

ULLA M. HANSEN

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CURRENT RESEARCH FOCUS AREA:

Molecular pathways that regulate key mammalian cell cycle transitions and translation of this knowledge to treatment of cancer. In particular, regulation of multiple cell cycle transitions by the transcription factor LSF; LSF-mediated oncogenesis; and development of novel chemotherapeutics for treatment of hepatocellular carcinoma, colorectal cancer, and other LSF-mediated cancers.

EDUCATION

1974 A.B. Oberlin College (Chemistry)
1980 Ph.D. Harvard University (Biochemistry and Molecular Biology)
Laboratory of William R. McClure

POSTDOCTORAL TRAINING

1980-1982 Postdoctoral Fellow (Biology), Massachusetts Institute of Technology
Laboratory of Phillip A. Sharp

ACADEMIC APPOINTMENTS

1983-1988 Assistant Professor of Pathology, Harvard Medical School
1988-1990 Assistant Professor of Microbiology and Molecular Genetics,
Harvard Medical School
1991-1997 Associate Professor of Microbiology and Molecular Genetics,
Harvard Medical School
1998-present Professor, Department of Biology, Boston University
1998-present Faculty member, Graduate Program of Molecular Biology, Biochemistry,
and Cell Biology (MCBB), Boston University
1998-present Faculty member, Program in Bioinformatics, Boston University
2004-2006 Visiting Professor, Department of Medicine, Tufts Medical School
2007-2011 Associate Chair, Department of Biology, Boston University
2008-present Director and Professor (joint programmatic appointment), Graduate Program of
Molecular Biology, Biochemistry, and Cell Biology (MCBB), Boston Univ.
2015- present Professor, Program of Biochemistry and Molecular Biology (joint programmatic
appointment), Boston University [BA and BA/MA-degree granting program]
2015- present Professor, Nanotechnology Innovation Center, Boston University
2016-present Member, BU-BMC Cancer Center, Boston University
2016-present Affiliated Faculty Member, BU-CMD (Center for Molecular Discovery)

OTHER PROFESSIONAL POSITIONS

1983-1991 Chief, Laboratory of Eukaryotic Transcription, Dana-Farber Cancer Institute
1991-1997 Principal Investigator, Division of Molecular Genetics,
Dana-Farber Cancer Institute
1983-1997 Member, Committee on Virology, Harvard Medical School
1992-1995 Consultant, Sandoz Pharmaceuticals Corporation
1998-2000 Consultant; Marshall, O'Toole, Gerstein, Murray & Borun, Attorneys at Law

2017- Chief Scientific Officer and Co-founder, Lamerigen, Inc.

AWARDS AND HONORS

1973 Phi Beta Kappa, Oberlin College
 1974 Harry Nichols Holmes Award for excellence in chemistry,
 Oberlin College Chemistry Department
 1975-1978 Predoctoral Fellowship, Camille and Henry Dreyfus Foundation, Inc.
 1978-1980 NIH Predoctoral Trainee
 1980-1982 Postdoctoral Fellowship, Jane Coffin Childs Memorial Fund for Medical Research
 1984-1986 Basil O'Connor Starter Scholar, March of Dimes Birth Defects Foundation
 1986-1988 Junior Faculty Research Award, American Cancer Society, Inc.
 1992-1997 Faculty Research Award, American Cancer Society, Inc.
 2004-2006 Ruth L. Kirschstein Senior Fellowship Award, NIH
 2007 Honorary Inductee, Phi Beta Kappa, Boston University

SERVICE: International, National, and Regional

1984- Reviewer for National Science Foundation grant applications
 1996, 2001 Reviewer for The Israel Science Foundation grant application
 2001 Reviewer for proposals for the Ohio Board of Regents
 1985-present Referee for scientific journals:
Molecular and Cellular Biology, Nature, Nucleic Acids Research, Genes and Development, Science, Journal of Biological Chemistry, Proceedings of the National Academy of Sciences (USA), Development, Developmental Biology, Molecular Biology of the Cell, Journal of Applied Physiology, Trends in Biochemical Sciences, European Journal of Biochemistry, Cell Growth and Differentiation, Biochimica et Biophysica Acta, Bioinformatics, Genes to Cells, Blood, BMC-Molecular Biology, Journal of Molecular Biology, Expert Review in Molecular Medicine, Gene, Journal of Endocrinology, The FEBS Journal, EMBO Journal, Journal of Clinical Investigation, Reproductive Biology and Endocrinology, BMC Genomics, Anti-Cancer Drug, Journal of Pharmacy and Pharmacology, Molecular Cancer Research, Journal of Translational Medicine, Journal of Visualized Experiments (JOVE), Frontiers in Endocrinology, Genome Research, Bioessays, Chinese Journal of Cancer Research, BMC-Cancer, PLOS One, WikiJournal of Science
 1997-2006 Reviewer, chapters of books:
 Cell (G. Cooper)
 Molecular Biology (R. Weaver)
 Cell (G. Cooper and R. Hausman)
 1990 Ad Hoc Member of the NIH Virology Study Section
 1994 Ad Hoc Reviewer, American Cancer Society Scientific Advisory Committee
 on Personnel
 1996-1997 Ad Hoc Reviewer, American Cancer Society Scientific Advisory Committee
 on Genetic Mechanisms in Cancer
 1998-1999 Reviewer, American Cancer Society Scientific Advisory Committee
 on Genetic Mechanisms in Cancer

