Curriculum Vitae for Academic Promotion
The Johns Hopkins University School of Medicine

October 1, 2008

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Becky M. Vonakis, Ph.D.

DEMOGRAPHIC INFORMATION

Current Appointments:

2001-present Assistant Professor of Medicine, Division of Allergy and Clinical Immunology, School of Medicine, Johns Hopkins University, Baltimore, MD

Personal Data:

Business Address:
Johns Hopkins Asthma and Allergy Center
5501 Hopkins Bayview Circle, Room 2A.52
Baltimore, MD 21224
Telephone: (410)-550-4963
FAX: (410)-550-2090
Email: bvonaki@jhmi.edu

Home Address:
6804 Creekside Road
Clarksville, MD 21029
Telephone: (410) 531-0239

Education and Training:

Undergraduate:
B.S. in Chemistry, May 1984
Bowling Green State University, Bowling Green, Ohio
Minor: General Sciences (Biology and Mathematics)

Research Technician, 1984-1985,
Developmental Oncology Section,
Molecular Mechanisms of Carcinogenesis Laboratory,
National Cancer Institute-FCRF, Frederick, MD
Director: Dr. Mariano Barbacid

Doctoral/Graduate:
Ph.D. in Biochemistry, February 1993
George Washington University, Washington, DC
Dissertation Title: Role of 15-HETE Receptors and Calcium in Mast/Basophil 5-Lipoxygenase Activation.
Director: Dr. Jack Y. Vanderhoek
Areas of Concentration: Immunology, Enzymology and Lipids

Postdoctoral:

Intramural Research Training Award (IRTA) Fellow, 1992-1997
Section on Chemical Immunology, Arthritis and Rheumatism Branch,
National Institute of Arthritis, and Musculoskeletal and Skin Diseases,
National Institutes of Health, Bethesda, MD
Directors: Dr. Carole Jelsema, Dr. Henry Metzger

Senior Staff Fellow,1997-1999
NIAMS/NIH, Bethesda, MD
Director: Dr. Henry Metzger

Postdoctoral Fellow, 1999-2001
Division of Allergy and Clinical Immunology, School of Medicine,
Johns Hopkins University, Baltimore, MD
Director: Dr. Susan MacDonald

RESEARCH ACTIVITIES

Publications:

Peer-reviewed scientific articles:

1. **Vonakis, B.M.,** and Vanderhoek, J.Y., A calcium-independent 5 lipoxygenase system in mast-basophil PT-18 cells, Biochim. Biophys. Acta., 1045,142-146, (1990).

2. **Vonakis, B.M.,** and Vanderhoek, J.Y., 15-HETE receptors: involvement in the 15-HETE-induced stimulation of the cryptic 5-lipoxygenase in PT-18 mast/basophil cells, J. Biol. Chem. 267(33), 23625-23631, (1992).

3. **Vonakis, B.M.,** and Vanderhoek, J.Y., The simultaneous determination of hydroxyeicosanoid (HETE) binding to cells and its cellular metabolism, J. Lipid Res. 34(5), 853-858, (1993).

4. **Vonakis, B.M.,** Chen, H., Haleem-Smith, H., and Metzger, H. The unique domain as the site on Lyn kinase for its constitutive association with the high affinity receptor for IgE, J. Biol. Chem. 272(38), 24072-24080, (1997).

5. Wofsy, C.*, **Vonakis, B.M.*,** Metzger, H. And Goldstein, B. One Lyn is sufficient to initiate phosphorylation of aggregated FceRI, Proc. Natl. Acad. Sci. (USA), 96, 8615-8620, (1999). *Equal authors.

6. **Vonakis, B.M.,** Haleem-Smith, H., Benjamin, P. S. and Metzger, H. Interaction between the unphosphorylated receptor with high affinity for IgE and Lyn kinase, J. Biol. Chem., 276, 1041-1050, (2001).

7. **Vonakis, B.M.,** Gibbons, S.P., Jr., Sora, R., Langdon, J.M., and MacDonald, S.M., Src homology 2 domain-containing inositol 5' phosphatase is negatively associated with histamine release to human recombinant histamine-releasing factor in human basophils, J. Allergy Clin. Immunol., 108, 822-831 (2001).

