

CURRICULUM VITAE

Shelley L Berger, PhD

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Professional Experience and Faculty appointments

Founding Director (09-present), Epigenetics Program, University of Pennsylvania School of Medicine
Professor (09-present) University of Pennsylvania, Departments of Cell & Developmental Biology; Genetics; Biology
Professor (03-09), Gene Expression and Regulation Program, Wistar Institute
Assistant Program Leader, Gene Expression and Regulation Program (98-09), Wistar Institute
Associate Professor (98-02), Wistar Institute
Assistant Professor (93-97), Wistar Institute
Adjunct Professor, Department of Biology, Penn School of Arts and Sciences (94-09)
Adjunct Professor, Department of Genetics, Penn School of Medicine (94-09)

Education, Research and Post-graduate training

Postdoctoral fellow (89-92), Department of Biology, MIT (mentor: L Guarente)
Postdoctoral fellow (87-88), Department of Biochemistry and Molecular Biology, Harvard University (mentor: M Meselson)
Graduate student (82-87), Department of Biochemistry, University of Michigan (mentor: WR Folk)
Research associate (80-81), Department of Biology, University of Michigan (with LI Grossman)
University of Michigan, Ann Arbor; Ph.D.
University of Michigan, Ann Arbor; B.S. (Biology)

Fellowships, Awards, Honors

Elected fellow, American Academy of Arts and Sciences (2013)
Elected member, Institute of Medicine of the National Academies of Sciences (2012)
Elected fellow, American Association for the Advancement of Science (2012)
Daniel S. Och Endowed Chair, University of Pennsylvania (09-present)
PIK Professorship (“Penn Integrates Knowledge”), Presidential appointment, University of Pennsylvania (09-present)
Hilary Koprowski Endowed Professorship, Wistar Institute (03-09)
HHMI Collaborative Research Award (09-13; 13-17)
Ellison Foundation Senior Scholar Award (10-13)
Keynote and Honorary lectures:
Camran Nezhat, MD Lectureship in Innovations in Medicine, Am Society Reproductive Medicine, Baltimore (15)
“Big Data” Symposium, Center for Bioinformatics, Austin, Texas (15)
Robert E. Olson Memorial Lecture, St. Louis University (15)
NIH Director’s Series, National Institute of Aging Florence Mahoney Memorial Lecture, Bethesda (14)
Lineberger Lecture, UNC Cancer Epigenetics Symposium (14)
Wellcome Trust Conference, Baltimore (12)
CRG Epigenetics Conference, Barcelona, Spain (11)
UNC Chromatin Conference, Chapel Hill, NC (10)
WABI Bioinformatics Conference, Penn, Philadelphia (09)
CSBMCB Chromatin Meeting, Banff, Alberta (08)
CMB symposium, University of Michigan, Ann Arbor (06)
NIH Shannon Award (98-99)
ACS Junior Faculty Research Award (94-97)
Charles King Trust postdoctoral fellowship (90-92)
NIH postdoctoral fellowship (88-90)
Arthritis Foundation postdoctoral fellowship (87)
NIH predoctoral fellowship (82-85)

Editorial Boards and Reviewing

Editorial Board, *Aging Cell* (13-present)
Nature Scientific Reports Editorial Advisory Panel (10-present)
Editorial Board, *Epigenomics* (08-present)

Editorial Board, *Epigenetics and Chromatin*, on-line open-access journal (08-present)
Senior Editor, *Molecular and Cellular Biology* (03-08)
Editorial Board Member, *Molecular and Cellular Biology* (99-03)
Reviewer for: *Science*, *Cell*, *Molecular Cell*, *Nature*, *Nature Genetics*, *Nature Cell Biology*, *Nature Reviews*, *Genes & Develop*,
Mol Cell Biol, *EMBO*, *Genetics*, *Curr Biol*, *PNAS*
Member of “Faculty of 1000” on-line review

Professional Activities

Founding Director, Epigenetics Program, University of Pennsylvania School of Medicine (09-present)
Executive Committee Member, Institute of Regenerative Medicine, Penn (08-14)
Member, AACR “Human Epigenome” AHEAD Task Force (06-10)
Member, Nomenclature Committee for histone modifying enzymes (06-07)
Consultant, Cell Centric (08-10)
Consultant, Lake Placid Biologicals (08)
Consultant, Diogenode (05)
Consultant, UChicago NIH Program project (03)
Consultant, Smithkline Beecham Pharmaceutical (93-94)

Grant, Departmental Review and Advisory Panels

Stand Up to Cancer Review Board (15-present)
European Research Council Grant evaluation panel, Brussels (15-16)
Max-Planck Institute for Immunology and Epigenetics, Scientific Advisory Board (14-19)
CPRIT Basic Cancer Research Scientific Review Board, TX (14-present)
Univ of Penn Perelman School of Medicine Committee on Prestigious Awards and Honors, advisory group (12-present)
Univ of Penn Tom Kadesch Prize in Genetics, selection committee (11-present)
Novartis Epigenetics, Scientific Advisory Committee, Cambridge, MA (10)
Gladstone Institute, Scientific Advisory Board, San Francisco (06-12)
IGBMC Institute, Scientific Advisory Board, Strasbourg, France (05-10)
Chroma Scientifics, Scientific Advisory Board, Cambridge, UK (00-04)
St. Judes Department of Biochemistry, site review panel (04)
NIH NICHD, site review panel (04; 08; 11)
NIH Tenure committee (04); Penn Tenure Committee (04;06); UMass Tenure Committee (06)
Wellcome Trust/Cancer UK Institute, Cambridge UK site visit (03)
NIH, CAMP grant Panel (16)
NIH, MGB grant Panel (12)
NIH, Chair, review P01 for NIA (10)
NIH, Postdoctoral Fellowship review panel; Genes, Genomics, Genetics (07)
NIH, CDF2 panel, Molecular Cytology, permanent member (99-03)
NSF, Bio/MCB panel, permanent member (97-99)
NSF, Bio/MCB panel, outside reviewer (96-97, 99-present)
ACS, Proteins and Nucleic Acids, ad hoc reviewer (94)

Meeting Organization

Organizer (with J Mueller and Y Shi) CSH “Chromatin and Epigenetics” (16)
Organizer (with A Brunet and D Sabatini) Keystone “Metabolism, Aging and Epigenetics” (16)
Session Chair, AACR “Cancer Epigenetics” (16)
Organizer (with G Blobel, K Kaestner, and M Lazar), UPenn Symposium on “Epigenetics and Metabolism” (15)
Organizer (with T Jenuwein) Keystone “Chromatin Mechanisms and Physiology” (14)
Organizer (with R Kingston and J Mueller) CSH “Chromatin and Epigenetics” (14)
Organizer (with A Brunet), NIH, Geroscience summit, Epigenetics of Aging section (13)
Organizer (with K Zaret) UPenn Symposium on “Epigenetics of Cancer” (13)
Organizer (with G Blobel and K Zaret) UPenn Symposium on “Epigenetic Memory in Cells and Organisms” (13)
Organizer (with R Kingston and J Mueller) CSH “Chromatin and Epigenetics” (12)
Organizer (with T Kouzarides), FASEB, “Epigenetics, Chromatin, and Transcription” (11)
Organizer (with C Simon, L Chodosh), UPenn Symposium on “Cancer Epigenetics” (11)
Organizer (with B Johnson, R Marmorstein, P Adams), UPenn Symposium on “Aging and Epigenetics” (11)
Organizer (with K Zaret), UPenn Symposium on “Epigenetics and Stem Cell Biology” (10)
Organizer (with R Shiekhattar and A Shilatifard) Banbury/CSH, “Epigenetics: Mechanisms and Regulation” (08)
Organizer (with H Stunnenberg, J Mueller, N Hernandez), EMBL Transcription Meeting, Heidelberg, Germany (08)
Session Organizer, International Congress of Genetics, “Chromatin and Epigenetic Mechanisms”, Berlin, Germany (08)

