

CURRICULUM VITAE

Name: Donata Vercelli
Citizenship: USA

Education:

1985 Allergy/Immunology Specialist Diploma, University of Florence, Italy
(with honors)
1981 Hematology Specialist Diploma, University of Florence, Italy
(with honors)
1978 M.D. University of Florence, Italy (with honors)

Internships and Residencies:

1979-83 Department of Medicine, University of Florence, Italy

Academic Appointments:

1983-86 Research Fellow, Division of Allergy/Immunology, University of Florence, Italy
1986-89 Research Fellow in Pediatrics, Harvard Medical School, Boston, MA
1989-90 Instructor in Pediatrics, Harvard Medical School, Boston, MA
1990-93 Assistant Professor of Pediatrics, Harvard Medical School, Boston, MA
1994-99 Head, Molecular Immunoregulation Unit, San Raffaele Scientific Institute, Milan (Italy)
1999-02 Associate Professor of Cell Biology and Anatomy/Associate Research Scientist, Respiratory Sciences Center, College of Medicine, University of Arizona, Tucson, AZ
2001- Member, Graduate Interdisciplinary Program in Genetics, University of Arizona, Tucson, AZ
2002-2010 Professor of Cell Biology and Anatomy, College of Medicine, University of Arizona, Tucson, AZ
2002- Assistant Director, Arizona Respiratory Center (Functional Genomics), College of Medicine, University of Arizona, Tucson, AZ
2006- Professor, The Bio5 Institute, University of Arizona, Tucson, AZ
2006-07 Visiting Scientist, Center for Blood Research, Harvard Medical School, Boston, MA
2008- Director, Arizona Center for the Biology of Complex Diseases (ABCD), Arizona Research Laboratories, University of Arizona
2009- Member, Southwest Environmental Health Sciences Center, University of Arizona
2010- Associate Director, Arizona Respiratory Center, College of Medicine, University of Arizona
2010- Member, Immunobiology Graduate Program, University of Arizona
2010- Co-Director, Human Genes and the Environment (HuGER) Training

- Program, University of Arizona
- 2010-** Professor of Cellular and Molecular Medicine, University of Arizona
- 2011-** Member, Molecular and Cellular Biology Graduate Program, University of Arizona
- 2011** Visiting Professor, Allergy and Pulmonology Research Group, Ludwig-Maximilians University, Munich, Germany
- 2012-** Co-Director, Career Development, Southwest Environmental Health Sciences Center, University of Arizona
- 2013** Visiting Scientist, Division of Immunology, Children's Hospital, Harvard Medical School, Boston, MA

Hospital Appointments:

- 1986-89** Research Fellow in Medicine (Immunology), Children's Hospital, Boston, MA
- 1989-93** Research Associate in Medicine (Immunology), Children's Hospital, Boston, MA

Honors:

- 1987** Travel Grant Award, American Academy of Allergy and Immunology
- 1988** President's Grant-in-Aid Award, American Academy of Allergy and Immunology
- 1989** Pharmacia Allergy Research Foundation Award
- 1989** Developing Investigator Award, Asthma & Allergy Foundation of America
- 1991** Burroughs Wellcome Fund Developing Investigator Award in the Immunopharmacology of Allergic Disease
- 1993** John M. Sheldon Memorial Lectureship, American Academy of Allergy and Immunology
- 2001** Women Physicians in Allergy Award, American Academy of Allergy, Asthma & Immunology
- 2001** 14th Joseph A. Kwasman Memorial Lectureship, University of Rochester
- 2002** Alec Schon Distinguished Professorship in Immunology, University of Manitoba, Canada
- 2003** Burton Zweiman Lectureship, American Academy of Allergy, Asthma and Immunology
- 2006** Organizer and Chair, Keystone Symposium: "Allergy, Allergic Inflammation and Asthma"
- 2006** Chair, Gene-Environment Interaction Working Group, NHLBI Strategic Planning Process – Lung Program, *Development of Early Origin of Disease*
- 2007** Expert Panel, *Epigenetics of Human Health and Disease*, National Institute of Environmental Health Sciences (NIEHS) and National Institute on Drug Abuse (NIDA)
- 2007-10** Member, International Scientific Advisory Board, GABRIEL European Project on Gene-Environments Interactions
- 2009-** Member, Scientific Advisory Board, University of Pittsburgh Asthma

- Institute
- 2010-** Elected Member, Association of American Physicians
2010 Paul Man Lecture in Pulmonary Diseases, University of Alberta, Edmonton, AB, Canada
- 2012** Mario Ricci Lectureship in Allergology and Clinical Immunology, Italian Society of Allergology and Clinical Immunology
- 2012-** Member, Scientific Advisory Board, Trilateral German/Finnish/Chinese Childhood Asthma Immunology and Epidemiology Research Project
- 2013** Keynote Speaker, Spring Commencement, College of Science, University of Arizona

Committees and Councils:

- 1998-2002** Member, Executive Council, Collegium Internationale Allergologicum
- 2001-04** Member, Genetics, Epidemiology & Molecular Biology Committee, American Academy of Allergy, Asthma & Immunology
- 2001-04** Associate Chair, Professional Education Council, American Academy of Allergy, Asthma & Immunology
- 2001-04** Member, Scientific Advisory Committee, 12th International Congress of Immunology
- 2002-05** Councilor, Clinical Immunology Society
- 2003-05** Publications Committee, Clinical Immunology Society
- 2006-08** Human Subjects Protection Program, University of Arizona
- 2008-** Provost's Strategic Advisory Committee, University of Arizona
 Strategic Vision Group, University of Arizona
- 2011-** Promotion and Tenure Committee, Department of Cellular and Molecular Medicine, University of Arizona

Professional Societies:

- 1980** Italian Society for Hematology
- 1985** Italian Society for Allergology and Clinical Immunology
- 1988** American Academy of Allergy, Asthma and Immunology (AAAAI)
- 1990** American Association of Immunologists (AAI)
 American Federation for Clinical Research (AFCR)
- 1992** Collegium Internationale Allergologicum (CIA)
- 1993** Clinical Immunological Society (CIS)
- 1995** Gruppo di Cooperazione in Immunologia (GCI)
- 1996** European Academy of Allergy and Clinical Immunology
- 1997** British Society of Immunology (BSI)
- 2010** Association of American Physicians

Editorial Activities:

- Associate Editor:* Journal of Allergy and Clinical Immunology (2005-2012)
 Journal of Immunology (2007-)
 International Archives of Allergy and Immunology (1998-)
- Editorial Board:* Journal of Allergy and Clinical Immunology (1998-)
- Consulting Editor:* Journal of Clinical Investigation (2003-2005)

Ad Hoc Reviewer:

Allergy
 American Journal of Human Genetics
 American Journal of Respiratory Cell and Molecular Biology
 American Journal of Respiratory and Critical Care Medicine
 Annals of Allergy, Asthma & Immunology
 Blood
 Cellular Immunology
 Clinical & Experimental Immunology
 Clinical & Experimental Allergy
 Clinical Immunology
 European Journal of Immunology
 European Respiratory Journal
 Genes and Immunity
 FASEB Journal
 Immunity
 Journal of Allergy and Clinical Immunology
 Journal of Leukocyte Biology
 Journal of Clinical Immunology
 Journal of Clinical Investigation
 Journal of Experimental Medicine
 Journal of Immunology
 Journal of Investigative Dermatology
 Journal of Medical Genetics
 Journal of Molecular Medicine
 Journal of Rheumatology
 Molecular and Cellular Biology
 Nature
 Nature Genetics
 Nature Immunology
 Nature Medicine
 Nature Reviews Immunology
 New England Journal of Medicine
 PLOS Genetics
 PLOS One
 Proceedings of the National Academy of Sciences USA
 Thorax

Study Sections:

Member

Allergy and Immunology (ALY) Study Section, NIH (2000-2004)
 Cellular and Molecular Immunology (CMI)-A, NIH (2013-)

Ad Hoc Reviewer:

Immunological Sciences Study Section, NIH (1991)
 Lung Cellular, Molecular, and Immunobiology (LCMI) Study
 Section, NIH (2006)
 SEP Panel, NIAID (2007)
 ARRA Challenge Grants, NIH (2009)

NHLBI Program Project Review Panel (2010)
 Respiratory Integrative Biology and Translational Research
 (RIBT) Study Section, NIH (2010)
 ZRG1 CVRS-G (03) M Study Section, NIH (2011)
 ZA11 PA-I (JI) Study Section NIAID/NIH (2011)
 ZRG1 GGG-R 02M Study Section, NIH (2012)
 ZA11 LAR-I (M2) Study Section NIAID/NIH (2013)

Dutch Cancer Society
 Medical Research Council, Canada
 Medical Research Council, UK
 Swiss National Science Foundation
 Wellcome Trust, UK

Teaching:

- 1981-1986** Professor of Blood Physiology, School of Specialization in Hematology, University of Florence
- 1997-1999** Director, Immunology Section, Graduate Course in Cellular and Molecular Biology, San Raffaele Scientific Institute, Milan (Italy)/Open University, London, UK
- 1999-2001** Facilitator, Problem Based Learning Program, Department of Cell Biology and Anatomy
- 2000-** Lecturer (topic: *Paradigms of Signaling*, six two-hour classes), Graduate Course: Principles of Cell Biology, Department of Cell Biology and Anatomy (CBA 577)
- 2000-2005** Lecturer (topics: *Signaling, Cell Cycle, Blood, and Hemopoiesis*, four one-hour classes), Histology and Cell Biology Course, Department of Cell Biology and Anatomy
- 2003-2004** Lecturer (topic: *Evolution of Immune Responses*) Graduate Course: *Evolution Evolving*, Department of Cell Biology/Cognitive Science Program
- 2006** Lecturer, (topics; Immune System, Epigenetics), Graduate Course: *The Biological Foundations of Language*, Cognitive Science Program
- 2008-** Director, Graduate Colloquium, *Problems in Complex Disease Biology* (CBA 595H)
- 2010** Lecturer, (“Epigenetics: A different style of explanation”), Master Seminar: *Natural Selection: Theory, Data, Models and Critiques*, COGS/PSYCH/LING/PHIL 696 E
- 2012** Lecturer (“The Case of the Missing Heritability”), Ling/Phil/Psy/Cogs 449A/549A *Biolinguistics*
- 2013** Lecturer, Educator Forum, ECOL596s (“Epigenetics”)

Graduate Student Major Advisor (2000-):

Jannine Stempel	Graduate Interdisciplinary Program in Genetics (PhD, 2008)
Patricia Kiesler	Graduate Interdisciplinary Program in Genetics (PhD, 2009)
Jianhua Wang	Immunobiology Graduate Program (MS, 2011)
Katia Youssef	Molecular Biology, University of Lebanon (MS, 2011)
Peyman Aryanpur	Cellular and Molecular Medicine (2012-2013)
Justyna Gozdz	Cellular and Molecular Medicine
Avery DeVries	Cellular and Molecular Medicine