- 1998-2012 Reviewer, Faculty Promotion cases:
Harvard Medical School; Johns Hopkins University; National Cancer Institute (NIH); Tufts-New England Medical Center; Tufts Univ. School of Medicine; Univ. of California, Berkeley; Univ. of Massachusetts Medical School, Worcester; Univ. of Missouri-Columbia; Univ. of South Florida; Virginia Commonwealth Univ.
- 2000 Vice-Chair, American Cancer Society Scientific Advisory Committee on Genetic Mechanisms in Cancer
- 2001 Chair, American Cancer Society Scientific Advisory Committee on Genetic Mechanisms in Cancer
- 1999 Ad Hoc Reviewer, National Institutes of Health CBY-2 Study Section
- 2002-2004 Member, National Institutes of Health CDF3 Study Section
- 2002 Reviewer, Intramural site visit team, review of Laboratory of Metabolism, National Cancer Institute, NIH
- 2002 Outside reviewer, Ph.D. Thesis Examination Committee, Doug Selinger (student of George Church), Harvard Medical School
- 2005 Reviewer, Senior Research Fellowship application for The Wellcome Trust, London, UK
- 2005 Invited to be member of NSF Review Panel on Epigenetics, Transcription, and Chromatin (declined due to temporary conflicts)
- 2005 Outside reviewer, Ph.D. Thesis Examination Committee, Zhou Zhu (student of George Church), Harvard Medical School
- 2007 Outside reviewer, Ph.D. Thesis Examination Committee, Seth Frieze (student of Pamela Silver), Harvard Medical School
- 2006-2011 Reviewer, The Medical Foundation: The Charles A. King Trust Postdoctoral Research Fellowship Program, Boston, MA
- 2011-2016 Reviewer, Alzheimer's Association International Grant Program
- 2011-present Review Editor, Frontiers in Molecular and Structural Endocrinology
- 2018 Outside reviewer, Ph.D. Thesis Examination Committee, Whitney Silkworth (student of David Fisher), Harvard Medical School

SERVICE: Harvard Medical School and Dana-Farber Cancer Institute

- 1984-1988 Graduate Student Advisory Committee, Committee on Virology
- 1985-1987 Chairperson, Graduate Student Advisory Committee, Committee on Virology
- 1984-1992 Biomedical Research Support Grant Review Committee, Dana-Farber Cancer Institute
- 1986-1988 Program and Admissions Committee, Harvard Medical School
- 1991-1993 Faculty Council, Harvard Medical School
- 1991-1994 Chairperson, Seminars in Oncology, Dana-Farber Cancer Institute
- 1995-1997 Virology Steering Committee, Harvard Medical School

SERVICE: Boston University

- 1999 Mentor, Pathways Program
- 2001 Panel member, Orientation for New Faculty, Hosted by Boston University Center for Excellence in Teaching
- 2000-2002 Alternate Member, Faculty Council
- 2002, 2003 Ada Draper Award Selection Committee
- 2002-3, 2008, 2011, 2013 Science and Technology Day Judge
- 2002-2003 Member, Advisory Board, Women's Studies Program

- 2002 Member, Committee of Misconduct Inquiry for the Office of the Provost
 2005 Internal reviewer, 2006 Searle Scholar's Program competition
 2006 College of Arts and Sciences Dean's delegate, polling Biology Department regarding Chairman position
- 1999, 2000, 2007-2008 Member, Appointment, Promotions and Tenure Committee, College and Graduate School of Arts and Sciences
 2002-2003, 2006-2007 Chair, Appointment, Promotions and Tenure Committee, College and Graduate School of Arts and Sciences
 2007 Chair, Ad hoc Appointment, Promotions and Tenure Committee, College and Graduate School of Arts and Sciences
- 2008 Organizer, Symposium in Honor of Sir Hans Kornberg (Jan. 19, 2008)
 2008-2010 Member, University-wide Bioinformatics and Integrative Biology Working Group
 2008-2009 Faculty Facilitator, Responsible Conduct for Research Sessions
 2009-2015 Member, Steering Committee for the Evans Center for Interdisciplinary Biomedical Research (Director: Katya Ravid)
- 2009-2013 Faculty Representative, Academic Affairs Committee of the Board of Trustees
 2011 Reviewer, Boston University School of Medicine Biochemistry graduate program
 2012 Reviewer for Provost's Office, Clare Boothe Luce Graduate Fellowships
 2012 Reviewer, Boston University Searle Scholar nominations
 2012 Reviewer, Boston University Pew Scholar nominations
 2012 Member, Boston University HHMI Graduate Fellowship Nomination Committee
 2012-present Reviewer, Evans Center ARC grant proposals
 2013 Reviewer, Boston University Blavatnik Young Scientist Award nomination
 2013-2014 Member, Organic Chemistry Faculty Search Committee, Dept. Chemistry
 2013-2015 Member, University Committee on Academic Program Review (CAPR)
 2014 Member, Ad hoc faculty committee on plagiarism allegation, College and Graduate School of Arts and Sciences
- 2015 Chair, Investigation Misconduct Committee for the Office of the Provost
 2015-2016 Vice-Chair, University Committee on Academic Program Review (CAPR)
 2016-2018 Chair, University Committee on Academic Program Review (CAPR)
 2016-present Reviewer, BU Clinical and Translational Science Institute Pilot Grants
 2018- Member, Advisory Committee, Molecular and Translational Medicine (MTM) graduate program, BUMC
 2019 Judge, Biological Graduate Student Association (BGSA) Symposium

SERVICE: Boston University, Department of Biology

- 1997-2007 Faculty Search Committees in Cell and Molecular Biology (for 5 of the years indicated)
 Hired: J. Deshler, K. McCall, F. Naya, C. Bradham, H. Frydman
- 2008-2009 Member, Systems Biology Junior Faculty Search Committee
 2009-2010 Chair, Systems Biology Faculty Search Committee
- 1999-present Mentor of Junior Faculty
 Jim Deshler (1999-2008)
 Frank Naya (2001-2012)
 Daniel Segrè (2005-2012)
 Cynthia Bradham (2008-2016)
 Jeffrey Gavornik (2016-present)
 Jerry Chen (2016-present)
- 1998 Biology Department Graduate Committee (including Graduate Student Admissions)

- 1998-1999 Chair, Cellular and Molecular Biology Seminar Committee
 1999-2003, Preliminary Examination Committee,
 2006-2015 Cell and Molecular Biology and MCBB Graduate Programs
 1998-2011 Appointment, Promotions and Tenure Committee, Department of Biology
 (for six of the 13 years indicated)
 2013 Ad Hoc Appointment, Promotions and Tenure Committee, Department of Biology
 2007-2008, Merit and Equity Advisory Committee, Department of Biology
 2010-2011,
 2017-2018
 1998-2000, Biology Chairman's Advisory Committee
 2002-2004
 2007-2011 Associate Chair, Department of Biology
 2011-2012 Biology Department representative, Provost Space Utilization Study Committee
 2013-2014, Appointment, Promotions and Tenure Committee, Department of Biology
 2015-2017
 2017-2018 Committee for Graduate Preliminary Exam Assessment, Cellular and Molecular
 Biology subprogram, Department of Biology