Chair, ESRF Workshop, “Histone Modifications and Cancer”, Schering, Berlin (05)
 Organizer (with T Kouzarides), Keystone Conference, “Histone Modification Pathways” (05)
 Member, Keystone Conference Biochemistry planning committee (05)
 Organizer, Wistar Institute Symposium “Chromatin, Transcription and Epigenetics” (04)
 Organizer (with J Workman), Keystone Conference, “Enzymology of Transcription and Chromatin” (03)

Federal and Foundation Grants

Current

NIH/NCI	R01 CA 78831 (PI: SL Berger)	2014 - 2019 (years 15-20)
	Epigenetic regulation by tumor suppressor p53	
NIH/NIA	P01 AG 031862 (PI: SL Berger; PL: SL Berger)	2013 - 2018 (years 5-10)
	Epigenetics of Aging and Age-Associated Diseases; Project 2: Epigenetics of Aging in <i>S. cerevisiae</i>	
NIH/NINDS	R01 NS 078283-01 (PIs: SL Berger, N Bonini and FB Johnson)	2012 – 2017 (years 1-5)
	Epigenetic Changes Associated with Neurodegenerative Diseases	
HHMI Collaborative Innovator Award)	(PI: D Reinberg; PL: SL Berger)	2012 - 2016 (years 4-8)
	Epigenetics of Behavior and Longevity in Ants	
NIH/NIGMS	R01 GM 055360-14A1 (PI: SL Berger)	2012 - 2016 (years 14-19)
	Chromatin Regulatory Mechanisms in Eukaryotic Gametogenesis	
NIH/NICHD	P50-HD068157 (PI: M Bartolomei/C Coutifaris; PL: SL Berger)	2011 – 2016 (years 1-5)
	Penn Center for Study of Epigenetics in Reproduction	
	Project 3: Epigenetic Modification during Normal and Abnormal Mammalian Sperm Development	

Past

Ellison Foundation Senior Scholar in Aging 2011-2014 (PI: SL Berger)
 NIH NS PO1 1995-2012 (PI: N Fraser; PL: SL Berger): Mechanisms of HSV-1 Reactivation
 NIH 2004-2008 (Roadmap Center Grant; PI: J Boeke; PL: SL Berger): Network of Histone Lysine Modifications
 NSF 1994-2005: Histone Acetylation in Yeast (PI: SL Berger)
 ACS research grant 1997-2000: DNA-PK Regulation of Human Gcn5 Acetylation (PI: SL Berger)
 ACS Junior Faculty Award 1994-1997 (PI: SL Berger)
 Council for Tobacco Research 1995-1998: Mechanisms of p53-mediated Gene Activation (PIs: SL Berger and T Halazonetis)
 Smithkline Beecham Pharmaceuticals 1995-1996: Mechanisms of HSV-1 Reactivation from Latency (PI: SL Berger)

Research Interests

Epigenetics and chromatin structure/function in genomic regulation
 Post-translational modifications of histones and transcription factors
 Biological problems: transcription, cancer, senescence and aging, behavioral epigenetics, gametogenesis.

Publications and Invited Reviews (reverse chronological order; key papers*)

- *Simola DF, Graham RJ, Brady CM, Enzmann BL, Desplan C, Ray A, Zweibel LJ, Bonasio R, Reinberg D, Liebig J, and Berger SL. (2016) Epigenetic (re)programming of caste-specific behavior in the ant *Camponotus floridanus*. **Science**. 351:aac6633.
- Capell B, Drake AM, Zhu J, Shah PP, Dou Z, Dorsey J, Simola DF, Donahue G, Sammons M, Rai TS, Natale C, Ridky TW, Adams PD, and Berger SL (2016) MLL1 is essential for the senescence-associated secretory phenotype. **Genes & Development**, 30: 321-6.
- *Dou Z, Xu C, Donahue G, Shimi T, Pan JA, Zhu J, Ivanov A, Capell BC, Drake AM, Shah PP, Catanzaro JM, Ricketts MD, Lamark T, Adam SA, Marmorstein R, Zong WX, Johansen T, Goldman RD, Adams PD, and Berger SL. (2015) Autophagy mediates degradation of nuclear lamina. **Nature**. 527:105-9.
- *Zhu J, Sammons MA, Donahue G, Dou Z, Vedadi M, Getlik M, Barsyte-Lovejoy D, Al-Awar R, Katona BW, Shilatifard A, Huang J Hua X, Arrowsmith CH, and Berger SL. (2015) Prevalent p53 gain-of-function mutants co-opt epigenetic pathways to drive cancer growth. **Nature**. 525:206-11.
- *Sen P, Dang W, Dorsey J, Donahue G, Cioa K, Dai J, Perry R, Lee JY, Wagner J, Gregory B, Kaeberlein M, Kennedy BK, Boeke J, and Berger SL. (2015) H3K36 methylation promotes longevity by enhancing transcriptional fidelity. **Genes & Development**. 29:1362-76.
- *Hu, J, Donahue G, Dorsey J, Govin J, Yuan Z, Garcia BA, Shah PP, Berger SL. (2015) Histone H4 Lysine 44 acetylation facilitates chromatin accessibility during meiosis. **Cell Reports**. 13:1772-1780.
- *Sammons MA, Zhu J, Drake AM, Berger SL. (2015) TP53 engagement with the genome occurs in distinct local chromatin environments via pioneer factor activity. **Genome Research**. 25:179-88.
- *Bryant JM, Donahue G, Wang X, Meyer-Ficca M, Luense LJ, Weller AH, Bartolomei MS, Blobel GA, Meyer RG, Garcia BA, Berger SL. (2015) Characterization of BRD4 during mammalian postmeiotic sperm development. **Mol Cell Biol**. 35:1433-48.

