

Biographical Sketch

Andrew S. Belmont

Birth Date: 8/9/56

Education:

Princeton University, Princeton, NJ	AB	1977	Physics
Temple University, Phila., PA	M.D.	1982	Medicine
Temple University, Phila., PA	Ph.D.	1983	Physiology/Biophysics
The Johns Hopkins Univ, Baltimore, MD		1983	Postdoc
University of California, SF, CA		1983-89	Postdoc

Research and Professional Experience:

1977-1983	Medical and graduate student, Temple University Thesis Advisor: Claudio Nicolini
1983	Postdoctoral Fellow with Dr. Paul Ts'o, Division of Biophysics, School of Hygiene and Public Health, The Johns Hopkins University
1983-1989	Postdoctoral fellow with Dr. David Agard, Department of Biochemistry and Biophysics, University of California, San Francisco
1989-1995	Assistant Professor, Department of Cell and Structural Biology, University of Illinois, Urbana
1995-1999	Associate Professor, Department of Cell and Structural Biology, University of Illinois, Urbana
1999-2005	Professor, Department of Cell and Structural Biology University of Illinois, Urbana
1/04 - 6/04	Interim Head, Department of Cell and Structural Biology
2005-present	Professor, Department of Cell and Developmental Biology University of Illinois, Urbana
1/2008-12/2013	Head, Department of Cell and Developmental Biology University of Illinois, Urbana

Awards, Honors, Recognition:

1977	AB, magna cum laude, Phi Beta Kappa, Sigma Xi, Princeton University
1979-1980, 1981-1982	University Graduate Fellowship, Temple University
1984-1986	Damon Runyon-Walter Winchell Postdoctoral Fellowship
1986-1987	NIH Postdoctoral Fellowship
1990-1994	Whitaker Foundation Biomedical Engineering Research Grant for New Researchers
1998	University Scholar, University of Illinois
2001, 2006-2008, 2010-2012	Incomplete List of Teachers Rated Excellent
2011	Program Committee for ASCB 2011 Annual Meeting
4/1/14-3/31/17	Visiting Professor at National Institute of Genetics (NIG), Japan
8/14-8/19	Lincoln Professorial Scholar, University of Illinois, Urbana-Champaign

Research Support:

1. NSF equipment grant, 6/15/89-11/30/91, \$92,140, "Acquisition of an Optical Sectioning Workstation"
2. NIH R29 grant, 7/1/90-6/31/95, \$348,900 direct costs total, "Nuclear and Chromosome Decondensation During G1-S"
3. The Whitaker Foundation, Biomedical Engineering Grant, 12/1/90-4/31/94, \$149,859 direct costs total, "Computational Unraveling of Interphase Chromosome Structure"
4. BRSRG, 4/01/90-9/3/91, \$10,000, "Support for Optical Sectioning Workstation"
5. NIH BRSRG Small Instrumentation Program, 6/91-5/92, \$11,275, "Acquisition of a high vacuum evaporator"
6. NIH phase II SBIR grant, 5/1/94-4/30/96, \$31,264 direct costs total (consultant costs, PI is Dr. Rick Powell, Nanoprobe, Inc.)
7. NSF Instrumentation grant, 6/15/94- 5/31/96, \$266,382, "Acquisition of 200 Kev Transmission Electron Microscope" (co-PI)
8. NIH RO1 grant, 7/1/95-6/31/99, \$649,453 direct costs total, "Large-scale Chromatin Structure and Function"
9. NIH SBC-B-0394, 3/1/98-2/28/00, \$41,967 direct costs total, "Fluorescent and large metal cluster combination probes", (PI is Dr. Rick Powell, Nanoprobe, Inc)
10. NIH R01 GM58460, 2/1/99- 1/31//03, "\$697,423 direct Chromatin Domain Structure and Function"
11. NIH R01 GM42516, 7/1/99-6/30/04, \$688,057 direct, "Large-scale chromatin structure and function"
12. NIH R01 GM58460, 2/1/03-1/31/07, \$810,000 direct, "Chromatin Domain Structure and Function"
13. Research Board Grant: 4/30/02- 4/30/03, "Probing Genome Organization using Chemical Genetics", \$24,200 total (Arnold O. Beckman Research Award)
14. Human Frontier Science Program Organization, 6/03-1/07, \$300,000 (to ASB) "Investigation of the changes in nuclear and chromosome organization during mammalian X inactivation"
15. NIH R01 GM42516, 7/1/04-6/30/09, \$746,000 direct, "Large-scale chromatin structure and function"
16. NIH R01 GM58460-08S1, 2/1/06-7/31/07, \$65,914 direct, "Chromatin Domain Structure and Function"
17. NIH R01 GM58460, 8/1/07-1/31/11, \$902,702 direct, "Chromatin Domain Structure and Function"
18. Roy J. Carver Charitable Trust #08-3189, \$330,000 "Acquisition of the OMX Light Microscope and Creation of a MCB Imaging Facility"
19. NIH R01 GM058460-10S1, 2/01/08-1/31/10, \$71,260 Administrative Supplement in response to NOT-NS-08-013 for Human Pluripotent Stem Cell Research to "Chromatin Domain Structure and Function" grant
20. NIH SBIR grant R43 EB0008621-01A2 "3-15 nm Covalent Gold for High Resolution Electron microscopy, subcontract to A. Belmont, 7/15/09-1/14/10, \$13,061 direct

