

CURRICULUM VITAE

Stephen M. Canfield

Academic Training:

Undergraduate Education:

School: Swarthmore College

Dates: Sept., 1980 to May, 1984

Degree Awarded: B.A.; May, 1984

Major Field Of Study: Biochemistry

Honors: Graduated with Distinction

Phi Beta Kappa, Sigma Xi

Medical Education:

School: College of Physicians and Surgeons
Columbia University

Dates: September, 1984 to June, 1986 and
September, 1990 to May, 1992

Degree Awarded: M.D.; May, 1992

(interrupted for Postgraduate Studies)

Honors and Awards: Medical Scientist Training Program Fellowship
Alpha Omega Alpha

Graduate Education:

School: Graduate School of Arts and Sciences
Columbia University

Dates: July, 1986 to August, 1990

Degree Awarded: Ph.D.; Oct., 1990

Research: Binding of Immunoglobulin G to its high-affinity Fc receptor, relating structural features of antibody molecule to affinity of binding. Dissertation Advisor: Dr. Sherie L. Morrison.

Postgraduate Training:

Program: Intern, Internal Medicine

Dates: June, 1992 to June, 1993

Presbyterian Hospital, NY

Resident, Internal Medicine

July, 1993 to June, 1995

Presbyterian Hospital

Medical Chief Resident

July, 1995 to June, 1996

Presbyterian Hospital

L. Markey Post-Doctoral Fellow

July, 1996 to July, 1998

Laboratory of Molecular Immunology

Allergy Clinical Fellow

July 1999 to June, 2001

Research: Characterization of the molecular signaling events that follow interleukin-4 (IL-4) stimulation of B and T cells. Particular interest in the molecular mechanism by which single nucleotide polymorphisms in the gene encoding the IL-4 receptor alpha chain are associated with increased susceptibility to asthma and atopic disease in humans.

Board Qualifications: Diplomate, American Board of Internal Medicine, 1995

Diplomate, American Board Allergy/Immunology, 2001

Honors/Awards: Louis P. Markey Fellowship

Medical Chief Resident, 1995-1996

AAAAI Educational Research Trust Faculty Development Award, 3/2002

Fellow, Glenda Garvey Teaching Academy, Inducted 2009
Ewig Award for Outstanding Clinical Educator, April, 2011

Academic Appointments:

Instructor in Clinical Medicine Dept. of Medicine, Columbia University	Dates: July, 2001 to Dec., 2003
Assistant Professor of Medicine Dept. of Medicine, Columbia University	January, 2004 to 2011
Assistant Professor of Clinical Medicine Dept. of Medicine, Columbia University	January, 2012 to present

Other Experience

Clinician Coordinator (and Internist) CUMC Student Health Service	July, 2000 to June, 2003
Facilitator, Discussion of Humanism in Medicine House Staff Gold Lunch Program	July, 2001 to Aug., 2009
Lecturer, Small Group Preceptor P&S Medical School Immunology Course	Aug. 2003 to March, 2008
Director, Immunology Section P&S Medical School Pathophysiology Course	April, 2008 to present

Professional Societies

American Medical Association; American Academy of Allergy, Asthma and Immunology;
American College of Allergy and Immunology

Bibliography:

- Morrison, S.L., Canfield, S.M., Porter, S., Tan, L.K., Tao, M.H., Wims, L.A.
Production and Characterization of Genetically Engineered Antibody Molecules.
1988. Clin. Chem. 34: 1668-1675.
- Canfield, S.M., Morrison, S.L. The Binding Affinity of Human IgG for its High
Affinity Fc Receptor is Determined by Multiple Amino Acids in the C_{H2} Domain and
is Modulated by the Hinge Region. 1991. JEM 173: 1483-1491.
- Artandi, S.E., S.M. Canfield, M.H. Tao, K. Calame, S.L. Morrison and V.R. Bonagura.
Molecular Analysis of IgM Rheumatoid Factor Binding to Chimeric IgG. 1991. J.
Immunol. 146: 603-610.
- Tao, M.H., Canfield, S.M., Morrison, S.L. The Differential Ability of Human IgG1 and
IgG4 to Activate Complement is Determined by the COOH-Terminal Sequence of the
C_{H2} Domain. 1991. J. Exp. Med. 173: 1025-1028.
- Sullivan, G.M., Canfield, S.M., Lederman, S., Xiao, E., Ferin, M., and Wardlaw, S.L.
Intracerebroventricular Injection of Interleukin-1 Suppresses Peripheral Lymphocyte
Function in the Primate. 1997. Neuroimmunomodulation 4:12-18.