9. Berger SL, Sassone-Corsi P. (2015) Metabolic Signaling to Chromatin. **Cold Spring Harb Perspect Biol.**
10. Dikovskaya D, Cole JJ, Mason SM, Nixon C, Karim SA, McGarry L, Clark W, Hewitt RN, Sammons MA, Zhu J, Athineos D, Leach JD, Marchesi F, van Tuyn J, Tait SW, Brock C, Morton JP, Wu H, Berger SL, Blyth K, Adams PD. (2015) Mitotic Stress Is an Integral Part of the Oncogene-Induced Senescence Program that Promotes Multinucleation and Cell Cycle Arrest. **Cell Reports.** 12:1483-96.
11. Sharma KR, Enzmann BL, Schmidt Y, Moore D, Jones GR, Parker J, Berger SL, Reinberg D, Zwiebel LJ, Breit B, Liebig J, Ray A. (2015) Cuticular Hydrocarbon Pheromones for Social Behavior and Their Coding in the Ant Antenna. **Cell Reports.** 12:1261-71.
12. Yan H, Bonasio R, Simola DF, Liebig J, Berger SL, Reinberg D. (2015) DNA methylation in social insects: how epigenetics can control behavior and longevity. **Annu Rev Entomol.** 60:435-52. doi: 10.1146/annurev-ento-010814-020803. Epub 2014 Oct 17.
13. Zhou X, Rokas A, Berger SL, Liebig J, Ray A, Zwiebel LJ. (2015) Chemoreceptor Evolution in Hymenoptera and Its Implications for the Evolution of Eusociality. **Genome Biol Evol.** 7:2407-16.
14. McNeal AS, Liu K, Nakhate V, Natale CA, Duperret EK, Capell BC, Dentchev T, Berger SL, Herlyn M, Seykora JT, Ridky TW. (2015) CDKN2B Loss Promotes Progression from Benign Melanocytic Nevus to Melanoma. **Cancer Discov.** 5:1072-85.
15. Butin-Israeli V, Adam SA, Jain N, Otte GL, Neems D, Wiesmüller L, Berger SL, Goldman RD. (2015) Role of lamin b1 in chromatin instability. **Mol Cell Biol.** 35:884-98.
16. Qin J, Rajaratnam R, Feng L, Salami J, Barber-Rotenberg JS, Domsic J, Reyes-Urbe P, Liu H, Dang W, Berger SL, Villanueva J, Meggers E, Marmorstein R. (2015) Development of organometallic S6K1 inhibitors. **J Med Chem.** 58:305-14.
17. *Dang W, Sutphin G, Dorsey J, Otte G, Cao, K, Perry R, Wanat J, Gregory B, Vermeulen M, Shiekhatter R, Johnson, FB, Kennedy BK, Kaerberlein M, and Berger SL. (2014) Inactivation of yeast Isw2 chromatin remodeling enzyme mimics longevity effect of calorie restriction via induction of genotoxic stress response pathways. **Cell Metabolism,** 19:952-66.
18. Kennedy BK, **Berger SL**, Brunet A, Campisi J, Cuervo AM, Epel ES, Franceschi C, Lithgow GJ, Morimoto RI, Pessin JE, Rando TA, Richardson A, Schadt EE, Wyss-Coray T, Sierra F. (2014) Geroscience: linking aging to chronic disease. **Cell,** 159:709-13.
19. *Mews P, Zee BM, Liu S, Donahue G, Garcia BA, Berger SL. (2014) Histone methylation has dynamics distinct from those of histone acetylation in cell cycle reentry from quiescence. **Mol Cell Biol.** 34:3968-80.
20. Yan H, Simola DF, Bonasio R, Liebig J, Berger SL, Reinberg D. (2014) Eusocial insects as emerging models for behavioural epigenetics. **Nat Rev Genetics.** 2014 Oct;15(10):677-88.
21. McCormick MA, Mason AG, Guyenet SJ, Dang W, Garza RM, Ting MK, Moller RM, Berger SL, Kaerberlein M, Pillus L, La Spada AR, Kennedy BK. (2014) The SAGA Histone Deubiquitinase Module Controls Yeast Replicative Lifespan via Sir2 Interaction. **Cell Rep.** 8:477-86.
22. Lin S, Wein S, Gonzales-Cope M, Otte GL, Yuan ZF, Afjehi-Sadat L, Maile T, Berger SL, Rush J, Lill JR, Arnott D, Garcia BA. (2014) Stable Isotope labeled histone peptide library for histone post-translational modification and variant quantification by mass spectrometry. **Mol Cell Proteomics.** 13:2450-66.
23. Brunet A, Berger SL. (2014) Epigenetics of aging and aging-related disease. **J Gerontol A Biol Sci Med Sci.** 2014 Jun;69 Suppl 1:S17-20.
24. *Shah PP, Donahue G, Otte GL, Capell BC, Nelson DM, Cao K, Aggarwala V, Cruickshanks HA, Rai TS, McBryan T, Gregory BD, Adams PD, Berger SL. (2013) Lamin B1 depletion in senescent cells triggers large-scale changes in gene expression and the chromatin landscape. **Genes & Development** 27:1787-99.
25. *Simola DF, Ye C, Mutti N, Dolezal K, Bonasio R, Liebig J, Reinberg D, Berger SL. (2013) A chromatin link to caste identity in the carpenter ant *Camponotus floridanus*. **Genome Research,** 23:486-96.
26. Cruickshanks HA, McBryan T, Nelson DM, VanderKraats ND, Shah PA, van Tuyn J, Rai TS, Brock C, Donahue G, Dunican DS, Drotar ME, Meehan RS, Edwards JS, Berger SL, Adams PD. (2013) Senescent cells harbour features of the cancer epigenome. **Nature Cell Biology,** 15:1495-506.
27. Ivanov A, Pawlikowski J, Manoharan I, van Tuyn J, Nelson DM, Rai TS, Shah PP, Hewitt G, Korolchuk VI, Passos JF, Wu H, Berger SL, Adams PD. (2013) Lysosome-mediated processing of chromatin in senescence. **J Cell Biol.** 202:129-43.
28. Simola DF, Wissler L, Donahue G, Waterhouse RM, Helmkampf M, Roux J, Nygaard S, Glastad KM, Hagen DE, Viljakainen L, Reese JT, Hunt BG, Graur D, Elhaik E, Kriventseva EV, Wen J, Parker BJ, Cash E, Privman E, Childers CP, Muñoz-Torres MC, Boomsma JJ, Bornberg-Bauer E, Currie CR, Elsik CG, Suen G, Goodisman MA, Keller L, Liebig J, Rawls A, Reinberg D, Smith CD, Smith CR, Tsutsui N, Wurm Y, Zdobnov EM, Berger SL, Gadau J. (2013) Social insect genomes exhibit dramatic evolution in gene composition and regulation while preserving regulatory features linked to sociality. **Genome Research** 23:1235-47.
29. Bryant JM, Meyer-Ficca ML, Dang VM, Berger SL, Meyer RG. (2013) Separation of spermatogenic cell types using STA-PUT velocity sedimentation. **J Vis Exp.** Oct 9;(80). doi: 10.3791/50648.
30. Capell BC, Berger SL. (2013) Genome-wide epigenetics. **J Invest Dermatol.** 133:e9.