21. NIH R01 GM058460-13, 6/1/11-5/31/15, \$960,824 direct, \$1,399,964 total, "Chromatin Domain Structure and Function"
22. NIH R01 GM098319-01, 8/15/2011- 7/31/2015, \$760,000 direct, \$1,158,112 total, " Engineering stable, independent multi-transgene expression in mammalian cells"
23. Internal Equipment Grant through VCR office, Upgrade of OMX Structured Illumination Microscope for Fast, Multi-Channel, Live-Cell Super-resolution Light Microscopy, \$187,500.
24. NIH R01 GM058460-13, 6/1/15-8/31/16, 1 year supplement, \$80,069 direct costs for year, \$116,267 total, "Chromatin Domain Structure and Function"
25. NIH 1U54DK107965-01, 10/01/2015- 8/31-2020, \$1,246,661 direct, \$369,707 indirect, \$1,616,368 total overall funding first year, PI Andrew Belmont, to PI laboratory first year-\$277,964 direct, \$451,399 total, "Combined Cytological, Genomic, and Functional Mapping of Nuclear Genome Organization" (PI plus 4 Co-I Center Grant)
26. NSF EAGER MCB 17-23008, 5/1/2017-4/30/2019, \$300,000 total, PI Prasanth Kannanganattu, co-I Andrew Belmont, \$147,359 total to Belmont laboratory, "Developing TSA-RNA-Seq for Subcellular Transcriptomics"
27. NIH R01 GM058460-18, 1/1/18-12/31/22, \$250K direct per year "Chromatin Domain Structure and Function"

Courses Taught:

Fall 1989- Spring 1990:	CSB 360: 13 contact hours Biophysics 301: 1.5 contact hours
Fall 1990- Spring 1991	CSB 360: 26 contact hours Biophysics 301: 1.5 contact hours
Fall 1991- Spring 1992	CSB 300: 25 contact hours CSB 335: 44 contact hours Biophysics 301: 1.5 contact hours
Fall 1992	CSB 300: 29 contact hours
Fall 1993- Spring 1994	CSB 300: 26 contact hours CSB 410: 42 contact hours Bio 350: 1 contact hour
Fall 1994	CSB 300: 36 contact hours
Spring 1995	Biophysics Tutorial
Fall 1995	CSB 300: 22 contact hours
Spring 1996	CSB 410: 42 contact hours, Biophysics Tutorial
Fall 1996	CSB 300: 20 contact hours
Fall 1997	CSB 300: 20 contact hours
Spring 1998	CSB 410 (Research Ethics): 8 contact hours
Fall 1998	CSB 300: 20 contact hours CSB 490: 5 contact hours
Spring 1999	Biochem 494A: 2 contact hours
Fall 1999	CSB 300: 20 contact hours CSB 490: 6 contact hours
Spring 2000	Biological Physics 001 Seminar: 1 hour
Fall 2000	CSB 300: 23 contact hours

