

Matthew S. Bowdish, M.D.

Work Experience

Associate Physician The William Storms Allergy Clinic, 1625 Medical Center Point, Suite 190
Colorado Springs, CO 80907, 719-955-6000 (2009-present)

Academic Background

Fellowship Yale University School of Medicine, New Haven, Connecticut. Completed a postdoctoral fellowship in Allergy & Clinical Immunology (2006-2009).

Residency Dartmouth-Hitchcock Medical Center, Lebanon, New Hampshire. Completed a residency in Internal Medicine (2003-2006).

Professional Northeastern Ohio Universities College of Medicine, Rootstown, Ohio. M.D. degree (2003). NEOUCOM Class Rank: 19/99

Undergraduate Humboldt State University, Arcata, California.
B.S.: Cellular-Molecular Biology. Minors: Chemistry and Political Science (1994)
Awards: Presidential Scholar (1993), Howard Hughes Medical Institute Grant for Undergraduate Research (1994).

Board Certification

Allergy & Immunology Currently board eligible with plans to sit the ABAI exam in October 2010.

Internal Medicine Passed the American Board of Internal Medicine Examination (ABIM) in September 2006. This certification expires in December 2016.

Research/Laboratory Experience

Fellowship Yale University School of Medicine, New Haven, Connecticut. Characterized host genetic susceptibility to *Staphylococcus aureus* infection using microarray technology in the labs of Fred Kantor, MD, George Miller MD & Richard Lifton, MD, PhD (2008-2009). Previously completed a project characterizing mucosal immune responses to hookworm infection with Michael Cappello, MD (2007-08).

Clinical Research Pfizer Clinical Research Unit, New Haven, Connecticut. Worked as a co-investigator and assisted in the clinical care of subjects taking part in a variety of Phase I clinical trials (2007-2009).

Residency Dartmouth-Hitchcock Medical Center, Lebanon, New Hampshire. Completed a chapter on primary immunodeficiencies for a primary care textbook (2006).

Summer Intern UC Davis School of Med, Division of Gastroenterology. Sacramento, California. Studied hemochromatosis in the lab of Christopher Bowlus, MD (Summer 1999).

Assistant Scientist Canji Incorporated, Department of Process Science. San Diego, California. Investigated p53 gene therapy for use on a variety of human cancers in the laboratory of Shu Fen Wen, PhD (1997-1999).

Research Associate UCSD School of Medicine, Department of Pediatrics. La Jolla, California. Explored effects of ganciclovir in the treatment of cytomegalovirus in children with HIV/AIDS in the laboratory of Stephen A. Spector, MD (1996-1997).

Research Associate UCLA School of Medicine, Department of Microbiology & Immunology. Los Angeles, California. Worked on a variety of projects under John L. Fahey, MD, including cytokine gene expression in HIV/AIDS, neuropsychimmunology and training foreign postdoctoral researchers in modern immunological techniques (1994-1996).

Publications

McDonald M. 2008. Primary Immunodeficiencies. In Buttaro TM, Trybulski J, Polgar-Bailey P, Sandburg-Cook J, editors. *Primary Care: A Collaborative Practice*, 3rd Ed. Philadelphia. Mosby.

Wen SF, Xei L, McDonald M, DiGiacomo R, Chang A, Gurnani M, Shi B, Liu S, Indelicato SR, Hutchins B, Nielsen LL. Development and Validation of Sensitive Assays to Quantitate Gene Expression after p53 Gene Therapy and Paclitaxel Chemotherapy Using *in vivo* Dosing in Tumor Xenograft Models. *Cancer Gene Therapy*, 2000; 7(11): 1469-1480.

Breen EC, McDonald M, Fan J, Boscardin J, Fahey JL. Cytokine Gene Expression Occurs More Rapidly in Stimulated Peripheral Blood Mononuclear Cells from Human Immunodeficiency Virus-Infected Persons. *Clinical & Diagnostic Laboratory Immunology*, 2000; 7(5): 769-773.