31. Sanchez-Macedo N, Feng J, Faubert B, Chang N, Elia A, Rushing EJ, Tsuchihara K, Bungard D, Berger SL, Jones RG, Mak TW, Zaugg K. (2013) Depletion of the novel p53-target gene carnitine palmitoyltransferase 1C delays tumor growth in the neurofibromatosis type I tumor model. **Cell Death Differ.** 20:659-68.
32. Berger SL. (2012) Transgenerational inheritance of longevity: epigenetic mysteries abound. **Cell Metabolism** 15:6-7.
33. Bryant JM, Berger SL. (2012) Low-hanging fruit: targeting Brdt in the testes. **EMBO J.** epub.
34. Lu C, Ward PS, Kapoor GS, Rohle D, Turcan S, Abdel-Wahab O, Edwards CR, Khanin R, Figueroa ME, Melnick A, Wellen KE, O'Rourke DM, Berger SL, Chan TA, Levine RL, Mellinghoff IK, Thompson CB. (2012) IDH mutation impairs histone demethylation and results in a block to cell differentiation. **Nature** [Epub ahead of print]
35. *Bryant JM, Govin J, Zhang L, Donahue G, Pugh BF, Berger SL. (2012) The linker histone plays a dual role during gametogenesis in *Saccharomyces cerevisiae*. **Mol Cell Biol.** 32:2771-83.
36. Bonasio R, Li Q, Lian J, Mutti NS, Jin L, Zhao H, Zhang P, Wen P, Xiang H, Ding Y, Jin Z, Shen SS, Wang Z, Wang W, Wang J, Berger SL, Liebig J, Zhang G, Reinberg D. (2012) Genome-wide and Caste-Specific DNA Methylomes of the Ants *Camponotus floridanus* and *Harpegnathos saltator*. **Current Biology**, 22:1755-64.
37. Zhou X, Slone JD, Rokas A, Berger SL, Liebig J, Ray A, Reinberg D, Zwiebel LJ. (2012) Phylogenetic and transcriptomic analysis of chemosensory receptors in a pair of divergent ant species reveals sex-specific signatures of odor coding. **PLoS Genet.** 8:e1002930.
38. Mallory MJ, Law MJ, Sterner DE, Berger SL, Strich R. (2012) Gcn5p-dependent acetylation induces degradation of the meiotic transcriptional repressor Ume6p. **Mol Biol Cell.** 23:1609-17.
39. Edwards CR, Dang W, Berger SL. (2011) Histone H4 Lysine 20 of *Saccharomyces cerevisiae* is monomethylated and functions in subtelomeric silencing. **Biochemistry**, 50:10473-83.
40. Lu JY, Lin YY, Sheu JC, Wu JT, Lee FJ, Chen Y, Lin MI, Chiang FT, Tai TY, Berger SL, Zhao Y, Tsai KS, Zhu H, Chuang LM, Boeke JD. (2011) Acetylation of Yeast AMPK Controls Intrinsic Aging Independently of Caloric Restriction. **Cell** 146:969-79.
41. Zaugg K, Yao Y, Reilly PT, Kannan K, Kiarash R, Mason J, Huang P, Sawyer SK, Fuerth B, Faubert B, Kalliomäki T, Elia A, Luo X, Nadeem V, Bungard D, Yalavarthi S, Growney JD, Wakeham A, Moolani Y, Silvester J, Ten AY, Bakker W, Tsuchihara K, Berger SL, Hill RP, Jones RG, Tsao M, Robinson MO, Thompson CB, Pan G, Mak TW. (2011) Carnitine palmitoyltransferase 1C promotes cell survival and tumor growth under conditions of metabolic stress. **Genes & Development**, 25:1041-51.
42. Berger SL. (2011) Cell Signaling and Transcriptional Regulation via Histone Phosphorylation. **Cold Spring Harb Symp Quant Biol.**
43. Yuan H, Rossetto D, Mellert H, Dang W, Srinivasan M, Johnson J, Hodawadekar S, Ding EC, Speicher K, Abshiru N, Perry R, Wu J, Yang C, Zheng YG, Speicher DW, Thibault P, Verreault A, Johnson FB, Berger SL, Sternglanz R, McMahon SB, Côté J, Marmorstein R. (2011) MYST protein acetyltransferase activity requires active site lysine autoacetylation. **EMBO J.** 31:58-70.
44. Shieh GS, Pan CH, Wu JH, Sun YJ, Wang CC, Hsiao WC, Lin CY, Tung L, Chang TH, Fleming AB, Hillyer C, Lo YC, Berger SL, Osley MA, Kao CF. (2011) H2B ubiquitylation is part of chromatin architecture that marks exon-intron structure in budding yeast. **BMC Genomics.** 12:627
45. Zediak VP, Wherry EJ, Berger SL. (2011) The contribution of epigenetic memory to immunologic memory. **Curr Opin Genet Dev.** 21:154-9.
46. *Zediak V, Johnnidis JB, Wherry EJ, Berger SL. (2011) Cutting Edge: Persistently open chromatin at effector gene loci in resting memory CD8+ T cells independent of transcriptional status. **J Immunology**, 186(5):2705-9.
47. Trujillo KM, Tyler RK, Ye C, Berger SL, Osley MA. (2011) A genetic and molecular toolbox for analyzing histone ubiquitylation and sumoylation in yeast. **Methods**, 54:296-303.
48. Yu Y, Zeng P, Xiong J, Liu Z, Berger SL, Merlino G. (2011) Epigenetic drugs can stimulate metastasis through enhanced expression of the pro-metastatic Ezrin gene. **PLoS One.** 2010 Sep 13;5(9):e12710.
49. *Bungard D, Fuerth BJ, Zeng PY, Faubert B, Viollet B, Mass N, Carling D, Thompson CB, Jones RG and Berger SL. (2010) Signaling kinase AMPK activates stress-promoted transcription via histone H2B phosphorylation. **Science**, 329: 1201-5.
50. *Bonasio R, Zhang G, Ye C, Mutti NS, Fang X, Qin N, Donahue G, Yang P, Li Q, Li C, Zhang P, Huang Z, *Berger SL, *Reinberg D, *Wang J, *Liebig J (2010) Genomic comparison of the ants *Camponotus floridanus* and *Harpegnathos saltator*. **Science** 329: 1068-71. * co-corresponding authors.
51. Berger SL. (2010) Keeping p53 in check: A high stakes balancing act. **Cell**, 142:17-19.
52. *Govin J, Dorsey J, Gaucher J, Rousseaux S, Khochbin S, Berger SL. (2010) Systematic screen reveals new functional dynamics of histones H3 and H4 during gametogenesis. **Genes & Development**, 24:1772-86.
53. Huang J, Dorsey J, Chikov S, Zhang X, Jenuwein T, Reinberg D and Berger SL. (2010) G9a and Glp methylate lysine 373 in the tumor suppressor p53. **J Biol Chemistry**, 285:9636-41.
54. *Govin J, Schug J, Krishnamoorthy T, Dorsey J, Khochbin S, Berger SL. (2010) Genome-wide mapping of H4 Ser-1 phosphorylation during sporulation in *S. cerevisiae*. **Nucleic Acids Research**, 38:4599-606.
55. Placek, B and Berger, SL. (2010) Chromatin dynamics during herpes simplex virus-1 lytic infection. **BBA**, 1799:223-7.

56. Yu Y, Zeng P, Xiong J, Liu Z, Berger SL, Merlino G. (2010) Epigenetic drugs can stimulate metastasis through enhanced expression of the pro-metastatic Ezrin gene. **PloS One**, 5.
57. Kozak ML, Chavez A, Dang W, Berger SL, Ashok A, Guo X and Johnson FB. (2009) Inactivation of the Sas2 histone acetyltransferase delays senescence driven by telomere dysfunction. **EMBO J**, 29:158-70.
58. Sanders BD, Jackson B, Brent M, Taylor AM, Dang W, Berger SL, Schreiber SL, Howitz K and Marmorstein R. (2009) Identification and characterization of novel sirtuin inhibitor scaffolds. **Bioorg Med Chem**, 17:7031-41.
59. *Dang W, Steffen KK, Perry R, Dorsey J, Johnson FB, Shilatifard A, Kaerberlein M, Kennedy BK, and Berger SL. (2009) Histone H4 lysine-16 acetylation regulates cellular lifespan. **Nature** 459:802-7.
60. Berger SL, Kouzarides T, Shiekhhattar R, Shilatifard A. (2009) An operational definition of epigenetics. **Genes & Development** 23:781-3.
61. Lin YY, Lu, JY, Zhang J, Walter W, Dang W, Wan J, Tao SC, Qian J, Zhao Y, Boeke JD, Berger SL, Zhu H. (2009) Protein acetylation microarray reveal NuA4 controls key metabolic target regulating gluconeogenesis. **Cell** 136:1073-84.
62. *Placek BJ, Huang J, Kent JR, Dorsey JA, Rice L, Fraser NW and Berger SL. (2009) The histone variant H3.3 regulates gene expression during lytic infection by herpes HSV-1. **J Virology**, 83:1416-21.
63. Govin J and Berger SL. (2009) Genome reprogramming during sporulation. **Intl Journal of Development**, 53:425-32.
64. Berger SL. (2008) Out of the jaws of death: Prmt5 and p53. **Nature Cell Biology**, 10:1389-90.
65. Zediak V and Berger SL. (2008) Hit and Run: Transient activation of deubiquitylase activity in a chromatin remodeling complex. **Molecular Cell**, 31:773-4.
66. Jones PA, Archer TK, Baylin SB, Beck S, Berger SL, Bernstein BE, Carpten JD, Clark SJ, Costello JF, Doerge RW, Esteller M, Feinberg AP, Gingeras TR, Greally JM, Henikoff S, Herman JG, Jackson-Grusby L, Jenuwein T, Jirtle RL, Kim YJ, Laird PW, Lim B, Martienssen R, Polyak K, Stunnenberg H, Tlsty TD, Tycko B, Ushijima T, Zhu J, Pirrotta V, Allis CD, Elgin SC, Jones PA, Martienssen R, Rine J, Wu C. (2008) Moving AHEAD with an international human epigenome project. **Nature**, 454:711-5.
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Invited lectures and international conferences (total 350; attended only)