Spring 2001	CSB 410G: 44 contact hours
	CSB 410: 4.5 contact hours
Fall 2002	CSB 300: 23 contact hours
Spring 2005	MCB 501: Functional genomics in Cell Biology Seminar, 44 contact hours
Spring 2006	MCB 529 AB1: Graduate Survey Course in Molecular Cell Biology, 17 contact hours teaching, course manager (44 hours overall)
Spring 2007	MCB 529AB1: Cell Biology, 31.5 contact hrs
Spring 2008	MCB 529AB1: Cell Biology, 29.5 contact hrs
Spring 2009	MCB 529AB1: Cell Biology, 22.5 contact hrs
Spring 2010	MCB 529AB1: Cell Biology, 13.5 contact hrs
Spring 2011	MCB 529AB1: Cell Biology, 19.5 contact hrs
Spring 2012	MCB 493.acb: Cell Biology, 17 contact hrs
Fall 2012	MCB 529WRI: Writing Class, 14 contact hrs
Spring 2013	MCB 493acb: Cell Biology, 17 contact hrs
Fall 2013	MCB 529WRI: Writing Class, 14 contact hrs
Spring 2014	MCB 493acb: Cell Biology, 14 contact hrs
Spring 2015	Sabbatical
Fall 2016	MCB 540 Scientific Writing, 19 contact hours
Spring 2017	MCB 493 Epigenetics, 43 contact hours
Spring 2018	MCB 493 Epigenetics, 43 contact hours
Spring 2019	MCB 493 Epigenetics, 43 contact hours

Previous and Current Students and Associates:

Undergraduate Research Projects: Anja Thilenius, Madhuri Wadehra, Scott Hofman, Jason Hoeksam, Gina Gottlieb, Corrie Tolerico, Allison Kehoe, Jon Radosta, Gena Bloth, Sarah Scheiderich, Yvonne Kehinde, Shani Pullappally, Ashouri Anousheh, Mary Anne Floyd, Rebecca Taggart, Nazanin Ashourian, Rashi Chandra, Paul Donlin-Asp, Jurgis Alvikas, Sudeep Soni, Nathaniel Ryckman, Taylor Graff, Jeonghun Park, Gene Kim, Disha Kuchangi, Wiktorja Kowalczyk

Master Thesis Advisor: Carmen Robinett, Lan Zhao (Biology), Mei-Chun Lai

PhD Thesis Advisor: Cell and Developmental Biology: Gang Li, Ann Nye, Chien-Hui Chuang, Yan Hu, Wei-Cheng Wu, Yu Chen, Xiang Deng, Nimish Khanna, Binhui Zhong, Liguozhang, Gabriela Hernandez, Pradeep Kumar, Shuting Liu, Neha Chivukula Venkata
Biophysics: Yuri Strukov, Tudorita Tumber, Qian Bian, Jiah Kim

Visiting Graduate Student: Sevinci Memedula (University of Bucharest)

PhD Research Advisor: Alexander Delaney (Electrical and Computer Engineering)

Postdoctoral Fellow Advisor: Steffen Dietzel, Sevi Memedula, Tao Wei, Alena Rego, Paul Sinclair, Hanna Walukiewicz, Gabriela Sustackova, David Zimmerman, Pankaj Chaturvedi, Hatice Kaya, Joseph Dopie

Visiting Scientist: Igor Kireev (Moscow State University)

On-Campus Activities:

Departmental:

Search Committee (1989,1990,1998)
Seminar Committee (1989-1995, 1996-1999)
Curriculum Committee (1989-1994, 1996-1997, 2000, 2002-2003)
Chair, Graduate Advising Committee (1996)
Graduate Advising Committee (1996-1997)
Chair, Seminar Committee (1997-1998)
Chair, Research Resources Committee (1998-2000)
Research Resources Committee (1998- 2003)
Advisory Committee (1998-2000, 2003- present)
Interim Department Head, Cell and Structural Biology (Spring 2004)
Graduate Program and Fellowship Committee (2006)
Graduate Admissions Committee, Chair (2007)
Department Head, 1/08- 12/31/13
Preliminary Exam Committee, 1/14-8/15, 4/20
Advisory Committee, 8/15-present
Grant Mentoring Committee, Chair 8/15-8/19, member to present
CDB Courses and Curriculum Committee, Chair, 8/16-8/18
CDB Seminar Committee, 3/18- 5/18
Promotion and Tenure Committee, co-chair, 8/19-present

School:

Chair, MCB Seminar Committee (1998-1999)
Cell Biology Ad Hoc Search Committee (1999)
Strategic Planning Committee (1998, 2000-present)
MCB Executive Committee (2002-2004, 2008-2013)
Tenure and Promotion Committee (2003-present)
Head, Cell Biology Search Committee (2004-2005)
Review Committee for Biochemistry (Spring 2005)
Confocal Facility Committee Chair (2007- 2014)
Light Microscopy Facility Committee (2008-2009)
Promotion and Tenure Committee (2015-present)
Courses and Curriculum Committee (2016-2017)
MCB Strategic Advisory Committee (2017-present)

Beckman:

Computer Visualization Committee (1989-1994)

College of LAS

Chair, 5-year Review Committee for School of Chemical Sciences Director (2017, Sp)

Campus:

Electron Microscopy Advisory Committee (1990-1991, 1993-1995)

Chairman, CEM Review Committee (1995)

Biophysics Training Grant Advisory Committee (1992-1995)

Campus Research Board Reviewer

School of Life Sciences Reorganization Committee (1996)

Advisory Committee of Fluorescence Dynamics Laboratory, NIH Regional Resource (1999-present)

Cell as a Micromachine working group (2003-2004)

Review Committee for MCB Director (elected departmental representative) (2005)

University Scholars Award Committee (2006)

Chair, Graduate College Doctoral Candidacy and Tuition Committee (12/13-4/14)

Campus Senate departmental representative (8/16-present)

Off-Campus Activities

Program Committee for American Society for Cell Biology 2011 Meeting

Reviewer: BBRC, Biochemistry, Bioimaging, Biophysical Journal, Cell, Cell Reports, Chromosoma, Chromosome Research, Current Biology, Current Opinion in Cell Biology, Developmental Cell, EMBO, EMBO Reports, eLife, Epigenetics and Chromatin, Experimental Cell Research, Gene, Genes and Chromosomes, Genes and Development, Genome Biology, IEEE Transactions in Biomedical Engineering, Journal of Biological Structure, Journal Biomedical Optics, Journal of Biomolecular Structure and Dynamics, Journal of Cell Biology, Journal of Cell Science, Journal of Cellular Biochemistry, Journal of Histochemistry and Cytochemistry, Journal of Structural Biology, JOVE, Microbiology and Molecular Biology Reviews, Molecular and Cellular Biology, Molecular Biology of the Cell, Molecular Cell, Nature, Nature Communications, Nature Genetics, Nature Cell Biology, Nature Methods, Nucleic Acid Research, Nucleus, Physics Review E, PLOS Biology, PLOS Genetics, PNAS, RNA, Science, Trends in Cell Biology

Reviewer: NIH Special Review Section, 1990, 1994
NIH Reviewer, Special Genetics Study Section, 1991
NIH Reviewer, Shared Instrumentation Special Study Section, 1993-1994
NIH Special Reviewer, Molecular Cytology Study Section, 1994, 1995
NIH Site Visit member, Shared Instrument Study Section, 1994
NIH Special Reviewer, Molecular Biology Study Section, 1995
NSF Panel Member, Cellular Organization, 1995
NSF Panel Member, Cellular Organization, 1996 (declined)
NIH Reviewer, Shared Instrumentation Special Study Section, 1997 (declined)

NIH Reviewer, Postdoctoral Fellowship, Molecular Cytology Study Section, 1997
(declined)
NIH, Site visit, Visualization of Biological Complexity Resource, ZRG1 SSSI 03S
NIH, Special Emphasis Panel ZRG1 CDF-3 (01)
National Science Foundation, Cell Biology Panel (1998)
NIH CDF-2 study section, ad hoc 10/02, 6/04
NIH NCSD, ad hoc 2/12
United States-Isreal Binational Science Foundation
Human Frontier Science Program
The Wellcome Trust
Alberta Heritage Foundation
NOW, Aard- en Levenswetenschappen, From Molecule to Organism ALW (Dutch
grant review) (2005-2006)
Austrian Science Fund (2005-2006)
NIH T01 and Challenge grant mail reviewer, 2009
NIH T01 grant mail reviewer 2010, 2013
Medical Research Council
Janiella Farms Research Campus Project Team Review Panel, June 2012
NIH NCSD study section member (7/2014-6/2018)
Natural Sciences and Engineering Research Council, Canada