- Canfield, S.M. & Khakoo, A. The Non-Integrin Laminin Binding Protein (p67 LBP) is Expressed on a Subset of Activated Human T Lymphocytes and Together with the Integrin VLA-6 Mediates Avid Cellular Adherence to Laminin. 1999. *J. Immunol.* 163:3430-3440.
- Canfield, S. & Rothman, P. T_H2 Inflammation Repressed by Chemokines (News & Views Commentary). 2000. *Nature Immunology.* 1(3):189-190.
- Canfield, S., Lee, Y., Shröder, A., Rothman, P. Cutting Edge: IL-4 Induces Suppressor of Cytokine Signaling-3 Expression in B Cells by a Mechanism Dependent on Activation of p38 MAPK. 2005. *J. Immunol.* 174(5):2494-2498.
- Chew, GL., Perzanowski, MS., Canfield, SM, et al. Cockroach Allergen Levels and Associations with Cockroach-specific IgE. 2008. *J. Allergy Clin Immunol* 121:240-245.
- Perzanowski, MS, Canfield, SM, Chew, GL, et al. Birth Order, Atopy, and Symptoms of Allergy and Asthma Among Inner-city Children Attending Head Start in New York City. 2008. *Clin Exp Allergy.* 38(6): 968-976.
- Jacobson, JS, Goldstein, IF, Canfield, SM, et al. Early Respiratory Infections and Asthma Among New York City Head Start Children. 2008. *J. Asthma.* 45:301-308.
- Canfield, SM, Jacobson, JS, Perzanowski, MS, et al. Total and Specific IgE Associations between New York City Head Start Children and their Parents. 2008. *J. Allergy Clin Immunol.* 121(6):1422-1427.
- Jelic, S, Padeletti, M, Kawut, SM, Higgins, C, Canfield, SM, Duygu, O, Colombo, PC, Basner, RC, Factor, P, LeJemtel, TH. Inflammation, Oxidative Stress, and Repair Capacity of the Vascular Endothelium in Obstructive Sleep Apnea. 2008. *Circulation.* 117:2270-2278.
- Rotsides DZ, Goldstein, IF, Canfield, SM, Perzanowski, et al. Asthma, Allergy, and IgE Levels In NYC Head Start Children. 2010. *Respiratory Medicine.* 104(3):345-355.
- Mehra, D, Sternberg, DI, Jia, Y, Canfield, S, Lemiatre, V, Nkyimbeng, T, Wilder, J, Sonett, J, D'Armiento, J. Altered Lymphocyte Trafficking and Diminished Airway Reactivity in Transgenic Mice Expressing Human MMP-9 in a Mouse Model of Asthma. 2010. *Am J Physiol Lung Mol Physiol.* 298(2): L189-96.
- Kashiwada, M, Levy, D, McKeag, L, Murray, K, Schroder, AJ, Canfield, SM, Traver, G, Rothman, PB. IL-4-Induced Transcription Factor NFIL3/E4BP4 Controls IgE Class Switching. 2010. *PNAS* 107:821-826.
- Rastogi, D, Canfield, SM, Andrade, A, Isasi, CR, Hall, CB, Rubinstein, A, Arens, R. Obesity-Associated Asthma in Children – A Distinct Entity. 2011. *Chest.* [Epub ahead of print]

Abstracts:

Canfield, S.M., Khakoo, A.K., Buccolo, G., Lederman, S. Expression of the High Affinity Laminin Binding Protein (p67 LBP) on Human T Lymphocytes. FASEB/AAI San Francisco, 1998. (Poster C-49) Abstract #3346.

Canfield, S., Lee, Y., Shröder, A., Rothman, P. IL-4 Induces Suppressor of Cytokine Signaling-3 Expression in B Cells by a Mechanism Dependent on Activation of p38 MAPK. AAAAI, San Antonio, 2005. Abstract #486.

Nam, N.J., Chau, D., Miller, R.L., Canfield, S.M. Desensitization to Clopidogrel and Ticlopidine in Three Patients with Coronary Artery Disease and Indwelling Drug-Eluting Stents. AAAAI, Miami, 2006. Abstract #2834.

Canfield, SM, Perzanowski, MS, et al. Total and Specific IgE Associations Between New York City Head Start Children and their Parents. AAAAI, Philadelphia, 2008. Poster #358.

Lei, Y. and Canfield, SM. Tobacco Smoke Exposure At Home Increases Risk of Allergic Sensitization in Children Age 4 Years Old. FAMRI Symposium, Boston, 2008.

Perzanowski, MS, Divjan, A, Mellins, RB, Canfield, SM, Rosa, MJ, Chew, GL, Rundle, AG, Goldstein, IF, Jacobson, JS. Exhaled NO Among 7-Year-Old Children Who Attended Head Start in New York City. AAAAI, Washington, DC, 2009. Poster #655.

Presentations at Professional Meetings:

Experimental Biology Block Symposium. "Expression of the High Affinity Laminin Binding Protein (p67 LBP) on Human T Lymphocytes." FASEB/AAI, San Francisco, 1998.

Board of Directors Meeting, Educational Research Trust. "Identification of Novel IL-4 Signaling Pathways." Amer. Acad. Of Allergy, Asthma and Immunology, San Antonio. 2005.