia University College of Physicians and Surgeons and Weill Medical College of Cornell University, New York, NY, Dec., 2002, "Autoimmune Hepatitis"
98. Digestive Diseases Research Seminar, Yale University, New Haven, CT, Jan., 2003. "Nuclear Envelope and Inherited Disease"
99. Section of Gastroenterology and Nutrition Special Seminar, University of Chicago, Chicago, IL, Feb., 2003. "Nuclear Envelope Proteins and Human Disease"
100. Seminar, Merck Research Laboratories, Merck & Co., Inc., Rahway, NJ, Mar., 2003. "Lipodystrophy, Cardiomyopathy, Muscular Dystrophy, Sterol Metabolism and the Nuclear Envelope"
101. Medicine Grand Rounds, Mercy Medical Center, Rockville Centre, NY, Mar., 2003. "Viral Hepatitis C – New Research and Treatment Options"
102. Seminar, Département d'Ingénierie et d'Etudes des Protéines, Commissariat à l'Energie Atomique, Saclay, France, Jun., 2003. "Nuclear Envelope and Human Disease"
103. Seminar, Lankenau Institute for Medical Research, Wynnewood, PA, Jul., 2003. "Nuclear Envelope, Inherited Diseases and Premature Aging"
104. Resident Teaching Conference, St. Vincent's Hospital, Bridgeport, CT, Sep., 2003. "Hepatitis C – New Research and Future Treatment Options"
105. Seminar, Department of Emergency Medicine, Jacobi Hospital, Bronx, NY, Sep., 2003. "Hepatitis C"

106. Seminar, Human Frontiers Science Program Team Meeting, Institute of Medical Biochemistry, University of Oslo, Oslo, Norway, Oct., 2003. "Inner Nuclear Membrane Protein MAN1 and TGF- β Signaling"
107. Seminar, Department of Molecular Biology and Genetics, Cornell University, Ithaca, NY, Nov., 2003. "The Nuclear Envelope and Inherited Diseases"
108. Seminar, National Cancer Institute Cancer and Developmental Biology Laboratory "Retreat," New York, NY, Dec., 2003. "The Nuclear Envelope and Disease"
109. Seminar, Department of Pharmacology, State University of New York Stony Brook, Stony Brook, NY, Feb., 2004. "The Nuclear Envelope and Inherited Diseases"
110. Guest Lecturer, Johns Hopkins University School of Medicine Graduate Course on "The Nucleus," Baltimore, MD, May, 2004. "The Nuclear Envelope and Inherited Diseases"
111. Seminar, Human Frontiers Science Program Team Meeting, National Center of Neurology and Psychiatry, Tokyo, Japan, Jun., 2004. "Nuclear Envelope and Disease: New and Current Research"
112. Liver Research Center Seminar, Albert Einstein College of Medicine, Bronx, NY, Nov., 2004. "Nuclear Envelope and Human Disease"
113. Medical Grand Rounds, State University of New York Downstate Medical Center, Brooklyn, NY, Jan., 2005. "Nuclear Envelope and Human Disease"
114. Presentation, Seoul National University Hospital Planning Committee, Seoul, Korea, Jun., 2005. "History, Research and Education at New York-Presbyterian Hospital's Affiliated Medical Schools"
115. Presentation, Ministry of Finance and Economy Republic of Korea, Seoul, Korea, Jun., 2005. "History, Research and Education at New York-Presbyterian Hospital's Affiliated Medical Schools"
116. Presentation, Ministry of Health and Welfare Republic of Korea, Seoul, Korea, Jun., 2005. "History, Research and Education at New York-Presbyterian Hospital's Affiliated Medical Schools"
117. Presentation, Incheon Free Economic Zone Authority, Incheon, Korea, Jun., 2005. "History, Research and Education at New York-Presbyterian Hospital's Affiliated Medical Schools"
118. Medicine Grand Rounds, Nassau University Medical Center, East Meadow, NY, Oct. 2005. "Nuclear Envelope Proteins and Human Disease"