2016

Keystone Conference, “Non-coding RNA”, Sante Fe
 Keystone Conference, “Chromatin and Epigenetics”, Keystone
 Keystone Conference, “Aging, Metabolism and Epigenetics”, Sante Fe
 ABCAM Stem Cell and Chromatin, Taormina, Sicily
 AACR Symposium, “Epigenetics and Cancer”, New Orleans
 EMBL Conference, “Transcription and Chromatin”, Heidelberg, Germany
 CSH Conference, “Chromatin and Epigenetics”, CSH
 Max Planck Conference, “Chromatin”, Freiburg, Germany
 Cancer Epigenetics Symposium, Miami
 Seminar, UT Southwestern, Dallas
 Seminar, Northwestern School of Medicine, Chicago

2015

AACR Conference, “Chromatin and Senescence” Meeting, Philadelphia, PA
 Cold Spring Harbor Laboratory Symposium “Genes at Work”, CSH NY
 Wellcome Trust Scientific Conference, “Aging”, Hinxton, UK
 EACR Conference, “Epigenetics Mechanisms in Cancer”, Berlin, Germany
 KAUST and UC-Irvine, “Epigenetics and Environment”, Saudia Arabia
 ABCAM Conference, “Chromatin Structure and Function”, Cayman Islands
 FASEB, “Transcription, Chromatin and Epigenetics”, Palm Spring
 FASEB, “Histone deacetylases and Sirtuins”, Hamburg, Germany
 HHMI Conference “Behavioral Epigenetics”, Janelia Farms, Virginia
 EMBO Conference “Nuclear Structure and Dynamics”, France
 Sanger Center Conference “Epigenetics, Metabolism and Obesity”, Hinxton, UK
 Keystone Conference, “Epigenetics and Cancer”, Keystone, Colorado
 ASRM, Reproductive Medicine, Annual meeting, Baltimore
 NIH Chromatin, ncRNA, Methylation & Disease Symposium, Bethesda
 Baylor University seminar, Dept., of Molecular and Cellular Biology, Houston, TX
 UT Dallas seminar, Program of Biological Science Department, Dallas, TX
 New York Academy of Sciences Genome Integrity Discussion Group, New York, NY

2014

IDIBELL Cancer Conference (ICC), “50 Years of Histone Acetylation - Barcelona”, Barcelona, Spain
 Keystone Conference, “Chromatin Mechanisms and Physiology”, Obersdorff, Germany
 Gordon Conference, “Chromatin Structure and Function”, Bentley College, Waltham MA
 EMBL Conference, “Transcription Mechanisms”, Heidelberg, Germany
 Cold Spring Harbor Conference, Chromatin and Epigenetics, CSH NY
 NYU Medical School symposium, “Epigenetics”, NY
 HHMI Conference “Life in the Aggregate”, Janelia Farms, Virginia
 Cancer Epigenetics Symposium, Miami
 UNC Cancer Center symposium, Chapel Hill, NC
 NIH Director’s Series, National Institute of Aging Florence Mahoney Memorial Lecture, Bethesda MY
 Harvard Medical School seminar, Biochemistry department, Boston MA
 Cornell University seminar, Genetics department, Ithaca, NY
 Cold Spring Harbor Transcription course, seminar, CSH NY

2013

Technion-Israel Institute of Technology Conference, “DNA at 60”, Haifa, Israel
NIH, Geroscience summit, “Epigenetics of Aging” section, Bethesda, MY
Keystone Conference, “Epigenetic Marks and Cancer Drugs”, Sante Fe, NM
Pfizer Conference, 6th Annual “Frontiers in Human Diseases Symposium”, NY Acad Sciences
ABCAM Conference, “Epigenetics and Chromatin”, Grand Cayman
Ellison Foundation, Biology of Aging, Woods Hole MA
INSERM and UC-Irvine Symposium, “Epigenetic Control of Cellular Plasticity”, Irvine, CA
University of Virginia Symposium, “Epigenetics and Chromatin”, Charlottesville, VA
Stanford seminar, Genetics Department, Palo Alto, CA
Woods Hole Molecular Biology of Aging course, seminar, Woods Hole, MA
American Gynecological Club Annual meeting, lecture, Philadelphia, PA
American Academy of Arts and Sciences induction, Cambridge, MA
Institute of Medicine of National Academy of Sciences induction, Wash DC

2012

CSHL “Chromatin and Epigenetics”, Cold Spring Harbor NY
Keystone Conference, “Chromatin and Epigenomics”, Keystone CO
Keystone Conference, “Non-Coding RNAs and Eukaryotic Transcription”, Snowbird UT
Princeton NJ Governor’s Conference, Princeton NJ
Gordon Conference, “Chromatin Structure and Function”, Il Ciocco Italy
EMBO Conference, “Yeast Transcription”, Girona Spain
EMBL Conference, “Eukaryotic Transcription”, Heidelberg Germany
Wellcome Trust Conference, “Epigenome in Common Disease”, Baltimore MY
InteGeR Marie Curie Network, “Gene Regulation”, Athens Greece
Copenhagen Bioscience Conferences, “Post-translational Modifications”, Copenhagen Denmark
ASBMB “Transcription and Chromatin”, Snowbird UT
Ellison Foundation, Biology of Aging, Woods Hole MA
University of Michigan, Annual Symposium on Cancer, Ann Arbor MI
University of Pennsylvania, Symposium on Epigenetics of Sleep, Philadelphia PA
Brown University, Conference on Aging, Providence RI
Columbia Medical School seminar, NY
Wash U seminar, St Louis MO

2011

Cold Spring Harbor Lab Symposium, “Metabolism”, CSH NY
Cambridge Research Institute Symposium, “Epigenetics”, Cambridge UK
ABCAM Chromatin Conference, “Chromatin”, Aruba
Miami Winter Symposium, Miami FL
IPSEN Foundation, “Epigenetics and Brain”, Paris France
Cold Spring Harbor Lab “Transcription” Conference, CSH NY
CRG Conference, “Epigenetics and Human Disease”, Barcelona Spain
AACR “Metabolism and Cancer”, Baltimore MY
FASEB Conference, “Chromatin”, Snowmass CO
Penn State Summer Symposium “Chromatin”, College Station PA
Thomas Jefferson University seminar
CEET Symposium, UPenn