8. **Vonakis, B.M.,** Sora, R., Langdon, J.M., Casolaro, V., and MacDonald, S.M., Inhibition of Cytokine Gene Transcription by the Human recombinant Histamine Releasing Factor (HrHRF) in Human T Lymphocytes, J. Immunol., 171(7):3742-50 (2003).

9. Langdon, J.M., **Vonakis, B.M.,** and MacDonald, S.M. Identification of the Interaction between the Human Recombinant Histamine Releasing Factor/Translationally Controlled Tumor protein and Elongation Factor 1-delta (also known as eElongation factor-1B beta), Biochim. Biophys. Acta , 1688:232-236 (2004).

10. **Vonakis, B.M.,** Gibbons, S.P. Jr., Rotté, M.J., Brothers, E.A., Kim, S.C., Chichester, K., and MacDonald, S.M., Regulation of RBL-2H3 Mast Cell Secretion by a Constitutive Lyn Kinase Interaction with the High Affinity IgE Receptor (FcεRI), J. Immunol., 175:4543-4554 (2005).

11. Vasagar, K., **Vonakis, B.M.,**, Gober, L.M., Viksman, A., Gibbons, S.P. Jr., and Saini, S.S., Evidence of in vivo basophil activation in chronic idiopathic urticaria, Clin. Exp. Allergy, 36: 770-776 (2006).

12. **Vonakis, B.M.,** Vasagar, K., Gibbons, Jr., S., Gober, L., Sterba, P.M., Chang, H., and Saini, S., Basophil FcεRI histamine release parallels expression of SH2-containing inositol phosphatases in chronic idiopathic urticaria, J. Allergy Clin. Immunol. 119:441-448 (2007).

13. **Vonakis, B.M.** and Saini, S.S. Syk-deficient Basophils from Donors with Chronic Idiopathic Urticaria Exhibit a Spectrum of Releasability, J. Allergy Clin. Immunol. 121:262-264 (2008).

14. **Vonakis, B.M.,** MacGlashan, Jr., D.W., Vilariño, N., Langdon, J.M., Scott, R.S., and MacDonald, S.M., Distinct Characteristics of Signal Transduction Events by Histamine Releasing Factor/Translationally Controlled Tumor Protein (HRF/TCTP)-Induced Priming and Activation of Human Basophils, Blood, 111:1789-1796 (2008).

15. Lee, M-G., Dong, X., Liu, Q., Patel, K.N., Choi, O.H., **Vonakis, B.,** and Undem, B.J. Agonists of the Mas Related Gene (Mrgs) orphan receptors as Novel Mediators of Mast Cell-Sensory Nerve Interactions, J. Immunology, 180: 2251 – 2255 (2008).

16. Langdon, J.M., Schroeder, J., **Vonakis, B.M.,** Bieneman, A., Chichester, K., and MacDonald, S. Histamine Releasing Factor/Translationally Controlled Tumor Protein (HRF/TCTP) Induced Histamine Release is Enhanced with SHIP-1 Knockdown in Cultured Human Mast Cell and Basophil Models, J. Leukoc. Biol., (in press, 2008).

Reviews:

1. **Vonakis, B.M.,** and Vanderhoek, J.Y., Role of calcium in the regulation of mammalian lipoxygenases, in "Cell Calcium Metabolism", G. Fiskum, Ed., Plenum Press Inc., New York, pp. 387-396, (1989).

2. Metzger, H., Chen, H., Goldstein, B., Mao, S-Y., Pribluda, V.S., Smith, H., Torigoe, C., **Vonakis, B.,** Wofsy, C. The receptor for IgE (FceRI) as a therapeutic target., in "Progress in Allergy and Clinical Immunology",Vol. 4, Cancun, Oehling, A.K. And Huerta Lopez, J.G., Ed., Hogrefe & Huber, Kirkland, WA, pp. 45-48, (1997).