Honor Student Advisor (2010-):

Kenneth Kim	Molecular and Cellular Biology (2011)
Lakshmi Koripella	Physiological Sciences (2012)

Graduate Student Committees (2000-):

Ana Lisa De la Cruz	Immunology Graduate Program
Minal Dalvi	Immunology Graduate Program
Subbu Khrishnan	Immunology Graduate Program
Katie Olson	Genetics Graduate Interdisciplinary Program
Gabriela Wlasiuk	Ecology and Evolutionary Biology Graduate Program
Barbara Fransway	Professional Science Masters (PSM) in Applied Bioscience (Ms, 2013)

Graduate Student Rotation Advisor (2010-):

Patricia Zagallo	Immunobiology Graduate Program (Fall 2010)
Javier Mendiola-Soto	Biochemistry and Molecular and Cellular Biology (Spring 2011)
Justyna Gozdz	Arizona Biological and Biomedical Sciences (Fall 2011)
Peter Vinton	Arizona Biological and Biomedical Sciences (Fall 2011)
Peyman Aryanpour	Arizona Biological and Biomedical Sciences (Fall 2011)
Lakshmi Koripella	Physiological Sciences (Fall 2011-Spring 2012)
Tiffany McLamarrah	Arizona Biological and Biomedical Sciences (Spring 2012)
Maura Lynn Cotter	Arizona Biological and Biomedical Sciences (Fall 2012)
Fen Pei	Arizona Biological and Biomedical Sciences (Fall 2012)
Avery Fricker	Arizona Biological and Biomedical Sciences (Fall 2012)
Christy Harrison	Arizona Biological and Biomedical Sciences (Spring 2013)

Undergraduate Student Internships (2010-):

Emma Bose	KEYS Program (Summer 2012)
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Extramural Graduate Student Committees:

2011	Faculty Opponent for the Graduate Dissertation of Christina
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Orsmark-Pietras, Department of Biology and Nutrition, Karolinska
Institutet, Stockholm, Sweden, June 10, 2011

Faculty Mentoring Committees:

Michael Daines, MD	Department of Pediatrics (2007-2011)
Lonnie Lybarger, PhD	Department of Cell Biology (2009-)
Michael Kuhns, PhD	Department of Immunobiology (2010-)
Joyce Wu, PhD	Department of Immunobiology (2012-)

Extramural Promotion and Tenure Committees:

2012	University of Indiana Medical School (2 packages)
2013	NIEHS Laboratory of Respiratory Medicine (1 package)

Grant support (from 2000):**Ongoing:**

- **2RO1HL066391-10A1 (Vercelli)** 12/01/10-11/30/14 Effort: 25%
 NIH/NHLBI Annual Direct Costs: \$250,000
Human IL13 Gene Regulation and Impact of Polymorphisms
 The major goal of this competitive renewal is to analyze the function of novel putative cis-regulatory elements in the human IL13/IL4 locus using a BAC transgenic model.
 Role: PI
- **5R01HL112088 (Barnes)** 03/15/12-02/28/17 Effort: 5%
 NIH/NHLBI Annual Direct Costs \$796,936
Functional Impact of IL33 Polymorphisms on Asthma & Other Th2-mediated Diseases
 This application will explore the role of IL33 polymorphisms in asthma and parasitic diseases. Aim 3 (PI: Vercelli) involves the generation of IL33 humanized mice to characterize the function of IL33 variants that increase susceptibility to asthma while protecting from schistosomiasis.
 Role: PI, University of Arizona Subcontract
- **P30ES006694 (Lau)** 04/01/12-03/31/17 Effort: 7%
 NIH/NIEHS Annual Direct Costs: \$1,100,000
Southwest Environmental Health Sciences Center
 This application will support the Southwest Environmental Health Sciences Center in year 16 to 20 from its inception and will sustain its multiple activities in the domain of research, technology development, facilities management, career development, outreach and education.
 Role: Co-Director, Career Development Center
- **SWEHSC (Klimecki)** 03/01/13 – 03/31/14 Effort: --
 Pilot Projects Annual Direct Costs \$75,000
Induced pluripotent stem cells to model human genetic determinants of environmental toxicity
 This application will use human induced pluripotent stem cells differentiated into hepatocytes to explore the effects of environmental toxicants in a genotype-specific model.
 Role: Co-PI

b: Pending:

- **1R01HL111486-01 (Vercelli)** 12/01/11-11/30/16 Effort: 15%
 NIH/NHLBI Annual Direct Costs \$459,922
Impact of interactions among Th2 pathway polymorphisms on mouse and human asthma
 This application will explore the functional outcome of interactions between polymorphisms in IL13 and IL4R using humanized mice and validating results in human populations.

Role: Contact PI (Multiple PIs, w. D. Meyers, Wake Forest University)

- **1U19AI104236-01 (Vercelli)** 04/01/13-03/31/18 Effort: 25%
Host and Maternal Characteristics and Determinants of Childhood Asthma
 NIH/NIAID Total Costs: \$7,179,689
 The goal of these studies is to determine whether alterations of epigenetic immune regulation, airway microbiome and epithelial cell function, independently or in relation to an altered maternal prenatal immune milieu, lead to the development of childhood asthma.

Role: PI of U19 application and Leader, Project 1

- **1R01GM104563-01 (Vercelli)** 12/01/12-11/30/16 Effort: 15%
 NIH/NIGMS Annual Direct Costs \$250,000
Functional Studies of Asthma-Associated Rare Variants in Humanized Mice
 The goal of this application is to propose a general in vivo model to study the function of rare and common coding and non-coding variants in human complex diseases.

Role: PI

- **1R01HL118962-01 (Vercelli)** 04/01/13-03/31/18 Effort: 15%
 NIH/NHLBI Annual Direct Costs \$250,000
Epigenetic and Genetic Mechanisms in Childhood Asthma
 This application proposes to identify epigenetic (DNA methylation) signatures of asthma at birth and age 9 yrs, and to investigate the functional significance of the convergence between epigenetic and genetic variation.

Role: PI and contact (Multiple PI)

- **R21 (Kececioglu)** 07/01/13-06/30/15 Effort: 15%
 NIH Annual Direct Costs \$150,000
Computational Tools for Asthma Epigenetics Analysis
 The purpose of this proposal is to fund the development of analytical tools for the analysis of differentially methylated regions in the human epigenome.

- **P50 (Lantz)** 09/01/13-08/31/18 Effort: 10%
 NIH/FDA
Biomarkers of Pulmonary Disease Associated with Exposure to Tobacco Smoke
 Project 1: *Biomarkers of Pediatric Asthma Associated with Tobacco Exposure*
 This Project will rely on our Th1 humanized BAC transgenic mice to identify toxic tobacco components that increase asthma susceptibility and severity.

Role: Co-PI, Project 1

c. Completed:

- **1T32ES016652 (Monks)** 07/01/08-06/30/13 Effort: --
 NIEHS Annual Direct Costs \$400,000
Human Genes and the Environment (HUGER)

The goal of this application is to support a Training Program for students interested in research at the interface between genetics, biology and environmental studies.

Role: Co-Director

Overlap: none

- **ABRC 9-136 (Daines)** 07/01/10 – 06/30/13 Effort: 5%
 AZ Biomedical Research Commission Annual Direct Costs \$105,000
Alternaria Chitin and Proteases Impact Alternative Macrophage Activation, Lung Development, and Asthma
 This application will explore the hypothesis that the fungus *Alternaria* acts as an asthmagen because of chitin and proteases.
 Role: Co-PI
- **BIO5 Institute (Vercelli)** 03/01/12 – 03/31/13 Effort: --
 Pilot Projects Annual Direct Costs \$75,000
Human Induced Pluripotent Stem Cell-Based Models of Disease
 This application will explore the possibility that human induced pluripotent stem cells can provide insightful models of human disease-associated biological phenotypes.
 Role: PI
- **1R56AI093636-01 (Vercelli)** 08/18/11-07/31/12 Effort: 20%
 NIH/NIAID Annual Direct Costs \$250,000
Mouse Models for the Functional Analysis of Asthma-Associated Human Polymorphisms
 This application proposes to determine the impact of human IL13 variants on Th2 cytokine expression and lung pathology in humanized IL13 transgenic mice.
 Role: PI
- Faculty Small Grants Program (**Vercelli**) 12/15/99-12/14/00 Effort: --
 University of Arizona Annual Direct Costs: \$5,000
Impact of Genetic Variation on Human CD14 Gene Expression
 The goal of this proposal is the mechanistic characterization of gene-by-environment interactions important for allergy and inflammation
 Role: PI
- **SWEHSC 301705 (Vercelli)** 07/01/01-06/30/02 Effort: --
 Southwest Environmental Health Sciences Center Annual Direct Costs: \$15,500
Gene-by-Environment Interactions in the Pathogenesis of Allergic Asthma
 The main goal of this project is to perform a preliminary assessment of the role of endotoxin exposure and CD14 polymorphisms in regulating the IgG4/IgE ratio and the pathogenesis of allergic asthma.
 Role: PI
- **U01-HL66800 (Martinez)** 08/01/00-08/31/04
 NIH/NHLBI
Innate Immunity in Heart, Lung, and Blood Disease Annual Direct Costs: \$1,252,000
Functional Genomics Center for Innate Immunity PGA Effort: 25%

The goal of this project is to develop and expand genomic knowledge within the heart, lung, and blood community and apply that knowledge to disease pathobiology.

Role: Center PI

- **RO1 HL66391 (Vercelli)** 09/01/00-08/31/05 Effort: 25%
 NIH/NHLBI Annual Direct Costs: \$275,000
Human IL-13 Gene Regulation and Impact of Polymorphisms
 The major goal of this proposal is the functional analysis of the impact that complex patterns of genetic variation have on gene expression.
 Role: PI

- **R21 AI057957 (Vercelli)** 03/15/04-03/14/06 Effort: 10%
 NIH/NIAID Annual Direct Costs: \$150,000
Impact of Genetic Variation on Th Cell Differentiation
 This project is aimed at determining whether and how genetic variation in human GATA-3 affects chromatin structure, gene expression and T helper cell differentiation.
 Role: PI

- **P50 HL67672 (Martinez)** 09/30/01-08/31/06 Effort: 25%
 NIH/NHLBI Annual Direct Costs: \$258,185
SCOR in Cellular and Molecular Mechanisms of Asthma
Project 3: Molecular Control of IgE/IgG4 expression
 The main theme of this proposal is the analysis and comparison of the molecular mechanisms that control the differential expression of allergen-specific IgE and IgG4 in human B lymphocytes.
 Role: PI, Project 3

- **R13AI068367-01 (Vercelli)** 01/01/06-12/31/06 Effort: --
 NIAID Annual Direct Costs: \$7,500
Allergy, Allergic Inflammation and Asthma
 The purpose of this proposal is to support the Keystone symposium “Allergy, Allergic Inflammation and Asthma” (D7-2006, April 2006: Chair and Organizer: D. Vercelli)

- **RO1 AI49570 (Morgan)** 08/01/02-07/31/08 Effort: 5%
 NIH/NIAID Annual Direct Costs: \$228,553
NIAID – Inner City Asthma Consortium: Immunologic Approaches to Reduce Asthma
 This project is aimed at defining immunological mechanisms in the pathogenesis of asthma as a step toward their neutralization.
 Role: Co-Investigator

- **SWEHSC 354727 (Vercelli)** 01/01/07-12/31/07 Effort: ---
 Southwest Environmental Health Sciences Center Annual Direct Costs: \$40,000
Epigenetic signatures of prenatal farm exposure
 The aim of this proposal is to assess genome-wide patterns of DNA methylation and identify putative epigenetic targets of prenatal farm exposure involved in protection from allergic inflammation.