2010

CSHL Symposium “Nuclear Structure and Function”, CSH NY
Max Planck Institute, Epigenetics Conference, Freiberg Germany
Keystone, “Chromatin Structure”, Taos NM
FASEB, “Ubiquitin and Cellular Regulation”, Saxton’s River VT
GRC, “Chromatin”, New Hampshire
CSH Asia “Transcription and Chromatin”, Shanghai China
HHMI Conference, “Epigenetics”, Wash DC
ASBMB Conference, “Chromatin”, Lake Tahoe CA
Chromatin Symposium, Brussels Belgium
Chromatin Symposium, Santiago Chili
Chromatin Conference, UNC, Chapel Hill NC
Course on Epigenetics, Curie Institute, Paris France
Seminar, University of Edinburgh, Scotland
Seminar, Beatson Institute, Glasgow Scotland

Seminar, Princeton University, NJ

2009

CSHL Conference “Transcription, CSH NY

Aspen Cancer Conference on Cancer, Aspen, CO

FASEB, “Chromatin”, Snowmass, CO

Yeast International Conference, Manchester, UK

ASBMB International Conference, New Orleans, LA

FASEB, “Histone and Factor Acetylation”, Lucca, Italy

Gordon Conference “Nucleic Acids”, Biddeford, ME

ABCAM Conference “Chromatin structure and function”, Costa Rica

Epigenetic Symposium, University of Nijmegen, Netherlands

Chromatin Symposium, Brussels, Belgium

Conference Instituto Regina Elena, “Chromatin remodeling and human disease”, Rome, Italy

Conference Workshop on Bioinformatics (WABI), Penn, Philadelphia, PA

Seminar, Center of Excellence in Cancer Biology, NIH, Bethesda

Seminar, Harvard Medical School, MGH, Boston, MA

Seminar, MD Anderson Cancer Center, Houston, TX

Seminar, Carnegie Institute, Baltimore, MD

Seminar, Children’s Hospital, Penn, Philadelphia

2008

p53 International Conference, Shanghai, China

EMBL Transcription Conference, Heidelberg, Germany

Banbury Conference on Epigenetics, Cold Spring Harbor, NY

International Congress of Genetics, “Chromatin and Epigenetic Mechanisms”, Berlin, Germany

Epigenetics and Chromatin Symposium, Seoul, S.Korea

Chromatin Symposium, Harvard Medical School, Boston, MA

Chromatin Symposium, University of Cambridge, UK

CSBMCB, “Chromatin” Banff, Canada

GRC Conference, “Chromatin Structure and Function”, Lucca, Italy

Keystone Conference “Regulatory Mechanisms in Eukaryotic Transcription”, Keystone, CO

FASEB Conference “Transcriptional Regulation during Cell Growth and Development”, Snowmass, CO

Keystone Conference “Diabetes Mellitus, Insulin Action and Resistance”, Keystone, CO

ASBMB Conference, “Chromatin”, Lake Tahoe, CA

p53 Symposium, Microbiology Department, Penn, Philadelphia

Seminar, Cancer Biology Seminar series, Stanford University, CA

Seminar, Washington University School of Medicine, St. Louis, MO

Seminar, Cinvestav Institute, Mexico City

Seminar, Institute of Biomedical Sciences, Taiwan, China

Seminar, NYU, Department of Biochemistry, NY

Seminar, Skirball Institute, NYU, NY

2007

IRB Barcelona Biomed Conference “Regulation of Chromatin Functions”, Barcelona, Spain

Gordon Conference “Cancer Genetics”, Lucca, Italy

CRG Conference “Genomic Regulation”, Barcelona, Spain

ABCAM Conference “Chromatin structure and function”, Antigua

Penn State University Conference “Chromatin Structure and DNA Function”, College Station, PA

Beckman Research Institute 17th Symposium “Epigenome and Epiproteome”, City of Hope, CA

FASEB Conference “Chromatin”, Snowmass, CO

Gordon Conference “Hormone Action”, Saxton’s River, VT

Biochemical Society “Regulation by SUMO”, Manchester, UK

Bollum Symposium, Univ Minn, Dept Biochemistry, MN

Cold Spring Harbor Transcription Course, NY

Seminar, Max Planck Institute, Freiburg, Germany

Seminar, University of Pennsylvania, Pharmacology Dept, Philadelphia, PA

Seminar, University of Pennsylvania, Reproductive Biology, Philadelphia, PA

Seminar, Columbia University, Dept of Biological Sciences, Manhattan, NY

Seminar, University of New Mexico, Albuquerque, NM

Seminar, MD Anderson Cancer Center, TX

2006

EMBL Conference “Transcriptional Regulation”, Heidelberg, Germany

Gordon Conference “Chromatin structure and function”, Lucca, Italy
Keystone Conference “Nuclear Receptors”, Banff, Canada
ASBMB International Conference, San Francisco, CA
ABCAM Conference “Chromatin structure and function”, Dominican Republic
Euresco Conference “Yeast gene regulation” Barcelona, Spain
FASEB Conference “Ubiquitin”, Saxton’s River, VT
ASBMB Conference, “Chromatin”, South Carolina
FASEB Conference “Yeast chromosome structure, replication and segregation”, Indian Wells, CA
University of Michigan, Keynote lecture, annual CMB symposium, Ann Arbor, MI
ABCAM NYC Chromatin meeting, NYU, NY
Seminar, Stowers Institute, Kansas City, MO
New York Academy of Sciences “Genome Integrity” mini-symposium, NY
Seminar, UMDNJ/Robert Wood Johnson Medical School, NJ
Seminar, Children’s Hospital, University of Pennsylvania
Seminar, Mayo Clinic, Minnesota
Seminar, Laval University, Quebec

2005

Juan March conference, Madrid
Cold Spring Harbor Conference, “Ubiquitin”, NY
Cold Spring Harbor Conference, “Transcription Mechanisms”, NY
Nature sponsored workshop on “Epigenetics”, Maine
Schering Conference “Histone modifications and disease”, Berlin (co-organizer)
FASEB Conference “Cancer Genetics and Epigenetics”, Saxton’s River, VT
Gordon Conference “Cancer Genetics”, Ventura, CA
ASBMB Conference, San Diego, CA
Keystone Conference, “Histone modifications and chromatin” (co-organizer)
FASEB Conference “Chromatin”, Snowmass, CO
ABCAM Conference “Chromatin structure and function”, Bahamas
Johns Hopkins Symposium on “Epigenetics”, Baltimore
ICGEB Conference “Chromatin and Epigenetics”, Mexico City
Melanoma Research Foundation Workshop, Hilton Head, SC
Cold Spring Harbor Transcription Course, NY
UCLA seminar, Los Angeles, CA
UC-Riverside seminar, CA
Mount Sinai seminar, NY, NY

2004

Cold Spring Harbor Symposium “Epigenetics”, Cold Spring Harbor
EMBL Conference “Transcriptional Regulation”, Heidelberg, Germany
FASEB Conference “Transcriptional Regulation”, Saxton’s River, Vermont
Gordon Conference “Ubiquitin”, Saxton’s River, Vermont
Gordon Conference “Chromatin structure and function”, Tilton, NH
Euresco Conference “Yeast gene regulation” Barcelona, Spain
American Society of Biochemistry and Molecular Biology Conference, Boston, MA
ASBMB Workshop “Chromatin”, Lake Tahoe
ABCAM Workshop “Chromatin structure and function”, Cancun, Mexico
ASBMB International Conference, Washington, DC (workshop organizer)
Chromatin Symposium, University of N. Carolina, Chapel Hill
NIH seminar, Bethesda
UCSF Gladstone Institute seminar, San Francisco
Johns Hopkins seminar, Baltimore

