

CURRICULUM VITAE

James Tilford Elder, M.D., Ph.D.
Kirk D. Wuepper Professor of Molecular Genetic Dermatology
University of Michigan Department of Dermatology
and Comprehensive Cancer Center
3312 CCGC
1500 East Medical Center Drive
Ann Arbor, MI 48109-5932
Phone: 734-763-0357
Fax: 734-763-4575
E-mail: jelder@umich.edu

EDUCATION

9/1966-6/1970	Southwest High School, Kansas City, Missouri
9/1970-6/1974	Northwestern University, Evanston, Illinois; B.S. (Biomedical Engineering with highest distinction)
9/1974-6/1981	Yale University School of Medicine, New Haven, Connecticut; M.D. (Medical Scientist Training Program)
9/1974-6/1982	The Graduate School of Yale University; Ph.D. (Molecular Biophysics and Biochemistry)

POSTDOCTORAL TRAINING

6/1981-6/1982	Postdoctoral Fellow, Department of Chemistry, University of California at Berkeley
7/1982-6/1983	Intern in Internal Medicine, University of Washington School of Medicine at Seattle
7/1983-7/1986	Senior Fellow in Dermatology, University of Washington at Seattle
8/1986-6/1988	Senior Research Fellow in Dermatology, University of Michigan

ACADEMIC APPOINTMENTS

1988-1994	Assistant Professor, Department of Dermatology, University of Michigan
1988-	Physician, Department of Dermatology, Veterans Administration, Ann Arbor, MI, and Toledo, OH
1992-1994	Assistant Professor, Department of Radiation Oncology, Division of Cancer Biology, University of Michigan
1994-2002	Associate Professor, Department of Dermatology, University of Michigan
1994-2002	Associate Professor, Department of Radiation Oncology, Division of Cancer Biology, University of Michigan
2002-2008	Professor, Department of Radiation Oncology, Division of Cancer Biology, University of Michigan
1994	Member, Graduate Program in Cellular & Molecular Biology, University of Michigan
1994-	Member, Center for Molecular Medicine and Genetics, University of Michigan
2002-2008	Professor, Department of Dermatology, University of Michigan Kirk D. Wuepper Professor of Molecular Genetic Dermatology, University of Michigan

CONSULTING POSITIONS

- 1993-1998 Oklahoma Center for the Advancement of Science and Technology
Oklahoma Health Research Program (continuation grant review)
1999-2002 Medical Advisory Board, National Psoriasis Foundation
2006- Committee on Scientific Programs, Society for Investigative
Dermatology,
2008- Scientific Advisory Committee, Lupus Family Registry and
Repository
2009- Scientific Advisory Committee, National Psoriasis Foundation

SCIENTIFIC ACTIVITIES

Editorial Boards

- 1987 *Laboratory Investigation*, Reviewer
1989- *Journal of Investigative Dermatology*, Reviewer
1989- *Journal of Cellular Physiology*, Reviewer
1990- *Archives of Dermatology*, Reviewer
1991- *Experimental Dermatology*, Advisory Board until 2007
1992- *American Journal of Pathology*, Reviewer
1992- *Molecular and Cellular Biology*, Reviewer
1992- *British Journal of Cancer*, Reviewer
1992- *Journal of Clinical Investigation*, Reviewer
1993- *British Journal of Dermatology*, Reviewer
1993- *Cancer*, Reviewer
1994- *Skin Pharmacology*, Reviewer
1994- *Archives of Dermatological Research*, Reviewer
1994- *Proceedings of the National Academy of Sciences*, Reviewer
1994- *Genomics*, Reviewer
1994- *Cancer Research*, Reviewer
1995- *Blood*, Reviewer
1996- *Journal of Dermatologic Science*, Reviewer
1997- *American Journal of Human Genetics*, Reviewer
1998- *Differentiation*, Reviewer
1998- *Clinical Cancer Research*, Reviewer
1999- *Clinical and Experimental Dermatology*, Editorial Board
2000- *Biochimica Biophysica Acta*, Reviewer
2000- *Neoplasia*, Reviewer
2000- *Science*, Reviewer
2001- *Dermatology*, Reviewer
2001- *FASEB Journal*, Reviewer
2001- *Nature Medicine*, Reviewer
2001- *Cancer Biomarkers, Epidemiology, and Prevention*, Reviewer
2002- *International Journal of Dermatology*, Reviewer
2002- *Journal of Rheumatology*, Reviewer
2002- *Journal of Investigative Dermatology*, Associate Editor
2002- *Endocrine Reviews*, Reviewer
2002- *Physiological Genomics*, Reviewer
2003- *Archives of Dermatological Research*, U.S. Editor
2003- *Journal of Clinical Immunology*, Reviewer
2003- *Journal of Cell Science*, Reviewer
2003- *Human Molecular Genetics*, Reviewer
2003- *Journal of Medical Genetics*, Reviewer
2005- *Human Genetics*, Reviewer
2005- *Molecular Pharmacology*, Reviewer

2005 *Nature Genetics*, Reviewer
 2006 *Nature*, Reviewer
 2006 *Clinical and Experimental Dermatology*, Reviewer
 2006 *Journal of the American Academy of Dermatology*, Reviewer
 2006 *Genes and Immunity*, Reviewer
 2007 *PLOS Biology*, Reviewer
 2009 *Trends in Immunology*, Reviewer
 2009 *American Journal of Physiology*, Reviewer

Study Sections

1992 National Institute of Arthritis and Musculoskeletal and Skin Diseases, Skin Disease Research Centers
 1993-95 Oklahoma Center for the Advancement of Science and Technology Oklahoma Health Research Program Peer Review Panel
 1994- General Clinical Research Center, University of Michigan, Reviewer.
 1995 National Institutes of Health, General Medicine A-2 Study Section.
 1995-98 Dermatology Foundation, Medical and Scientific Committee
 1996 National Institute of Health Division of Research Grants, Scientific Review & Information Systems, ZRG4 (OBM-1)
 1995-2001 Society for Investigative Dermatology, Committee on Scientific Programs, Reviewer
 1998 National Institutes of Health Division of Research Grants, Scientific Review & Information Systems, ZRG1-OBM-1 (02), Clinical Sciences Special Review Panel.
 1999 Wellcome Trust, Biological Collections Committee, reviewer.
 1999 National Institutes of Health Division of Research Grants, Scientific Review & Information Systems, ZRG1-OBM-1 (01), Clinical Sciences Special Emphasis Panel.
 1999 National Institutes of Health Center for Scientific Review, Scientific Review & Information Systems, ZRG-GMA-1 (3B) Small Business Innovation Research Special Emphasis Panel
 2000 National Institutes of Health Center for Scientific Review, Scientific Review & Information Systems, ZRG-GMA-1 (01) Small Business Innovation Research Special Emphasis Panel
 2000 National Institute of Arthritis and Musculoskeletal and Skin Diseases Special Emphasis Panel 2001/01 Council ZAR1 AAA-A (J3), Skin Disease Research Centers
 2001 National Institutes of Health Center for Scientific Review, Scientific Review & Information Systems, 2001/05 Council ZRG-GMA-1
 2001 National Institutes of Health Center for Scientific Review, Scientific Review & Information Systems 2001/05 Council ZRG1 GMA-1 (10) Small Business Innovation Research Special Emphasis Panel
 2001 Wellcome Trust, London, UK, Reviewer
 2001 Michigan Diabetes Research and Training Center, Reviewer
 2001 National Institute of Health Center for Scientific Review, Scientific Review & Information Systems 2002/01 Council ZRG1 GMA-101 (10B) Small Business Innovation Research Special Emphasis Panel
 2002 National Institute of Arthritis, Musculoskeletal and Skin Diseases Loan Repayment Program Evaluation Panel, Reviewer