SERVICE: Boston University, Interdepartmental Graduate Programs

- 1998-2000 Molecular Biology, Cell Biology, and Biochemistry (MCBB) Graduate Program
 Oversight Committee
 1998-2000 Graduate Student Admissions Committee, MCBB Graduate Program
 1999 Recruitment of minority students for the Bioinformatics Program
 at University of Houston-Downtown, Houston, TX
 1999 Lecturer, Pre-entrance Training Week, Bioinformatics Program
 1999-2001 Chair, Interdepartmental Seminar Series – Biomolecular Seminar Series
 (Cell and Molecular Biology, MCBB, Bioinformatics)
 2000-2010 Member, Biomolecular Seminar Series Committee
 2000-2003 Chair, Committee on Curriculum and Degree Requirements,
 Bioinformatics Program
 1999-2001, Graduate Advisor, Bioinformatics Program
 2005-2017
 2005-2006, Admissions Committee, Program in Bioinformatics
 2007-2008
 2008-2009 Member, Systems Biology Seminar Series Committee
 2009 Member, Curriculum Committee, University-wide Integrative Biology Program
 2008-2009, Member, Executive Committee, Program in Bioinformatics
 2010-2011
 2008-present Director, MCBB Graduate Program
 2013 Bioinformatics representative, SACNAS conference, San Antonio, TX

TEACHING: Harvard Medical School

- 1984-1986 Co-Director, "Principles and Techniques in Molecular Genetics"
 (graduate student course), Program in Genetics, Harvard Medical School
 1986-1993 Director, "Molecular Biology of Animal Viruses"
 (graduate student course), Committee on Virology, Harvard Medical School
 1989,1992 Course leader, "Tridepartment Proposal Mini-Course"
 (graduate student course), Harvard Medical School
 1990,1993 Leader, Conduct of Science discussion groups, Harvard Medical School

- 1995,1996 Member of teaching team (with Jean Patterson, Jo Sodroski), “Animal Virology” (graduate student course), Committee on Virology, Harvard Medical School
- 1983-1997 Chair/Member of Thesis Advisory Committees (students from Biological and Biomedical Sciences Program, Committee on Virology, Program in Immunology)

TEACHING: Boston University

- 1998 Lecturer on Cell Signaling and Transcription Factors, “Advanced Cell Biology” (graduate student course)
- 1999 Co-director, “Biology of the Cell Cycle” (graduate and upper level undergraduate course), with Professor Frank Monette
- 2000-2003 Co-director, “Molecular Biology II” (graduate and upper level undergraduate course)
2000-2002: with Professor Kim McCall
2003: with Professor Frank Naya
- 2000, 2002 Lecturer on Basic Transcription Mechanisms, “Molecular Biology” at BU Medical School (graduate student course)
- 2001 Lecturer on Mammalian Gene Expression, “Biomolecular Engineering”
- 2000-2003 Discussion Leader on The Estrogen Receptor and Breast Cancer, “Biology 108 Honors Section” (freshman undergraduate students)
- 1999-2000 Instructor, “Reading in Biology” (undergrad independent library research) Nicolas Aguirre ('99), Amartya Ray ('99)
- 2002, 2004 Lecturer on current research of my laboratory, “Research Opportunities in Bioinformatics” (graduate student course)
- 2006, 2007 Director, “Research Opportunities in Bioinformatics” (graduate student course)
- 2006 Faculty, “Cell Biology” (sophomore-level undergraduate and MMEDIC courses), with Professor Frank Monette, Course Director
- 2008 Co-director, “Cell Biology” (sophomore-level undergraduate and MMEDIC courses), with Professors Cynthia Bradham and Robert Hausman
- 2010 Director, “Molecular Biology II” (graduate and upper level undergraduate course)
- 2010 Instructor, “Reading in Biology” (undergrad independent library research) Sarah Woodson ('11)
- 2013 Guest Lecturer, “Epigenetics” (graduate level course)
- 2014 Director, Grant-writing workshop for Cell and Molecular Biology and MCBB PhD students (includes writing/submission of NSF fellowship proposals)
- 2016 Director, “Progress in Cell and Molecular Biology Seminar” (weekly seminar series of Cell and Molecular Biology and MCBB PhD students)
- 2004-2007, 2010-2018 Director, “Advanced Molecular Biology” (graduate student course)
- 2012-2014, 2016-2019 Guest Lecturer, “Carcinogenesis” (graduate & upper level undergraduate course)

NATIONAL/INTERNATIONAL CONTRIBUTIONS:

Presentations at Symposia (1992-present)

- 1992 Gordon Research Conference on “Chromatin”
Cold Spring Harbor Meeting on “DNA Tumor Viruses”
- 1993 Gordon Research Conference on “Biological Regulatory Mechanisms”
Cold Spring Harbor Meeting on “Mechanisms of Eukaryotic Transcription”

- 1994 Massachusetts Department of Public Health, Boston, MA,
Breast Cancer Award Symposium
Massachusetts Institute of Technology, Boston, MA,
Symposium honoring Phillip A. Sharp
- 1995 Keystone Symposium on "Epigenetic Regulation of Transcription"
FASEB Research Conference on "Chromatin and Transcription"
Session Chair and Speaker, Summer Symposium in Molecular Biology, Penn State
on "Chromosomal Controls of Gene Expression"
Cold Spring Harbor Cancer Cells Meeting
on "Mechanisms of Eukaryotic Transcription"
- 1996 Gordon Research Conference
on "Nuclear Proteins, Chromatin Structure and Gene Regulation"
Cambridge Symposia
on "Cell Cycle Control: Regulatory Signals and Clinical Applications"
- 1997 Gordon Research Conference on "Molecular and Genetic Basis of Cell Proliferation"
- 2000 Society for the Advancement of Women's Health Research Conference
on "Sex and Gene Expression", Winston-Salem, North Carolina
- 2002 BCMP Minisymposium on "The Biochemistry of Eukaryotic Transcription",
Harvard Medical School, Boston, MA
- 2003 Panel Moderator and Speaker, Society for Womens' Health Fourth Annual
Conference on "Sex and Gene Expression", Winston-Salem, North Carolina
- 2007 Session Chair and Speaker, Boston Area Gene Expression Meeting,
Tufts University School of Medicine
- 2008 Bregenz Summer School on Endocrinology:
Nuclear Receptors in Health and Disease, Bregenz, Austria