2003

Cold Spring Harbor Conference “Mechanisms of Eukaryotic Transcription”, NY
Cold Spring Harbor Transcription Course, NY
American Society of Biochemistry and Molecular Biology Conference, San Diego, CA
Gordon Research Conference “Molecular Cell Biology”, Tilton, VT
NIH “Eukaryotic Nucleus” Conference, W.Va.
Novartis Foundation Conference, London, UK
FASEB Conference “Chromatin”, Snowmass, CO (session chair)
Keystone Conference “Chromatin and Cancer”, Montana (session chair)
Penn State University Conference “Chromatin Structure and DNA Function”, College Station, PA

University of N. Carolina, Chapel Hill
Mt. Sinai Hospital, NY
University of Missouri, St. Louis
University of Florida, Gainesville
Lankenau Medical Center, Philadelphia

2002

EMBL Transcription Meeting, Heidelberg, Germany
Keystone conference “Chromatin Structure and Activity”, Sante Fe, NM
FASEB Conference “Transcriptional Regulation”, Saxons River, VT
Gordon Research Conference “Chromatin Structure and Function”, Tilton, NH
Gordon Research Conference “Nucleic Acid Enzymes”, Saxtons River, VT
Nuclear Receptor Symposium in Kwangju, Korea
“Molecular targets for cancer therapy”, Moffitt Cancer Center, Tampa, FL
Stanford University, Post-doctoral training series, Palo Alto, CA
Fred Hutchinson Cancer Center, Seattle, WA
University of Seattle, Seattle, WA
M.D. Anderson Cancer Center, Houston, TX
University of Massachusetts Medical School, Department of Cell Biology, Worcester, MA
Penn State University, Department of Biochemistry course in Chromatin, College Station, PA
Thomas Jefferson University Hospital, Department of Biochemistry, Philadelphia, PA

2001

Cold Spring Harbor Conference “Mechanisms of Eukaryotic Transcription”, NY
FASEB Conference “Chromatin and Transcription”, Snowmass, CO
Juan March Foundation Workshop, “Chromatin Functions”, Madrid, Spain
Gordon Conference, “Hormone Action”, Meridian, NH
Wistar Symposium on Chromatin, Philadelphia, PA
McGill University, Department of Biochemistry, Montreal, Canada
Wyeth-Ayrst Pharmaceuticals, Radnor, PA
Fox-Chase Cancer Institute, Philadelphia, PA

2000

Gordon Research Conference “Chromatin Structure and Function”, Tilton, N.H.
AACR Conference, “Transcription Factors in Cancer”, Laguna Beach, CA
Marie Curie Research Institute Transcription/Chromatin Workshop, Oxted, U.K.
2000 Summer School, Island of Spetses, Greece
Bio On-line Panel (internet biology web site): “Current review of Gene Expression”
Cambridge University, Department of Biochemistry, Cambridge, UK
NIH, Washington, D.C.
Louisiana State University, Department of Biochemistry, Shreveport, LA
University of Pennsylvania, Department of Pathology, Philadelphia, PA
University of Pennsylvania, Abramson Cancer Institute, Philadelphia, PA
St Johns University, Department of Biochemistry, Long Island, NY

1999

Cold Spring Harbor Conference “Mechanisms of Eukaryotic Transcription”, NY
Minisymposium, “Muscle differentiation & Chromatin transitions”, Marburg, Germany
Minisymposium on Chromatin, Munich, Germany
Marie Curie Research Institute Transcription/Chromatin Workshop, Oxted, U.K.
FASEB Summer Research Conference “Chromatin and Transcription”, Snowmass, CO
Penn State University Conference “Chromatin Structure and DNA Function”, PA
AACR Conference “The Steroid Receptor Superfamily”, Palm Springs, CA
Thomas Jefferson University Hospital, Department of Radiology, Philadelphia, PA
NIH Workshop “Chromatin, Transcription and DNA Replication”, Washington, D.C.
University of Virginia Department of Biochemistry and Molecular Genetics, Charlottesville, VA

1998

Keystone Conference “Transcriptional Mechanisms”, Taos, NM
Keystone Conference “Epigenetic Regulation of Transcription”, Copper Mountain, CO
Gordon Research Conference “Chromatin Structure and Function”, Tilton, NH
Gordon Research Conference “Nucleic Acids”, Newport, RI
Harvard Medical School, Department of Pathology, Boston, MA
Tulane University, Department of Biology, New Orleans, LA
NIH Workshop “Molecular Endocrinology: Co-Factors in Gene Expression”, Washington, D.C.

Fox-Chase Cancer Research Center, Philadelphia, PA
Mount Sinai Hospital, Department of Molecular Biology, Bronx, NY
Cold Spring Harbor Transcription Course, NY
University of Cincinnati, Department of Molecular Genetics, Biochemistry and Microbiology, OH
University of Copenhagen, Denmark

1997

Gordon Research Conference “Cancer Cells”, Newport, RI
Penn State University, Department of Biochemistry and Molecular Biology, PA
University of Michigan, Department of Biochemistry, Ann Arbor, MI
University of Wisconsin, Department of Pharmacology, Madison, WI
Sloan-Kettering Cancer Center, Molecular Biology Program, Manhattan, NY
Johns Hopkins University, Department of Biochemistry, Baltimore, MD
University of Missouri, Department of Biochemistry, Columbia, MO
Rutgers University, Department of Biochemistry, Piscataway, NJ
Karolinska Institute, Stockholm, Sweden
EMBL, Heidelberg, Germany

1992-1996

Philadelphia Oncogene Conference, Wistar Institute, Philadelphia, PA
University of Virginia, Department of Microbiology, Charlottesville, VA
University of Rochester, Department of Biology, Rochester, NY
Penn State University Conference “Chromatin Structure and DNA Function”, PA
Michigan State University, Department of Biochemistry, E. Lansing, MI
University of Pennsylvania, Department of Genetics Retreat, Philadelphia, PA
University of Pennsylvania, George Raiziss Rounds on Transcriptional Regulation
University of Pennsylvania, Department of Genetics
University of Pennsylvania, Department of Biology
Philadelphia Yeast Meeting
Princeton Yeast Meeting
Keystone conference on Transcriptional Mechanisms, Keystone, CO
Salk Institute Winter Post-doctoral conference

