

CURRICULUM VITAE

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Society memberships: American Association for the Advancement of Science (AAAS)
American Association of Immunologists (AAI)
Association for Women in Science (AWIS)
Sigma Xi Research Society
Society for Advancement of Hispanics/Chicanos and Native Americans
in Science (SACNAS)

Education

2011 University of Texas Southwestern Graduate School of Biomedical Sciences, Dallas, TX

Degree: PhD, Immunology

Advisor: Anne Satterthwaite, PhD

Dissertation title: *The role of Bruton's tyrosine kinase and interleukin-6 in plasma cell accumulation and autoantibody production in lyn^{-/-} mice, a model of lupus*

2003 St. Mary's University, San Antonio, TX

Degree: Bachelor of Science, Biology

Advisor: Jose M. Cimadevilla, Ph.D.

Positions

Dec 2013 - present

Coordinator of Graduate Programs/Assistant Director

Supervisor/Program Director: Richard McGee, PhD

Collaborative Learning and Integrated Mentoring in the Biosciences (CLIMB), Northwestern University Feinberg School of Medicine, Chicago IL

The CLIMB Program was instituted at Northwestern University in 2007 as a professional development program for graduate students in the life sciences, dedicated to creating a diverse community of young scientists. CLIMB funding is provided by an R25 IMSD (Initiative for Maximizing Student Development) grant from the NIH, The Graduate School and Feinberg School of Medicine at Northwestern. My role is to:

- Coordinate student recruitment, interviews, and selection for CLIMB along with five associated life science programs (BME, ChBE, IBiS, IGP and NUIN) and The Graduate School
- Coordinate and lead a series of professional development workshops that complement the students' research training
- Mentor individual students through their program requirements
- Supervise and train study group facilitators for students' core courses

Oct 2012 – Nov 2013

Research Project Coordinator

Principle investigator: Richard McGee, PhD

Scientific Careers Research & Development Group, Northwestern University Feinberg School of Medicine, Chicago IL

- Coordinate annual in-person meeting and travel for 160 study participants
- Collect data through interviews, observations, and surveys
- Administer Access and NVivo Databases
- Manage processing and storage of interview and survey data
- Facilitate group meetings and team projects
- Supervise graduate and undergraduate research assistants

May 2011 - May 2012

Postdoctoral researcher

Principle investigator: Anne Satterthwaite, PhD

Department of Internal Medicine, Division of Rheumatology, University of Texas Southwestern Medical Center, Dallas TX

Project: Study of B cell terminal differentiation in a murine model of the autoimmune disease systemic lupus erythematosus (SLE). By evaluating B cell function in genetically-manipulated mice that exhibit a lupus-like disease, I was able to identify checkpoints that occur immediately after activation of mature B cells and the development of those cells into antibody-producing cells. The goal of the research was to distinguish specific developmental processes (e.g., B cell differentiation, survival, and migration) that can be targeted for therapy, specifically eliminating the production of pathogenic antibodies in patients.

Publications

A balance between BCR signaling and inhibitory receptors controls plasma cell differentiation by maintaining optimal Ets1 levels. Luo W, JM Mayeux, T Gutierrez, A Getahun, J Müller, T Tedder, SH Chen, R Rickert, L Nitschke, J Cambier, AB Satterthwaite, LA Garrett-Sinha. *J Exp Immunol* (submitted)

IL-21 promotes the production of anti-DNA IgG but is dispensable for kidney damage in *Iyn*^{-/-} mice. Gutierrez T, JM Mayeux, SB Ortega, NJ Karandikar, QZ Li, D Rakheja, XJ Zhou, AB Satterthwaite. *Eur J Immunol* 2013 43(2): 382-393.

Separate checkpoints regulate plasma cell accumulation and IgG autoantibody production in *Iyn*^{-/-} mice. Gutierrez T, KE, Halcomb, AJ Coughran, QZ Li, AB Satterthwaite. *Eur J Immunol* 2010 40: 1897-1905.

Btk regulates localization, in vivo activation, and class switching of anti-DNA B cells. Halcomb KE, S Musuka, T Gutierrez, HL Wright, AB Satterthwaite. *Mol Immunol* 2008 46(2): 233-241.

Btk regulates multiple stages in the development and survival of B-1 cells. Contreras CM, KE Halcomb, L Randle, RM Hinman, T Gutierrez, SH Clarke, AB Satterthwaite. *Mol Immunol* 2007 44: 2719-2728.