- 2002 National Institute of Arthritis, Musculoskeletal and Skin Diseases Special Emphasis Panel ZAR1 TAS-D O3 1, Individual Postdoctoral Fellowships in Epidemiology / Clinical Research / Outcomes Research in Skin Diseases
- 2003 National Institutes of Health Center for Scientific Review, Special Emphasis Panel ZRG1-OBM-2-03
- 2003 National Institutes of Health Center for Scientific Review, Special Emphasis Panel 2003/10 Council ZRG1-ALY-01-1
- 2004 National Institutes of Health Center for Scientific Review, Special Emphasis Panel 2004/6 Council ZRG1-ACTS 01Q
- 2004 National Institutes of Health Center for Scientific Review, Special Emphasis Panel ZRG1-MOSS-C 12
- 2004 National Institutes of Health Center for Scientific Review, Special Emphasis Panel 2004/10 Council ZRG1-ACTS 01Q
- 2004 National Institutes of Health Center for Scientific Review, Special Emphasis Panel ZRG1-MOSS-D 12
- 2004 VA Merit Review, Immunology B Study Section, Spring 2004
- 2004 VA Merit Review, Immunology B Study Section, Fall 2004
- 2005- Society for Investigative Dermatology, Committee on Scientific Programs, Reviewer
- 2005 Texas A&M University, Center for Environmental and Rural Health Pilot Project Program, *ad hoc* reviewer
- 2005 National Psoriasis Foundation Fellowship Selection Committee, Reviewer
- 2006 VA Merit Review Immunology A Study Section, Fall 2006
- 2007 Michigan Institute for Clinical and Health Research Pilot and Collaborative Grant Program, University of Michigan, Reviewer
- 2007 National Institute of Arthritis, Musculoskeletal and Skin Diseases Special Emphasis Panel ZAR1 MLB-G 01 1, "Centers of Research Translation", May 23-24, 2007
- 2008 National Institute of Arthritis, Musculoskeletal and Skin Diseases Special Emphasis Panel ZAR1 MLB-G M1 1, "Building Interdisciplinary Research Team (BIRT) Revision Awards (R01), June 24-25, 2008
- 2008 Veterans Administration Career Development (CADE) Study Section, August 6, 2008, reviewer
- 2009 National Institute of Arthritis, Musculoskeletal and Skin Diseases Special Emphasis Panel, ARRA RC1 Challenge Grants, June 5, 2009, primary reviewer

GRANT SUPPORT

Recent

- National Institutes of Health, National Institute for Arthritis, Musculoskeletal and Skin Diseases (R29-AR40016), "TGF- α and Tyrosine Kinase Activation in Psoriasis"; 50% percent effort; role on project: Principal Investigator; 07/01/89-06/30/94 (approximately \$70,000 direct costs annually).
- Dermatology Foundation Research Grant, "Positional Cloning of Epidermal Differentiation Genes"; role on project: Principal Investigator; 1/1/93-12/31/93 (approximately \$10,000 direct costs annually)
- National Institutes of Health, National Center for Human Genome, Research Genomic Technology/Genetic Disease Pilot/Feasibility Study (P30-HG00209-03), "Directed Linkage Analyses of Familial Psoriasis"; 20%

- effort; Francis Collins, PI; role on project: Investigator; 08/01/93-7/31/94 (approximately \$20,000 direct costs annually)
- Dermatology Foundation Research Grant, “Role of Keratinocyte EGF Receptor Activation in Human Skin Angiogenesis”; role on project: Principal Investigator / Mentor; 07/01/95-06/30/96 (approximately \$10,000 direct costs)
- National Institutes of Health Training Grant (T32AM07197-16), “Training Grant in Cell and Molecular Dermatology”; John Voorhees, PI; role on project: Preceptor; 07/01/92-06/30/97 (approximately \$90,648 direct costs annually)
- Department of Veterans Affairs Merit Review, “Expression and Function of CaN19 in Malignant Progression”; 25 percent effort; role on project: Principal Investigator; 10/1/94 - 9/30/97 (approximately \$92,500 direct costs annually)
- National Institutes of Health, National Institute for Arthritis, Musculoskeletal and Skin Diseases (R01-AR42742-04), “Linkage Analysis of Familial Psoriasis”; 20 percent effort; role on project: Principal Investigator; 3/1/94 - 2/28/98 (approximately \$198,200 direct costs annually)
- National Institutes of Health, National Institute for Arthritis, Musculoskeletal and Skin Diseases (R01-AR42742-04S1), “Linkage Analysis of Familial Psoriasis” (Supplement); role on project: Principal Investigator; 03/01/97-02/28/98 (\$87,760 direct costs)
- National Institutes of Health, National Institute for Arthritis, Musculoskeletal and Skin Diseases (R01-AR42248-05), “Positional Cloning of Epidermal Differentiation Genes”; 25% effort; role on project: Principal Investigator; 12/01/93-7/31/99 (approximately \$544,560 total direct costs)
- Dermatology Foundation, “EGF Receptor Regulation of Apoptosis in Wound Healing”; role on project: Principal Investigator / Mentor; 07/01/97 - 06/30/98; (\$25,000 direct costs)
- Dermatology Foundation, “Mapping Locus Control Regions in the Epidermal Differentiation Complex”; role on project: Principal Investigator / Mentor; 07/01/97 - 06/30/98 (\$10,000 direct costs)
- University of Michigan Medical School, Clinical Research Partnership Fund, “JNK/TGF- β Signaling in Cutaneous Wound Healing”; 5% effort; role on project: Principal Investigator; 2/1/99 – 1/31/01 (\$50,000 direct costs annually)
- National Psoriasis Foundation, Psoriasis Linkage Consortium; role on project: Investigator; 9/1/98–8/31/00 (\$40,000 direct costs)
- National Psoriasis Foundation, “Molecular Genetics of Familial Psoriasis; role on project: Principal Investigator; 9/1/00–8/31/01, (\$150,000 direct costs)
- VA Merit Review (VA #321), “CaN19 Function in Regenerative Epidermal Differentiation”; 25% effort; role on project: Principal Investigator; 4/01/98–09/30/01 (\$98,500 direct costs annually)
- National Institutes of Health Training Grant (T32-AR017979-25), “Training Grant in Cell and Molecular Dermatology”; John Voorhees, PI; role on project: Preceptor; 05/01/97–04/30/02 (\$112,248 direct costs annually)
- National Institutes of Health, National Institute for Arthritis, Musculoskeletal and Skin Diseases (R01-AR42742); 20% effort; role on project: Principal Investigator; “Linkage Analysis of Familial Psoriasis”; 3/1/98–2/28/03 (\$272,171 direct costs annually)
- National Institutes of Health, National Institute for Arthritis, Musculoskeletal and Skin Diseases (R01-AR42742 S2), “Linkage Analysis of Familial

- Psoriasis (Supplement)”; role on project: Principal Investigator; 3/1/98 - 2/28/03 (\$175,000 total direct costs)
- National Institutes of Health, National Institute for Arthritis, Musculoskeletal and Skin Diseases (R21 AR48405-01), “Organ Culture of Basal Cell Carcinoma”; 10% effort; role on project: Principal Investigator; 9/28/01 – 7/31/03 (\$ 50,000 direct costs annually)
- National Cancer Institute, National Institutes of Health (P50-CA69568), SPORE in Prostate Cancer, Kenneth Pienta, PI; role on project, Pilot Project PI, 2/1/03 – 7/31/03 (\$25,000 total direct costs)
- VA Merit Review, “S100A2 in Oxidative Stress and Carcinogenesis”; 25% effort; role on project: Principal Investigator; 4/1/02 – 3/31/05 (\$135,000 direct costs annually)
- Dermatology Foundation Research Fellowship, “Novel Xenograft Model of Psoriasis”; 0% effort; role on project: Principal Investigator / Mentor; 07/01/05-06/30/06 (\$30,000 direct costs)
- American Skin Association, “Novel Xenotransplantation Models in Psoriasis”; 0% effort, role on project: Principal Investigator / Mentor; 1/1/06-12/31/06 (\$15,000 direct costs)
- Foundation for the National Institutes of Health; Genetic Association Information (GAIN) Network, “Collaborative Association Study of Psoriasis”: Goncalo Abecasis, PI: Role on project, Co-Investigator; 7/1/06-6/30-07 (approximately \$2,000,000 in genotyping services provided and \$65,000 in direct costs)
- National Institutes of Health Training Grant (T32-AR017979-30), “Training Grant in Cell and Molecular Dermatology”; 5% effort; role on project: Principal Investigator; 05/01/02–04/30/08 (\$148,507 direct costs annually).