Editor: Journal of Cell Biology, 8/99- 12/08
Chromosome Research, 1/00- 2003
Epigenetics and Chromatin, 4/08-present
Nucleus, 2008-present
Current Opinion in Cell Biology, 2008-present
Current Biology, 2014-present

NIH 4D Nucleome Steering Committee 10/2015- present
NIH 4D Nucleome Steering Committee Co-chair 2016-present
NIH 4D Nucleome NOFIC Steering Committee member 10/2015-present

Member of "Faculty of 1000"

Invited Talks:

1. 12th International Congress for Electron, Microscopy, Seattle, Washington, Aug. 1990
2. Congress for Electron Microscopy, 1991
3. Weiss Center for Research, Geisinger Clinic, 5/91
4. Northwestern University, 1/92
5. Northern Illinois University, 3/92
6. ASCB 1994 meeting, Minisymposium speaker
7. Workshop, Joint Histochemical Society - Microscopy Society of America Meeting, 1995
8. Discussion leader, Gordon Conference, Biological Structure and Gene Expression, 1995

9. Northwestern University, 3/96
10. Bowling Green State University, 4/96
11. Stony Brook University, 4/96
12. Cambridge Symposia, Nuclear Structure-Gene Expression Interrelationships, 5/96
13. Scripps Research Institute, 6/96
14. NATO Advanced Study Institute, Genome Structure and Function, 6/96
15. Session Chair, Keystone Symposia, Functional Organization of the Nucleus, 2/97
16. Ringberg Castle, Germany, Electron Tomography Workshop, 3/97
17. University of Amsterdam, E.C. Slater Institute, 3/97
18. Gordon Conference, Biological Structure and Gene Expression, 3/97
19. International Society of Analytical Cytology, 3/98
20. Keystone Symposia, Epigenetic Regulation of Gene Expression, 4/98
21. University of Iowa, Genetics Program, 4/98
22. British Society of Cell Biology, 4/98 (declined)
23. Fred Hutchison Cancer Research Center, 5/98
24. Gordon Conference, Nucleic Acids, 6/98
25. Gordon Conference, Molecular Cytogenetics, 7/98 (declined)
26. CSHL Meeting, Discussion Leader, Dynamic Organization of Nuclear Function, 10/98
27. Princeton University, Molecular Biology Department, 11/98
28. National Institutes of Health, 11/98
29. ASCB 1998 meeting, Special Interest Subgroup, 12/98
30. University of Wisconsin, Madison, Pharmacology Department, 1/99
31. Syracuse University, Biochemistry and Molecular Biology Department, 4/99
32. 6th Congress, European Society for Analytical Cellular Pathology, Heidelberg, 4/99 (declined)
33. FASEB Summer Research Conference, Chromatin and Transcription, 7/99
34. Gordon Conference, Red Cell, 7/99 (declined)
35. EMBO Workshop, The Functional Organization of the Cell Nucleus, 9/99
36. Pennsylvania State University, Department of Biochemistry and Molecular Biology, 9/99
37. Iowa State University, Molecular, Cellular, and Developmental Biology program, 10/99
38. University of California, Irvine, Department of Biological Chemistry, 1/00
39. University of Virginia, Department of Biochemistry and Molecular Genetics, 1/00
40. Keystone Symposia, Chromatin Structure and Function, 2/00
41. Cold Spring Harbor Laboratory, 3/00
42. German Society of Human Genetics, 3/00 (declined)
43. Northwestern University, Department of Cell and Molecular Biology, 3/00
44. Gordon Conference, Chromatin Structure and Function, 7/00
45. DNA and Chromosomes, Corsica, 8/00
46. XIth International Congress of Histochemistry and Cytochemistry, York, England, 9/00 (declined)
47. UTSW, Departments of Developmental and Molecular Biology, 10/00
48. University of Chicago, Department of Cell Biology, 1/01
49. Southern Illinois University, Department of Biochemistry, 2/01
50. DNA Repair Workshop, Noordwijkerhout, the Netherlands, 2/01 declined
51. DIMACS/PMMB/MBBC Workshop on DNA Sequence and Topology, Rutgers, 4/01
52. Workshop, Regulation of Chromatin Functions, Madrid, 5/01
53. Massachusetts General Hospital, Cutaneous Biology Research Center, 6/01
54. Workshop on The Nuclear Envelope And Disease, National Cancer Institute, 6/01, declined