Role: PI

- **HL080083 (Martinez)** 06/01/05-05/31/09 Effort: 15%
 NIH/NHLBI Annual Direct Costs \$350,000
IL8- and GATA3-mediated Pathways in Asthma Exacerbations
 The goal of this project is to characterize pathways of asthma exacerbation mediated by IL-8/neutrophils and/or GATA3/eosinophils through genetic and functional studies.
 Role: Co-PI
- **2RO1 HL66391 (Vercelli)** 01/01/06-12/31/09 Effort: 25%
 NIH/NHLBI Annual Direct Costs: \$250,000
Human IL13 Gene Regulation and Impact of Polymorphisms
 The major goal of this competitive renewal is the functional analysis of the impact of natural genetic variation in *IL13* on gene expression.
 Role: PI
- **FAAN 024463 (Vercelli)** 02/01/08-01/31/10 Effort: 5%
 Food Allergy & Anaphylaxis Network Annual Direct Costs \$103,093
Impact of Genetic Factors on the Natural History of Food Sensitization
 The goal of this application is to identify genetic factors involved in susceptibility to food sensitization in an unselected children population.
 Role: PI
- **R21AI076715 (Vercelli)** 09/15/08-08/31/10 Effort: 12%
 NIH/NIAID Annual Direct Costs \$150,000
Mouse Models for the Functional Analysis of Asthma-Associated Human Polymorphisms
 This proposal seeks to establish new in vivo models for the functional analysis of human polymorphisms through the generation of BAC transgenic carrying defined, asthma/allergy-associated *IL13* haplotypes.
 Role: PI
- **3R21AI076715-01A1S1** 07/18/09-08/31/10
 NIH/NIAID Annual Direct Costs \$115,065
Mouse Models for the Functional Analysis of Asthma-Associated Human Polymorphisms
 This ARRA supplement supports one post-doctoral fellow working on the parent project.
- **3R21AI076715-01A1S2** 07/18/09-08/31/10
 NIH/NIAID Annual Direct Costs \$40,065
Mouse Models for the Functional Analysis of Asthma-Associated Human Polymorphisms
 This ARRA supplement supports the purchase of a FlexiVent apparatus for invasive lung function measurements.
- **5RC1ES018328 (Lau)** 09/30/09-08/31/11 Effort: 10%
 NIH/NIEHS Annual Direct Costs \$308,215
Proteomic Signatures of an Early Life Asthma-Protective Exposure

This application is aimed at the identification of proteomic signatures of early life dog exposure in the plasma or serum of children who have or have not been exposed to dogs in early life, and who were or were not diagnosed with asthma by age 5-8 yrs.

Role: Co-PI

- **5RC1HL100800 (Vercelli)** 09/30/09-02/29/12 Effort: 20%
NIH/NHLBI Annual Direct Costs \$321,666

Epigenetic Predictors of Asthma in Neonates

This application is aimed at the identification and validation of epigenetic signatures (DNA methylation patterns) that predict asthma in neonates.

Role: PI

- **R21AI088392 (Castigli)** 04/01/10-03/31/12 Effort: 5%
NIH/NIAID Annual Direct Costs \$150,000

Impact of TLR2/Environment Interactions on Asthma Susceptibility: Mouse Models

This proposal seeks to generate an in vivo BAC transgenic model for the functional analysis of human polymorphisms in TLR2 and gene-environment interactions.

Role: Co-PI

- **NSF06-0525 (Nachman)** 07/01/07-06/30/12 Effort: 3%
NSF Annual Direct Costs: \$599,967

NSF-IGERT Program in Comparative Genomics

The goal of this proposal is to support an interdisciplinary IGERT Program at the University of Arizona with a new focus on human and functional studies.

Role: Co-PI

Graduate Fellowships and Awards to Members of the Laboratory (2001-):

2000-03	Canadian Institutes of Health Research (to Lisa Cameron, PhD)
2001	AAAAI Summer Fellowship (to Carla Beckham)
2002	Sepracor AAAAI Young Investigator Research Award (to Lisa Cameron, PhD)
2002	National Science Foundation IGERT Fellowship (to Jannine M. Stempel)
2003	IGERT Travel Fellowship (to Jannine Stempel)
2003	Minority Health Disparities Summer Research Program (to Marty Cisneros)
2004	AAAAI Interest Section Research Award (to Lisa Cameron, PhD)
2004	Herbert E. Carter Graduate Interdisciplinary Fellowship (to Patricia Ortiz)
2006	Keystone Symposia Fellowship (to Robin B. Webster)
2008	FASEB MARC Program Travel Award (to Patricia Ortiz-Kiesler)
2008	AAI Trainee Abstract Award (to Jannine M. Stempel)
2012	AAI Early Career Faculty Travel Grant (to Vadim Pivniouk)

Post-Graduate Fellowships and Awards to Mentees:

- **Pivniouk, Vadim** 07/01/05-06/30/08
 Parker B. Francis Fellowship in Pulmonary Research
Role of Calcineurin A- β in allergic reactions and mast cell physiology
 Role: Mentor
- **Otsuka, Kimberly N.** 07/01/05-06/30/08
 F32 AI065078
 Ruth L. Kirschstein National Research Service Award
Regulation of TLR2 expression and impact of polymorphisms
 Role: Mentor
- **Stempel, Jannine M** 06/01/11-05/31/13
 NIEHS T32 Fellowship
 Human Genes and the Environment (HuGER) Training Program, The University of Arizona
Induced pluripotent stem cell models of the airway epithelium in human asthma
 Role: Mentor
- **Stempel, Jannine M** 02/01/12 – 01/31/13
 BIO5 Institute
Human Induced Pluripotent Stem Cell-Based Models of Disease
 This application will explore the possibility that human induced pluripotent stem cells can provide insightful models of human disease-associated biological phenotypes.
 Role: Mentor

PUBLICATIONS:

1. Di Guglielmo R, **Vercelli D**, Guidi G. Lo staging clinico e quantitativo e il monitoraggio del mieloma multiplo. Analisi di 145 casi clinici. *Rec. Progr. Med.* 66: 382-417 (1979)
2. Di Guglielmo R, Guidi G, **Vercelli D**. In tema di clinica, citomorfologia e terapia del plasmocitoma e sindromi affini. *Haematologica* 64: 62-71 (1979)
3. **Vercelli D**, Di Guglielmo R, Guidi G, Scolari L, Buricchi L, Cozzolino F. Bone marrow percentage of plasma cells in the staging of monoclonal gammopathies. *Nouv. Rev. Fr. Hematol.* 22: 139-145 (1980)
4. Selli C, Cozzolino F, **Vercelli D**, Floridi D, Mincione GP. Gli antigeni ABO delle neoplasie vescicali superficiali: valore prognostico in uno studio retrospettivo. *Atti della Societa Italiana di Urologia* 2: 27-33 (1980)
5. **Vercelli D**, Cozzolino F, Di Guglielmo R. A comparison of two staging systems for myeloma. *Nouv. Rev. Fr. Hematol.* 23: 107-110 (1981)
6. Miliani A, Anichini P, Di Guglielmo R, Pellegrini G, Fiorelli C, Cozzolino F, **Vercelli D**. Etude cyto-enzymologique des plasmocytes medullaires des dysglobulinemies myelomateuses et non myelomateuses. *Nouv. Rev. Fr. Hematol* 24: 85-88 (1982)
7. Cozzolino F, **Vercelli D**, Castigli E, Becucci A, Di Guglielmo R. A new case of γ heavy chain disease. Clinical and Immunochemical Studies. *Scand. J. Haematol.* 28: 85-88 (1982)
8. **Vercelli D**, Cozzolino F, Becucci A, Di Guglielmo R. β 2-microglobulin in monoclonal gammopathies. *Nouv. Rev. Fr. Hematol.* 24: 85-88 (1982)
9. Torsellini A, Becucci A, Citi S, Cozzolino F, Guidi G, Lombardi V, **Vercelli D**, Veloci M. Effects of pressure on human platelets. In vitro studies on betathromboglobulin (β TG) and platelet factor 4 (PF4) release and on platelet sensitivity to ADP-aggregation. *Haematologica* 67: 860-886 (1982)
10. Selli C, Cozzolino F, **Vercelli D**, Mincione GP. A, B, O (H) antigenic determinants in superficial transitional cell tumors of the bladder. *Urology* 21: 132-134 (1983)
11. Selli C, Cozzolino F, Carini M, Lenzi R, **Vercelli D**. Serum β 2-microglobulin levels in patients with renal cell carcinoma. *Urol. Res.* 12: 261-263 (1984)
12. Romagnani S, Giudizi MG, Maggi E, Almerigogna F, Biagiotti R, Del Prete GF,

- Mazzetti M, Alessi A, **Vercelli D**, Ricci M. Synergy of B cell growth factor and interleukin 2 in the proliferation of activated human B cells. *Eur. J. Immunol.* 15: 1158-1164 (1985)
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ABSTRACTS:

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93. Stern D, G Tebow, IC Lohman, W Eder, E Von Mutius and the ALEX Group, M Halonen and **D Vercelli**. Regulation of Th2-Dependent Antibody Responses and Allergic Inflammation: Role of Environmental Stimuli. *Keystone Symposium: Hygiene, Allergy and Asthma*, Keystone, CO, April 1-6, 2003
94. Stempel JM, RB Webster and **D Vercelli**. CNS-1 is a potent enhancer of human IL-13 gene transcription. *Keystone Symposium: Hygiene, Allergy and Asthma*, Keystone, CO, April 1-6, 2003
95. **Vercelli D**. Rethinking IgE Regulation: Th2 Antibody Responses and the Environment. Novartis Foundation Symposium n. 257, *Anaphylaxis*, London, UK, February 25-27, 2003
96. de la Cruz A, **D Vercelli** and M Halonen. Regulation of mRNA stability by the 3' Untranslated Region of the Interleukin-13 gene. *FASEB J.* 17: C293/153.6 (2003)
97. Cameron L and **D Vercelli**. Altered IL-13 promoter activity by the single nucleotide polymorphism, -1112C→T. *FASEB J.* 17: C103/67.29 (2003)
98. Webster RW and **D Vercelli**. IL-13 chromatin remodeling in differentiating human neonatal Th1 and Th2 cells. *FASEB J.* 17: C103/67.28 (2003)
99. Vladich FD, SM Brazille, R Ghittoni and **D Vercelli**. Increased biological activity of IL-13.Q130, a naturally occurring variant of human IL-13, in primary human cells. *J. Allergy Clin. Immunol.* 113: A328, 214 (2004)
100. R Lazarus, BA Raby, EK Silverman, DJ Kwiatkowski, W Klimecki, **D Vercelli**, FD Martinez, and ST Weiss. TLR10 SNPs are associated with asthma: replication of an adult case-control association in an independent family based study of children. *ATS 100th International Conference*, Orlando, FL, May 2004
101. Cameron L, M Kabesch, H Ramachandran, L-Z Yu, F Martinez, W Klimecki and **D Vercelli**. Interleukin 13 (*IL13*) transcription is attenuated by *IL13/C*-1112T, a single nucleotide polymorphism (SNP) associated with increased IgE levels. *12th International Congress of Immunology*, Montreal, Canada, July 18-23, 2004 (M36.176)
102. Brazille S, A Maroofi, and **D Vercelli**. IL-10 inhibits T cell-dependent IgE synthesis by downregulating CD40 ligand expression. *12th International Congress of Immunology*, Montreal, Canada, July 18-23, 2004 (M36.195)
103. Stempel JM and **D Vercelli**. Functional dissection of Conserved Non-Coding Sequence-1 (CNS-1), a potent enhancer of Interleukin 13 (*IL13*) transcription. *12th International Congress of Immunology*, Montreal, Canada, July 18-23, 2004 (M36.116)
104. Mostecky J, WJ Klimecki, PE Graves, RL Miller, M Vanpeer, FD Martinez, **D**

Vercelli and PB Rothman. Single nucleotide polymorphism in the SOCS-1 promoter is associated with lower IgE levels in asthma patients. *12th International Congress of Immunology*, Montreal, Canada, July 18-13, 2004 (M36.131)

105. Ortiz P, P Haynes, V Wysocki and **D Vercelli**. Tandem mass spectrometry-based identification of transcription factors binding to a polymorphic cis-regulatory element in the human *IL13* promoter. 53rd Annual Meeting of the American Society for Mass Spectrometry, May 2005

106. Stempel JM, RB Webster and **D Vercelli**. Functional dissection of CNS-1, a potent enhancer of human *IL13* transcription. *Keystone Symposium: Allergy, Allergic Inflammation and Asthma*, Breckenridge, CO, April 6-11, 2006

107. Ortiz P, W Klimecki and **D Vercelli**. Impact of *IL13*-1512AC on human *IL13* transcription. *Keystone Symposium: Allergy, Allergic Inflammation and Asthma*, Breckenridge, CO, April 6-11, 2006

108. Webster RB, Y Rodriguez, WT Klimecki and **D Vercelli**. The human *IL-13* locus in neonatal CD4 T cells is refractory to the acquisition of a repressive chromatin architecture. *Keystone Symposium: Allergy, Allergic Inflammation and Asthma*, Breckenridge, CO, April 6-11, 2006

109. Brazille SM, A Maroofi and **D Vercelli**. IL-10 Inhibits T cell-dependent IgE Synthesis by Downregulating CD154 Expression. *Keystone Symposium: Allergy, Allergic Inflammation and Asthma*, Breckenridge, CO, April 6-11, 2006

110. Stern DA, J Riedler, D Nowak, C Braun-Fahrlander, I Swoboda, N Balic, K Chen, S Vrtala, H Groenlund, M Van-Hage, R Valenta, S Spitzauer, E Von Mutius and **D Vercelli**. Exposure to a farming environment affects allergen-dependent isotype switching. *Keystone Symposium: Allergy, Allergic Inflammation and Asthma*, Breckenridge, CO, April 6-11, 2006

111. **Vercelli D** and A Di Rienzo. Functional Genomics in an Evolutionary Framework: IL13 and Allergic Inflammation. *Keystone Symposium: Allergy, Allergic Inflammation and Asthma*, Breckenridge, CO, April 6-11, 2006

112. **Vercelli D** and M Piattelli-Palmarini. Language in an epigenetic framework – A quattro mani. *Of Minds and Language: An Encounter with Noam Chomsky*, San Sebastian, Spain, June 18-22, 2006

113. **Vercelli D**. The genetic regulation of Th2 responses. *V National SIICA Conference*, Trieste, Italy, June 6-9, 2007

114. Ortiz P, P Haynes, V Wysocki and **D Vercelli**. Identification of NF90 and NF45 as transcriptional regulators of *IL13*, a central mediator of allergic inflammation. *Integrated Biosystems Research Symposium: Advances in Proteomics Research*,

Biodesign Institute, Arizona State University, Phoenix, AZ, November 16, 2007

115. Cameron L, R Quapp and **D Vercelli**. Transcriptional regulation of the proximal promoter of human IL-13. *Annual Meeting of the American Academy of Allergy, Asthma and Immunology*, Philadelphia, PA, March 2008

116. Lohman C, D Stern, W Klimecki, **D Vercelli**, AL Wright, and M Halonen. IL13 gene variants influence early life weight gain in breastfed male infants. *Annual Meeting, American Association of Immunologists*, San Diego, CA, April 2008

117. Stempel JM, R Grenningloh, I-Cheng Ho and **D Vercelli**. Phylogenetic and functional analyses identify Ets-1 as an important regulator of the Th2 cytokine gene locus. *Annual Meeting, American Association of Immunologists*, San Diego, CA, April 2008

118. Kiesler P, P Haynes, L Shi, P Kao, V Wyszocki and **D Vercelli**. NF90 and NF45 regulate Interleukin-13 (IL13) gene transcription in human T cells. *Annual Meeting, American Association of Immunologists*, San Diego, CA, April 2008

119. Otsuka K, B Schaub, J Liu, E von Mutius, and **D Vercelli**. Impact of prenatal farm exposure on Toll-like Receptor 2 (TLR2) promoter methylation and gene expression. *International Conference, American Thoracic Society*, Toronto, Canada, May 2008

120. Brown MA, S Ehteshami, WJ Morgan, JL Goodwin, **D Vercelli**, M Halonen, and FD Martinez. IL-6 protects against persistent airway obstruction in childhood asthma. *International Conference, American Thoracic Society*, San Diego, CA, May 2009

121. Kiesler P, A Shakya, D Tantin, and **D Vercelli**. An allergy-associated polymorphism in a novel regulatory element enhances *IL13* expression. *Annual Meeting, American Association of Immunologists*, Seattle, WA, May 2009

122. **Vercelli D**, GA Hawkins, E Kwon, ER Bleecker and DA Meyers. Impact of rare genetic variants on asthma and allergy susceptibility: The case of IL13R105Q. 28th Symposium, *Collegium Internationale Allergologicum*, Ischia, Italy, April 25-30, 2010

123. V Pivniouk, T Bailey, O Pivniouk, P Kiesler, G Wlasiuk, D Rosenbaum, K Kim, J Stempel, M Daines and **D Vercelli**. Faithful epigenetic and transcriptional regulation of a transgenic human Th2 cytokine gene locus in the murine nuclear environment. *Annual Meeting, American Association of Immunologists*, Baltimore, MD, May 2010/*J. Immunol.*, Apr 2010; 184: 51.1.

124. Galligan M, L Brechi, TR Radabaugh, G Tsapralis, D Billheimer, M Halonen, **D Vercelli** and SS Lau. Proteomic analysis of human plasma in search of potential biomarkers for asthma. *58th American Society for Mass Spectrometry Conference on Mass Spectrometry*, 2010

125. Lohman IC, A Spangenberg, AL Wright, **D Vercelli**, and M Halonen. Serum levels of *Alternaria*-specific IgG at age 1 predict development of asthma through age 5. *International Conference, American Thoracic Society*, 2011
126. Radabaugh T, H Xu, G Tsapralis, Z Lu, J Liu, D Billheimer, **D Vercelli**, M Halonen and SS Lau. Development of an internal standard for studies of human plasma by label free quantitative analysis. *59th American Society for Mass Spectrometry Conference on Mass Spectrometry*, 2011
127. Xu H, T Radabaugh, Z Lu, D Billheimer, **D Vercelli**, M Halonen and SS Lau. Discovery of early life plasma protein signatures for asthma development. *Experimental Biology* 2012, April 21-26, 2012, San Diego, CA
128. Radabaugh T, H Xu, Z Lu, D Billheimer, **D Vercelli**, M Halonen and SS Lau. Multiple Approaches to Identify Plasma Proteomic Signatures of asthma risk and/or Protection Associated with Early Indoor Dog Exposure. *60th American Society for Mass Spectrometry Conference on Mass Spectrometry*, 2012
129. Pivniouk V, T Bailey, O Pivniouk, D Rosenbaum, S Mobley, D Stern, M Halonen and **D Vercelli**. Asthma-associated IL13 single nucleotide polymorphisms (SNPs) upregulate human IL4 expression in mice carrying a human Th2 locus BAC transgene. *Annual Meeting, American Association of Immunologists*, Boston, MA, May 2012
130. Brown MA, Stern DA, Lohman IC, Halonen M, Ehteshami S, **Vercelli D**, Martinez FD. Sputum IL-13 is Associated with Paucigranulocytic Asthma Exacerbations in Children. *International Conference, American Thoracic Society*, 2013
131. Rothers J, A.L. Wright, D.A. Stern, **D. Vercelli**, G. Wlasiuk Battagliotti, M. Halonen, PhD. Maternal prenatal IL-13/IFN- γ ratio predicts childhood asthma. *International Conference, American Thoracic Society*, 2013
132. Xu H, T Radabaugh, Z Lu, D Billheimer, **D Vercelli**, M Halonen, SS Lau. Validation of an Early Life Candidate Biomarker that Predicts Asthma Development. *Experimental Biology* 2013
133. Pivniouk V, D Rosenbaum, P Aryanpur, O Pivniouk, DA Stern, M Halonen and **D Vercelli**. Asthma/allergy-associated single nucleotide polymorphisms (SNPs) in IL13 strongly dysregulate human IL4 expression and IgE production. *Keystone Symposium: Pathogenetic Processes in Asthma and COPD*, Santa Fe, NM, January 10-15, 2013
134. Wlasiuk G, SJ Miller, DA Stern, J Rothers, IC Lohman, M Halonen, AL Wright and **D Vercelli**. Epigenetic predictors of childhood asthma are detectable in the methylome at birth. *Keystone Symposium: Pathogenetic Processes in Asthma and COPD*, Santa Fe, NM, January 10-15, 2013