REGIONAL/NATIONAL CONTRIBUTIONS:

Invited Presentations at Institutions (1993-present)

- 1993 Dana-Farber Cancer Institute, Boston, MA, Seminars in Oncology
University of Pittsburgh School of Medicine, Pittsburgh, PA,
Department of Molecular Genetics
Tufts University School of Medicine, Boston, MA, Department of Physiology
Scripps Research Institute, La Jolla, CA, Department of Molecular Biology
University of Connecticut, Storrs, CT, Department of Molecular and Cellular Biology
Mount Sinai School of Medicine, New York, NY,
Brookdale Center for Molecular Biology
Tufts University School of Medicine, Boston, MA, Department of Biochemistry
- 1994 Harvard Medical School, Boston, MA, Committee on Virology
- 1995 University of Texas Health Science Center, San Antonio, TX,
Center for Molecular Medicine

- National Institutes of Health, Bethesda, MD, National Cancer Institute
University of Oregon, Eugene, OR, Institute of Molecular Biology
Fred Hutchinson Cancer Center, Seattle, WA
Tufts University School of Medicine, Boston, MA,
 Department of Molecular Biology and Microbiology
Dana-Farber Cancer Institute, Boston, MA, Seminars in Oncology
Harvard Medical School, Boston, MA,
 Department of Microbiology and Molecular Genetics
Mount Sinai School of Medicine, New York, NY,
 The Derald H. Ruttenberg Cancer Center
Medical College of Georgia, Augusta, GA,
 Institute for Molecular Medicine and Genetics
University of Massachusetts Medical Center, Worcester, MA,
 Department of Molecular Genetics and Microbiology
Louisiana State University Medical Center, New Orleans, LA,
 Stanley S. Scott Cancer Center
- 1996 University of Georgia, Athens, GA, Department of Biochemistry
Emory University School of Medicine, Atlanta, GA,
 Division of Pediatric Endocrinology
Vanderbilt University, Nashville, TN,
 Department of Molecular Biology, and Cancer Center
Harvard Medical School, Boston, MA, Department of Pathology
Harvard Medical School, Boston, MA, Committee on Virology
Schepens Eye Research Institute, Boston, MA
- 1997 Boston University, Boston, MA, Department of Biology
- 1998 Brown University, Providence RI,
 Department of Molecular Biology, Cell Biology and Biochemistry
Oberlin College, Oberlin, OH, Chemistry Department
- 1999 Boston University School of Medicine, Boston, MA, Department of Biochemistry
Boston University School of Medicine, Boston, MA, Department of Pathology
LSU Medical Center, Shreveport, LA,
 Department of Biochemistry and Molecular Biology
University of Houston-Downtown, Houston, Texas
- 2000 University of South Florida, Tampa, FL, Institute for Biomolecular Science
Massachusetts General Hospital, Harvard Medical School, Boston, MA,
 Department of Reproductive Endocrinology
University of Massachusetts Medical Center, Worcester, MA,
 Department of Cell Biology
Boston University School of Medicine, Boston, MA, Department of Pharmacology
- 2001 Boston University School of Medicine, Boston, MA, Department of Medicine,
 Hematology/Oncology Research Roundtable
- 2003 Boston University School of Medicine, Boston, MA, Arthritis Grand Rounds
Boston University School of Medicine, Boston, MA,
 Department of Genetics and Genomics

- 2005 Boston University Goldman School of Dental Medicine, Boston, MA,
Department of Molecular and Cell Biology
The Johns Hopkins University, School of Medicine, Baltimore, MD,
Johns Hopkins Asthma and Allergy Center
The Johns Hopkins University, School of Medicine, Baltimore, MD,
Johns Hopkins Immunology Council
University of Massachusetts Medical School, Worcester, MA,
Department of Cell Biology
Boston University, Boston, MA, LSEB Dedication Symposium
- 2009 Virginia Commonwealth University, Richmond, VA,
Department of Human and Molecular Genetics
New England BioLabs, Ipswich, MA
- 2011 Alnylam Pharmaceuticals, Cambridge, MA
Boston University School of Medicine, Boston, MA, Department of Biochemistry
- 2013 Boston University School of Medicine, Boston MA, Department of Microbiology
- 2016 Boston University-wide Cancer Seminar Series, Boston MA
- 2017 Novartis Institutes for BioMedical Research, Cambridge MA
“*Transcription Factor LSF: Therapeutic Target for Hepatocellular Carcinoma*”
- 2018 Novartis Institutes for BioMedical Research, Cambridge MA
“*LSF: Multiple points of growth control*”

PUBLICATIONS (total of 71 published)

Mescher MF, **Hansen UM**, Strominger JL. (1976) Formation of lipid-linked sugar compounds in *Halobacterium salinarium*: Presumed intermediates in glycoprotein synthesis. J Biol Chem. 251:7289-7294.

Hansen UM, McClure WR. (1979) A noncycling activity assay for the sigma subunit of *Escherichia coli* RNA polymerase. J Biol Chem. 254:5713-5717.

Hansen UM, McClure WR. (1980) Role of the sigma subunit of *Escherichia coli* RNA polymerase in initiation. I. Characterization of core enzyme open complexes. J Biol Chem. 255:9556-9563.

Hansen UM, McClure WR. (1980) Role of the sigma subunit of *Escherichia coli* RNA polymerase in initiation. II. Release of sigma from ternary complexes. J Biol Chem. 255:9564-9570.

Hansen UM. (1980) Mechanism of action of the sigma subunit of *Escherichia coli* RNA polymerase. Ph.D. Thesis, Harvard University.

Cepko CL, **Hansen UM**, Handa H, Sharp PA. (1981) Sequential transcription-translation of SV40 using mammalian cell extracts. Mol Cell Biol. 1:919-931.

Hansen UM, Tenen DG, Livingston DM, Sharp PA. (1981) T antigen repression of SV40 early transcription from overlapping promoters. *Cell* 27:603-612.

Hansen UM, Sharp PA. (1983) Sequences controlling *in vitro* transcription of SV40 promoters. *EMBO J.* 2:2293-2303.

Hansen UM, Sharp PA. (1984) Transcription by RNA polymerase II. *Comprehensive Virology* 19:65-97.