Penn and previous Wistar Institute Service

Founding Director, Epigenetics Program, University of Pennsylvania School of Medicine (09-present)
Co-Program Leader, Molecular Genetics/Gene Expression and Regulation Program, Wistar Institute (98-present)
Penn Executive Steering Committee, Institute of Regenerative Medicine (08-present)
Penn Department of Genetics, Chair Search Committee (04-06)
Wistar Steering Committee (03-09)
Wistar Director/CEO Search Committee (00-02)
Wistar Staff Council (95-06)
Wistar Executive Committee of the Cancer Core (98-present)
Wistar Ethics Committee (01; 03; 06)
Wistar Seminar Committee (92-97)
Faculty recruitment activities (94-present): Penn faculty members (HY Fan, K Wellen, M Capelson, R Bonasio, J Phillips-Cremmins); Wistar faculty members (S Janicki, P Lieberman, R Marmorstein, K Noma, R Sheikhattar, J Zhou)
Organize Philadelphia area Epigenetics and Chromatin meeting (w/ K Zaret, G Blobel, and Lake Placid Biologicals/Active Motif) (04-present)
Organize (w/ P Lieberman) Research-in-Progress meetings for Gene Expression and Regulation program trainees (04-09)
Organize joint journal club and research club for Gene Expression and Regulation Program (97-04)
Organize faculty research meetings for Gene Expression and Regulation Program (98-present)
Organize Philadelphia area Yeast meetings (w/ E Winter, Jefferson), presented at Wistar (96-07)
NIH site visit faculty participant for Penn BMB (Biochemistry and Molecular Biology) program (03)
NIH site visit faculty participant for Penn BGS (Biomedical Graduate Studies) (02)

Teaching activities

Research mentoring and supervision:

- Six high school students
- Four trainees Biotechnology program (Wistar)
- Ten undergraduate students (Penn)
- One post-baccalaureate student (Penn)
- Three masters student (Penn)

PhD Students:

- Past: Lian Wang, Ph.D.; Postdoc Harvard Med (E Kieff); Senior Scientist Boehringer Ingelheim
Lin Liu, Ph.D.; Postdoc Yale (C Janeway)
Rimma Belotserkovskya, Ph.D.; Postdoc UMDNJ (D Reinberg); Postdoc Cambridge UK (S Jackson)
Rand Haley, M.S.; M.S. in Public Policy, George Wash U; Principal and Founder, Research Terrain, LLC
N.C. Tolga Emre, Ph.D., Assistant Professor, Boğaziçi University, Turkey
Anastasia Wyce, Ph.D.; Postdoc Glaxo Smith Kline; Principal Investigator Glaxo Smith Kline
Kristin Ingvarsdottir, Ph.D.; Postdoc MDL Pharmaceuticals; Postdoc Penn (R Bonasio)
Chris Edwards, Ph.D.; Postdoc Penn (G Blobel)
Jessica Bryant, Ph.D.; Postdoc Curie Institute
- Present: Philipp Mews (2009)
Jiajun Zhu (2010)
Riley Graham (2012)
Enrique Lin Shiao (2014)
Caiyue Xu (2104)
- Rotation students: 30 (94-15)

Postdoctoral scientists:

- Past: Nick Barlev, Ph.D.; Assoc Prof, University of Leicester, UK
David Bungard, Ph.D.; Secondary Education Science Instruction, Philadelphia, PA
Reyes Candau, Ph.D.; Director of Research and Development, Edge Biosystems, MA
Paola Casagnino, Ph.D.; Postdoc Penn (R Assoian)
Weiwei Dang, Ph.D.; Asst Prof, Baylor University, Houston TX
Laura Duggan, Ph.D.; Senior Scientist, Dade Behring, Delaware
Jerome Govin, Ph.D., Asst Prof, INSERM, Grenoble, France
Karl Henry, Ph.D.; Asst Prof, Drexel University, PA
Jing Huang, Ph.D.: NIH Investigator, NCI, tenure track Principal Investigator
Thanuja Krishnamoorthy, Ph.D., GE Healthcare
Wan-Sheng Lo, Ph.D.; Asst Prof, National Taiwan University, Taiwan; Academica Sinica
Dafna Nathans, Ph.D.; Head, Department of Chemical Engineering, Hadassah College, Jerusalem
Brandon Placek, Ph.D., Visiting Assistant Professor, Idaho State University
Lyndi Rice, Ph.D., Scientist, MDL Pharmaceuticals
Marc Schwartz, Ph.D.; Research Scientist, Neose Technologies, NJ
Vanya Shah, Ph.D.; Senior Scientist, Ranbaxy Pharmaceutical, India
David Sterner, Ph.D.; Research Scientist, Life Sensors, PA
Dimitra Tsavachidou, M.D.; Ph.D. program Penn
Pingyao Zeng, Ph.D.; Research Assoc Prof, Shanghai Institute for Biological Sciences, China
Valerie Zediak, Ph.D., Senior Medical Writer, Complete Healthcare Communications, Inc.
Chaoyang Ye, Ph.D., Research Scientist, Seattle, WA
- Present: Dan Bose, Ph.D.
Brian Capell, M.D., Ph.D., Medical Fellow
Jialei Hu, Ph.D.
Lacey Lucense, Ph.D.
Raffaella Nativio, Ph.D.
Morgan Sammons, Ph.D.
Payel Sen, Ph.D.
Parisha Shah, Ph.D.
Dan Simola, Ph.D.

Thesis committees for forty graduate students, Penn.

Interviewer for incoming graduate students at Penn: Biology, BMB and CAMB programs (93-present)

Preliminary Examiner for CAMB, BMB, Biology graduate programs, at Penn (93-present)

- Courses: Bio493 Epigenetics of Human Health and Disease, Spring 14/Spring15; created course
CAMB 697 Stem Cell Biology (Penn; one lecture), Spring 08/09
BMB 585 Cancer Mechanisms (Wistar/Penn), Winter 06/07/08/11/12/13
BMB 613 Chromatin Function and Structure (Penn), Spring 02 (created course with H Nelson)
CAMB 555 Gene Expression (Penn; three lectures), Spring 94-14; Organizer 01 (with P Klein)
Biol/CAMB 483 Epigenetics (Penn; two lectures), Spring 01-10, Fall 11/12/13
Epigenetics (Johns Hopkins Medical School; organizer: A. Feinberg; one lecture), Winter 05/06/07
Biol 540 Genetics (Penn: three lectures), Spring 96-01
BMB 604 seminar (Penn) organizer, Fall 97

CAMB 542 topics (Penn) with F Rauscher and M Lazar; Spring 93/95
Molecular aspects of cancer biology organized by F Rauscher (one lecture); Penn; Fall 94
CAMB 605 topics (Penn), organizer with R Ricchardi and M Atchison, Fall 93

Wistar high school essays contest reader
Wistar Ethics Discussions for Trainees (98/02/06/07)
Wistar “survival skills” mini-course (95)

Scientific collaborations

At Penn: G Bobel, R Bonasio, M Bartolomei, N Bonini, J Epstein, N Fraser, B Garcia, B Gregory, X Hua, FB Johnson, R Marmorstein, C Thompson, J Trojanowski, LS Wang, J Wherry, K Zaret.

At Wistar: T Halazonetis, P Lieberman, S McMahon, F Rauscher, R Shiekhattar, J Zhou.

Outside: P Adams (Glasgow), CD Allis (Rockefeller), C Arrowsmith (Toronto), M Bedford (MD Anderson), J Boeke (Hopkins), S Dent (MD Anderson), M Fuller (Stanford), B Garcia (Princeton), J Greenblatt (Toronto), W Hörz (Munich), T Jenuwein (Vienna), E Johnson (Jefferson), S Khochbin (Grenoble), T Kouzarides (Cambridge, UK), N Krogan (UCSF), W Lane (Harvard), A Levine (Inst. Adv. Studies), R Li (Virginia), MA Osley (Albuquerque), L Pillus (UC San Diego), D Reinberg (NYU), A Shilatifard (Stowers), B Strahl (UNC), H Stunnenberg (Nijmegen), S Triezenberg (Michigan State), B Turcotte (McGill), F Winston (Harvard), E Winter (Jefferson), J Workman (Stowers), H Zhu (Hopkins).