135. Hedjoudje A, L Huang, N Rafaels, C Vergara, M Taub, I Ruczinski, C Ober, E Burchard, TH Beaty, **D. Vercelli**, KC Barnes, RA Mathias, EVE and CAAPA. Whole genome sequence reveals a haplotype conferring protection from asthma common to subjects of European and African ancestry. *2013 AAAAI meeting*, San Antonio, TX, February 2013

INVITED TALKS (from 2000):

- *IgE regulation in Y2K.* Immunology conference, Johns Hopkins University Asthma & Allergy Center, Baltimore, MD, February 29, 2000.
- *Regulation of IgE switching: A time for genetics?* Department of Microbiology and Immunology, University of Arizona, Tucson AZ, April 7, 2000
- *The monocyte/IgE connection: May polymorphisms in the CD14 gene teach us something about IgE regulation?* 23rd CIA meeting, Hakone, Japan, May 19, 2000
- *IL-13: The asthma cytokine?* Meakins-Christie Workshop: Interaction between inflammation/remodeling and smooth muscle, McGill University, Montreal, Canada, June 3, 2000
- *CD14: A bridge between innate immunity and IgE responses.* 6th Conference of the International Endotoxin Society, Paris, France, August 27, 2000
- *IgE regulation in Y2K: A time for genetics?* Plenary session, XVII International Congress of Allergology and Clinical Immunology, Sydney, Australia, October 18, 2000
- *CD14: A bridge between innate immunity and IgE regulation.* Keystone Symposium on Macrophage Activation and Deactivation: Links Between Innate and Acquired Immunity, Keystone, CO, January 24, 2001
- *Human IL-13 gene regulation and impact of polymorphisms.* Asthma Gene Discovery RFA Meeting, NIH, Bethesda, MD, January 30, 2001
- *IL-13: The asthma cytokine?* The Institute for Genomic Research, Rockville, MD, February 28, 2001
- *Regulation of IL-13: Does genetic variation make a difference?* NIAID Symposium: Rethinking Immunotherapy for the 21st century: Bench to Bedside, 57th Annual Meeting of the American Academy of Allergy, Asthma and Immunology, New Orleans, LA, March 16, 2001
- *IgG4 and the prevention of asthma: Giving Th2 responses a second chance.* People's Choice Symposium: Can and Should the Hygiene Hypothesis Be Applied to the Prevention of Allergy and Asthma? 57th Annual Meeting of the American Academy of Allergy, Asthma and Immunology, New Orleans, LA, March 21, 2001
- *Molecular pathogenesis of allergy: A time for genetics.* Grand Rounds, Division of Pulmonary, Allergy and Critical Care, Department of Medicine, Columbia University, New York, NY, April 12, 2001

- *IL-13: Diverse functions for a diverse gene.* Symposium: Genetics of Asthma: Functional Implications of Genetic Variants, ATS 2001, San Francisco, CA, May 21, 2001
- *The genetic regulation of human allergic responses.* 14th Annual Joseph A. Kwasman Memorial Lecture, Department of Pediatrics, University of Rochester, Rochester, NY, June 6, 2001
- *Molecular mechanisms of IgE regulation.* Strong Children's Research Center, University of Rochester, Rochester, NY, June 6, 2001
- *Human IL-13 gene regulation and impact of polymorphisms.* Asthma Gene Discovery RFA Meeting, University of Chicago, Chicago, IL, July 12, 2001
- *Th2-dependent B cell activation and allergic asthma: A double-edged sword?* Third Triennial World Asthma Meeting, Chicago, IL, July 13, 2001
- *Genetic variation in IL-13 and dysregulation of IgE responses.* Graduate Interdisciplinary Program in Genetics, University of Arizona, September 12, 2001
- *The genetic regulation of the allergic response.* Department of Cell Biology and Anatomy, University of Arizona, September 24, 2001
- *The functional genomics of allergic disease: Lessons from IL-13.* Department of Internal Medicine, University of Iowa, Iowa City, IA, December 3, 2001
- *Functional genomics of the allergic response.* Department of Pediatrics, College of Medicine, University of Arizona, January 7, 2002
- *The role of innate immunity in human disease: An introduction.* Educational Course: An Introduction to the Genetics and Genomics of Complex Lung Disease, IIPGA, Tucson, AZ, February 27, 2002
- *Functional Genomics of CD14 & the Allergic Response.* Educational Course: An Introduction to the Genetics and Genomics of Complex Lung Disease, IIPGA, Tucson, AZ, February 27, 2002
- *Genetics of IL-13 and Functional Relevance of IL-13 Variants.* Symposium: IL-13, Bench to Bedside, 58th Annual Meeting of the American Academy of Allergy, Asthma and Immunology, New York, NY, March 3, 2002
- *JAKs: The Conductors of Cytokine Signaling.* Symposium: Transcription Factors and Kinases as Targets for Asthma and Allergic Disease, 58th Annual Meeting of the American Academy of Allergy, Asthma and Immunology, New York, NY, March 4,

2002

- *Differential Regulation of IgE/IgG4 Isotype Switching and Allergy*. 16th Meeting of the Canadian Society of Immunology, Blue Mountain, Ontario, April 8, 2002
- *The Genetic Regulation of the Allergic Response*. Immunology Affinity Program, The Scripps Research Institute, La Jolla, CA, May 2, 2002
- *The Genetic Regulation of Allergic Inflammation*. Biology of Inflammation Center, Baylor College of Medicine, Houston, TX, May 13, 2002
- *The Genetic Regulation of IgE Responses*. Lovelace Respiratory Research Institute Symposium, Molecular Approaches for Early Diagnosis and Treatment of Respiratory Diseases, Santa Fe, NM, October 15, 2002
- *The Functional Genomics of Allergic Disease: Lessons from IL-13*. 24th CIA Meeting, Bermuda, November 3, 2002
- *Innate Immunity and the Pathogenesis of Complex Diseases*. Department of Pediatrics, University of Munich, Munich, Germany, November 26, 2002
- *The Functional Genomics of Allergic Disease: A View from IL-13*. Randall Institute, King's College London, London, UK, February 24, 2003
- *Rethinking Th2 Antibody Responses*. Symposium on Anaphylaxis, Novartis Foundation, London, UK, February 25, 2003
- *Regulation and Biology of IgE (and beyond...)*. Royal Society of Medicine/Novartis Foundation, London, UK, February 28, 2003
- *The Quest for New Therapeutic Targets in Asthma and Allergy*. Burton Zweiman Lecture, Plenary Session, 59th Annual Meeting, American Academy of Allergy, Asthma and Immunology, Denver, CO, March 8, 2003
- *Th2 Antibody Responses, Allergic Inflammation and the Environment*. Keystone Symposium: "Hygiene, Allergy and Asthma", Keystone, CO, April 2, 2003
- *The Hygiene Hypothesis Revisited: Th2 Antibody Responses and the Environment*. "The Hygiene Hypothesis Revisited", International Meeting, University of Manitoba, Winnipeg, Manitoba, Canada, May 23, 2003
- *IgE Regulation – 2003*. Certification/Recertification Course, American Academy of Allergy, Asthma and Immunology, Chicago, IL, June 6, 2003
- *Th2 Antibody Responses and the Environment*. Wyeth, Cambridge, MA, June 18,

2003

- *Regulation of IgE Synthesis*. World Allergy Organization Meeting – XVIII ICACI, Vancouver, Canada, September 9, 2003
- *How Genetic Variation Impacts on Gene Expression and Function*. NHLBI Course; “Genetic Approaches to Complex Heart Lung and Blood Diseases”, The Jackson Laboratories, Bar Harbor, ME, September 13, 2003
- *Functional Genomics of Your Favorite SNP: What’s Next?* Meeting of the NHLBI Programs for Genomic Applications, Cambridge, MA, September 18, 2003
- *Functional Genomics of Allergic Disease*. Department of Pathophysiology, School of Medicine, University of Vienna, Austria, September 26, 2003
- *Endotoxin, CD14, and the IgE Response*. European Respiratory Society, 13th Annual Congress, Vienna, Austria, September 29, 2003
- *Molecular Immunology of Allergy*. Meeting of the American College of Allergy, Asthma and Immunology, New Orleans, LO, November 10, 2003
- *Basic Concepts in Allergy*. IPOKRaTES Seminar: “Understanding and Management of Pediatric Asthma”, Feldkirch, Austria, January 28, 2004
- *Basic Concepts in Innate Immunity*. IPOKRaTES Seminar: “Understanding and Management of Pediatric Asthma”, Feldkirch, Austria, January 28, 2004
- *IL13: Genetics, Epigenetics and Phylogenetics*. 7th Annual Meakins-Christie Workshop: Recent Advances in Asthma and COPD, Chateau Bromont, Bromont, Quebec, Canada, February 1, 2004
- *Functional Characterization of Inflammatory Genes in Asthma and Allergy*. Symposium: The Genetics of Asthma and Allergy, 60th Annual Meeting, American Academy of Allergy, Asthma and Immunology, San Francisco, CA, March 21, 2004
- *Functional Genomics of Allergic Disorders*. IBSB Symposium, University of Arizona, May 6, 2004
- *The Impact of Genetic Variation on Human IgE Regulation*. Minisymposium, “Regulation of Allergic Reactions”, 12th International Congress of Immunology, Montreal, Canada, July 19, 2004
- *From Gene to Function in Asthma and COPD*. Bronchitis VII, Wenckebach Institute, University of Groningen, Groningen, The Netherlands, August 29, 2004
- *CD14 as a Model for Gene-Environment Interactions*. NHLBI Course; “Genetic

Approaches to Complex Heart Lung and Blood Diseases”, The Jackson Laboratory, Bar Harbor, ME, October 13, 2004

- *Functional Characterization of a Gene: IL13 as an Example*. Course; “Genetic Approaches to Complex Heart Lung and Blood Diseases”, The Jackson Laboratory, Bar Harbor, ME, October 13, 2004
- *From Gene to Function in Allergic Inflammation*. Division of Pulmonary Medicine, Allergy and Immunology, University of Minnesota, Minneapolis, MN, November 4, 2004
- *Gene-environment Interactions and the Pathogenesis of Allergic Inflammation: The Endotoxin Switch*. DERT Scientific Retreat, NIEHS, Pinehurst, NC, December 2, 2004
- *Gene-Environment Interactions in the Nucleus: A Novel Paradigm in Functional Genomics?* 8th Annual Meakins-Christie Workshop: Recent Advances in Asthma and COPD, Manoir des Sables, Quebec, Canada, February 6, 2005
- *Functional Genomics of Allergic Disease*. UCI Center for Immunology, University of California, Irvine, CA, March 10, 2005
- *Functional Genomics: How Genetic Variation Affects Gene Expression*. Symposium: “Understanding the Genetic Basis of Asthma and Allergy Susceptibility”, 61st Annual Meeting, American Academy of Allergy, Asthma and Immunology, San Antonio, TX, March 18, 2005
- *Gene-Environment Interactions in the Nucleus: A Novel Paradigm in Functional Genomics*. University of Iowa, Iowa City, IA, April 12, 2005
- *IgE*. Certification/Recertification Course, American Academy of Allergy, Asthma and Immunology, Chicago, IL, April 14, 2005
- *Functional Genomics of Allergic Disease*. Medical College of Wisconsin, Milwaukee, WI, April 19, 2005
- *Gene-Environment Interactions in the Nucleus: How Natural Variation Affects the Regulation of Gene Expression*. Division of Immunology, Children’s Hospital, Harvard Medical School, Boston, MA, May 10, 2005
- *Gene-Environment Interactions in the Nucleus: A Novel Paradigm in Functional Genomics*. Boston City Wide Grand Rounds, Boston, MA, May 10, 2005
- *Genetic Polymorphism and the Environment in Allergic Disease*. 46th Annual Meeting of the European Society for Pediatric Research, Siena, Italy, September 1, 2005