Current

- National Institutes of Health, National Institute for Arthritis, Musculoskeletal and Skin Diseases (R01-AR42742); “Linkage Analysis of Familial Psoriasis”; 15% effort; role on project: Principal Investigator; 4/1/04 – 3/31/10 (\$350,000 direct costs annually)
- National Institutes of Health, National Institute for Arthritis, Musculoskeletal and Skin Diseases (R01-AR050511); “Identification of Psoriatic Arthritis Genes in the MHC”, James T. Elder, PI; 5% effort; role on project: Principal Investigator; 4/1/04 – 3/31/10 (\$175,000 direct costs annually)
- National Institutes of Health, National Institute for Arthritis, Musculoskeletal and Skin Diseases (R01-AR052889-03); “Amphiregulin in Psoriatic Epidermal Hyperplasia”; 10% effort; role on project: Principal Investigator; 1/1/07 – 12/31/11 (\$250,000 direct costs annually).
- National Institutes of Health, National Institute for Arthritis, Musculoskeletal and Skin Diseases (R01-AR054966-02S1); “Combined Analysis of Gene Expression and Genetic Variation in Psoriasis”; 20% effort; role on project: Principal Investigator; 4/1/06 – 3/31/11 (\$499,361 direct costs annually)
- National Institutes of Health, National Institute for Arthritis, Musculoskeletal and Skin Diseases (R01-AR054966-02S1); “Combined Analysis of Gene Expression and Genetic Variation in Psoriasis (Supplement)”; 0% effort; role on project: Principal Investigator; 9/1/08 – 8/31/09 (\$50,000 direct costs)
- National Institutes of Health Training Grant (T32-AR017979-32), “Training Grant in Cell and Molecular Dermatology”; 5% effort; role on project:

- Principal Investigator; 05/01/08 – 04/30/13 (\$190,084 direct costs annually)
- Foundation for the National Institutes of Health; Genetic Association Information (GAIN) Network, “Collaborative Association Study of Psoriasis”: Goncalo Abecasis, PI; Role on project, Co-Investigator; 7/1/06-6/30-07 (approximately \$2,000,000 in genotyping services provided and \$65,000 in direct costs)
- National Institutes of Health Training Grant (T32-AR017979-30), “Training Grant in Cell and Molecular Dermatology”; 5% effort; role on project: Principal Investigator; 05/01/02–04/30/08 (\$148,507 direct costs annually).
- National Institute of Child Health and Development Developmental Biology, Genetics and Teratology Branch (T32-HD07505), Training Program in Organogenesis; Deborah Gumucio, PI; role on project: Mentor; 5/01/07 – 4/30/12 (\$308,000 direct costs annually)
- National Cancer Institute, National Institutes of Health (T32-CA09676), Cancer Biology Training Program; Michael Imperiale, PI; role on project: Mentor; 5/1/98 – 4/30/03 (approximately \$956,900 total direct costs)
- National Institutes of General Medical Sciences, National Institutes of Health (T32-GM07315-31), Graduate Program in Cellular and Molecular Biology; Jessica Schwartz, PI; role on project: Mentor; 7/1/75 – 6/30/12 (\$577,808 direct costs annually)
- American Skin Association Research Scholar Grant, “Biological effects of genetic variation in the IL12B and IL23R genes in psoriasis”, 0% effort, role on project: Mentor. (Johann Gudjonsson, Principal Investigator); 04/01/08-4/31/10 (\$75,000 direct costs annually)
- Dermatology Foundation Research Grant, “Biological effects of genetic variation in the IL 12B and IL23R”; 0% effort; role on project: Mentor. (Johann Gudjonsson, Principal Investigator); 07/01/08-06/30/09 (\$20,000 direct costs)
- National Psoriasis Foundation Research Grant, “Phenotype and function of IL-17-secreting T-cells in psoriasis”; 0% effort, role on project: Mentor. (Allen Bruce, Principal Investigator); 07/01/08-06/30/09 (\$50,000 direct costs annually)
- Dermatology Foundation Physician Scientist Career Development Grant, “Phenotype and function of IL-17-secreting T-cells in psoriasis”; 0% effort, role on project: Mentor. (Allen Bruce, Principal Investigator); 07/01/08-06/30/11 (\$55,000 direct costs annually)

Pending

- National Institutes of Health, National Institute for Arthritis, Musculoskeletal and Skin Diseases (R01-AR42742); “Linkage Analysis of Familial Psoriasis”; 10% effort; role on project: Principal Investigator; 7/1/09 – 6/31/14 (approximately \$490,000 direct costs annually)
- National Institutes of Health, National Institute for Arthritis, Musculoskeletal and Skin Diseases (R01-AR050511); “Identification of Psoriatic Arthritis Genes”, James T. Elder, PI; 10% effort; role on project: Principal Investigator; 12/1/09 – 11/30/14 (\$495,000 direct costs annually)
- Department of Defense, Department of the Army/USAMRAA “Replication and fine mapping of psoriatic arthritis susceptibility loci identified by GWAS”, James T. Elder, Partnering Principal Investigator, 5% effort 03/01/10-02/28/12. Total amount requested \$318,202.

National Institutes of Health, National Institute for Arthritis, Musculoskeletal and Skin Diseases (RC1AR058315-01); “Genotyping the NPF Biobank for Psoriasis Susceptibility Genes”, James T. Elder, PI; 5% effort, role on project: Principal Investigator, 10/1/09-09/30/11. Total amount requested \$992,985.

CERTIFICATION AND LICENSURE

- 1983 Washington Medical Licensure, #252-09 0021039 (inactive)
- 1986 Michigan Medical Licensure, #407650
- 1988 American Board of Dermatology

MILITARY SERVICE

None

HONORS AND AWARDS

- 1981 Medical Scientist Training Program Award for Outstanding Academic Achievement
- 1987 Stelwagon Prize for outstanding resident research, American Academy of Dermatology
- 1991 Howard Fox Visiting Professor, New York University Medical Center, New York, NY
- 1993 Visiting Professor, 10th Annual Course for Consultants & Registrars, Brighton, U.K.
- 1993 Visiting Professor, University of Kiel, Germany.
- 1995 Visiting Professor, University of Amsterdam, the Netherlands
- 1995 Visiting Professor, University of Nijmegen, the Netherlands
- 1998 Louis Forman Visiting Professor, St. John’s Institute of Dermatology, London, UK
- 1998 Visiting Professor, University of Leicester, UK
- 1999 Visiting Professor, Case Western Reserve University, Cleveland, OH
- 2000 Visiting Professor, University of Gothenburg, Sweden
- 2001 Visiting Professor, University of Cape Town, South Africa
- 2001 American Dermatological Association
- 2003- Best Doctors in America
- 2004 Visiting Professor, Ottawa Dermatologic Society, Ottawa, Canada
- 2005 Visiting Professor, Canadian Dermatological Association, Quebec
- 2005 Visiting Professor, Shanghai Dermatological Society, China
- 2005 Visiting Professor, Chinese Society for Investigative Dermatology, China
- 2006 American Skin Association Award for Outstanding Achievement in Psoriasis
- 2007 Visiting Professor, Department of Dermatology, University of Cincinnati, Cincinnati, OH
- 2007 Visiting Professor, Department of Dermatology, University of Pennsylvania, Philadelphia, PA
- 2008 Kirk D. Wuepper Professor of Medical Genetic Dermatology, University of Michigan
- 2008 Visiting Professor, Department of Cellular and Developmental Biology, Oregon Health Science University, Portland, OR
- 2009 Eugene Farber Lecturer, Society for Investigative Dermatology, Montreal, Canada

MEMBERSHIPS AND OFFICES IN PROFESSIONAL SOCIETIES

American Dermatological Association
American Academy of Dermatology
Society for Investigative Dermatology
2006-present Committee on Scientific Programs
American Society for Human Genetics
National Psoriasis Foundation,
1999-2002 Medical Advisory Board
2009- Scientific Advisory Committee
Dermatology Foundation
Michigan Dermatological Society

TEACHING ACTIVITIES

National and International

1988-92 Lecture, "Mechanisms of Action of Antipsoriatic Drugs", Focus Session, American Academy of Dermatology
1988 Lecture, "Chromatin Structure and Gene Expression in Deletion-type Hereditary Persistence of Fetal Hemoglobin (HPFH)" Institute of Human Genetics Seminar, University of Minnesota, Minneapolis
1990 Lecture, "Regulation of Epidermal Growth and Gene Expression by Transforming Growth Factors and Retinoic Acid", INSERM-U.184/CWRS-LGME, Strasbourg, France.
1990 Lecture, "Autocrine and Paracrine Regulation of Keratinocyte Growth", Cutaneous Biology Research Center, Department of Dermatology, Harvard Medical School, Massachusetts General Hospital, Boston
1990 Lecture, "Autocrine and Paracrine Regulation of Keratinocyte Growth", Department of Dermatology Grand Rounds, University of California at San Francisco
1991 Howard Fox Lecture, "Autocrine and Paracrine Regulation of Keratinocyte Growth", New York University Medical Center, New York
1991 Lecture, "Expression of Retinoic Acid Receptors and Binding Proteins in Human Skin", Department of Dermatology, The University of Washington, Seattle
1993 Lecture, "Psoriasis: Recent Molecular Genetic Clues", 10th Annual Course for Consultants & Registrars, Brighton, U.K.
1993 Lecture, "Molecular Genetics of Psoriasis", University of Kiel, Kiel, Germany.
1993 Lecture, "Basics of Genetic Linkage and Mapping: In Search of the Psoriasis Gene", Overview of Molecular Biology Course, American Academy of Dermatology
1994 Peter Horvath Lecture, "The Genetics of Psoriasis", DC Dermatologic Society Meeting, Washington, DC, 1994.
1995 Lecture, "EGF receptor activation increases accumulation of multiple EGF-like growth factors mRNAs by increasing mRNA stability", Department of Dermatology, Nijmegen University, Nijmegen, The Netherlands