3. Metzger, H., Chen, H., Goldstein, B., Haleem-Smith, H., Inman, J.K., Peirce, M., Torigoe, C., **Vonakis, B.,** and Wofsy, C. A quantitative approach to signal transduction. Immunol. Lett., 68(1), 53-57, (1999).

4. Metzger, H., Chen, H., Goldstein, B., Haleem-Smith, H., Inman, J.K., Peirce, M., Torigoe, C., **Vonakis, B.,** and Wofsy, C. Signal transduction by FcεRI: Analysis of the early molecular events. Allergology International 48, 161 169, (1999).

5. MacDonald, S.M., and **Vonakis, B.M.,** Association of the src homology 2 domain-containing inositol 5' phosphatase (SHIP) to releasability in human basophils. Mol. Immunol. 38 (16-18), 1323-1327 (2002).

6. **Vonakis, B.M.,** and Saini, S.S., Basophils and mast cells in chronic idiopathic urticaria. Curr. Allergy Asthma Rep. 5 (4): 270-6 (2005).

7. **Vonakis, B.M.** and Saini, S.S**,** New concepts in chronic urticaria. Curr. Opin. Immunol. (in press, 2008).

Book Chapters:

1. Vanderhoek, J.Y., **Vonakis, B.M.,** and Fiskum, G., Unusual role of calcium in the stimulation of the 5-lipoxygenase in PT-18 cells, in "Advances in Prostaglandin, Thromboxane, and Leukotriene Research", Vol. 19, Samuelsson, B., Wong, P.Y.-K., and Sun, F.F., Eds., Raven Press, New York, pp. 78-81, (1989).

2. MacDonald, S.M., and **Vonakis, B.M.,** Preface to "Emerging Therapies for Allergic Disease" in Immunology and Allergy Clinics of North America, Vol. 24, Number 4; MacDonald, S.M., and **Vonakis, B.M.,** Eds., Elsevier Inc., Philadelphia, PA, pp. xi-xiii, (2004).

Inventions, Patents, Copyrights:

U. S. PATENT No. 6,084,063, issued on July 4, 2000.
Title: Signal Transduction Inhibitors Of Allergic Reactions,
Inventor- Becky M. Vonakis, Co-inventors- Henry Metzger and Huaxian Chen

U. S. PATENT No. 6,353,097, issued on March 5, 2002.
Title: Nucleic Acids Encoding Signal Transduction Inhibitors Of Allergic Reactions,
Inventor- Becky M. Vonakis, Co-inventors- Henry Metzger and Huaxian Chen

Extramural Sponsorship –Grants

Current:

Co-investigator./ Asthma and Allergic Diseases Cooperative Research Centers/ NIH/ NIAID
July 1, 2006- June 30, 2011
Title: Efficacy of IgE in Mediating Allergic Reactions in Vivo
P.I. Donald MacGlashan, Jr.
Costs: Direct ($3,622,700 for 5 year period) plus indirect (63.5%)

P.I./R56 (bridge)grant/ NIAID
September 26, 2007 – September 25, 2008;
No-cost extension through September 25, 2009
Title: Src Family Kinase Regulation in Allergy
Costs: Direct ($200,000 for one year period) plus Indirect (64%).

P.I./ Institutional Research Grant/ Johns Hopkins University School of Medicine
May 1, 2008 – April 30, 2009
Title: Antagonism of IgE Receptor Signaling in a Mouse Model of Asthma
Costs: Direct ($20,000 for 1 year period)

Pending:

P.I./R01/ NIAID
April 1, 2009 – March 31, 2014
Title: Signaling in Mast Cells and Dendritic Cells
Costs: Direct ($1,125,000 for a five-year period) plus Indirect (64%)

Co-Investigator/ R01/NIAID
April 1, 2009 – March 31, 2014
Title: IgE and IgE Receptor Alterations in Disease
Costs: Direct ($1,125,000 for a five-year period) plus Indirect (64%)
P.I. Sarbjit Saini

Consultant / R21/ NIAID
April 1, 2009 – March 31, 2011
Title: TRP Channel Function in Macrophage Phagocytosis and Bacterial Defense
P.I. Michael Caterina