Tenen DG, Haines LL, **Hansen UM**, Martin RG, Livingston DM. (1985) Formation of a cruciform structure at the SV40 replication origin abolishes T antigen binding to the origin *in vitro*. *J Virol.* 56:292-297.

Patarca R, Heath C, Goldenberg GJ, Rosen CA, Sodroski JG, Haseltine WA, **Hansen UM**. (1987) Transcription directed by the HIV long terminal repeat *in vitro*. *AIDS Research and Human Retroviruses.* 3:41-55.

Kim CH, Heath C, Bertuch A, **Hansen U**. (1987) Specific stimulation of simian virus 40 late transcription *in vitro* by a cellular factor binding the simian virus 40 21-base-pair repeat promoter element. *Proc Natl Acad Sci USA.* 84:6025-6029.

Brown M, Figge J, **Hansen U**, Wright C, Jeang K-T, Khoury G, Livingston DM, Roberts TM. (1987) *lac* repressor can regulate transcription from a hybrid SV40 early promoter containing a *lac* operator in animal cells. *Cell* 49:603-612.

Chalifour LE, Wirak DO, **Hansen U**, Wassarman PM, DePamphilis ML. (1987) *Cis-* and *trans-*acting sequences required for expression of simian virus 40 genes in mouse oocytes. *Genes Dev.* 1:1096-1106.

Huang H-C, Sundseth R, **Hansen U**. (1990) Transcription factor LSF binds two variant bipartite sites within the SV40 late promoter. *Genes Dev.* 4:287-298.

Licht JD, Grosse MJ, Figge J, **Hansen U**. (1990) *Drosophila Krüppel* protein is a transcriptional repressor. *Nature* 346:76-79.

Sundseth R, **Hansen U**. (1990) A systematic approach to the study of RNA polymerase II mediated transcription *in vitro*. *DNA and Protein Engineering Tech.* 2:57-64.

Casaz P, Sundseth R, **Hansen U**. (1991) Trans-activation of the Simian Virus 40 late promoter by large T antigen requires binding sites for the cellular transcription factor TEF-1. *J Virol.* 65:6535-6543.

Sundseth R, **Hansen U**. (1992) Activation of RNA polymerase II transcription by the specific DNA-binding protein LSF: Increased rate of binding of the basal promoter factor TFIIB. *J Biol Chem.* 267:7845-7855.

Batson SC, Sundseth R, Heath CV, Samuels M, **Hansen U**. (1992) *In vitro* initiation of transcription by RNA polymerase II on *in vivo*-assembled chromatin templates. *Mol Cell Biol.* 12:1639-1651.

Batson SC, Rimsky S, Sundseth R, **Hansen U.** (1993) Association of nucleosome-free regions and basal transcription factors with *in vivo*-assembled chromatin templates active *in vitro*. Nucl Acids Res. 21:3459-3468.

Licht JD, Ro M, English M, Grossel M, **Hansen U.** (1993) Selective repression of transcriptional activators at a distance by the *Drosophila Krüppel* protein. Proc Natl Acad Sci USA. 90:11361-11365.

DeFranco C, Ro M, Grossel M, **Hansen UM,** Wagner JA, Licht JD. (1993) NGF1A (EGR1) contains transcription activating domains in both the amino terminal and carboxyl terminal regions of the protein. Bioch Biophys Res Comm. 194:425-431.

Licht JD, Hanna-Rose W, Reddy JC, English MA, Ro M, Grossel M, Shaknovich R, **Hansen U.** (1994) Mapping and mutagenesis of the amino-terminal transcriptional repression domain of the *Drosophila Krüppel* protein. Mol Cell Biol. 14:4057-4066.

Shirra MK, Zhu Q, Huang H-C, Pallas D, **Hansen U.** (1994) One exon of the human LSF gene includes conserved regions involved in novel DNA-binding and dimerization motifs. Mol Cell Biol. 14:5076-5087.

Ding H-F, Rimsky S, Batson SC, Bustin M, **Hansen U.** (1994) Stimulation of RNA polymerase II elongation by chromosomal protein HMG-14. Science 265:796-799.

Casaz P, Rice PW, Cole CN, **Hansen U.** (1995) A TEF-1 independent mechanism for activation of the SV40 late promoter by mutant SV40 large T antigens. J Virol. 69:3501-3509.

Hansen U. (1996) Mechanisms of Eukaryotic Transcription: Surfaces, Complexes, and Contexts. Meeting Review: Cold Spring Harbor Cancer Cells Meeting (Aug. 30 – Sept. 3, 1995). BBA Reviews on Cancer. 1287:59-62.

Hanna-Rose W, **Hansen U.** (1996) Active repression mechanisms of eukaryotic repressors. Trends Genet. 12:229-234.

Volker JL, Rameh LE, Zhu Q, DeCaprio J, **Hansen U.** (1997) Mitogenic stimulation of resting T cells causes rapid phosphorylation of the transcription factor LSF and increased DNA-binding activity. Genes Dev. 11:1435-1446.

Hanna-Rose W, Licht JD, **Hansen U.** (1997) Two evolutionarily conserved repression domains in the *Drosophila Krüppel* protein differ in activator specificity. Mol Cell Biol. 17:4820-4829.

Ding H-F, Bustin M, **Hansen U.** (1997) Alleviation of histone H1-mediated transcriptional repression and chromatin compaction by the acidic activation region in chromosomal protein HMG-14. Mol Cell Biol. 17:5843-5855.

Sewack GF, **Hansen U.** (1997) Nucleosome positioning and transcription-associated chromatin alterations on the human estrogen-responsive pS2 promoter. J Biol Chem. 272:31118-31129.

Shirra MK, **Hansen U.** (1998) LSF and NTF-1 share a conserved DNA-recognition motif yet require different oligomerization states to form a stable protein-DNA complex. J Biol Chem. 273:19260-19268.

Hansen U. (1999) Transcriptional and structural analyses of isolated SV40 chromatin. In *“Methods in Molecular Biology: Chromatin Protocols”*, Humana Press, Totowa, N.J. vol. 119, pp. 261-290.

Coull JJ, Romerio F, Sun J-M, Volker JL, Galvin KM, Davie JR, Shi Y, **Hansen U**, Margolis DM. (2000) The human factors YY1 and LSF repress the human immunodeficiency virus type-1 long terminal repeat via recruitment of histone deacetylase 1. *J Virol.* 74:6790-6799.

