

Daniel Sprockett

Stanford University School of Medicine
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EDUCATION

- Ph.D. Microbiology & Immunology (Anticipated Graduation: Spring 2019)
Stanford University School of Medicine, Stanford, OH, USA
- M.Sc. Biological Sciences, Ecology & Evolutionary Biology (2009)
Kent State University, Kent, OH, USA
Thesis: *The Evolution of Fungal Pectinases in Glycosyl Hydrolase Family 28 and Their Association with Ecological Strategy*
- B.Sc. Biological Sciences, Molecular/Cellular Biology (2006)
Kent State University, Kent, OH, USA
Magna Cum Laude, Honors College Scholar
- University of Leicester, Leicester, UK (2005)
Honors College Scholar Exchange Program

Additional Training and Research Experience

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|----------------------------|---|
| September 2017 | anvi'o Workshop for Metagenomic Analysis
Joint Genome Institute |
| August 2015 | Strategies and Techniques for Analyzing Microbial
Population Structures (STAMPS)
Marine Biological Laboratory |
| August 2011 – July 2013 | Research Assistant, Department of Dermatology
Case Western Reserve University School of Medicine |
| January 2010 – August 2011 | Research Assistant, Department of Anthropology
Kent State University |

PUBLICATIONS

Sprockett, Daniel, Natalie Fischer, Rotem Sigall Boneh, Dan Turner, Jarek Kierkus, Malgorzata Sladek, Johanna Escher, Eytan Wine, Baruch Yerushalmi, Jorge Amil Dias, Ron Shaoul, Michal Kori, Scott Snapper, Susan Holmes, Athos Bousvaros, Arie Levine, David A. Relman (2018) Treatment-Specific Composition of Gut Microbiota Is Associated with Disease Remission in a Pediatric Crohn's Disease Cohort. Submitted to *Am J Gastroenterol*.

Sprockett, Daniel D., Tadashi Fukami, and David Relman (2018) Role of priority effects in the early-life assembly of the gut microbiota. *Nat Rev Gastroenterol Hepatol*.

Asifa K. Zaidi, Katrina Spaunhurst, **Daniel Sprockett**, Yolandas Thomason, Margaret W. Mann, Pingfu Fu, Christine Ammons, Meg Gerstenblith, Marie S. Tuttle, and Daniel L. Popkin (2018) Characterization of the facial microbiome in twins discordant for rosacea. *Experimental Dermatology* 27(3): 295-298.

Gacura, Matthew D., **Daniel D. Sprockett**, Bess Heidenreich, and Christopher B. Blackwood (2016) Comparison of pectin-degrading fungal communities in temperate forests using glycosyl hydrolase family 28 pectinase primers targeting Ascomycete fungi. *J Microbiol Methods* 123:108-113.

Joshua S Lichtman, Emily Alsentzer, Mia Jaffe, **Daniel Sprockett**, Evan Masutani, Elvis Ikwa, Gabriela K Fragiadakis, David Clifford, Bevan Emma Huang, Justin L Sonnenburg, Kerwyn Casey Huang, and Joshua E Elias (2015) The effect of microbial colonization on the host proteome varies by gastrointestinal location. *ISME J* 10:1170-1181.

Sprockett, Daniel D., Christine Ammons, and Marie Tuttle (2015) Chronic wound microbial bioburden dynamics correlate with wound expansion, antibiotic therapy, and healing. *Wound Repair Regen* 23(5): 765-771.

Sprockett, Daniel D., Helen Piontkivska, and Christopher B. Blackwood (2011) Evolutionary Analysis of Glycosyl Hydrolase Family 28 (GH28) Suggests Lineage-Specific Expansions in Necrotrophic Fungal Pathogens. *Gene* 479(1-2): 29-36.

Baca, Ivan, **Daniel Sprockett**, and Volodymyr Dvornyk (2010) Circadian Input Kinases and their Homologs in Cyanobacteria: Evolutionary Constraints Versus Architectural Diversification. *J Mol Evol* 70(5): 453-465.

Presentations & Posters

Sprockett, Daniel (2017) Host-Microbiota Associations in Very Early Onset Inflammatory Bowel Disease. Oral Presentation at the California Microbiome Initiative. University of California, San Diego, San Diego, CA.

Sprockett, Daniel (2017) Hot Papers Journal Club: Natural history of the infant gut microbiome and impact of antibiotic treatment on bacterial strain diversity and stability. Oral Presentation at American Society of Microbe (ASM) Microbe. New Orleans, Louisiana.

Sprockett, Daniel, Melanie Martin, Elizabeth Costello, Michael Gurven, and David Relman (2016) Microbiome Maturation in Tsimané Infants. Poster presentation delivered at the First Annual Bioinformatics For Microbiome Symposium. Stanford University. Stanford, CA.

Sprockett, Daniel (2016) Microbiome Maturation in Tsimané Infants. Oral Presentation delivered at the California Microbiome Initiative. University of California, San Diego. San Diego, CA.

Sprockett, Daniel, Melanie Martin, Elizabeth Costello, Michael Gurven, and David Relman (2015) Cultural Practices Influence Tsimané Gut Microbiome Maturation. Poster presentation delivered at the 5th International Human Microbiome Congress. Luxembourg City, Luxembourg.

Sprockett, Daniel (2015) The Gut Microbiome in VEO-IBD Patients. Oral Presentation delivered the Annual VEO-IBD Consortium Meeting. Prien am Chiemsee, Germany.