Consultant / R01/ NIAID
April 1, 2009 – March 31, 2014
Title: Role of Basophils and IgE in the Immune Response to *Litomosoides sigmodontis*
P.I. Edward Mitre

Completed:
P.I./ K22 Award /NIAID
August 1, 2002 - July 31, 2004
Title: Lyn Kinase Regulation of FceRI-induced Mediator Release.
Costs: direct ($250,000 total for 2 year period) plus indirect (8%)

Co-P.I./ Interest Section Grant / American Academy of Allergy, Asthma & Immunology
January 1, 2003 – December 31, 2004
Title: Signaling Defects In Mast Cells And Basophils In Chronic Urticaria
P.I. Sarbjit Saini
Costs: direct ($40,000 total for 2 year period); no indirect costs provided

P.I./R56 (bridge)grant/ NIAID
March 1, 2005 – February 28, 2006, No-cost extension through February 28, 2007.
Title: Lyn Kinase-mediated Regulation of Allergic Inflammation
Costs: Direct ($200,000) plus indirect (62.5%)

P.I./ Institutional Research Grant/ Johns Hopkins University School of Medicine
May 1, 2006 – April 30, 2007
Title: Molecular Mechanisms of Hyper-releasability in Human Basophils
Costs: Direct ($20,000 for 1 year period)

Extramural Sponsorship –Contracts

Completed:

CAMP Biomarkers of Asthma Ancillary Study/NIH
P.I. Scott Weiss
Co-PI. Nadia Hansel
August 1, 2006 –July 31, 2007
Costs: (direct $14,970 for one year period)

Co-investigator/ Investigator-initiated project/ Genentech
March 1, 2007-February 28, 2008
Title: Effect of Omalizumab in Chronic Urticaria
Saini (PI)
Costs: Direct ($163, 571 for 1 year period)

EDUCATIONAL ACTIVITIES

Teaching:
Classroom Instruction:

Biochemistry Teaching Assistant (1987-1989), Department of Biochemistry and Molecular Biology, George Washington University School of Medicine and Health Sciences.
1. Taught Medical Biochemistry, 2 weeks per year for 2 years, 5-30 medical students.

2. Proctoring, exam grading for graduate student, medical student and allied health student biochemistry courses.
3. Tutoring of medical students during weekly office hours, preparation of candidates for the biochemistry portion of the ECFMG exam.

Clinical Instruction:
Dept. of Medicine Resident Tutorial, Allergy and Clinical Immunology Rotation, Johns Hopkins University, Baltimore, MD (August 2001- present), Topic: "Signal Transduction in Mast Cells and Basophils."

CME Instruction:
AAAAI 57th Annual Meeting, New Orleans, LA,
March 19, 2001, Instructor for Breakfast Seminar; "Mast Cell Signaling."

AAAAI 58th Annual Meeting, New York, NY,
March 2, 2002, Co-instructor for Lunch Seminar; "Targeting the IgE receptor: Inside and Out",
March 5, 2002, Instructor for Breakfast Seminar; "Mast Cell Signaling Through the IgE Receptor."

AAAAI 59th Annual Meeting, Denver, CO
March 9, 2003, Co-instructor for Lunch Seminar; "Targeting the IgE receptor: Inside and Out", and Co-Instructor for Breakfast Seminar; "Mast Cell Signaling Through the IgE Receptor."

AAAAI 60th Annual Meeting, San Francisco, CA
March 20, 2004, Co-instructor for Lunch Seminar; "Signaling Defects in Mast Cells and Basophils from Patients with CIU," and Co-Instructor for Breakfast Seminar; "The Regulation of Cytokine Signaling."

AAAAI 61st Annual Meeting, San Antonio, TX
March 22, 2005, Co-instructor for Lunch Seminar; "Signaling Defects in Mast Cells and Basophils from Patients with CIU."