Powell CMH, Rudge TL, Zhu Q, Johnson LF, **Hansen U.** (2000) Inhibition of the mammalian transcription factor LSF induces S-phase-dependent apoptosis by downregulating thymidylate synthase expression. *EMBO J.* 19:4665-4675.

Sewack GF, Ellis TW, **Hansen U.** (2001) Binding of TATA binding protein to a naturally positioned nucleosome is facilitated by histone acetylation. *Mol Cell Biol.* 21:1404-1415.

Frith MC, **Hansen U**, Weng Z. (2001) Detection of *cis*-element clusters in higher eukaryotic DNA. *Bioinformatics* 17:878-889.

Drouin EE, Schrader CE, Stavnezer J, **Hansen U.** (2002) The ubiquitously expressed DNA-binding protein LSF binds immunoglobulin switch regions and represses class switching to IgA. *J Immunol.* 168:2847-2856.

Frith MC, Spouge JL, **Hansen U**, Weng Z. (2002) Statistical significance of clusters of motifs represented by position specific scoring matrices in nucleotide sequences. *Nucleic Acids Res.* 30:3214-3224.

Bruni P, Minopoli G, Brancaccio T, Napolitano M, Faraonio R, Zambrano N, **Hansen U**, Russo T. (2002) Fe65, a ligand of the Alzheimer's β -amyloid precursor protein, blocks cell cycle progression by down-regulating thymidylate synthase expression. *J Biol Chem.* 277:35481-35488.

Pagon Z, Volker J, Cooper GM, **Hansen U.** (2003) Mammalian transcription factor LSF is a target of ERK signaling. *J Cell Biochem.* 89:733-746.

Venkatesan K, McManus HR, Mello CC, Smith TF, **Hansen U.** (2003) Functional conservation between members of an ancient duplicated transcription factor family, LSF/Grainyhead. *Nucleic Acids Res.* 31:4304-4316.

Frith MC, **Hansen U**, Spouge, JL, Weng Z. (2004) Finding functional sequence elements by multiple local alignment. *Nucleic Acids Res.* 32:189-200.

Haverty PM, **Hansen U**, Weng Z. (2004) Computational inference of transcriptional regulatory networks from expression profiling and transcription factor binding data. *Nucleic Acids Res.* 32:179-188.

Frith MC, Fu Y, Yu L, Chen J-F, **Hansen U**, Weng Z. (2004) Detection of functional DNA motifs via statistical overrepresentation. *Nucleic Acids Res.* 32:1372-1381.

Frith MC, Halees AS, **Hansen U**, Weng Z. (2004) Site2genome: Locating short DNA sequences in whole genomes. *Bioinformatics* 20:1468-1469.

O'Lone R, Frith MC, Karlsson EK, **Hansen U**. (2004) Genomic targets of nuclear estrogen receptors. *Mol Endocrinol*. 18:1859-1875.

Veljkovic J, **Hansen U**. (2004) Lineage-specific and ubiquitous biological roles of the mammalian transcription factor LSF. *Gene* 343:23-40.

Haverty PM, Hsiao L-L, Gullans SR, **Hansen U**, Weng Z. (2004) Limited agreement among three global gene expression methods highlights the requirement for non-global validation. *Bioinformatics* 20:3431-3441.

Ylisastigui L, Kaur R, Johnson H, Volker J, He G, **Hansen U**, Margolis D. (2005) Mitogen activated protein kinases regulate LSF occupancy at the human immunodeficiency virus type 1 promoter. *J Virol*. 79:5952-5962.

Haverty PM, Weng Z, **Hansen U**. (2005) Transcriptional regulatory networks activated by PI3K and ERK transduced growth signals in human glioblastoma cells. *J Comput Sci & Technol*. 20:439-445.

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SUBMITTED MANUSCRIPTS

Chin HG, Estève PO, Ruse C, Lee J, Schaus SE, Pradhan S, **Hansen U**. Transcription factor LSF facilitates lysine methylation of α -tubulin by microtubule-associated SET8.

Willoughby JLS, George K, Roberto MP, Chin HG, Stoiber P, Shin H, Pedamallu CS, Schaus SE, Fitzgerald K, Shah J, **Hansen U**. LSF small molecule inhibitors phenocopy LSF-targeted siRNAs causing mitotic defects and senescence in cancer cells.

PATENTS

Scott Schaus, **Ulla Hansen**, Joshua Bishop. [1,3] Dioxolo [4,5-G] [1,2,4] triazolo [1,5-A] quinolone derivatives as inhibitors of the Late SV40 Factor (LSF) for use in treating cancer.

U.S. Patent No. 9,175,001. (Issued November 3, 2015)

U.S. Patent No. 9,399,644. (Issued July 26, 2016)

Ulla Hansen, Scott Schaus, Trevor Grant, Joshua Bishop, John Kavouris, Lisa Christadore. Inhibitors of Late SV40 Factor (LSF) as cancer chemotherapeutics.

U.S. Patent No. 9,597,325. (Issued March 21, 2017)

U.S. Patent No. 9,802,948 B2. (Issued October 31, 2017)

U.S. Patent No. 9,815,845. (Issued November 14, 2017)