55. FASEB Conference, Nuclear Structure and Cancer, 7/01 declined
56. John Innes Symposium, Chromosome Dynamics and Expression, Norwich, 9/01
57. Understanding chromosome behaviour: prospects for constructing chromosome-based vectors for gene therapy, European Science Foundation Workshop, Munich, 9/01 (declined)
58. Genes and Chromosomes, Palm Beach, 10/01
59. Albert Einstein Medical College, Department of Cell Biology, 10/01
60. Genomics meets Nanoscience, Jackson Laboratory, Bar Harbor, ME, 10/01 (declined)
61. The Johns Hopkins University, Department of Cell Biology, 12/01
62. Leidse Genetische Colloquia, Leiden University Medical Center, Spring 2002 (declined)
63. DNA in Chromatin, International Workshop, Plenary Lecture, Arcachon, France, 3/02 (declined)
64. University of Virginia Medical School, Department of Biochemistry and Molecular Genetics, 3/7/02
65. Institute Curie, 6/3/02
66. Netherlands Cancer Institute, Amsterdam, 6/02 (declined)
67. Workshop: The dynamic nucleus, Imperial College, London, 6/02
68. Gordon Conference, Chromatin Structure and Function, Tilton, NH, 7/02
69. Session Chair, Nuclear Structure and Function, 15th International Congress of Electron Microscopy, Durban, South Africa, 9/02 (declined)
70. Nanogenomics, Jackson Laboratory, 10/02, declined
71. University of Massachusetts, Amherst (declined)
72. UCSF, Department of Biochemistry and Biophysics, 1/03
73. Keystone Meeting, Dynamics of Cellular Organization, 2/03
74. AAAS Meeting, Symposium, "The 'New' Nucleus, Mothership of the Human Genome", 3/03
75. Third International Symposium on the Biology of the Eukaryotic Nucleus, organized by National Institute of Child Health and Human Development, 3/03
76. Nuclear Structure and Cancer, FASEB meeting, 7/03 (declined)
77. Nanogenomics, Jackson Laboratory, 10/03
78. Cold Spring Harbor Laboratory, Instructor for Live Cell Imaging and Cytochemistry course, 10/03
79. University of Rochester, 11/03
80. University of Illinois, Chicago, 2/04
81. Predictive Oncology and Intervention Strategies, Plenary Session on Cancer Cell Structure, Nice, France, 2/04 (declined)
82. The Johns Hopkins University, Department of Biochemistry, Invited speaker for graduate course, The Nucleus, spring 04, declined
83. Cell Division and Chromosome Symposia, Academia Sinica, Taipei, Taiwan, 7/04
84. 15th International Chromosome Conference, London, 9/04
85. Purdue University, Department of Biochemistry, 11/04
86. Osaka University, 10/04
87. Nano and Visual Biology of Chromosome Dynamics Symposium, Kyoto, 10/04
88. University of Florida, Gainesville, Department of Biochemistry, 4/05
89. FASEB Summer Course on Nuclear Structure and Cancer, Principal Speaker, 7/05 (declined)
90. University of Munich, Department of Molecular Biology, 9/05
91. UIUC, Department of Physics, Biophysics Seminar Series, 10/05
92. EMBO Conference on Nuclear Structure and Dynamics, Montpellier, France, 9/05
93. Northwestern Medical School, Department of Cell Biology, 10/05