Sprockett, Daniel (2014) The Gut Microbiome as a Tool to Study VEO-IBD. Oral Presentation delivered the Annual VEO-IBD Consortium Meeting. Toronto, Canada.

Sprockett, Daniel (2013) Microbial Biogeography of Chronic Wounds Revealed Through

Detailed Longitudinal Sampling. Oral Presentation delivered to i3 Institute, University of Technology Sydney. Sydney, Australia.

Sprockett, Daniel D.; Marie S. Tuttle (2013) Longitudinal Sampling of the Wound Microbiome Reveals Increased Bacterial Diversity with Healing. Poster presentation delivered at the 6th Annual Translational to Clinical (T2C) Regenerative Medicine Wound Care Conference. The Ohio State University. Columbus, OH.

Sprockett, Daniel (2012) The Wound Microbiome: Why Genetic Diagnostic Techniques Should Guide the Management of Chronic Infection. Oral Presentation delivered to Case Western Reserve University, Department of Epidemiology and Biostatistics. Cleveland, OH.

Sprockett, Daniel, Helen Piontkivska, and Christopher Blackwood (2009) Effects of Gene Birth-and-Death in Fungal Glycosyl Hydrolases on Life History Strategy. Poster presentation delivered at the American Society for Microbiology Annual Meeting. Philadelphia, PA.

Sprockett, Daniel, Christopher Blackwood, Helen Piontkivska (2009) Glycoside Hydrolase Family 28: A Birth-and-Death Evolutionary Model in Fungi. Poster presentation delivered at the Midwest Ecology and Evolution Annual Conference. University of Nebraska – Lincoln. Lincoln, NE.

Sprockett, Daniel, Helen Piontkivska, Christopher B. Blackwood (2009) Glycosyl Hydrolase Family 28 Evolution in Fungi. Oral Presentation delivered to Kent State University, Department of Biological Sciences. Kent, OH.

Sprockett, Daniel, Christopher Blackwood, Helen Piontkivska (2008) Glycoside Hydrolase Family 28: Functional Evolutionary Analysis. Poster presentation delivered at the Society for the Study of Evolution Annual Meeting. University of Minnesota. Minneapolis, MN.

Sprockett, Daniel, Volodymyr Dvornyk (2007) Circadian Input Kinase Evolution. Oral Presentation delivered to the Midwest Ecology and Evolution Conference. Kent State University. Kent, OH.

HONORS, FELLOWSHIPS, & AWARDS

- 2017 Awarded \$500 to Travel to American Society for Microbiology (ASM) Microbe in New Orleans, Louisiana.
- 2014-2017 National Science Foundation Graduate Research Fellowship. Stanford University.
- 2013-2014 National Institutes of Health T32 Training Grant Recipient. Cell & Molecular Biology
- 2015 Awarded \$800 Biosciences Office of Graduate Education Travel Grant to attend 5th International Human Microbiome Congress in Luxembourg City, Luxembourg.
- 2009 Awarded \$400 Travel Grant from Kent State University Graduate Student Senate to present at Midwest Ecology and Evolution Conference in Lincoln, NE.
- 2008 Awarded \$350 Travel Grant from Kent State University Graduate Student Senate to attend and present at Society for the Study of Evolution annual meeting in Minneapolis, MN
- 2002-2006 Presidential Founders Scholarship, Kent State University
- 2005-2006 J. Bixenstein Memorial Scholarship for Outstanding Biology Student, Honors College, Kent State University
- 2002-2006 Honors Scholarship for Excellence, Kent State University

TEACHING EXPERIENCE

Gut Microbiota in Health and Disease – Spring 2016
Advanced Pathogenesis of Bacteria, Viruses, and Eukaryotic Parasites – Winter 2016
Biological Foundations – Fall 2009 (Honors), Spring 2009 (Honors), Spring 2008
Elements of Genetics – Summer 2009, Fall 2007
General Ecology – Fall 2008
Ecology, Evolution, & Society – Summer 2008
Tropical Field Biology and Conservation Course in Costa Rica – Spring 2008
Organic Evolution – Fall 2006

LEADERSHIP, SCIENTIFIC OUTREACH, & ACADEMIC SERVICE

2018	Founding Member Stanford Science Policy Group, Stanford University
2017	Organizing Committee Stanford Microbiome Summit
2017	Graduate Admissions Committee Department of Microbiology & Immunology, Stanford University
2016 – Present	Organizer Interdisciplinary Microbiome Perspectives, Stanford University
2016	Science Pen Pals, Stanford University
2014 – 2015	Orientation and Recruitment Chair Stanford Biosciences Student Association, Stanford University
2014	Science Fair Judge, Grades 6-12 Synopsys Championship Science and Technology Fair San Jose, CA
2013	Weekly Science Columnist Ideas at the Sydney Opera House Website, Sydney, Australia medium.com/gut-check
2011	Weekly Science Columnist <i>Daily Kent Stater</i> , Kent, OH kentwired.com
2009	Organizing Committee Chairperson Kent State University Darwin Day Celebration
2007 – 2009	President Biology Graduate Student Council, Kent State University
2007 – 2009	Graduate Representative Graduate Studies Committee, Kent State University
2007	Organizing Committee 27 th Annual Midwest Ecology & Evolution Conference