Mentoring (to conduct research):

Pre-doctoral mentoring

1. Peter Benjamin, summer intern 1995, 1997 at NIAMS in the laboratory of Dr. Henry Metzger. Presented a poster at the end of the summer on his work at NIH Summer Student Research Day, co-author on manuscript: J. Biol. Chem., 276, 1041-1050, (2001). M.D. 2005 from Washington University Medical School. Currently a resident in Internal Medicine, Johns Hopkins Hospital.

2. Scott Gibbons, Jr., summer research assistant 2000 and 2001 in the laboratory of Dr. Susan MacDonald, co-author on four manuscripts. Received a B.A. in Biology from Saint Mary's College, May 2001. A Senior Research Technician in my laboratory (2001-2004), currently a Territory Manager for Q-Sense, Inc. and in the Cellular and Molecular Biology M.S. program at Towson University.

3. Masashi Rottè, Senior Research Thesis and research assistant, Spring and Summer semesters, 2001 in the laboratory of Dr. Susan MacDonald while completing an undergraduate degree in Biomedical Engineering at JHU (received May 2001, concurrently with a B.A. in Biology from Gaucher College). Co-author on manuscript: J. Immunol., 175:4543-4554 (2005). Currently attending Temple University Medical School.

4. Elizabeth Brothers Sillman, summer research assistant, 2002 in my laboratory, received a B.A. in Biology and Chemistry from Immaculata University, May 2004, Co-author on manuscript: J. Immunol., 175:4543-4554 (2005); completed the Master's program at Case Western Reserve in Bioethics, May 2006.

5. Seok Chan Kim, research independent study for academic credit and research assistant, Fall 2002-Spring 2004 in my laboratory, received a B.S. in Biomedical Engineering, Johns Hopkins University, May 2004, co-author on manuscript: J. Immunol., 175:4543-4554 (2005); received a MS in Biomedical Engineering at Case Western Reserve in 2007.

6. Eric Jabart, research assistant, Fall 2003 -Spring 2004 semesters in my laboratory, received a B.S. in Biomedical Engineering, Johns Hopkins University, May 2004, completed the Master's program at Johns Hopkins University in Chemical Engineering, May 2006, currently in the UC-Berkeley/UCSF joint Bioengineering PhD program.

7. Andrew Lee, research independent study for academic credit, Fall 2004 -Spring 2005 in my laboratory, B.S. in Biomedical Engineering from Johns Hopkins University, May 2005, completed the Master's program in Physiology, Johns Hopkins University, May 2006, currently a pre-CERTA fellow, NIH.

8. Hyeyoun Chang, research independent study for academic credit, Fall 2004 -Spring 2005 in my laboratory, B.S. in Cellular and Molecular Biology from Johns Hopkins University, May 2005, Co-author on manuscript: J. Allergy Clin. Immunol. 119:441-448 (2007). Senior Research Technician in my laboratory (2005-2006); currently in the PhD program for Biological Sciences at George Washington University.

9. Eric Lin, research independent study for academic credit, Summer 2006-Fall 2007 in my laboratory, currently majoring in Chemical and Biomolecular Engineering at Johns Hopkins University.

10. Neha Bajwa, research independent study, Fall 2006 in my laboratory, currently majoring in Biomedical Engineering at Johns Hopkins University.

11. Di Chen, Final Year Project Thesis, Feb. 2007-June 2007 (full-time), B.S. in Biological Sciences, June 2007, Nanyang Technological University, Singapore, currently an industry research associate in Singapore, accepted into the Master of Intellectual Property program at Franklin Pierce Law Center, NH.

12. Jean-Ives Tano, Summer 2007, B.A. In Biology, University of Michigan, May 2007, currently in the PhD program in Biomedical Sciences, (Concentration in Infection, Immunity and Transplantation) University of Toledo College of Medicine.

13. Tiffany Link, M.D.-Ph.D. student in Dr. Michael Caterina's lab, JHU Biological Chemistry Department, Co-mentor from August 2006-present.

14. Jean Suh, research independent study for academic credit, Fall 2007 – Spring 2008 in my laboratory, currently majoring in Biophysics and Applied Mathematics at Johns Hopkins University.

15. Han Sun, Final Year Project Thesis, Jan. 2008-present (full-time), B.S. in Biological Sciences, July 2008, Nanyang Technological University, Singapore.