POSTDOCTORAL FELLOWS AND VISITING SCIENTISTS

NAME	POSITION	DATES	CURRENT/MOST RECENT POSITION
Daniel G. Tenen, M.D.	Medical Foundation Fellow and Instructor in Medicine	7/83-6/84	Professor of Medicine, Harvard Medical School, Boston, MA; Distinguished Prof in Medicine & Director, Cancer Science Institute of Singapore, National University of Singapore
Chung Han Kim, Ph.D.	Research Fellow	11/84-11/87	Laboratory Manager, Lab of Jane Clifford, Dept. Biochemistry, Drexel Univ. College of Med., Philadelphia, PA
Jonathan Licht, M.D.	NIH Physician Scientist Award and Instructor in Medicine	7/86-9/91	Director, University of Florida Health Cancer Center, Gainesville, FL
Rebecca Sundseth, Ph.D. (maiden name: Furkes)	ACS Research Fellow	1/87-9/91	Teacher, Trinity School of Durham and Chapel Hill, Durham, NC
Sylvie Rimsky, Ph.D.	Visiting Scientist	11/89-12/91	Senior Scientist, LBPA, CNRS, Ecole Normale Supérieure, Cachan, France
Wangdon Yoo, Ph.D.	Research Fellow	2/91-4/92	CEO, GeneMatrix, Korea
Quan Zhu, Ph.D.	Mass ACS Senior Postdoctoral Fellow	7/91-4/96	Instructor, Dana-Farber Cancer Institute and Harvard Medical School, Boston, MA
Han-Fei Ding, Ph.D.	Instructor; Sandoz Drug Discovery Fellow	1/93-12/96	Georgia Cancer Coalition Distinguished Scientist, MCG Cancer Center, Medical College of Georgia, Augusta, GA
Davy Jones, Ph.D.	Visiting Scholar	9/96-12/96	Professor, University of Kentucky, Lexington, KY
Elise Drouin, Ph.D.	Cancer Research Institute Fellow	5/94-11/00	Associate Director, Translational Biomarkers, Agenus, Lexington, MA
Konstantin Ebralidse, M.D.	Research Associate	9/95-6/99	Research Fellow, Beth Israel Hospital, Harvard Medical School, Boston, MA

Zrinka Pagon, M.D.	Infectious Diseases Society of America Research Fellow	11/95-6/99	Owner, World Care Middle Europe Ltd, Croatia
Christina Powell, Ph.D.	Research Fellow	6/99-9/00	Medical Writer, Agenus, Lexington, MA
Gerald Sewack, Ph.D.	Research Fellow	7/98-3/01	Director, TechAtlas Group, Boston, MA
Ying-Bing Zhou, Ph.D.	Research Fellow	5/99-10/03	Senior Scientist, BD Medical, Franklin Lakes, NJ
Utsav Saxena, Ph.D.	Research Fellow	9/08-9/09	Associate Director, Dicerna Pharmaceuticals, Watertown, MA
Girish Barot, Ph.D.	Research Fellow	7/10-8/11	Sr. Analyst, Vitacost.com, Boca Raton, FL
Barbara Ludeke, Ph.D.	Visiting Researcher Research Associate	12/12-3/14 4/14-6/15	Research Associate, Boston Univ. Medical School

GRADUATE STUDENTS (Harvard Medical School and Boston University)

NAME	POSITION	DATES	CURRENT POSITION
Paul Casaz	Graduate Student (HMS)	9/84-6/91	Research Scientist 2, MassBiologics, Boston, MA; Instructor, UMass Medical School, Worcester, MA
Susan Batson	Graduate Student (HMS)	9/84-6/91	Acupuncturist, Brain integration therapist, Mind and Body Healing Ctr, Quincy, MA
Margaret Shirra	NSF Pre-doctoral Fellow (HMS)	9/89-12/95	Research Associate, Laboratory of Karen Arndt, Univ. Pittsburgh Med School
Wendy Hanna-Rose	Graduate Student Ryan Fellow (HMS)	9/90-6/96	Professor and Department Head, Dept. Biochemistry and Molecular Biology, Penn State Univ., University Park, PA
Gerald Sewack	Graduate Student Stauffer Fellow (HMS)	7/91-6/98	Director, TechAtlas Group, Boston, MA
Janet Volker	Graduate Student (HMS)	9/91-10/98	Consultant

Christina Powell	NSF Pre-doctoral Fellow (HMS)	7/92-6/99	Consultant, Scientific writing and management
Jill Koehler Fecko	M.A. Graduate Student MCBB Program	9/99-9/01	Previous: Associate Scientist, Wyeth Pharmaceuticals, Andover, MA; Current: Mother
Jelena (Veljkovic) Garafalo	Ph.D. Graduate Student Dept. of Biology	6/98-5/05	Director, Scientific Strategy & Publications, Takeda Oncology, Cambridge, MA
Martin Frith	Ph.D. Graduate Student Bioinformatics Program Co-advisor: Z. Weng	5/00-12/03	Professor, Tokyo Univ, Japan; and Research Scientist, Computational Biology Research Center, AIST
Kavitha Venkatesan	Ph.D. Graduate Student Bioinformatics Program Co-advisor: T. Smith	5/00-8/04	Group Leader, Bioinformatics, Novartis Institutes of Biomedical Research, Cambridge, MA
Peter Haverty	Ph.D. Graduate Student Bioinformatics Program Co-advisor: Z. Weng	5/00-8/04	Senior Computational Biologist, Genentech, Inc., South San Francisco, CA
Karen Repetny	Ph.D. Graduate Student MCBB Program	5/00-5/06	Assoc. Director, Scientific and Competitive Intelligence, Millenium Pharmaceuticals, Inc., Cambridge, MA
Raegan O'Lone	Ph.D. Graduate Student MCBB Program	5/00-6/06	Sr. Scientific Program Manager, International Life Sciences Inst., Health & Environmental Science, Washington, D.C.
Utsav Saxena	Ph.D. Graduate Student Dept. of Biology Co-advisor: G. Cooper	5/00-8/08	Associate Director, Dicerna Pharmaceuticals, Inc. Watertown, MA
Nan Zhu	Ph.D. Graduate Student Dept. of Biology	5/01-7/07	Associate Investigator, Blood Center of Wisconsin, Milwaukee, WI
Roxanne Cacioppo	Ph.D. Graduate Student MCBB Program	5/01-8/07	Director, Global Medical Affairs, Millenium Pharmaceuticals, Inc., Cambridge, MA
Audra Kauffman	M.A. Graduate Student	5/03-8/04	Editor, N2 Publishing, Noblesville, IN

Stephanie (Tauber) Schneider	Ph.D. Graduate Student Bioinformatics Program Co-advisor: T. Smith	9/06-9/13	Senior Data Analyst, Massachusetts General Hospital, Boston, MA
Laura Owens	M.A. Graduate Student MCBB Program, Claire Boothe Luce Fellow	4/08-6/10	Dietician, Newton-Wellesley Hospital, MA
Hang Gyeong (Gene) Chin	M.A. Graduate Student Ph.D. Graduate Student MCBB Program	9/09-8/13 9/13-12/16	Research Scientist II, New England BioLabs, Ipswich, MA
Jennifer Sherman Willoughby	Ph.D. Graduate Student Dept. of Biology	10/10-9/16	Manager, Communication and Publications, Medical Affairs, Anylam Pharmaceuticals, Cambridge, MA
W. David Church	M.A. Graduate Student	5/11-8/13	Senior Research Associate, Ribon Therapeutics, Lexington, MA
Sarah Yunes	Ph.D. Graduate Student MCBB Program	5/13-	
Patrick Stoiber	Ph.D. Graduate Student MCBB Program '14-'16 XTNC (Cross- disciplinary Training in Nanotechnology for Cancer) Fellowship	5/14-	
Anushya Pandian	M.A. Graduate Student MCBB Program	1/17-9/18	Research Associate, Kintai Therapeutics, Cambridge, MA