Presentations (selected)

Invited Speaker Workshop, Keystone Symposia "B cells: New Insights into Normal versus Dysregulated Function", Whistler BC, April 2011

Invited Speaker St. Mary's University, Jose Miguel Cimadevilla Memorial Seminar Series, San Antonio TX, February 2011
Invited Speaker Plenary, Keystone Symposia "Tolerance and Autoimmunity", Taos NM, February 2010
Abstract American Assoc of Immunol, San Diego CA, April 2008
Abstract American Assoc of Immunol, Boston MA, May 2006
Invited Speaker St. Mary's University Scientific Seminar Series, San Antonio TX, October 2004
Invited Speaker SACNAS National Conference, Austin TX, September 2004

Funding

2006-2011 Grantor: NIH, NIGMS F31 GM076982
Ruth L. Kirschstein National Research Service Award for Individual Predoctoral Fellow
Project Title: "Role of hyperresponsive myeloid cells in murine lupus."
Role: Principal Investigator

Awards and Honors

2011, 2010 Keystone Symposia Conference Travel Award
2009 Academic Excellence Award
2007 Dean's Discretionary Award
2005 SACNAS National Conference Travel Award
2005 Chancellor's List
2001-2003 Minority Access to Research Careers (MARC) Scholarship Program
1999-2003 St. Mary's University President's Scholarship Award

Other activities

Teaching:

Conference leader Medical Immunology conferences: Designed to give medical students an opportunity to review material on humoral and cellular immunity and clinical immunology using case-based questions.
Lecturer Summer Immunology course: Optional, non-credit course designed to provide students with a brief overview of Immunology. Taught by volunteer postdoctoral Immunology fellows and advanced graduate students in Immunology.

Training/Mentorship:

Summer 2010 Graduate research assistant training
Summer 2009 Undergraduate research assistant training
Jan-Feb 2008 Mentor, Health Professions Recruitment and Exposure Program (HPREP) at UT Southwestern: the program's focus is to expose high school students to the educational institution and strengthen their motivation in pursuing careers in a health-related field. Weekend sessions consist of short lectures followed by small group discussions to facilitate interactions with group mentors, faculty, and personnel of health science institutions. During group sessions, mentors discuss the unique needs and challenges of minority communities and help with essay writing and other college-

prep requirements and questions.

2004-2006 UT Southwestern Big Sib program: provide information and support to incoming first years

Miscellaneous:

Postdoctoral Association

-- **Outreach Committee, member/Co-Chair** (May/Nov 2011-present) -- The purpose of the committee is to promote a public interest in science, to further the understanding of science, and to raise awareness about possible career paths in the sciences, with a particular emphasis on encouraging children. Outreach events include mentoring or speaking engagements at local science and engineering camps and science fair judging.

-- **PostDoc Informer, contributor** (Nov 2011-present) -- Monthly newsletter targeted to the postdoctoral community at UT Southwestern, written by UTSW postdoctoral researchers. It includes useful information for research and career, important campus events, interviews with leading UTSW scientists and local events in the DFW.

-- **Standards Committee, member** (May 2011-present) -- The purpose of the committee is to represent postdoctoral scholars at UT Southwestern; serve as advocate for changes in policies for the benefit of all postdoctoral scholars such as requests for an increase in mailbox size on UTSW servers or addressing loss of benefits during status changes from postdoctoral researcher to fellow.

Graduate Student Organization

-- Volunteer Coordinator (Aug 2006-Sept 2008), organize volunteer opportunities and drives for charitable donations that benefit not-for-profit organizations

-- Volunteer at UTSW-affiliated events: United to Serve Health and Fun Fair at TJ Rusk Middle School (2005-2008), Holiday in the Park (2007)

UT Southwestern Recruiting at SACNAS National Conference

-- Student Recruiter (annual) Sept 2004-2008, work with Dr. Nancy Street, Associate Dean of the Graduate School at UT Southwestern, at exhibitor booth to provide information to undergraduate students and actively recruit students

Immunology Student Journal Club

-- Coordinator Aug 2005-2010, Student-initiated journal club; continually promote student participation, organize and maintain scheduling

Summer Undergraduate Research Fellowship (SURF) Planning Committee

-- Summer social events planning committee (annual) June-Aug 2004-2009, organize various social events that promote interaction between SURF students and current graduate students

Quest for a Career Seminar Series (QFC)

-- Planning Committee (Aug 2006-Sept 2008), invitation of guest speakers, hosting and organizing seminars

Science Teacher Access to Resources at Southwestern (STARS)

-- Volunteer Science Fair Judge (Jan 2008-Jan 2010), judge/award science fair projects from elementary to high school level

--Teacher (January 2012), Cheek cell DNA-extraction workshop for high school attendees