94. Banbury Conference on “The Intracellular Molecular Environment”, CSHL, 11/05
95. Cornell University, Department of Molecular Genetics and Biochemistry, 11/05
96. Iowa State University, Department of Biochemistry, Biophysics, and Molecular Biology, 3/06
97. UIUC, Institute of Genomics Biology, Advanced Proteomics Theme, 3/06
98. EMBO Workshop “Functional Organization of the Cell Nucleus”, Prague, 5/06
99. Chromatin Structure and Function Gordon Conference, Ill Ciocco, Italy, 5/06
100. Yale University, MCDB Program, 11/06
101. Int. Symp. Functional Organization of the Nucleus, Awaji, Japan, 1/07
102. Colorado State University, Department of Biochemistry & Molecular Biology, 2/5/07
103. UCLA, Institute of Molecular Biology, 2/22/07
104. FASEB Meeting, Nuclear Structure and Cancer, Saxtons River, Vermont, 6/07
105. FEBS Congress, Vienna, Austria, 7/07
106. EMBO meeting on Nuclear Structure and Dynamics, Montpellier, France, 9/07
107. FASEB Meeting, Nuclear Structure and Cancer, Saxtons River, Vermont, 6/07
108. FEBS Congress, Vienna, Austria, 7/07 (cancelled due to family emergency)
109. EMBO meeting on Nuclear Structure and Dynamics, Montpellier, France, 9/07
110. University of Colorado, Denver, Department of Pharmacology, 2/11/08
111. University of Alberta, Edmonton, Department of Oncology, 2/15/08
112. Friedrich Meischer Institute for Biomedical Research, Basel, Switzerland, 3/27/08
113. University of Munich, Munich, Germany, 4/1/08
114. CNRS, Institute of Human Genetics, Institute of Molecular Genetics, Montpellier, France, 4/3/08-4/4/08
115. London Research Institute Symposium on Chromosome Biology, London, England, 5/08
116. Emory University, Biology Department, 11/08
117. Higher Order Genome Organization, The University of Edinburgh, UK 4/09
118. Netherlands Institute for Systems Biology Workshop on Epigenetic Gene Control and Engineered Cell Systems, University of Amsterdam, 4/09
119. Department of Biochemistry and Molecular Biology Annual Symposium, University of Virginia, 5/09
120. University of Chicago, Molecular and Cell Biology Training Grant Seminar, 5/09
121. 17th Jerusalem Fall School in Life Sciences, Nuclear Organization and Dynamics, Hebrew University, 9/09
122. Indiana University, Medical Science Program Seminar, 11/16/09
123. Nuclear Organization Workshop, Keynote Speaker, Curie Institute, Paris, 11/09
124. Janelia Imaging Transcription Conference, Janelia Farm Campus, HHMI, 3/10
125. 75th Symposium on Quantitative Biology, The Nucleus, CSHL, 6/10
126. The Jackson Laboratory, Bar Harbor, 11/4//10
127. Special Interest Subgroup, Synergistic Advances to Study Gene Expression and Next-Gen Imaging, ASCB Annual Meeting, 12/11/10
128. Keynote Speaker, Northwestern University 1st Annual Genetics and Genomics Cluster Symposium, 1/20/10
129. NIH Center of Excellence in Chromosome Biology and Laboratory of Receptor Biology Seminar, 2/23/11
130. University of California, Santa Cruz, Department of Molecular, Cell, and Developmental Biology, 3/7/11
131. University of North Carolina, Chapel Hill, Department of Biology, 3/29/11
132. Moscow State University, Belozersky Institute of Physico-Chemical Biology, 4/18/11