16. Yu-Cherng (Channing) Chang, research independent study, Fall 2008 semester, currently majoring in Biomedical Engineering at Johns Hopkins University

Post-doctoral mentoring

1. Smruti Killedar, post-doctoral fellow, March 2005-August 2006, in my laboratory, Ph.D. in Zoology from M.S. University of Baroda, India, May 1990, currently an Instructor, Dept. of Medicine, University of Rochester.

2. Jill- Desiree Brederson, postdoctoral fellow in Dr. Michael Caterina's lab, JHU Biological Chemistry Department, Co-mentor July 2005-October 2006, Ph.D. in Pharmacology from the University of Minnesota, 2005, currently a Senior Research Electrophysiologist at Abbott Laboratories, Chicago, IL.

Editorial Activities:

Journal peer review activities:

Reviewer for the Journal of Immunology, Journal of Allergy and Clinical Immunology, Journal of Investigative Dermatology, Clinical Immunology, BMC-Immunology (open-access), European Journal of Pharmacology, Current Medicinal Chemistry, and Clinical and Experimental Immunology

ORGANIZATIONAL ACTIVITIES:

Institutional Administrative Appointments:

1987-1988	President, Biochemistry Graduate Student Association, George Washington University
1996-1997	Elected Councilor, NIDDK/NIAMS Assembly of Scientists

1997-1999	Executive Committee member, NIAMS Forum
2003-present	Member of the Equipment Committee and Communication Committee, Division of Allergy and Clinical Immunology, Dept. of Medicine, JHU.
2004-2005	Member of the Dept. of Medicine Research Retreat Steering Committee, JHU.
2006-present	Member of the Advancement Committee, Division of Allergy and Clinical Immunology, Dept. of Medicine, JHU.
2008	Member, Johns Hopkins Department of Medicine's Task Force on Women's Academic Careers in Medicine
2008	Liaison from the Women's Task Force to the Johns Hopkins Department of Medicine's Diversity Council

Professional Societies:

1987-1997, 2002-2005	Member, American Association for the Advancement of Science
1999-present	Member, Johns Hopkins University Immunology Council
2000-present	Member, Women's Involvement in the AAAAI Committee
2002-2005	Member, American Academy of Allergy, Asthma, and Immunology
2002-present	Member, American Association of Immunologists
2002	Participant, AAAAI Fall Leadership Development Retreat, Denver, CO
2003-present	Member, AAAAI Cells and Mediators of Allergic Inflammation Committee
2005	Nominal group member for program content evaluation, AAAAI 61st Annual Meeting, San Antonio, TX.
2006-present	Fellow, American Academy of Allergy, Asthma, and Immunology (AAAAI)

2007-present	MAAI vice-representative to the Workshops Subcommittee of the AAAAI Annual Meeting Planning Committee
2007, 2008	Abstract reviewer for the AAAAI Annual Meetings

SESSION CHAIR:

1. Discussion Group Chair, George Washington University Lipid Club, Invited Speaker, Dr. Robert Bell from Duke University, April 1989. Attended by GWU Dept. of Biochemistry faculty and students.

2. Co-moderator, AAAAI Annual 63rd Meeting, San Diego, CA; Oral Abstract session entitled " Mast Cells and Basophils," February 27th, 2007.

3. Moderator, Session entitled " Immune-based Therapies in Humans", Johns Hopkins Department of Medicine Enhancement-of-Research-Collaborations Retreat, Baltimore, MD, May 1st, 2007.

4. Co-moderator, AAAAI 2008 Annual Meeting, Philadelphia, PA, Oral Abstract session entitled "New Insights into Signal Transduction in Allergic Disease," March 18th, 2008.

