

# Brandie White

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## Education

**In Progress - Ph.D.** Cell & Molecular Biology, San Diego State University

**2011 - B.Sc.** Ecology, Behavior and Evolution, University of California, San Diego

GRE: Verbal (167, 97%), Quantitative (158, 71%), Analytical (4.0, 56%)

## Honors and Awards

June & Harold Grant Memorial Scholarship, San Diego State University, 2017

Shiley Life Sciences Scholarship in Biology, San Diego State University, 2017

1st Place Poster, "Single Cell Sequencing Validation and Application in Immunology," La Jolla Institute for Allergy & Immunology Retreat, 2015

Student Leadership Scholarship, Mt. SAC 2009

## Association Memberships

American Academy of Underwater Sciences, 2017

San Diego State University Green Commission, 2017

## Professional Experience

**2014- 2016 La Jolla Institute for Allergy & Immunology** La Jolla, CA  
Single Cell Transcriptional Profiling of Immune Cells from Subjects with Asthma and Allergic Rhinitis. Characterization of molecular mechanisms that regulate inflammation in macrophages from Subjects with Systemic Lupus Erythematosus. Prof. Vijay Panduranagan, M.D., Ph.D., Single-cell RNA isolation, library preparation, next-generation sequencing and gene expression analysis.

**2011 – 2014 Neuropore Therapies LLC** San Diego, CA

Effects of Novel Small Molecules on Oligomeric Alpha-synuclein in Murine Models of Parkinson's Disease.

Dr. Diana Price, Behavior testing of sensory, memory and motor abilities  $\alpha$ -syn overexpressing mice, tissue harvesting and immunohistochemistry.

**2009 - 2011 University of California, San Diego, Neuroscience** San Diego, CA,  
Behavioral testing and characterization of Murine models of Neurodegenerative  
Disease.

Prof. Eliezer Masliah, M.D.

**2011, 2016 University of California, San Diego, Biological Sciences** San Diego, CA  
Effects of the Invasive Argentine Ant on Cotton Crop Yield. Climate Change  
effects on Nectar Production and Visitation by Pollinators of Squash.

Prof. David Holway, Ph.D.

**2010 S.B. County Vector Control** San Bernardino, CA  
Department of Public Health, Vector Ecology Laboratory, Screening for West Nile  
Virus and Zoonotic Disease.

Dr. Wakoli Wekesa, Ph.D.

**2006 – 2009 Los Angeles Zoo and Botanical Garden** Los Angeles, CA,  
Alterations in Corticosteroid Levels in Urine Okapi Males housed in Proximity.  
Volunteer animal keeper, enrichment, health and behavioral assessment of primates  
and ungulates.

## Research Interests

Bacteria-host communication and nutrient acquisition through membrane derived vesicles. Microbial communities play an active role in host health and mounting evidence suggest vesicle trafficking could play a role in community structure. I aim to identify molecules trafficked by vesicles and mechanisms of membrane fusion in native microbial communities to shed light on drivers of microbial community structure in the human gut and in marine environments.

## Publications and Papers

Seumois G\*, Zapardiel JM\*, White B\*, Dillon M, Hinz D, Sette A, Peters B, Vijayanand P. Transcriptional profiling of T cells identifies distinct features associated with asthma and allergic rhinitis. *Journal of Immunology* 2016 Jul 15;197(2):655-64. (\*Co-first authors)

Engel I, Seumois G, Chavez L, Chawla A, White B, Mock D, Vijayanand P, Kronenberg M. Innate-like functions of natural killer T cell subsets result from highly divergent gene programs. *Nature Immunology* 2016 Jun;17(6):728-39.

Hinz D, Seumois G, White B, Gholami A, Lane A, Broide DH, Grey H, Schulten V, Sidney J, Bahkru P, Oseroff C, Wambre E, Kwok B, Peters B, Vijayanand P, Sette A. Lack of allergy to timothy grass pollen is not a passive phenomenon but is associated with allergen specific modulation of immune reactivity. *Clinical & Experimental Allergy* 2016 May;46(5):705-19.