- 1995 Keynote lecture, "The Genetics of Psoriasis: HLA and Beyond", Amsterdam Dermatological Society, Department of Dermatology, University of Amsterdam, Amsterdam, The Netherlands, 1995.
- 1995 Lecture, "The Genetics of Psoriasis: HLA and Beyond", Department of Immunology, Kiel University, Kiel, Germany
- 1996 Lecture, "Search for Psoriasis Genes: Genetics and Pathobiology", The Jackson Laboratories, Second Mouse Skin and Hair Mutation Meeting, Bar Harbor, ME
- 1996 Lecture, "Molecular Genetics: the final answer?", Clinical Dermatology 2000, Vancouver, Canada
- 1996 Lecture, "The Molecular Genetics of Psoriasis", Clinical Dermatology 2000, Vancouver, Canada
- 1997-2000 Lecture, "Genetics of Psoriasis, HLA & Beyond", Focus Session, American Academy of Dermatology
- 1997 Lecture, "Genes and Cutaneous Inflammation - Psoriasis", The World Congress of Dermatology, Sydney, Australia
- 1997 Lecture, "Antenatal Diagnosis of Lamellar Ichthyoses", The World Congress of Dermatology, Sydney, Australia.
- 1997 Lecture, "Genetics of Psoriasis, HLA and Beyond"; Chair, Genetics of Psoriasis Workshop, The World Congress of Dermatology, Sydney, Australia
- 1997 Lecture, "The Genetics of Psoriasis: HLA and Beyond", Grand Rounds, Department of Dermatology, University of Cincinnati
- 1998 Lecture, "Psoriasis is a genetic disease - how is it inherited?", Course on Clinical Disease and its Molecular Basis, American Academy of Dermatology, Orlando
- 1998 Louis Forman Lecture, "Genetics of Psoriasis: HLA and Beyond," St. John's Institute of Dermatology, London, UK
- 1998 Lecture, "Early Events in Cutaneous Wound Healing," St. John's Institute of Dermatology, London, UK
- 1998 Lecture, "Genetics of Psoriasis: HLA and Beyond," Departments of Dermatology and Genetics, University of Leicester, UK
- 1999 Audiotape Lecture, "Genetics of Psoriasis," Dialogues in Dermatology, American Academy of Dermatology
- 1999 Lecture, "Signaling Networks Controlling Skin Re-Epithelialization," Skin Diseases Research Center, Department of Dermatology, Case Western University, Cleveland
- 1999 Lecture, "Role of S100A2 in Keratinocyte Responses to Oxidative Stress", Department of Pediatrics, University of Zurich, Switzerland
- 2000 Ph.D. thesis opponent, for thesis entitled "Genetic Susceptibility to Psoriasis in Sweden," by Fredrik Enlund, Department of Clinical Genetics, Faculty of Medicine, Göteborg University, Göteborg, Sweden
- 2000 Lecture, "The Search for PSORS1, the HLA-linked Genetic Determinant of Psoriasis Susceptibility," Department of Clinical Genetics, Sahlgrenska University Hospital, Göteborg, Sweden
- 2001 Lecture, "The Genetics of Psoriasis: A Clinician's Perspective," Texas Dermatological Society Meeting, Houston, TX, May, 2001
- 2001 Lecture, "The Genetics of Psoriasis: HLA and Beyond", Department of Dermatology, University of Cape Town, South Africa, August, 2001
- 2002 Lecture, "What's New: Psoriasis," American Dermatological Association Annual Meeting, Dallas, TX, September 29, 2002

- 2002 Lecture, "Update on Dermatological Disorders: Eczema, Psoriasis, and Acne", Flower Hospital, Sylvania, OH
- 2003 Lecture, "Genetics of Psoriasis", Focus Session, American Academy of Dermatology, San Francisco, CA, March 21, 2003
- 2003 PhD Thesis Opponent (Examiner) for thesis entitled "Molecular Genetics of Psoriasis", by Kati Asumalahti, Department of Human Genetics, University of Helsinki, Helsinki, Finland
- 2006 Lecture, "Common Dermatological Disorders", Toledo VA Outpatient Clinic, Toledo, OH, December 6, 2006
- 2007 Lecture, "Genetic Dissection of Psoriasis", Irvin H. Blank Lecturer, Society for Investigative Dermatology, Los Angeles, CA, May 9, 2007
- 2007 Lecture, "Psoriasis: From Molecular Biology to Advances in Therapeutics", Hospital de Clinicas, Montivideo, Uruguay, September 28, 2007
- 2007 Lecture, "Genetic Dissection of Psoriasis", Department of Dermatology, University of Cincinnati, Cincinnati, OH October 25, 2007
- 2007 Lecture, "Genetic Dissection of Psoriasis", Department of Dermatology, University of Pennsylvania, Philadelphia, PA November 1, 2007
- 2007 Lecture and Workshop, "Genetic Skin Diseases", Society for Investigative Dermatology, SID Basics of Skin: Pharmaceutics and Pharmacology Course, Miami, FL, December 6, 2007
- 2009 Lecture, "Molecular Dissection of Psoriasis: Integrating Genetics and Biology", Baltic Summer School, Kiel, Germany, September 9, 2009
- 2009 Lecture, "Twenty Years of Psoriasis Genetics: The Kiel-Ann Arbor Connection", Department of Dermatology, Christian-Albrechts University, Kiel, Germany, September 9, 2009

University of Michigan

- 1988 Lecture, "Psoriasis", Department of Internal Medicine
- 1988-92 Lecture, "Basics of Molecular Biology", Department of Dermatology
- 1988-89 Mentor, Dermatology Resident Research, "T Cell Receptor Gene Rearrangements in Cutaneous T Cell Lymphoma", Vincent C. Ho, M.D., Trainee.
- 1989 Lecture, "Dermatologic Applications of Molecular Biology", Michigan Dermatological Society, Ann Arbor, Michigan
- 1990 Mentor, Medical School Summer Research Project, "Familial Psoriasis", Stacie McMurtry, Trainee
- 1990-91 Mentor, Dermatology Fellow Research, "Molecular Cloning of a 105 Kilodalton Basement Membrane Antigen", Lawrence Chan, M.D., Trainee
- 1990 Seminar, "The Economy of Keratinocyte Mitogens", Department of Pathology Research Seminar Series
- 1991 Lecture, "Molecular Genetics of Psoriasis", Michigan Dermatological Society Meeting
- 1991 Seminar, "Expression of Retinoic Acid Receptors and Binding Proteins in Human Skin", Graduate Program in Cellular and Molecular Biology