Fan J, Nishanian P, Breen EC, McDonald M, Fahey JL. Cytokine Gene Expression in Normal Human Lymphocytes in Response to Stimulation. *Clinical & Diagnostic Laboratory Immuno*, 1998; 5(3):335-340.

Abstracts & Presentations

- Primary Immunodeficiencies. Resident research day, Dartmouth-Hitchcock Medical Center, NH-6/06.
- Getting Through the Match. As a panellist, answered questions about the National Residency Matching Program at the American College of Physicians Annual Session in San Diego, CA-4/03.
- Wen SF, Hirai M, McDonald M, Maneval DC, Hutchins B, Talmadge JE. Efficiency of p53-Induced Apoptosis During Stem Cell Product Purging with Adenovirus p53. American Society of Hematology (Apoptosis) Meeting-12/98.
- McDonald M, Monroy A, Fritz M, Bordens R, Wen SF, Hutchins B. Evaluation of Quantitative 5' Nuclease RT-PCR Assays for p53, p21^{WAF1/CIP1}, Bax, and Bcl-2 mRNA. Canji/Schering-Plough Retreat/Scientific Advisory Board Meeting-9/98.
- Beltran JC, McDonald M, Nodelman M, Simkovsky R, Wen SF, Obenauer-Kutner L, Hutchins B, Sugarman BJ. Methods for Characterizing Transgene Expression from Recombinant Adenoviral Vectors Encoding Cytokine Genes. Canji/Schering-Plough Retreat/Scientific Advisory Board Meeting-9/98.
- Wills K, McDonald M, Neugebauer S, Philopena J, Vaillancourt M, Anderson S, Wen SF, Avanzini J, Faha B. Analysis of the Effect of Adenoviral Background on the Level and Persistence of Transgene Expression. Keystone Meeting on Gene Therapy-12/97.

Teaching Experience

- Visiting Professor, Taught clinical immunology lectures at the University of Northumbria-Newcastle, United Kingdom and St. George's University School of Medicine, Grenada, West Indies (2007-2009).
- Clinical Instructor, Depts. of Medicine & Pediatrics, Yale University School of Medicine (2006-2009).
- Visiting Professor, Dept of Clinical Skills, St. George's Univ. School of Medicine (2007).
- Clinical Instructor, Dept. of Internal Medicine, Dartmouth Medical School (2003-2006).
- Epidemiology TA, Dept. of Behavioural Science, St. George's Univ. School of Medicine (2000).
- Immunology TA, Dept. of Pathology/Microbiology, St. George's Univ. School of Medicine (1999).
- Anatomy Tutor, Dept. of Educational Services, St. George's Univ. School of Medicine (1999).
- Histology Tutor, Dept. of Anatomical Sciences, St. George's Univ. School of Medicine (1999).
- Guest Instructor, King Elementary School, San Diego, CA (1998).

Professional Activities

- American Academy of Asthma Allergy & Immunology. Member (2009-present), FIT Member (2006-2009). Member of FIT Committee (2006-2009). Submitted successful application for the William Pierson Visiting Faculty Program on behalf of Dartmouth-Hitchcock Medical Center (2005). Selected to participate in the National Resident Education Program (NREP) at the AAAAI Annual Meeting, San Francisco, CA (2004). Attended the following national meetings: San Francisco (2004), San Diego (2007), Philadelphia (2008) and Washington DC (2009).
- American College of Allergy, Asthma & Immunology. Member (2009-present), Fellow-in-Training Member (2006-2009). Attended the following meetings: Boston (2004), Anaheim (2005), Philadelphia (2006) and Seattle (2008).
- Colorado Allergy & Asthma Society (2009-present)
- Western Society of Allergy Asthma Immunology (2009-present).
- Connecticut Society of Allergy. In-Training Member (2006-2009).
- Medical Volunteer, Los Medicos Voladores/Flying Doctors (2000-2006).