GRANT REVIEW:

1. City University of New York, Jan. 2003, PSC-CUNY 34 Research Award Program

2. National Medical Research Council, Singapore, April 2007, Individual Research Grant Proposals

CONSULTANTSHIPS:

2008	Science Advisory Board/Research Panel, member
2008	Reuters Insight Expert Network, member

RECOGNITION:

Awards, Honors:

1980-1984	Alumni Merit (full tuition) Scholarship, Bowling Green State University
1988-1989	ARCS Foundation Fellowship, George Washington University
1989	Graduate Student Research Day, First Prize Winner-Oral Presentation, George Washington University Basic Science Faculty

1993	Radio Interview, WPFW, Washington, DC, "Health Talk " program
2001	Sepracor AAAAI Research Excellence Award Honorable Mention
2003	Osler Medicine and Science Lecture/Award for Outstanding Teaching, JHU School of Medicine
2005	Travel Award, The Batsheva de Rothschild International Workshop on Mast Cell Signaling and Function in Health and Disease, Eilat, Israel, February 6-10, 2005.
2007	Young Investigator Award, from Dr. Edward Miller, Dean, Johns Hopkins University School of Medicine

Invited Talks:

1. AAAAI/AAI/CIS Joint Meeting, Minisymposium on Molecular Mechanisms of FceRI-Dependent Signal Transduction, San Francisco, CA, February 23, 1997, talk entitled “The SH4 Domain of Lyn Kinase is Constitutively Associated with the High Affinity Receptor for IgE (FceRI)”.

2. Third International Workshop on Signal Transduction in the Activation and Development of Mast Cells and Basophils, Bethesda, MD, March 9,1998, talk entitled “Structural basis for the interaction of Lyn kinase with the unphosphorylated high affinity receptor for IgE (FceRI)”.

3. Dept. of Dermatology, University of Michigan, Ann Arbor, MI, June 29, 1998, talk entitled “ Kinase-receptor interactions regulating signal transduction through the IgE receptor.”

4. Dept. of Medicine, Division of Allergy and Clinical Immunology, Johns Hopkins University, Baltimore, MD January 20, 1999, talk entitled “ Kinase-receptor interactions regulating signal transduction through the IgE receptor.”

5. Immunology 2000, AAI/CIS Joint Meeting, Minisymposium on Signaling In Mast Cells and Basophils, Seattle, WA, May 16, 2000, talk entitled "(SH2)-containing inositol 5' phosphatase (SHIP) regulates histamine release to the IgE-dependent histamine releasing factor (HRF) in human basophils."

6. AAAAI 57th Annual Meeting, Minisymposium on Cytokines Regulating Allergic Inflammation, New Orleans, LA, March 17, 2001, talk entitled “Inhibition of Cytokine Gene Transcription by the Human Recombinant Histamine Releasing Factor (HrHRF) in Human T Lymphocytes.”

7. AAAAI 58th Annual Meeting, Minisymposium on Signal Transduction, New York, NY, March 5, 2002, talk entitled “Lyn Kinase Both Positively and Negatively Regulates FceRI-induced Mediator Release in RBL Mast Cells.”

8. 2003 Osler Medicine and Science Lecture Series, Johns Hopkins University, Baltimore, MD, April 3, 2003, talk entitled "Human Basophil Releasability in Allergic Disease and Urticaria: Has Our SHIP Come In?"

9. AAAAI 61st Annual Meeting, San Antonio, TX, March 18, 2005, talk entitled "Mentorship: Selecting a Mentor and Developing a Working Relationship."

10. Division of Pediatric Allergy, Johns Hopkins University School of Medicine, Baltimore, MD, June 19, 2006, talk entitled "Initiation of FcεRI Signaling in Mast Cells."

11. Laboratory of Allergic Diseases, NIAID/NIH, Bethesda, MD, May 4th, 2007, talk entitled "Basophil Releasability in Chronic Idiopathic Urticaria: A Biomarker for Disease Status."

12. AAAAI 2008 Annual Meeting, Philadelphia, PA, March 18th, 2008, talk entitled "Genotypic and Phenotypic Variations in Mast Cells and Basophils."

13. Sanofi Aventis /Johns Hopkins Collaboration Meeting by Teleconference (Baltimore, MD; Budapest, Hungary: Bridgewater, NJ), September 11, 2008, talk entitled "Development of Isoform-specific Antagonists of Lyn Tyrosine Kinase."