- 1991 Lecture, "T-Cell Receptor Gene Rearrangements", Department of Dermatology
- 1992 Mentor, Medical Student Summer Research Project, "CRABP-II Responses to Natural and Synthetic Retinoids in Human Skin Fibroblasts", Alex Kaplan, Trainee
- 1992-93 Mentor, Dermatology Resident Research, "T Cell Cytokine Expression in Psoriatic Lesions: Heterogeneity and Effects of Cyclosporin A". Connie Ho, M.D., Trainee
- 1992 Lecture, "DNA Repair: Mechanisms, Molecular and Syndromes", Department of Dermatology
- 1992 Lecture, "Regulation of Keratinocyte Growth", Department of Dermatology
- 1992 Lecture, "New Ideas about Old Drugs: Steroids, Retinoids, and Vitamin D", Michigan Dermatological Society Meeting
- 1992-93 Lecture Series, "Genodermatoses", Department of Dermatology
- 1993 Mentor, Medical Student Summer Research Project, "Expression of Calcineurin Isoforms in Human Skin", Edsel Kim, Trainee
- 1993 Lecture, "Mechanisms of Action of Antipsoriatic Drugs", Senior Elective Course, Pharmacology and Therapeutics, Department of Pharmacology
- 1993 Seminar, "Positional Cloning of Epithelial Differentiation Genes", Division of Nephrology, Department of Internal Medicine
- 1993 Lecture, "Molecular Genetics of Psoriasis", Michigan Dermatology Society
- 1993 Lecture, "Mechanisms of Action of Antipsoriatic Drugs", Department of Dermatology
- 1993 Lecture, "Papulosquamous Dermatoses", MS III/IV Transitional Series, Medical School
- 1993 Lecture, "Infectious Skin Diseases", MS III/IV Transitional Series, Medical School
- 1993 Lecture, "Genetics of HLA-Associated Skin Diseases", Department of Dermatology
- 1994 Lecture, "Carcinogenesis", Department of Dermatology
- 1994 Lecture, "Inherited Immunodeficiency Disorders", Department of Dermatology
- 1994 Instructor, "Live Patient Grand Rounds", Core Curriculum for Second Year Medical Students
- 1994 Lecture, "Genodermatoses", Core Curriculum for Second Year Medical Students
- 1994 Lecture, "The Genetics of Psoriasis", Graduate Cellular and Molecular Biology Symposium
- 1995 Lecture, "DNA Repair in Genodermatoses and Cancer", Department of Dermatology
- 1995 Lecture, "Bullous Genodermatoses", Department of Dermatology
- 1995 Lecture, "Dermal Genodermatoses", Department of Dermatology
- 1995 Lecture, "Hereditary Immunodeficiency Disorders", Department of Dermatology
- 1995 Lecture, "Epidermolysis Bullosa: Genetic Insights into Skin Structure and Function", Core Curriculum for Second Year Medical Students
- 1995 Instructor, "Live Patient Grand Rounds", Core Curriculum for Second Year Medical Students
- 1995 Lecture, "Metabolic Disorders", Department of Dermatology

- 1996 Lecture, "How do genetics influence psoriasis?", Michigan Dermatological Society Meeting
- 1996 Examiner, Written Preliminary Examination in Pathobiology, Graduate Program in Cellular and Molecular Biology
- 1996 Lecture, "Introduction to Genodermatoses", Department of Dermatology
- 1996 Lecture, "Photocarcinogenesis of Skin", Core Curriculum for Second Year Medical Students
- 1996 Instructor, "Live Patient Grant Grounds", Core Curriculum for Second Year Medical Students
- 1996 Lecture, "Epidermolysis Bullosa: Genetic Insights into Skin Structure and Function", Core Curriculum for Second Year Medical Students
- 1996 Ph.D. Thesis committee, Andrea Lauer, School of Pharmacy
- 1996 Mentor, Lauren Gold, undergraduate, summer research
- 1996 Mentor, Annie Hiniker, undergraduate, summer research
- 1996 Oral preliminary examination committee, Yifeng Jia, Graduate Program in Cellular and Molecular Biology
- 1997 Oral preliminary examination committee, Yifeng Jia, Graduate Program in Cellular and Molecular Biology
- 1997 Lecture, "Ichthyoses", Department of Dermatology
- 1997 Lecture, "Acne Management: A Pore Man's Approach", Department of Pediatrics, St. Joseph Mercy Hospital
- 1997 Lecture, "EGF Receptor Tyrosine Kinase Activation in Cutaneous Wound Healing", Center for Organogenesis
- 1997 Lecture, "Immunopathogenesis of Psoriasis", Core Curriculum for Second Year Medical Students
- 1997 Ph.D. Thesis Committee, Neti Waranuch, School of Pharmacy
- 1998 Lecture, "Mechanisms of Regenerative Hyperplasia", Graduate Program in Cellular and Molecular Biology Introductory Lecture Series
- 1998 Lecture, "ErbB Activation: A Critical Early Event in Wound Healing", Cancer Biology Research Seminar, Department of Radiation Oncology and Comprehensive Cancer Center
- 1998 Lecture, "Ichthyoses", Department of Dermatology
- 1998 Lecture, "Fundamentals of Genetic Linkage", Department of Dermatology
- 1998 Mentor, Sherbano Hasan, medical student, summer research
- 1998 Lecture, "Cellular Immunology of the Skin", Core Curriculum for Second Year Medical Students
- 1998 Lecture, "Cutaneous Manifestations of HIV Infection", Core Curriculum for Second Year Medical Students
- 1998 Lecture, "Immunopathogenesis of Psoriasis and Atopic Dermatitis", Core Curriculum for Second Year Medical Students
- 1998 Lecture, "Molecular Mechanisms of Re-Epithelialization", Graduate Course ACB 681, Organogenesis of a Complex Tissue
- 1999 Lecture, "Postreceptor Signal Transduction Mechanisms in Wound Healing and Cancer", Cancer Biology Research Seminar, Department of Radiation Oncology, Comprehensive Cancer Center
- 1999 Lecture, S100A2 in Oxidative Stress and Carcinogenesis, Cancer Genetics Research Seminar, Comprehensive Cancer Center
- 1999 Oral preliminary examination committee, Philip E. Schaner, Graduate Program in Cellular and Molecular Biology

1999 Lecture, "Hereditary Immunodeficiency Disorders", Department of Dermatology

2000- Lecture, "Genetics of Psoriasis", Department of Dermatology Research Conference

1999 Lecture, "Introduction to Immunology", Department of Dermatology

1999 Lecture, "Cellular Immunology of the Skin", Core Curriculum for Second Year Medical Students

1999 Lecture, "Immunopathogenesis of Psoriasis and Atopic Dermatitis", Core Curriculum for Second Year Medical Students

2000 Lecture, "Signal Transduction Pathways in Cutaneous Wound Healing", Metastasis / Invasion Workshop, Comprehensive Cancer Center

2000 Lecture, "Molecular Mechanisms of Cutaneous Retinoid Responsiveness", Department of Pediatrics Research Seminar

2000 Lecture, "Genetics of Psoriasis", Cancer Biology Research Seminar, Department of Radiation Oncology and Comprehensive Cancer Center

2000 Lecture, "Fine Mapping of PSORS1, the HLA-linked Component of Psoriasis Susceptibility", Department of Dermatology

2001- Lecture, "Inherited Immunodeficiency Disorders", Department of Dermatology

2000 Mentor, Ladan Shahabi, medical student, summer research

2000 Lecture, "The Search for Psoriasis Genes," Dermatology Sesquicentennial Grand Rounds

2000 Lecture, "Cellular Immunology of the Skin," Department of Dermatology

2000 Lecture, "Immunopathogenesis of Psoriasis and Atopic Dermatitis," Department of Dermatology

2000 Lecture, "Cellular Immunology of the Skin," Core Curriculum for Second Year Medical Students

2000 Lecture, "Immunopathogenesis of Psoriasis and Atopic Dermatitis," Core Curriculum for Second Year Medical Students

2000 Instructor, "Live Patient Grant Grounds", Core Curriculum for Second Year Medical Students

2001 Lecture, "Expression and Function of Multiple ErbB Receptors in Skin", Cancer Biology Research Seminar, Department of Radiation Oncology and Comprehensive Cancer Center