119. Seminar, Laboratories of Neurogenetics, University of California San Francisco, San Francisco, CA, Apr., 2006. "Nuclear Envelope, Nuclear Lamina and Human Disease"
120. Seminar in Clinical Research, Rockefeller University, New York, NY, Sep., 2006. "Nuclear Envelope and Inherited Disease"
121. Molecular and Cellular Biology Seminar, State University of New York Downstate Medical Center, Brooklyn, NY, Oct., 2006. "Nuclear Envelope, Nuclear Lamina and Human Disease"
122. Division of Rheumatology Grand Rounds, Columbia University Medical Center, New York, NY, Nov., 2006. "Autoimmune Liver Diseases"
123. Medicine Grand Rounds, St. Vincent's Hospital, Bridgeport, CT, Jan., 2007. "Emerging Treatments for Chronic Hepatitis C"
124. Neuroscience Seminar, University of California San Francisco, San Francisco, CA, Mar., 2007. "Nuclear Envelope, Nuclear Lamina and Human Disease"
125. Clinical Pathology Special Seminar, Columbia University Medical Center, New York, NY, Apr., 2007. "Laminopathies: A Wide Spectrum of Human Disease"
126. Digestive and Liver Diseases Grand Rounds, Columbia University Medical Center, New York, NY, Oct., 2007. "Laminopathies: A Broad Spectrum of Human Disease"
127. Digestive Diseases Research Seminar, Yale University, New Haven, CT, Nov., 2007. "Laminopathies: A Wide Spectrum of Human Diseases"
128. Gastroenterology Grand Rounds, Lenox Hill Hospital, New York, NY, Mar., 2008. "Emerging Treatments for Chronic Hepatitis C"
129. Research Day, Ross University School of Medicine, Portsmouth, Commonwealth of

- Dominica, May, 2008. "Laminopathies: Rare Disease Models of Common Human Conditions"
130. Medicine Grand Rounds, St. Vincent's Hospital, New York, NY, Sep., 2008. "Emerging Treatments for Chronic Hepatitis C"
 131. Medicine Grand Rounds, Columbia University College of Physicians and Surgeons, New York, NY, Sep., 2008. "Nuclear Envelopathies: Rare Disease Models of Common Human Conditions"
 132. The New York Lipid and Vascular Biology Research Club Seminar, Rockefeller University, New York, NY, Dec., 2008. "A-type Lamin Alterations Causing Partial Lipodystrophy and Cardiomyopathy"
 133. Medicine Grand Rounds, Metropolitan Hospital Center, New York, NY, Jan., 2009. "Nuclear Envelopathies: Rare Disease Models of Common Human Conditions"
 134. Molecular Biosciences Graduate School Seminar, Södertörn University College, Huddinge, Sweden, Feb., 2009. "Laminopathies and the Long Strange Trip from Cell Biology to Therapy"
 135. Seminar, Department of Biological Sciences, Hunter College of the City University of New York, New York, NY, Sep., 2009. "Laminopathies and the Long Strange Trip from Cell Biology to Therapy"
 136. Heart Failure/Transplant Group Seminar, Columbia University Medical Center, New York, NY, Dec., 2009. "Pathogenesis and Treatment of Cardiomyopathy Caused by Lamin A/C Gene Mutations"
 137. Center for Oral Biology Bagel Talk Series, University of Rochester, Rochester, NY, Apr., 2010. "The Nuclear Envelope: a Signaling Node in Development and Disease"
 138. Research Seminar, Chromocell Corporation, North Brunswick, NJ, Jul., 2010. "The Nuclear Envelope: a Signaling Node in Human Disease"
 139. Cardiovascular Medicine Grand Rounds, University of Wisconsin School of Medicine and Public Health, Madison, WI, Jul., 2010. "Pathogenesis and Treatment of Cardiomyopathy Caused by Lamin A/C Gene Mutation"
