
BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Stephanie Jane Bissel	POSITION TITLE Research Assistant Professor		
eRA COMMONS USER NAME (credential, e.g., agency login) stephaniebissel			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
University of North Dakota, Grand Forks, ND	B.S.	05/94	Natural Science
University of Pittsburgh, Pittsburgh, PA	Ph.D.	12/05	Infectious Diseases
University of Pittsburgh, Pittsburgh, PA		07/06	Neuropathology
University of California, Los Angeles		07/08	Immunology
University of Pittsburgh, Pittsburgh, PA		08/09	Neuropathology

A. Personal Statement

I received a Ph.D. studying lentiviral infection of the brain at the University of Pittsburgh under the mentorship of Clayton Wiley in 2005. In 2006, I began Postdoctoral training at UCLA in T cell immunology under the guidance of M. Carrie Miceli. In both my graduate work at Pitt and my postdoctoral studies at UCLA, I was awarded training grant fellowships. In 2008, I returned to the University of Pittsburgh as a Postdoctoral associate in Dr. Wiley's lab. In 2009, I was appointed Research Assistant Professor in the Neuropathology Division in the Department of Pathology. I am active in both undergraduate and graduate training of scientists. I have 12 peer-reviewed articles and review articles. My research concentrates on the pathogenesis of neurodegenerative diseases and in particular on viral and age induced nervous system diseases. I have recently focused on the involvement of the immune system in central nervous system disease.

B. Positions and Honors

Positions and Employment

1993 Research Intern, National Zoological Park, Smithsonian Institute, Washington, DC
1994-1995 Research Technician, USDA ARS Human Nutrition Research Center, Grand Forks, ND
1995-1997 Peace Corps Volunteer, Chemistry and Biology Education, Cameroon, Africa
1998-2005 Graduate Student Researcher, Department of Infectious Diseases and Microbiology, University of Pittsburgh
2006 Postdoctoral Associate, Department of Pathology, University of Pittsburgh
2006-2008 Postdoctoral Scholar, Department of Microbiology, Immunology, and Molecular Genetics, University of California Los Angeles
2008-2009 Postdoctoral Associate, Department of Pathology, University of Pittsburgh
2009-present Research Assistant Professor, Department of Pathology, University of Pittsburgh

Other Experience and Professional Memberships

2000-present Member, American Association for the Advancement of Science
2002-present Member, American Society for Investigative Pathology
2009-present Member, International Society of Neuroimmunology
2009-present Member, Society for Neuroscience
2009-present Member, International Society for Neurovirology

Honors

2003-2004 NIH Neurobiology Training Grant Fellow T32 MH18273
2007-2008 NIH Microbial Pathogenesis Training Grant Fellow T32-AI07323

C. Peer-reviewed publications (in chronological order).

1. **Bissel SJ**, Wang G, Ghosh M, Reinhart TA, Capuano III S, Stefano Cole K, Murphey-Corb M, Piatak, Jr. M, Lifson JD, Wiley, CA. Macrophages Relate Pre- and Post-Synaptic Damage in SIV encephalitis. *Amer J Pathol* 2002;160:927-941.
2. Capuano III S, Croix D, Pawar S, Zinovik A, Myers A, Lin P, **Bissel S**, Fuhrman C, Klein E, Flynn JL. Experimental Mycobacterium tuberculosis infection of cynomolgous macaques closely resembles the various manifestations of human M. tuberculosis infection. *Infect Immun* 2003;71:5831-5844. PMID: PMC201048
3. **Bissel SJ**, Wiley CA. Human Immunodeficiency Virus Infection of the Brain: Pitfalls in Evaluating Infected/Affected Cell Populations. *Brain Pathol* 2004;14:97-108. PMID: PMC1449744
4. Venneti S, Lopresti BJ, Wang G, **Bissel SJ**, Mathis CA, Meltzer CC, Boada F, Capuano III S, Kress GJ, Davis DK, Ruszkiewicz J, Reynolds IJ, Murphey-Corb M, Trichel AM, Wisniewski SR, Wiley CA. PET imaging of brain macrophages using the peripheral benzodiazepine receptor in a macaque model of neuroAIDS. *J Clin Invest* 2004;113:981-989. PMID: PMC379322
5. Medina-Flores R, Wang G, **Bissel SJ**, Murphey-Corb M, Wiley CA. Destruction of extracellular matrix proteoglycans is pervasive in simian retroviral neuroinfection. *Neurobiol Dis* 2004;16:604-16.
6. **Bissel SJ**, Wang G, Trichel AM, Murphey-Corb M, Wiley CA. Longitudinal Analysis of Monocyte/Macrophage Infection in Simian Immunodeficiency Virus Infected, CD8⁺ T Cell Depleted Macaques that Develop Lentiviral Encephalitis. *Amer J Pathol* 2006;168:1553-1569. PMID: PMC1457021
7. **Bissel SJ**, Wang G, Trichel AM, Murphey-Corb M, Wiley CA. Longitudinal Analysis of Activation Markers on Monocyte Subsets During the Development of Simian Immunodeficiency Virus Encephalitis. *J Neuroimmunol* 2006;177:85-98. PMID: PMC2561894
8. **Bissel SJ**, Wang G, Trichel AM, Murphey-Corb M, Wiley CA. Systemic Monocyte/Macrophage Infection is Associated with the Development of Simian Immunodeficiency Virus Encephalitis in Pigtailed Macaques. *J Virol* 2008;82:5031-42. PMID: PMC2346725
9. Liu SD, Whiting CC, Tomassian T, Pang M, **Bissel SJ**, Baum LG, Mossine VV, Poirier F, Miceli MC. Endogenous galectin-1 enforces class I-restricted TCR functional fate decisions in thymocytes. *Blood* 2008;112:120-30. PMID: PMC2435683
10. Venneti S, Bonne-Barkay D, Lopresti BJ, **Bissel SJ**, Wang G, Mathis CA, Piatak, Jr. M, Lifson JD, Nyaundi JO, Murphey-Corb M, Wiley CA. Longitudinal assessment of lentiviral encephalitis with *in vivo* PET imaging of infected and activated brain macrophages correlates with peripheral and central markers of lentiviral encephalitis. *Amer J Pathol* 2008;172:1603-16. PMID: PMC2408420
11. *Bonne-Barkay D, ***Bissel SJ**, Wang G, Nicholl GCB, Darko SW, Medina-Flores R, Murphey-Corb M, Rajakumar PA, Nyaundi J, Mellors JW, Bowser R, Wiley CA. YKL-40 is a cerebrospinal fluid biomarker of SIV encephalitis and binds to the extracellular matrix modulating biological activity of bFGF. *Amer J Pathol* 2008;173:130-43. PMID: PMC2438291
***Both authors contributed equally to this work.**
12. Bonne-Barkay D, Zagadailov P, Zou H, Niyonkuru C, Figley M, Starkey A, Wang G, **Bissel SJ**, Wiley CA, Wagner AK. YKL-40 expression in traumatic brain injury – an initial analysis. *J Neurotrauma* (in press).

D. Research Support

Ongoing Research Support

P50 AG005133

Lopez (PI)

05/01/10-04/30/15

ADRC-Project 3 – (Kofler – PI) Alterations of microglial phenotype and function in aging and Alzheimer's disease.

This grant assesses changes in adult human microglia activation potential in aging and Alzheimer's disease.

Role: Co-I