2001 Lecture, "Immunologic Hypersensitivity Reactions," Department of Dermatology

2001 Lecture, "Hereditary Immunodeficiency Disorders," Department of Dermatology

2001 Lecture, "Warts", Department of Dermatology

2001 Ph.D. Thesis Committee, Allison Moffa, Graduate School of Cellular and Molecular Biology

2001 Lecture, "Cellular Immunology of the Skin," Core Curriculum for Second Year Medical Students

2001 Lecture, "Immunopathogenesis of Psoriasis and Atopic Dermatitis," Core Curriculum for Second Year Medical Students

2001 Instructor, "Live Patient Grant Grounds", Core Curriculum for Second Year Medical Students

2002 Lecture, "Cellular Immunology of the Skin", Department of Dermatology

- 2002 Lecture, "Hereditary Immunodeficiency Disorder", Department of Dermatology
- 2002 Lecture, "Genetics of Common Diseases", Department of Dermatology
- 2002 Seminar, "Molecular Genetics of Melanoma", Department of Radiation Oncology, Division of Cancer Biology
- 2002 Lecture, "BRAF Mutations in Melanoma", Department of Dermatology
- 2002 Lecture, "Introduction to Cutaneous Immunology", Department of Dermatology
- 2002 Lecture, "Cellular Immunology of the Skin," Core Curriculum for Second Year Medical Students
- 2002 Lecture, "Immunopathogenesis of Psoriasis and Atopic Dermatitis," Core Curriculum for Second Year Medical Students
- 2002 Instructor, "Live Patient Grant Grounds", Core Curriculum for Second Year Medical Students
- 2003 Lecture, "Genetics of Psoriasis: The MHC and Beyond", Department of Human Genetics, University of Michigan
- 2003 Lecture, "Introduction to Immunology", Department of Dermatology
- 2003 Lecture, "Hereditary Immunodeficiency Disorders". Department of Dermatology
- 2003 Lecture, "Immunopathogenesis of Psoriasis and Atopic Dermatitis," Core Curriculum for Second Year Medical Students
- 2003 Instructor, "Live Patient Grant Grounds", Core Curriculum for Second Year Medical Students
- 2004 Lecture, "Autocrine Regulation of Keratinocyte Growth by EGF Receptor Signaling", University of Michigan
- 2004 Qualifying exam committee chair for Nicole Willmarth, Graduate Program in Cell and Molecular Biology, University of Michigan.
- 2004 Qualifying exam committee member for Jaemin Lee, Graduate Program in Cell and Molecular Biology, University of Michigan.
- 2004 Thesis committee chairman for Nicole Willmarth, Graduate Program in Cell and Molecular Biology, University of Michigan.
- 2004 Lecture, "Genetic Analysis of Psoriasis and Psoriatic Arthritis", Department of Dermatology
- 2004 Lecture, "Immunopathogenesis of Psoriasis and Atopic Dermatitis," Core Curriculum for Second Year Medical Students
- 2004 Instructor, "Live Patient Grant Grounds", Core Curriculum for Second Year Medical Students
- 2005 Lecture, "Management of Common Dermatologic Conditions", Clinical Pharmacology and Therapeutics Course, Department of Pharmacology
- 2005 Lecture, "Genetic Skin Disorders", Human Genetics 649, Advanced Clinical Concepts in Medical Genetics, Department of Human Genetics
- 2005 Poster Judge, Graduate Program in Cellular and Molecular Biology, 25th Annual Symposium and Poster Session
- 2005 Lecture, "Genetic Dissection of PSORS1", Department of Dermatology
- 2005 Instructor, "Live Patient Grant Grounds", Core Curriculum for Second Year Medical Students

- 2006 Lecture, "Genetic Skin Disorders", Human Genetics 649, Advanced Clinical Concepts in Medical Genetics, Department of Human Genetics
- 2006 Lecture, "Genodermatoses: Insights into Skin Function, Part I", Department of Dermatology
- 2006 Lecture, "Genodermatoses: Insights into Skin Function, Part II", Department of Dermatology
- 2006 Lecture, "Identification of HLA-Cw6 as the Major Genetic Determinant of Psoriasis Susceptibility", Department of Human Genetics, University of Michigan
- 2006 Mentor, Johann Gudjonsson, MD, PhD, Dermatology Resident
- 2007 Mentor, Allen Bruce, MD, PhD, Dermatology Resident
- 2007 Lecture, "Genetic Skin Disorders", Human Genetics 650, Advanced Clinical Concepts in Medical Genetics, Department of Human Genetics
- 2007 Lecture, "Genetics of Psoriasis: An Update", Department of Dermatology, University of Michigan
- 2008 Lecture, "Genetic Skin Disorders", Human Genetics 650, Advanced Clinical Concepts in Medical Genetics, Department of Human Genetics
- 2009 Lecture, "Genetic Skin Disorders", Human Genetics 650, Advanced Clinical Concepts in Medical Genetics, Department of Human Genetics

EXTRAMURAL INVITED PRESENTATIONS

"Cyclosporine Effects upon TPA-induced ODC Activity and mRNA Levels in Hairless Mouse Skin", presentation, 2nd International Congress on Cyclosporine, Washington, D.C., November 1987.

"Growth Factors in Psoriasis", presentation, Psoriasis Symposium, American Academy of Dermatology, Washington, D.C., December 1988.

"Clinical Implications of Recombinant Technology", presentation, Clinical Dermatology in the Year 2000, London, England, May 1990.

"Selective Expression of the Retinoic Acid Receptor- γ Gene in Human Skin Fibroblasts", presentation, Retinoids: 10 Years On, Geneva, Switzerland, November 1990.

"Expression of Retinoic Acid Receptors and Binding Proteins in Human Skin", presentation, Montagna Symposium on the Biology of the Skin, Snowmass Village, Colorado, June, 1991.

"TGF- α and Tyrosine Kinase Activation in Psoriasis: Biology and Therapeutic Potential", presentation, Fifth International Psoriasis Symposium, San Francisco, California, July, 1991.

"Psoriasis: Growth Factors", presentation, National Psoriasis Foundation Symposium: Immunogenetics of Psoriasis, Deer Valley, Utah, September, 1991.

"Molecular Genetics of Psoriasis", presentation, Psoriasis Symposium, American Academy of Dermatology Annual Meeting, San Francisco, California, December, 1992.

“Retinoid Molecular Biology in Practice: from Receptors to Clinic”, presentation, Dermatology 2000, Vienna, Austria, May, 1993.

“Psoriasis”, presentation, 42nd Annual Symposium on the Biology of the Skin, “Genetics of Skin Disease”, Snowmass Village, Colorado, July, 1993.

“Selection Cloning of 1q21 Genes Expressed in Skin”, presentation, Epithelial Differentiation and Keratinization, Gordon Research Conference, Tilton, New Hampshire, August, 1993.

“Molecular Genetics of Psoriasis”, plenary presentation, Sixth International Psoriasis Symposium, Chicago, Spring, 1994

“Multiple HLA-C alleles encoding alanine-73 transmit psoriasis susceptibility”, presentation, European Society for Dermatology Research, Vienna, Austria, September, 1995

“The Genetics of Psoriasis”, presentation, Psoriasis Symposium, American Academy of Dermatology, Chicago, IL, December, 1995.

“Genetics of Psoriasis”, presentation, Director’s Conference on Complex Inherited Diseases, National Institute of Arthritis and Musculoskeletal and Skin Diseases, NIH, Bethesda, MD, April, 1996.

“Genetics of Psoriasis”, presentation, Psoriasis: From Gene to Clinic, an International Congress, London, UK, December, 1996.

“Genetic Epidemiology of Psoriasis”, presentation, Psoriasis Symposium, American Academy of Dermatology, San Francisco, CA, March, 1997.

“Identification of Novel Skin-Specific Genes in the Epidermal Differentiation Complex by cDNA selection”, poster presentation, Johnson and Johnson Focused Giving Scientific Symposium, New Brunswick, NJ, December, 1997.

“The Genetics of Psoriasis: HLA and Beyond”, presentation, International Psoriasis Linkage Committee Meeting, Köln, Germany, April, 1998.

“Familial Psoriasis: A Working Model for the Genetic Analysis of Multifactorial Diseases,” plenary presentation, 5th European Congress on Psoriasis / 7th International Psoriasis Symposium, Milan, Italy, June, 1998.

“The Genetics of Psoriasis”, presentation, Psoriasis Symposium, American Academy of Dermatology, Orlando, FL, March, 1998

“Genetics of Juvenile Onset Psoriasis: The Search for PSORS1, the HLA-linked Component of Psoriasis Susceptibility,” presentation, Joint Meeting of 6th Congress of the European Society for Pediatric Dermatology and 3rd International Days on Pediatric Dermatology, Rome, Italy, September, 1999

“Fine Mapping of the Psoriasis Susceptibility Region in the HLA Complex”, presentation, Psoriasis: From Gene to Clinic, an International Congress, London, UK, December, 1999.

“Fine Mapping of PSORS1”, presentation, National Psoriasis Foundation Psoriasis International Linkage Committee, London, UK, December, 1999.

“Fine Mapping of PSORS1”, presentation, 5th International Psoriasis Genetics Committee Meeting, Stockholm, Sweden, May, 2001.

“Psoriasis as an Auto-Immune Disease: Genetic Association”, presentation, 2nd Joint Meeting of the International Psoriasis Symposium and European Congress on Psoriasis, San Francisco, CA, June, 2001

“Linkage of Psoriasis to the MHC and Evidence for Additional Loci in a Large Cohort”, Society for Investigative Dermatology Annual Meeting, Los Angeles, CA, May, 2002

“Progress in Identification of the PSORS1 Gene”, Psoriasis: From Gene to Clinic, Third International Congress, London, UK, November, 2002.