- *Gene-environment interactions*. NHLBI Course: “Genetic Approaches to Complex Heart Lung and Blood Diseases”, The Jackson Laboratory, Bar Harbor, ME, October 1, 2005
- *IL13: Gene-environment Interactions in the Nucleus and Other New Paradigms in Functional Genomics*. NHLBI Course: “Genetic Approaches to Complex Heart Lung and Blood Diseases”, The Jackson Laboratory, Bar Harbor, ME, October 1, 2005
- *The Genetic Regulation of Allergic Responses: From the Biology of Identity to the Biology of Diversity*. Grand Rounds, Division of Biomedical Sciences, University of Chicago, Chicago, IL, October 18, 2005
- *Epigenetic Regulation of Allergic Inflammation*. Conference, “Environmental Epigenomics, Imprinting and Disease Susceptibility”, Duke University/NIEHS, Durham, NC, November 3, 2005
- *Functional Genomics of Allergic Inflammation*. Allergy Grand Rounds, University of Wisconsin at Madison, Madison, WI, November 18, 2005
- *The Genetic Regulation of Allergic Responses*. Graduate Interdisciplinary Program in Genetics, University of Arizona, November 29, 2005
- *The Genetic Regulation of Allergic Responses: From the Biology of Identity to the Biology of Diversity*. Pulmonary Grand Rounds, Wake Forest University, Winston-Salem, NC, December 7, 2005
- *Developmental Regulation of IL13 Expression: An Epigenetic Window of Opportunity for Allergic Disease*. Center for Human Genetics, Wake Forest University, Winston-Salem, NC, December 7, 2005
- *The Developmental Regulation of Th2 Cytokine Gene Expression*. 9th Annual Meakins-Christie Workshop: Recent Advances in Asthma and COPD, Le Chantecler, St. Adele, Quebec, Canada, February 13, 2006
- *The Genetic Regulation of Allergic Inflammation: Deciphering the Biology of Complexity*. Grand Rounds, Children’s Hospital, Harvard Medical School, Boston, MA, February 15, 2006
- *How to Assess Gene Function*. Course: “Understanding the Genetics of Allergy and Asthma: Theory and Practice”, 62nd Annual Meeting, American Academy of Allergy, Asthma and Immunology, Miami Beach, FL, March 3, 2006
- *Gene-Environment Interactions in JACI 2005*. JACI Year in Review, 62nd Annual Meeting, American Academy of Allergy, Asthma and Immunology, Miami Beach, FL, March 6, 2006

- *Functional genomics of allergic inflammation: How natural variation in IL13 influences gene expression and disease susceptibility.* Frontiers in Immunobiology, Tucson, AZ, March 25, 2006
- *Allergy, microbes and the immune response: What can we learn from basic immunology?* Swiss Society of Allergology and Immunology, Annual Meeting, Zurich, Switzerland, March 31, 2006
- *Functional Genomics in an evolutionary framework: IL13 and allergic inflammation.* Keystone Symposium, “Allergy, Allergic Inflammation and Asthma”, Breckenridge, CO, April 7, 2006
- *Deciphering the Biology of Complexity.* Rheumatology Grand Rounds, Arthritis Center, College of Medicine, University of Arizona, Tucson, AZ, April 21, 2006
- *How Genetic Variation Affects Gene Function.* Course, “Genetic Approaches sin Respiratory Medicine”, 2006 ATS International Conference, San Diego, CA, May 20, 2006
- *Environmental Modulation of Human Th2-Dependent Antibody Responses.* XXV Congress of the European Academy of Allergology and Clinical Immunology, Vienna, June 12, 2006
- *Language in an Epigenetic Framework.* Of Minds and Language: An Encounter with Noam Chomsky, San Sebastian, Spain, June 18, 2006
- *Gene-Environment Interactions.* NHLBI Strategic Planning Meeting, “Development of Early Origins of Disease”, Washington, DC, July 11, 2006
- *Gene-Environment Interactions.* NHLBI Course: “Genetic Approaches to Complex Heart Lung and Blood Diseases”, The Jackson Laboratory, Bar Harbor, ME, October 24, 2006
- *Functional Genomics: How Genetic Variation Affects Gene Expression.* NHLBI Course: “Genetic Approaches to Complex Heart Lung and Blood Diseases”, The Jackson Laboratory, Bar Harbor, ME, October 25, 2006
- *Functional Genomics in an Evolutionary Framework,* Division of Allergy and Immunology, Children’s Hospital, Cincinnati, OH, November 8, 2006
- *The Environment and the In Vivo Regulation of IgE Responses.,* Department of Medicine, University of Cincinnati College of Medicine, Cincinnati, OH, November 8, 2006

- *Gene Regulation and Genetic Variation in an Evolutionary Framework*, The CBR Institute for Biomedical Research, Harvard Medical School, Boston, MA, December 1, 2006
- *How the Environment Regulates the Human Allergic Response*. Division of Allergy and Immunology, Massachusetts General Hospital, Boston, MA, December 12, 2006
- *The Regulation of the Human Allergic Responses: Where We Are, How We Got There and Where We Are Going*. Immunobiology Program, University of Arizona, December 14, 2006
- *The Genetic Regulation of Human Allergic Responses: How Genetic Variation Affects Gene Expression*. Immunology Graduate Program, University of Connecticut, Farmington, CT, January 25, 2007
- *The Genetic Regulation of the Allergic Response: How Genetic Variation Affects Gene Expression and Function*. Genetics and Aging Research Unit, Mass General Institute for Neurodegenerative Disease (MIND), Massachusetts General Hospital, Charlestown, MA, February 16, 2007
- *Gene-Environment Interactions & the Heterogeneity of Asthma*. Asian-American Physician Society, Redondo Beach, CA, April 12, 2007
- *How the Environment Regulates the Human Allergic Response*. Division of Allergy and Immunology, Keck School of Medicine, University of Southern California, Los Angeles, CA, April 13, 2007
- *Functional Analysis of Asthma Genes*. Division of Pediatric Immunology and Allergy, David Geffen School of Medicine, University of California Los Angeles, Los Angeles, CA, April 13, 2007
- *Immunology of Asthma and Allergies*. Forallvent Symposium, “Environmental, Genetic and Immunologic Determinants of Allergic and Autoimmune Diseases”, University of Basel, Basel, Switzerland, April 21, 2007
- *The Genetic Regulation of Allergic Responses – with an Evolutionary Twist*. Division of Rheumatology, Allergy and Immunology, Virginia Commonwealth University, Richmond, VA, May 11, 2007
- *The Genetic Regulation of Th2 Responses*. 5th Annual Meeting of the Italian Society of Clinical Immunology and Allergology (SIICA), Trieste, Italy, June 7, 2007
- *CD14: An Eloquent Example of Gene-Environment Interactions*. NHLBI Course, “Genomic and Proteomic Approaches to Complex Heart, Lung, Blood & Sleep Disorders”, The Jackson Laboratory, Bar Harbor, ME, August 7, 2007

- *Functional Studies of a Gene: IL13*. NHLBI Course, “Genomic and Proteomic Approaches to Complex Heart, Lung, Blood & Sleep Disorders”, The Jackson Laboratory, Bar Harbor, ME, August 8, 2007
- *Chance and necessity*. Round Table, “Towards a genetics of language”, Cognitive Science Program, University of Arizona, Tucson, AZ, September 27, 2007
- *How the Environment Regulates Human Antibody Responses*. Allergy Division, Children’s Hospital, Ludwig-Maximilians University, Munich, Germany, October 23, 2007
- *Integration, Integration, Integration: The Key to Deciphering Asthma Pathogenesis?* SFB/TransRegio22, “Allergic Responses of the Lung”, Marburg, Germany, October 25, 2007
- *The Regulation of the Allergic Response*. Departments of Medicine and Immunology, School of Medicine, University of Florence, Florence, Italy, October 30, 2007
- *Human Complex Diseases: From a Biologist’s Point of View*. The BIO5 Institute, University of Arizona, Tucson, AZ, November 14, 2007
- *Genetic and Epigenetic Regulation of Allergic Responses*. Graduate Interdisciplinary Program in Genetics, University of Arizona, Tucson, AZ, November 15, 2007
- *Genetic and Epigenetic Regulation of Allergic Responses*. 11th Annual Meakins-Christie Workshop: “Recent Advances in Asthma and COPD”, Manoir des Sables, Orford-Magog, Quebec, Canada, February 3, 2008
- *Epigenetic Regulation of Allergic Responses*. NSF-IGERT Program in Comparative Genomics, University of Arizona, Tucson, AZ, February 20, 2008
- *What’s New in Asthma Genetics?* Division of Pediatric Pulmonary Medicine, Johns Hopkins University School of Medicine, Baltimore, MD, March 4, 2008
- *Epigenetic Regulation of Allergic Responses*. Johns Hopkins Asthma and Allergy Center, Johns Hopkins University School of Medicine, Baltimore, MD, March 5, 2008
- *Animals in the Home or Stable: Healthy or Harmful?* Seminar, Annual Meeting, American Academy of Allergy, Asthma and Immunology, Philadelphia, PA, March 15, 2008
- *Genes, Environments and Gene-Environment Interactions in JACI 2007*. Workshop, “JACI: Year in Review”, Annual Meeting, American Academy of Allergy, Asthma and Immunology, Philadelphia, PA, March 17, 2008