UNDERGRADUATE STUDENTS (Boston University)

NAME	ADVISOR	DATES	CURRENT POSITION
Essi Vulli	Research Assistant	6/98-8/98	Anesthesiologist, Phoenix, AZ
Nicolas Aguirre	Research Assistant and Undergrad Researcher	6/99-6/00	Master's Graduate student, School of Public Health, UMDNJ, Piscataway, NJ
Gina Mantia (-Smaldone)	Undergrad Researcher, Work for Distinction	9/99-9/00	PhD Student, Northwestern University
Brian McLaughlin	Undergrad Researcher	9/00-5/01	Clinical Administrator, Dana-Farber Cancer Institute
Michael Arena	Undergrad Researcher	1/01-5/01	Medical Student, Boston Univ. School of Medicine
Pavani Srimatkandada	Undergrad Researcher, UROP funding	9/01-5/02	Research Technician, Yale Medical School
Vikram Sathyendra	SREU Summer Researcher	6/02-11/02	
Tracy Madsen	Undergrad Researcher	9/02-5/04	Medical Student, Boston Univ. School of Medicine
Heather McManus	Undergrad Researcher, Work for Distinction, UROP funding (summer)	9/02-5/04	Freelance Research Consultant and Content Editor
Tiffany Elliott	SREU Summer Researcher	6/03-5/04	Master's Graduate student, Biomedical Engineering, Drexel University, Philadelphia
Sara Allawi	BU Academy student	6/03-8/03	Undergraduate, McGill Univ.
Felix Nautsch	Undergrad Researcher UROP funding	9/05-5/07	Medical Master's Program, NY Medical College
Sharda Mukunda	Undergrad Researcher	9/05-5/06	
Zirve Yigit	Undergrad Researcher	9/06-5/07	
Xi Chen	Undergrad Researcher, Work for Distinction, UROP funding	1/07-5/09	Medical student, U Mass Worcester Medical School
Michael Kaufmann	Undergrad Researcher	5/07-5/08	Senior Associate - Pharma, Life Sciences R&D Advisory, PwC, NY
Nathalee Kong	Work/Study Student, Work for Distinction, Undergrad Researcher	9/07-5/09	Medical student, U Mass Worcester Medical School

Trevor Grant	BA/MA Researcher UROP/NEB funding	9/08-6/10	Research Scientist, Minerva Biotechnologies, Waltham, MA
Gina Daniel	Undergrad Researcher, Work for Distinction	1/09-5/10	Graduate student, Northwestern Univ, Chicago
Steven Iacono	Lab volunteer	9/09-12/09	
Lucy Flynn	Undergrad Researcher, Work/Study Student, Work for Distinction, UROP: Clare Boothe Luce Scholar Award; Francis Bacon Award for Writing Excellence in the Natural Sciences	4/10-5/12	Medical Student, Boston Univ., Boston, MA
Sarah Woodson	Undergrad Researcher, Work for Distinction, UROP: CAS Summer Research Scholar	6/10-6/11	Medical Student, Univ. Penn., Philadelphia, PA
Steven Kim	Undergrad Researcher, Honors Research, UROP: New England Biolabs Summer Award	1/11-6/13	Medical Student, Temple University School of Medicine, Philadelphia, PA
Carmine Ballarano	Work/Study student, UROP: CAS Summer Research Scholar	5/11-8/12	Medical Student, New York Medical College, NY
Stephanie (Qianhui) Liang	Undergrad Researcher, UROP (Spring '12, '13) Honors Research	5/11-5/14	Medical student, Boston Univ., Boston, MA
Casandra Chen	UROP Frog (Fall 2011)	9/11-5/12	
Umaru Barrie (U Mass, Amherst)	SURF (Summer 2012)	6/12-8/12	Medical Student, Univ. Mass. Worcester, Worcester, MA
Linying Zhang	Undergrad Researcher, Honors Research	3/13-5/14	PhD Student, Biomedical Informatics, Columbia University, New York, NY
Mark Roberto	Undergrad Research, UROP (Fall 2013, Summer 2014)	10/13-5/15	PhD student, Mt. Sinai School of Medicine, New York, NY
Kathryn Vessel	Undergrad Researcher UROP (Summer 2014)	9/13-12/14	SAR honor's project, Boston University
(Ian) Paolo Mauricio	BA/MA Researcher UROP FROG (Fall '14)	9/14-5/15	Medical Student, Boston University Medical School, Boston, MA

Blake Chancellor	SURF student	6/14-9/14	PhD Student, Harvard Medical School, Boston, MA
Deena Qadir	BA/MA Researcher UROP (Summer 2015)	1/15-5/16	Research Associate II, Fulcrum Therapeutics, Cambridge, MA
Jennifer Baily	Undergrad Researcher UROP (Summer + Fall 2016; Spring 2017)	2/15-6/17	PhD student, UC Davis, CA
James Whall	Undergrad Researcher UROP (Fall 2015, Spring 2017)	2/15-6/17	Medical Student, California Northstate University, Elk Grove, CA
Pietro Scribani	BA/MA Researcher UROP (Summer 2016)	1/16-6/17	Medical Student, Italy
Elizabeth Grinkevich	BA/MA Researcher UROP (Spring + Summer 2017)	1/17-12/17	Research Assoc I, Greka lab, Broad Institute, Cambridge, MA
Flaminio Pavesi	BA/MA Researcher	1/17-5/18	Medical Student, BU Medical School, Boston, MA
Selin Gumusderelioglu	Undergrad Honor's Researcher UROP (Summer 2018)	1/17-5/19	PhD student, UC Davis
Jean Luc Germany	Biology Honor's Research	9/18-5/19	