“The Genetics of Psoriasis: The MHC and Beyond”, Invited lecturer, Emory University, Atlanta, GA, April, 2003

“Psoriasis: Pathogenesis and Genes”, Invited Lecturer, Phoenix Dermatology Society meeting, March 19, 2004

“Genetics and Epidemiology of Psoriasis”, Invited Lecturer, Ottawa Dermatologic Society meeting, April 23, 2004

“Immunoparadigms of Psoriasis and Treatment Related to Them”, Invited Lecturer, Ottawa Dermatologic Society meeting, April 23, 2004

“Sequence Analysis of PSORS1”, Invited Lecturer, Department of Human Medical Genetics, University of Colorado School of Medicine, April, 2005

“The Genetics of Psoriasis: HLA and Beyond”, Invited Lecturer, Shanghai Dermatological Society, Shanghai, PR China, October 28, 2005

“Sequence Analysis of PSORS1”, Invited Lecturer, Chinese Society of Investigative Dermatology, Hefei, PR China, December 3, 2005

“Genetic Background of Psoriasis: Is There a Link to Other Diseases?”, Invited Lecturer, Sponsored Symposium, “The Importance of Disease Associations and Concomitant Therapy for the Management of Psoriasis Patients”, held at Psoriasis: Gene to Clinic, London, December 1, 2005

“Where Are We Now With Pharmacogenomics of Psoriasis?”, Invited Lecturer, Sero Symposium International Foundation, “Pharmacology and Pharmacogenomics of Inflammatory Diseases”, Cannes, March 25, 2006

“Genetics: Recent Results and Future Directions”, Invited Lecturer, NIH Conference, “Spondyloarthritis 2006: The Unmet Needs”, Bethesda, MD, March 30, 2006

“Genome-wide Association Study of Psoriasis”, Invited Speaker, Network of Consortia Conference, Federation of Clinical Immunology Societies, Boston, MA, June 9, 2008

“Genome-wide Association Study of Psoriasis: Insights into Pathogenesis”, Invited Speaker, Montagna Symposium on the Biology of Skin, Salishan, OR, October 3, 2008

“Genome-wide Association Study of Psoriasis: Insights into Pathogenesis”, Invited Speaker, Department of Cellular and Developmental Biology, Oregon Health Sciences University, Portland, OR, October 6, 2008

“Genome-wide Association Study of Psoriasis: Insights into Pathogenesis”, Invited Speaker, 2008 Lupus Genetics Conference, Oklahoma Medical Research Foundation, Oklahoma City, OK, October 12, 2008

“Genome-wide Association Scan Reveals Association of Psoriasis with Interleukin-23, Th2, and NF- κ B Pathways”, Invited Speaker, Psoriasis: From Gene to Clinic, Fifth International Congress, London, England, December 4, 2008

“Genome-wide Association Scan of Psoriasis: Genetics Meets Immunology”, Invited Lecturer, Radboud University Nijmegen Medical Center, Nijmegen, the Netherlands, February 11, 2009

“Psoriasis Bench to Bedside: Genetics Meets Immunology”, Invited Lecturer, Dermatology-Rheumatology Combined Grand Rounds, University of Rochester School of Medicine, April 30, 2009

“Psoriatic Arthritis vs. Psoriasis: What Can We Learn From Genetics?”, Invited Lecturer, State-of-the-Art Lecture, Society for Investigative Dermatology, Montreal, Canada, May 6, 2009

“Psoriasis Bench to Bedside: Genetics Meets Immunology”, Invited Lecturer, Eugene Farber Lectureship, Society for Investigative Dermatology, Montreal, Canada, May 8, 2009

“Psoriasis Through Generations: The Genetic Predisposition to Psoriasis and Psoriatic Arthritis”, Keynote Speaker, Second World Congress on Psoriasis and Psoriatic Arthritis, Stockholm, Sweden, June 26, 2009

“Molecular Dissection of Psoriasis: Integrating Genetics and Immunology”, Department of Dermatology, Eberhard-Karls University, Tübingen, Germany, September 17, 2009

“Genotype-Phenotype Analysis in Cutaneous Diseases”, Cutaneous Lymphoma Summit 2009, New York, October 9, 2009

COMMITTEE AND ADMINISTRATIVE SERVICES

National and International

1989 - 94 Bill Reed Committee, American Academy of Dermatology
1993 - 97 Task Force on Psoriasis, American Academy of Dermatology
1995 - 99 National Institute of Arthritis and Musculoskeletal and Skin Disorders Liaison Committee, American Academy of Dermatology
1999-2003 Medical Advisory Board, National Psoriasis Foundation
1994 - Trustee, The David Martin Carter Award Fund
1996 Chair, Genetics Committee, Psoriasis: From Gene to Clinic, London, United Kingdom
1997 Chair, Genetics of Psoriasis Workshop, World Congress of Dermatology, Sydney, Australia
1998 Co-chair, International Psoriasis Linkage Committee Meeting, Köln, Germany
1999- Scientific Advisory Committee, National Institutes of Health Multiple Autoimmune Disease Genetics Consortium
1999- Scientific Committee, Psoriasis: From Gene to Clinic
2008- Scientific Advisory Committee, Lupus Family Registry and Repository

University of Michigan

1991-93 Medical Student Advisor Panel, University of Michigan
1992 - Medical Scientist Training Program Clinical Phase Mentorship Panel
1996 - Executive Committee, Training Grant in Cell and Molecular Dermatology, University of Michigan
1996 Acting Chief, Dermatology, Veterans Administration, Ann Arbor, Michigan

- 1996- Promotions Committee, Department of Dermatology, University of Michigan Medical School
- 2000- Medical Scientist Training Program Career Advisory Panel, University of Michigan
- 2001 Reviewer, Michigan Diabetes Research and Training Center
- 2002- Chairman, Training Grant Executive Committee, Department of Dermatology, University of Michigan
- 2002 Reviewer, University of Michigan Comprehensive Cancer Center

COMMUNITY SERVICE

- 1989-1992 Skin Cancer Detection Day, Ann Arbor, MI
- 1994-1997 Skin Cancer Detection Day, Ann Arbor, MI
- 1999 Skin Cancer Detection Day, Ann Arbor, MI
- 2000 National Psoriasis Foundation Community Outreach Program, Houston, TX

PATENTS

“Method for Inhibiting Retinoid Skin Damage”, pending, filed 2/12/01

BIBLIOGRAPHY

Completed publications in scientific journals

Peer-Reviewed Publications

1. Duncan C, Biro PA, Choudary PV, Elder JT, Wang RRC, Forget BG, deRiel JK, Weissman SM: RNA polymerase III transcriptional units are interspersed among human non- α globin genes. *Proc Natl Acad Sci, USA* 76:5095-5099, 1979. PMID: PMC413086.
2. Spritz RA, Jagadeeswaran P, Choudary PV, Biro PA, Elder JT, deRiel JK, Manley JL, Gefter ML, Forget BG, Weissman SM: Base substitution in an intervening sequence of a β + thalassemic human globin gene. *Proc Natl Acad Sci, USA* 78:2455-2459, 1981. PMID: PMC319365.
3. Elder JT, Pan J, Duncan CH, Weissman SM: Transcriptional analysis of interspersed repetitive polymerase III transcription units in human DNA. *Nucleic Acids Res* 9:1171-1189, 1981. PMID: PMC326744.
4. Pan J, Elder JT, Duncan CH, Weissman SM: Structural analysis of interspersed repetitive transcription units in human DNA. *Nucleic Acids Res* 9:1151-1170, 1981. PMID: PMC326743.
5. Tonkonow BL, Hoffman R, Burger D, Elder JT, Mazur EM, Murnane MJ, Benz EJ: Differing responses of globin and glycophorin gene expression to hemin in the human leukemia cell line K562. *Blood* 59:738-746, 1982.
6. Youvan DC, Elder JT, Sandlin DE, Zsebo K, Alder DP, Panopoulos J, Marrs BL, Hearst JE: R-prime site-directed transposon Tn 7 mutagenesis of the photosynthetic apparatus in *Rhodospseudomonas capsulata*. *J Mol Biol* 162:17-41, 1982.
7. Forrester WC, Thompson C, Elder JT, Groudine M: A developmentally stable chromatin structure in the human β -globin gene cluster. *Proc Natl Acad Sci, USA* 83:1359-1363, 1986. PMID: PMC323075.
8. Yagi M, Gelinis R, Elder JT, Peretz M, Papayannopoulou T, Stamatoyannopoulos G, Groudine M: Chromatin structure and developmental expression of the human α globin cluster. *Mol Cell Biol* 6:1108-1116, 1986. PMID: PMC367621.
9. Gupta AK, Fisher GJ, Elder JT, Nickoloff BJ, Voorhees JJ: Sphingosine inhibits phorbol ester-induced inflammation, ornithine decarboxylase activity, and activation of protein kinase C in mouse skin. *J Invest Dermatol* 91:486-491, 1988.
10. Elder JT, Gupta AK, Fisher GJ, Voorhees JJ: Cyclosporine inhibits ornithine decarboxylase gene expression and acute inflammation in response to phorbol ester treatment of hairless mouse skin. *Transplant Proc* 105:95-104, 1988.
11. Gupta AK, Fisher GJ, Elder JT, Talwar HS, Esmann J, Duell EA, Nickoloff BJ, Voorhees JJ: Topical cyclosporine A inhibits the phorbol ester induced hyperplastic inflammatory response but not protein kinase C activation in mouse epidermis. *J Invest Dermatol* 93:379-386, 1989.
12. Pike MC, Lee CS, Elder JT, Voorhees JJ, Fisher GJ: Increased phosphatidylinositol kinase activity in psoriatic epidermis. *J Invest Dermatol* 92:791-797, 1989.
13. Nickoloff BJ, Mitra RS, Elder JT, Fisher GJ, Voorhees JJ: Decreased growth inhibition by recombinant gamma interferon is associated with increased transforming growth factor- α production in keratinocytes cultured from psoriatic lesions. *Br J Dermatol* 121:161-174, 1989.
14. Elder JT, Fisher GJ, Lindquist PB, Bennett GL, Pittelkow MR, Coffey RJ, Ellingsworth L, Derynck R, Voorhees JJ: Overexpression of transforming growth factor α in psoriatic epidermis. *Science* 243:811-814, 1989.
15. Elder JT, Forrester WC, Thompson C, Mager D, Henthorn P, Peretz M, Papayannopoulou T, Groudine M: Translocation of an erythroid-specific hyper-