 140. Seminar, *LMNA* Family Research Day, The Clinic for Special Children, Strasburg, PA, Mar., 2011. "*LMNA* Cardiomyopathy"
 141. Seminar, Department of Cell Biology, University of Alberta, Edmonton, Alberta, Canada, Mar., 2011. "The Nuclear Envelope: a Signaling Node in Human Disease"
 142. Seminar, Department of Cell and Molecular Biology, Northwestern University Feinberg School of Medicine, Chicago, IL, May, 2011. "Laminopathies and the Long Strange Trip from Cell Biology to Therapy"
 143. Digestive and Liver Diseases Grand Rounds, Columbia University Medical Center, New York, NY, Jan., 2012. "Primary Biliary Cirrhosis: Clinical Features, Autoantibodies, and Speculations About Pathogenesis"
 144. Seminar, Array BioPharma, Inc., Boulder, CO, Jun., 2012. "*LMNA* Cardiomyopathy and p38 α Signaling"
 145. Department of Cell Biology Seminar, Johns Hopkins University School of Medicine, Baltimore, MD, Mar., 2013. "Laminopathies and the Long Strange Trip from Cell Biology to Therapy"
 146. Genetic Disorder Project Symposium, Harvard College, Cambridge, MA, May, 2013. "Panel Discussion on Progeria"
 147. Seminar, Technische Universität München, Munich, Germany, Sep., 2013. "Laminopathies and the Long Strange Trip from Cell Biology to Therapy"
 148. Internal Medicine Grand Rounds, University of California Davis, Sacramento, CA, Nov., 2013. "Laminopathies and the Long Strange Trip From Cell Biology To Therapy"
 149. Seminar, Division of Developmental Biology and the Perinatal Institute, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, Sep., 2014. "The Nuclear Envelope as a Signaling Node in Development and Disease"
 150. Medicine Grand Rounds, Nassau University Medical Center, East Meadow, NY, Feb., 2015.

- “Nuclear Laminopathies and the Long Strange Trip from Cell Biology to Therapy”
151. Grade 6B Science Class Lecture, The School at Columbia University, New York, NY, May, 2015. “Introduction to the Liver”
 152. Undergraduate Summer Fellow Seminar, Department of Molecular and Integrative Physiology, University of Michigan, Ann Arbor, MI, Jun., 2015. “Laminopathies and the Long Strange Trip from Cell Biology to Therapy”
 153. Physiology Seminar, Department of Molecular and Integrative Physiology, University of Michigan, Ann Arbor, MI, Jun., 2015. “Nuclear Envelope: An Intriguing Focal Point in Inherited Diseases”
 154. Clinical and Translational Seminar, The Research Institute at Nationwide Children’s Hospital, Columbus, OH, Aug., 2015. “The Nuclear Envelope and Muscular Dystrophy”
 155. Genomics Case Conference, Department of Pediatrics, Columbia University, New York, NY, Dec., 2015. “Novel *LMNA* Mutation Causing a Mandibuloacral Dysplasia-like Phenotype”
 156. Medical Grand Rounds, Christiana Care Health System, Newark, DE, Jan., 2016. “Personalized Medicine and Rare Diseases: The Laminopathies”
 157. Genetics Seminar, The Hebrew University of Jerusalem, Jerusalem, Israel, Mar., 2016. “A Precision Medicine Approach to the Laminopathies”
 158. Cell Biology Seminar, State University of New York-Downstate, Brooklyn, NY, May 2016. “A Precision Medicine Approach to the Laminopathies”
 159. James T. Willerson, M. D. Cardiovascular Seminar, Texas Heart Institute, University of Texas Health Sciences Center at Houston, Houston, Tx, Oct., 2016. “A Precision Medicine Approach to the Laminopathies”
 160. Medicine Grand Rounds, Nassau University Medical Center, East Meadow, NY, Oct., 2017. “A Precision Medicine Approach to the Laminopathies”