- *What's New in Asthma Genetics*. Division of Allergy and Immunology, Keck School of Medicine, University of Southern California, Los Angeles, CA, May 9, 2008
- *The Epigenetic Regulation of Allergic Responses*. Division of Pediatric Immunology and Allergy, David Geffen School of Medicine, University of California Los Angeles, Los Angeles, CA, May 9, 2008
- *Gene-Environment Approaches*. Postgraduate Course: "Genetic, Analytic, Molecular and Genomic Approaches in Respiratory Medicine", ATS International Conference, May 17, 2008 Toronto, ON, Canada
- *Epigenetic Modification of Allergy and Asthma Genes*. Symposium, "The Origins of Allergy & Asthma from Conception through Early Life", Annual Meeting, European Academy of Allergy and Clinical Immunology, Barcelona, Spain, June 8, 2008
- *Gene-Environment Interactions*. Session, "Development of Allergic Disease: Predictors and Risk Factors", Annual Meeting, European Academy of Allergy and Clinical Immunology, Barcelona, Spain, June 9, 2008
- *The (Epi)Genetic Regulation of Allergic Responses*. Department of Biology and Biotechnology, Università San Raffaele, Milan, Italy, June 18, 2008
- *Genetic Regulation of Allergic Inflammation: The Long and Winding Road*. Department of Pediatrics, University of Arizona, Tucson, AZ, August 11, 2008
- *CD14: An Example of Gene-Environment Interactions*. NHLBI Course, "Genomic and Proteomic Approaches to Complex Heart, Lung, Blood & Sleep Disorders", The Jackson Laboratory, Bar Harbor, ME, September 8, 2008
- *Functional Studies of a Gene: IL13 – Past, Present and Future*. Course, "Genomic and Proteomic Approaches to Complex Heart, Lung, Blood & Sleep Disorders", The Jackson Laboratory, Bar Harbor, ME, September 9, 2008
- *Beyond Associations: Functional Gene Studies. Past, Present and Future*. ERS-Galen Research Seminar, "Post-Genome Respiratory Epidemiology II: An Interdisciplinary Challenge", Abbaye des Vaulx de Cernay, France, November 8, 2008
- *From Genetic Associations to Functional Studies: An Immunologist's Point of View*. Keystone Symposium, "Allergy and Asthma", Keystone, CO, January 21, 2009
- *Discovering Susceptibility Genes for Asthma and Allergy*. VII EAACI-Ga²len Winter School, "Immune Responses in Allergy and Asthma", Davos, Switzerland, February 6, 2009
- *The Genetic Regulation of Allergic Responses: Past, Present and Future*. Immunology Program, University of Pennsylvania, Philadelphia, PA, March 3, 2009

- *The Genetic Regulation of Allergic Responses: Past, Present and Future*. Department of Molecular and Cellular Biology, University of Arizona, Tucson, AZ, March 5, 2009
- *Beyond Associations: Why Functional Studies are a Necessity More than an Option*. University of Arizona/University of Iowa Translational Conference, University of Arizona, Tucson, AZ, March 12, 2009
- *The Genetic Regulation of Allergic Responses: Past, Present and Future*. ST*AR Program, Annual Meeting, American Academy of Allergy, Asthma and Immunology, Washington DC, March 13, 2009
- *How Genetic Variation Affects Gene Function*. “Genetics of Asthma and Allergy”, Annual Meeting, American Academy of Allergy, Asthma and Immunology, Washington DC, March 13, 2009
- *The Genetic Regulation of Allergic Responses: Of Men and Mice*. Department of Medicine and Pediatrics, Yale University School of Medicine, New Haven, CT, March 24, 2009
- *Functional Genomics: Trends in Asthma Research*. Biozona 2009, Phoenix, AZ, April 7, 2009
- *The Genetic Regulation of Allergic Responses*. Division of Allergy and Immunology, Northwestern University, Chicago, IL, May 29, 009
- *IgE Regulation in Vivo*. Symposium, “A Farewell to Rob Aalberse: The Fate of the Class-Switched B Cell”, University of Amsterdam/Sanquin, Amsterdam, June 4, 2009
- *CD14: An Example of Gene-Environment Interactions*. NHLBI Course, “Genomic and Proteomic Approaches to Complex Heart, Lung, Blood & Sleep Disorders”, The Jackson Laboratory, Bar Harbor, ME, August 9, 2009
- *Functional Studies of a Gene: IL13*. NHLBI Course, “Genomic and Proteomic Approaches to Complex Heart, Lung, Blood & Sleep Disorders”, The Jackson Laboratory, Bar Harbor, ME, August 11, 2009
- *Functional Dissection of Human Genetic Variants: Finding the Mechanisms that Link Genotype to Phenotype*. Workshop, “Getting from Gene to Function in Lung Disease”, NIH/NHLBI, Bethesda, MD, September 3-4, 2009
- *The Genetic Regulation of IgE Responses*. Department of Immunobiology, University of Arizona, Tucson, AZ, October 9, 2009

- *The Genetic Regulation of Allergic Responses: Of Men and Mice*. Herman B. Wells Center for Pediatric Research, University of Indiana School of Medicine, Indianapolis, IN, December 10, 2009
- *How Genetic Variation Affects Gene Function*. Annual Meeting, Western Society of Allergy. Asthma and Immunology, Lana'i, HI, January 26, 2010
- *The Genetics of Asthma and Allergy*. Annual Meeting, Western Society of Allergy, Asthma, and Immunology, Lana'i, HI, January 28, 2010
- *Gene-Environment Interactions in Genome-Wide Association Studies*. Course, "Molecular Programming of Allergic and Immunological Diseases by Environmental Allergens", Annual Meeting, American Academy of Allergy, Asthma and Immunology, New Orleans, LO, February 26, 2010
- *Faithful epigenetic and transcriptional regulation of a transgenic human Th2 cytokine gene locus in the murine nuclear environment*. *Frontiers in Immunobiology*, University of Arizona, Tucson, AZ, March 12, 2010
- *The Genetic Regulation of Allergic Responses: From Men to Mice to Men Again*. Arizona Respiratory Center, University of Arizona, Tucson, AZ, April 22, 2010
- *The Role of Rare Variants in Asthma and Allergy Susceptibility: The Case of IL-13R105Q*. 28th Symposium, *Collegium Internationale Allergologicum*, Ischia, Italy, April 26, 2010
- *The Genetic Regulation of Allergic Responses: From Men to Mice to Men Again*. Inflammation and Allergic Disease Research Section, Division of Rheumatology, Immunology and Allergy, Brigham and Women's Hospital, Harvard Medical School, Boston, MA, May 4, 2010
- *Regulation of Total and Specific IgE: A New, Really New, In Vivo Model*. Plenary Session: "IgE and Anaphylaxis", 2010 Meeting, European Academy of Allergy and Clinical Immunology, London, UK, June 8, 2010
- *Genetic Approaches to Immune-Mediated Diseases*. American Association of Immunologists Introductory Course, University of Pennsylvania, Philadelphia, PA, July 1, 2010
- *The Genetic Regulation of Allergic Responses and Asthma*. University of Illinois at Chicago, July 27, 2010
- *The Genetic Regulation of Allergic Responses*. Paul Man Lecture, Pulmonary Research Group, University of Alberta, Edmonton, AB, Canada, August 11, 2010

- *CD14: An Example of Gene-Environment Interactions*. NHLBI Course, “Genomic and Proteomic Approaches to Complex Heart, Lung, Blood & Sleep Disorders”, The Jackson Laboratory, Bar Harbor, ME, October 3, 2010
- *Functional Studies of a Gene: IL13*. NHLBI Course, “Genomic and Proteomic Approaches to Complex Heart, Lung, Blood & Sleep Disorders”, The Jackson Laboratory, Bar Harbor, ME, October 4, 2010
- *The Genetic Regulation of Allergic Responses: Beyond Associations*. “Symposium on Primary Immunodeficiency and Allergy”, Children’s Hospital, Harvard Medical School, Boston, MA, October 16, 2010
- *The Genetic Regulation of Allergic Responses and Asthma*. Northwest Asthma and Allergy Center, University of Washington, Seattle, WA, November 2, 2010
- *Impact of genetic variation on Th2-dependent allergic disease: Studies in humanized mice*. Amgen, Seattle, WA, November 3, 2010
- *Allergens and Asthmagens: Similarities and Differences*. Invited Lecture, Workshop, 60th Meeting of the Japanese Society of Allergology, Tokyo, November 25, 2010
- *Genome-Wide Analyses of Epigenetic Disease Predictors in Neonates*. Invited Lecture, Thematic Symposium, 60th Meeting of the Japanese Society of Allergology, Tokyo, November 25, 2010
- *Gene-Environment Interactions in Asthma and Allergy: The End of the Beginning?* Invited Main Lecture, 60th Meeting of the Japanese Society of Allergology, Tokyo, November 26, 2010
- *Understanding the Mechanisms by which Genetic Differences Influence Immune Responses*. Pittsburgh International Lung Conference, Pittsburgh, PA, December 10, 2010
- *The Genetic Regulation of Allergic Responses*. Frontiers in Medical Research, College of Medicine, University of Arizona, February 15, 2011
- *The Genetic Regulation of Allergic Responses and Asthma: From Men to Mice back to Men*. Division of Pulmonary and Critical Care, University of Washington, Seattle, WA, February 28, 2011
- *The Genetic Regulation of Allergic Responses and Asthma: From Men to Mice back to Men*. Asthma Clinical Research Center and Division of Allergy and Immunology, University of California San Francisco, San Francisco, CA, March 2, 2011

- *Asthma at the Intersection of Genes, Environment and Development*. Keynote Address, 11th Annual Research Meeting, American Asthma Foundation, San Francisco, CA, May 12, 2011
- *Functional Biology: Why Now*. Post-Graduate Course, “Novel Genetic and Genomic Approaches in Respiratory Diseases”, American Thoracic Society International Conference 2011, Denver, CO, May 13, 2011
- *Brainstorming in Munich: Asthma at the Intersection of Genes, Environment and Development*. Allergy and Pulmonology Research Group, Ludwig-Maximilians University, Munich, Germany, June 1, 2011
- *Asthma Genetics 2011: What Is Next?* Allergy Research Center and Department of Biology and Nutrition, Karolinska Institutet, Stockholm, Sweden June 9, 2011
- *Genetic Regulation of Th2 Responses in Humanized Transgenic Mice*. Biochemistry & Molecular and Cellular Biology Graduate Program, University of Arizona, August 23, 2011
- *Gene-Environment Interactions: Nuisance or Opportunity?* NHLBI Course, “Genomic and Proteomic Approaches to Complex Heart, Lung, Blood & Sleep Disorders”, The Jackson Laboratory, Bar Harbor, ME, September 11, 2011
- *Functional Studies of a Gene: IL13*. NHLBI Course, “Genomic and Proteomic Approaches to Complex Heart, Lung, Blood & Sleep Disorders”, The Jackson Laboratory, Bar Harbor, ME, September 13, 2011
- *Genetic Regulation of Allergic Responses in Humanized Mice*. Center for Comparative Respiratory Biology and Medicine (CCRBM) & Genome Biomedical Science Facility, School of Medicine, University of California Davis, Davis, CA, October 14, 2011
- *Genetic and Epigenetic Determinants of Susceptibility to Allergic Inflammation*. Center for Genomics and Personalized Medicine Research, Wake Forest University School of Medicine, Winston-Salem, NC, November 2, 2011
- *Gene-Environment Interactions in Allergy: Nuisance or Opportunity?* Department of Allergy and Immunology, Ospedale Niguarda Ca’ Granda, Milan, Italy, November 23, 2011
- *Identification of Novel Asthma Genes*. Plenary Session, XXII World Asthma Congress, Cancun, Mexico, December 5, 2011
- *Asthma Genetics*. Symposium XXII World Asthma Congress, Cancun, Mexico, December 5, 2011