- sensitive site in deletion-type hereditary persistence of fetal hemoglobin. *Mol Cell Biol* 10:1382-1389, 1990. PMID: PMC362240.
16. Griffiths CEM, Fisher GJ, Harding MW, Elder JT, Voorhees JJ: Cyclophilin content of normal and psoriatic epidermis. *J Invest Dermatol* 94:436-440, 1990.
 17. Ho VC, Baadsgaard O, Elder JT, Hansen ER, Hanson CA, Vejlsgaard GL, Cooper KD: Genotypic analysis of T cell clones derived from cutaneous T cell lymphoma lesions demonstrates selective growth of tumor infiltrating lymphocytes. *J Invest Dermatol* 95:4-8, 1990.
 18. Ho VC, Hansen ER, Elder JT, Baadsgaard O, Vejlsgaard GL, Hanson CA, Cooper KD: T cell receptor β chain gene rearrangement without γ chain gene rearrangement: An unusual finding. *Clin Immunol Immunopathol* 54:354-360, 1990.
 19. Baadsgaard O, Tong P, Elder JT, Hansen ER, Ho V, Hammerberg C, Lange-Vejlsgaard G, Fox DA, Fisher G, Voorhees JJ, Cooper KD: UM4D4 + (CDw60) T-cells are compartmentalized into psoriatic skin and release lymphokines that induce a keratinocyte phenotype expressed in psoriatic lesions. *J Invest Dermatol* 95:275-282, 1990.
 20. Cooper KD, Hammerberg C, Baadsgaard O, Elder JT, Chan LS, Sauder DN, Voorhees JJ, Fisher G: IL-1 activity is reduced in psoriatic skin: Decreased IL-1 α and increased non-functional IL-1 β . *J Immunol* 144:4593-4603, 1990.
 22. Elder JT, Tavakkol A, Klein SB, Zeigler ME, Wicha M, Voorhees JJ: Protooncogene expression in normal and psoriatic skin. *J Invest Dermatol* 94:19-25, 1990.
 22. Elder JT: c-Ha-ras and UV photocarcinogenesis: Do rays raise ras? *Arch Dermatol* 126:379-382, 1990.
 23. Wikner NE, Elder JT, Clark RA: Transforming growth factor- β modulates plasminogen activator activity and plasminogen activator inhibitor type - 1 expression in human keratinocytes in vitro. *J Invest Dermatol* 95:607-613, 1990.
 24. Elder JT, Ellingsworth LS, Fisher GJ, Voorhees JJ: Transforming growth factor- β in psoriasis: Pathogenesis and therapy. *Ann N Y Acad Sci* 593:218-230, 1990.
 25. Elder JT, Klein SB, Tavakkol A, Fisher GJ, Nickoloff BJ, Voorhees JJ: Growth factor and protooncogene expression in psoriasis. *J Invest Dermatol*, 95:7S-9S, 1990.
 26. Cooper KD, Hammerberg C, Elder JT, Baadsgaard O, Chan LS, Taylor RS, Voorhees JJ, Fisher G: IL-1 human skin: Dysregulation in psoriasis. *J Invest Dermatol*, 95:24S-26S, 1990.
 27. Fisher GJ, Talwar HS, Tavakkol A, Esmann J, Baldassare JJ, Elder JT, Griffiths CEM, Baadsgaard O, Cooper KD, Voorhees JJ: Phosphoinositide-mediated signal transduction in normal and psoriatic epidermis. *J Invest Dermatol*, 95:607S-613S, 1990.
 28. Nickoloff BJ, Barker JN, Karabin GD, Griffiths CEM, Sarma V, Mitra RS, Elder JT, Kunkel SL, Dixit V: Cellular localization of interleukin-8 and its inducer-tumor necrosis factor- α in psoriasis. *Am J Pathol* 138:129-140, 1991. PMID: PMC1886036.
 29. Fisher GJ, Esmann J, Griffiths CEM, Talwar HS, Hammerberg C, Elder JT, Karabin GD, Nickoloff BJ, Cooper KD, Voorhees JJ: Cellular, immunological and biochemical characterization of topical retinoic acid acid-treated human skin. *J Invest Dermatol* 96:699-707, 1991.
 30. Elder JT, Fisher GJ, Zhang QY, Eisen D, Krust A, Kastner P, Chambon P, Voorhees JJ: Retinoic acid receptor gene expression in human skin. *J Invest Dermatol* 96:425-433, 1991.
 31. Astrom A, Tavakkol A, Pettersson U, Cromie M, Elder JT, Voorhees JJ: Molecular cloning of two human cellular retinoic acid-binding proteins (CRABP). *J Biol Chem* 266:17662-17666, 1991.

32. Fisher GJ, Tavakkol A, Griffiths CEM, Elder JT, Zhang Q-Y, Finkel L, Danielpour D, Glick AB, Higley H, Ellingsworth L, Voorhees JJ: Differential modulation of transforming growth factor- β 1 expression and mucin deposition by retinoic acid and sodium lauryl sulfate in human skin. *J Invest Dermatol* 98:102-108.
33. Klein SB, Fisher GJ, Jensen T, Mendelsohn J, Voorhees JJ, Elder JT: Regulation of TGF- α expression in human keratinocytes: PKC-dependent and -independent pathways. *J Cell Physiol* 151:326-336, 1992.
34. Elder JT, Astrom A, Pettersson U, Voorhees JJ, Trent JM: Assignment of the human CRABP-II gene to chromosome 1q21 by nonisotopic in situ hybridization. *Hum Genet* 89:487-490, 1992.
35. Elder JT, Astrom A, Pettersson U, Tavakkol A, Griffiths CEM, Krust A, Kastner A, Chambon P, Voorhees JJ: Differential regulation of retinoic acid receptors and binding proteins in human skin. *J Invest Dermatol* 98:673-679, 1992.
36. Tavakkol A, Elder JT, Griffiths CEM, Cooper KD, Talwar H, Fisher GJ, Keane KM, Foltin SK, Voorhees JJ: Expression of growth hormone receptor, insulin-like growth factor 1 (IGF-1) and IGF-1 receptor mRNA and proteins in human skin. *J Invest Dermatol* 99:343-349, 1992.
37. Griffiths CEM, Rosenthal DS, Reddy AP, Elder JT, Astrom A, Leach K, Wang TS, Finkel LJ, Yuspa SH, Voorhees JJ, Fisher GJ: Short-term retinoic acid treatment increases in vivo, but decreases in vitro, epidermal transglutaminase-K enzyme activity and immunoreactivity. *J Invest Dermatol* 99:283-288, 1992.
38. Elder JT, Sartor CI, Boman DK, Benrazavi S, Fisher GJ, Pittelkow MR: Interleukin 6 in psoriasis: Expression and mitogenicity studies. *Arch Dermatol Res* 284:324-332, 1992.
39. Elder JT, Astrom A, Pettersson U, Tavakkol A, Krust A, Kastner P, Chambon P, Voorhees JJ: Retinoic acid receptors and binding proteins in human skin. *J Invest Dermatol*, 98:36S-41S, 1992
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