133. EMBO Workshop on Chromatin and Nuclear Structure, Prague, 4/10/11
134. Carnegie Institute, Department of Embryology, Baltimore, 5/9/11
135. Chromatin and Nuclear Organization Minisymposium, Northwestern University, 5/23/11
136. Chromatin and Epigenetic Regulation of Transcription, Penn State University, 6/22/11
137. Wenner-Gren Foundations International Symposium, "Actin and actin associated proteins from gene to polysomes", Stockholm, 9/7/11
138. Yale University, Department of Genetics, 3/6/12
139. Beijing University, Department of Cell Biology, 5/12 (cancelled due to illness)
140. University of Massachusetts Medical School, Worcester, Department of Cell Biology, 2/13
141. German Society of Cell Biology, Plenary Session, 3/13
142. H Symposium, The Dynamic Nucleus of the Cell: Chromatin, Chromosome and Disease Northwestern University, 6/13
143. FEBS 2013 Conference, Genome / Nucleus Symposium, St. Petersburg, Russia, 7/13
144. 19th International Chromosome Conference, Bologna, Italy, 9/13
145. Northwestern University School of Medicine, Department of Cell and Molecular Biology, 1/14
146. Florida University School of Medicine, Department of Anatomy and Cell Biology, 1/14
147. Microscopy and Microanalysis Meeting, Nuclear Architecture and Chromatin Structure Session, Hartford, 7/14
148. CSHL Nuclear Organization and Function Meeting, 8/14
149. Genome Organization and Cell Fate Meeting, University of Hyderabad (UH), India, 12/14
150. Nucleoskeletal Dynamics in Signaling and Gene Expression Special Interest Symposium, ASCB meeting, Philadelphia, 12/14
151. National Institute of Genetics, Japan, 4/2015 (plus two lectures)
152. Department of Biology, National Taiwan University, 4/2015
153. Nuclear Dynamics: Design (and) Principles Symposium, Stockholm, 8/15
154. 4D Nucleome Kickoff Meeting, NIH, 10/15
155. Protein Folding Dynamics Gordon Research Conference, "Folding the Chromosome" Session, Galveston, Texas, 1/16
156. Department of Biological Sciences, Florida State University, 4/16
157. National Institute of Genetics, Japan, 11/16
158. MIT Department of Chemistry, Physical Chemistry seminar series, 12/16
159. Netherlands Cancer Institute, 6/17
160. Abcam Epigenomics Symposium, 6/17
161. University of Illinois, Chicago, Department of Microbiology and Immunology, 9/17
162. Stockholm University, Graduate Course Lecture and also Departmental Seminar, Department of Molecular Bioscience, Wenner Gren Institute, 10/31/17
163. Washington University in St. Louis, Department of Biochemistry, 11/21/17
164. Northwestern University Medical School, Cancer Epigenetics and Nuclear Organization Minisymposium, 2/18
165. Duke University, Developmental and Stem Cell Biology Colloquium, 4/18
166. Midwest Chromatin Meeting, Purdue University, invited talk, 6/18
167. EMBO/EMBL Symposium, Principles of Chromosome Structure and Function, Heidelberg, 9/18
168. Penn State University, Department of Biochemistry and Molecular Biology, 10/18
169. 4DN Annual Meeting, San Diego, 12/18
170. CPLC, Department of Physics, UIUC, 1/19

- 171. Baylor Medical College, Imaging-based Single Cell Analytics: Applications for Cancer Biology and Therapeutics, 2/25/19
- 172. Keystone Meeting, 3D Genome: Gene Regulation and Disease, 3/19
- 173. Gordon Conference, Hong Kong, Genome Organization, 8/19
- 174. NIH Seminar, 11/19
- 175. 4DN/ASCB joint meeting, 12/19
- 176. EMBL Symposium, The 4D Nucleome, 3/20

Featured Talks:

Nuclear Organization Workshop, Keynote Speaker, Curie Institute, Paris, 11/09
 University of Chicago, Molecular and Cell Biology Training Grant Seminar, 5/09
 Keynote Speaker, Northwestern University 1st Annual Genetics and Genomics Cluster Symposium, 1/20/10
 Keynote Speaker, Abcam Epigenomics Symposium, Seattle, 6/17

Symposia:

Co-organizer, EM Tomography in Biology
 Microscopy Society of America Meeting, 1995

Co-organizer, 3-D Structural Function of Cells and Organelles,
 Microscopy Society of America Meeting, 1997

Cold Spring Harbor Laboratory Meeting, Dynamic Organization of Nuclear
 Function, Session Leader, Genome Organization and Transcription, 9/00

Co-chair, Minisymposium on Nuclear Structure and Function,
 ASCB meeting, 2001

Session Chair, Dynamics of Nuclear Structure, Third International Symposium
 on the Biology of the Eukaryotic Nucleus, organized by National Institute of
 Child Health and Human Development, 3/03

Session Chair, Dynamics of Nuclear Structure and Function, at Nuclear Structure
 and Cancer, FASEB meeting, 7/03 (declined)

Session Chair, Gene Expression and Genome Function, at CSHL meeting,
 Dynamic Organization of Nuclear Function, 9/08

Session Chair, Chromatin and Chromosome Structure, 17th International
 Chromosome Congress, Boone, NC, 7/09

Co-Chair, Minisymposium on Chromatin Organization and Dynamics, American
 Society Cell Biology, San Diego, CA, 12/2009

Chair, “Spatial Gene Regulation” Session, Janelia Farm meeting, Imaging transcription in living cells, 3/10

Symposium Chair, ASCB 2011 meeting, 12/11

Discussion Leader, CSHL Nuclear Organization and Function Meeting, 8/14

Society Memberships: AAAS, ASCB

Community: Coach, U9 Boys Classic, Little Illini Soccer Club (1997-1998)
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Publications:

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Patents:

Patent (US 9,273,324 B2): Improved Recombinant Gene Expression (3/1/16)