- *The Genetic Regulation of Allergic Responses*. Department of Immunobiology, University of Arizona, December 16, 2011
- *Food Allergy at the Intersection of Genes, Environment and Development*. Colloquium, *Personal Dietary Preferences*, OCHA, Pasteur Institute, Paris, January 20, 2012
- *Gene-Environment Interactions in Allergy: Nuisance or Opportunity?* The Mario Ricci Lecture, XXVIII Annual Meeting of the Italian Society of Allergology and Clinical Immunology, Florence, Italy, March 30, 2012
- *Epigenetic Predictors of Asthma and Maternal Prenatal Immune Milieu in Neonates*. NHLBI Symposium, *Major Scientific Advances from NHLBI-Funded Challenge Grants*, ATS International Conference 2012, San Francisco, CA, May 23, 2012
- *Epigenetic Predictors of Asthma and Maternal Prenatal Immune Milieu in Neonates*. Children's Environmental Health Network Conference, *The Contribution of Epigenetics in Pediatric Environmental Health*, San Francisco, CA, June 1, 2012
- *Epigenetics, a Tool for Probing into the Origins of Asthma and Allergy*. Plenary Session, 2012 Congress of the European Academy of Allergy and Clinical Immunology (EAACI), Geneva, Switzerland, June 17, 2012
- *Asthma Epigenetics 2012*. AAAAAI Symposium, 2012 Congress of the European Academy of Allergy and Clinical Immunology (EAACI), Geneva, Switzerland, June 18, 2012
- *Epigenomics: Current Efforts, New Projects*. Annual Retreat, Southwest Environmental Health Sciences Center, Tucson, AZ, August 16, 2012
- *Epigenetics, a New Tool for Probing into the Origins of Childhood Asthma*. Frontiers in Medical Research Seminar Series, College of Medicine, University of Arizona, Tucson, AZ, September 11, 2012
- *Gene-Environment Interactions: Nuisance or Opportunity? The case of CD14*. NHLBI Course, "Genomic and Proteomic Approaches to Complex Heart, Lung, Blood & Sleep Disorders", The Jackson Laboratory, Bar Harbor, ME, September 30, 2012
- *Functional Studies of a Gene: IL13*. NHLBI Course, "Genomic and Proteomic Approaches to Complex Heart, Lung, Blood & Sleep Disorders", The Jackson Laboratory, Bar Harbor, ME, September 30, 2012
- *Epigenetics, a New Tool for Probing into the Origins of Childhood Asthma*. Department of Pediatrics, National University of Singapore, Singapore, October 12, 2012

- *Studying the Genetic Regulation of Allergic Responses in Humanized Mice.* Department of Pediatrics, National University of Singapore, Singapore, October 13, 2012
- *Asthma-Associated Variants in IL13 Upregulate Human IL4 Expression in Mice Humanized for the Th2 Cytokine Locus.* 29th Symposium of the Collegium Internationale Allergologicum, Jeju, Republic of Korea, October 15, 2012
- *Life in Science.* 29th Symposium of the Collegium Internationale Allergologicum, Jeju, Republic of Korea, October 16, 2012
- *Epigenetics, a New Tool for Probing into the Origins of Childhood Asthma.* National Jewish Health & University of Colorado, Denver, CO, October 31, 2012
- *Linking Genetics to Asthma Pathogenesis.* Fall 2012 Pulmonary Research Group Symposium, “Defining and Modeling Complex Asthma Phenotypes”, Villanova University Conference Center, Radnor, PA, November 8, 2012
- *The Promise of Personalized Medicine.* Division of Pediatric Allergy, White Memorial Hospital, Los Angeles, CA, November 14, 2012
- *Epigenetics, a New Tool for Exploring the Origins of Childhood Asthma.* Allergy and Pulmonology Research Group, Ludwig-Maximilians University, Munich, Germany, November 29, 2012
- *Gene-Environment Interactions: Nuisance or Opportunity?* Course: “Advances and Novel Approaches in the Genetics of Allergic Diseases: 21st Century”, 2013 Annual Meeting, American Academy of Allergy, Asthma and Immunology, San Antonio, TX, February 22, 2013
- *Epigenetic Mechanisms and the Early Origins of Childhood Asthma.* Center for Excellence in Allergy and Immunology, School of Medicine, University of Florence, Florence, Italy, April 4, 2013
- *IgE Biology.* Center for Excellence in Allergy and Immunology, School of Medicine, University of Florence, Florence, Italy, April 4, 2013
- *Epigenetic Predictors of Childhood Asthma.* Genetics Grand Rounds, University of Arizona, May 16, 2013
- *An Epigenetic Trajectory to Childhood Asthma?* COPSAC (Copenhagen Study of Asthma in Childhood)/University of Copenhagen Retreat, Sonnerupgaard Gods, Denmark, June 20, 2013

- *The Clinical Present and Future of Genomics and Personalized Medicine.* Intersessions, School of Medicine, University of Arizona Tucson, AZ, June 26, 2013
- *An Epigenetic Trajectory to Childhood Asthma.* Division of Immunology, Children's Hospital, Harvard Medical School, Boston, MA, September 24, 2013
- *Gene-Environment Interactions: Nuisance or Opportunity? The case of CD14.* NHLBI Course, "Genomic and Proteomic Approaches to Complex Heart, Lung, Blood & Sleep Disorders", The Jackson Laboratory, Bar Harbor, ME, October 9, 2013
- *Functional Studies of a Gene: IL13.* NHLBI Course, "Genomic and Proteomic Approaches to Complex Heart, Lung, Blood & Sleep Disorders", The Jackson Laboratory, Bar Harbor, ME, October 9, 2013
- *Recapitulating the Amish and Hutterite farm exposures in mouse models.* Department of Human Genetics, University of Chicago, Chicago, IL, October 16, 2013
- *An Epigenetic Trajectory to Childhood Asthma.* Scientific Retreat, Ventana Medical, Oro Valley, AZ, November 13, 2013

INVITED TALKS (for laymen):

- *From Genetics to genomics*. Phoenix, AZ, August 28, 2002
- *Asthma: A hope from genomics*. Asthma Coalition, Tucson, AZ, October 31, 2002
- *Asthma: A hope from genomics*. Arizona Legislators' Day, Tucson, AZ, November 29, 2002
- *The genomics revolution*. Arizona Respiratory Center, Tucson, AZ, April 23, 2003
- *Epigenetics and genetics of asthma*. Interview for "The DNA Files", public radio, August 23, 2007
- *What is a complex disease?* Spirit of the Senses, Phoenix, AZ, September 23, 2008
- *Epigenetics and human diseases: A different style of explanation*. Spirit of the Senses, Tempe, AZ, November 10, 2010
- *Genetics and personal health*. Spirit of the Senses, Tempe, AZ, September 18, 2012
- *Epigenetics: Why DNA is not our destiny*. In: "Genomics Now", University of Arizona College of Science Conference Series, February 27, 2013
- *Epigenetics: Why DNA is not our destiny*. Arizona Senior Academy, Vail, AZ, April 10, 2013

• **SYMPOSIA AND WORKSHOPS:**

- 1991-95** Moderator, Seminar, *IgE Synthesis*, Annual Meeting of the American Academy of Allergy and Immunology
- 1992-96** Director, *Advanced Molecular Biology Course*, Annual Meeting of the American Academy of Allergy and Immunology
- 1996-97** Moderator, *Advanced Seminar on Lymphokine Regulation of IgE*, Annual Meeting of the American Academy of Allergy, Asthma and Immunology
- 1996-2001** Chair, Seminar, *Isotype Switching*, Annual Meeting of the American Academy of Allergy, Asthma and Immunology
- 2000** Chair, Workshop, *IgE Regulation*, XVII International Congress of Allergology and Clinical Immunology, Sydney, October 18, 2000
- 2001** + Chair and Organizer, Workshop, *Effector Mechanisms and Immunoregulation*, Keystone Symposium on Macrophage Activation and Deactivation: Links between Innate and Acquired Immunity, Keystone, CO, January 24, 2001
+ Chair and Organizer, Workshop, *Immunoglobulin Isotype Switching*, 11th International Congress of Immunology, Stockholm, Sweden, July 27, 2001
- 2002** Organizer and Chair, NHLBI Educational Course, *Introduction to the Genetics and Genomics of Complex Lung Disease*, Tucson, February 27, 2002
- 2003** + Chair, Seminar, *The Regulation of Cytokine Signaling*, 60th Annual Meeting, American Academy of Allergy, Asthma and Immunology, Denver, CO, March 8, 2003
+ Chair, Seminar, *Mechanisms of Allergy: Lessons from Microarrays and Proteomics*, 60th Annual Meeting, American Academy of Allergy, Asthma and Immunology, Denver, CO, March 8, 2003
+ Chair, Workshop, *Links between Innate and Adaptive Immunity*, Keystone Symposium: Hygiene, Allergy and Asthma, Keystone, CO, April 3, 2003
+ Chair, *Advanced Seminar, The Molecular Basis of Allergic Disorders*, World Allergy Organization Meeting – XVIII ICACI, Vancouver, Canada, September 10, 2003
- 2004** Chair, Minisymposium, *Regulation of Allergic Reactions*, 12th International Congress of Immunology, Montreal, Canada, July 19, 2004
- 2006** Organizer and Chair, Keystone Symposium, *Allergy, Allergic Inflammation and Asthma*, Breckenridge, CO, April 6-11, 2006
- 2008** Chair, Oral Abstract Session, *Development of Allergic Disease: Predictors and Risk Factors*, Annual Meeting, European Academy of Allergy and Clinical Immunology, Barcelona, Spain, June 9, 2008
- 2009** Chair, Workshop, *Genes, Gene-Environment Interactions and Innate Immunity*, Keystone Symposium, “Allergy and Asthma”, Keystone, CO, January 21, 2009
- 2011** Chair, *Wake Forest University Translational Medicine Program*

Symposium, XXII World Asthma Congress, Cancun, Mexico, December 6, 2011

2012 Chair, *Genetic and Environmental Factors in Allergic Disorders* session, 29th Symposium of the Collegium Internationale Allergologicum, Jeju, Republic of Korea, October 15, 2012

2013 Chair, Symposium: *New Insights into the Pathogenesis of Lung Disease*, Keystone Symposium: Pathogenetic Processes in Asthma and COPD, Santa Fe, NM, January 10-15, 2013