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EDUCATION

Ph.D.	Biomolecular Science and Engineering, University of California, Santa Barbara	Dec. 2014
M.S.	Biology	Arizona State University, Tempe 2005
B.A.	Environmental Science/Biology	University of California, Berkeley 1997

PROFESSIONAL APPOINTMENTS

Assistant Researcher, University of Hawai'i, Mānoa, PBRC	April 2020-
Assistant Researcher, University of Hawai'i, Mānoa, Oceanography	July 2015-2021
NSF Graduate Research Fellow	2009-2014
Graduate Student Instructor and Researcher, U.C. Santa Barbara	2007-2011
Graduate Student Instructor and Researcher, Arizona State University	2002-2005
Staff Research Associate, Children's Hospital Oakland Research Institute	2000-2002
Research Assistant, University of California Berkeley, Entomology	1997-2000

FELLOWSHIPS AND GRANTS

NSF IOS Collaborative Research: <i>Linking Causes of Variation in the Amphibian Skin Microbiome with Consequences for Disease Risk</i>	2015-2020
Potential effects of symbiotic microbes on nesting and foraging by Hawaiian yellow-faced bees (<i>Hylaeus</i>). US Fish and Wildlife and Hawaii Department of Land and Natural Resources.	2019-2021
NSF Doctoral Dissertation Improvement Grant	2012-2013
NSF Graduate Research Fellowship	2009-2014
Susan and Bruce Worster Graduate Research Awards	2010, 2012
Arizona State Univ. Graduate Student Research Grants	2003
U.C. Berkeley Alumni Association Undergraduate Scholarship	1994-1997

PUBLICATIONS IN PEER-REVIEWED JOURNALS

- Jani, A. J., Bushell, J., Arisdakessian, C. G., Belcaid, M., Boiano, D. M., Brown, C., et al. (2021). The amphibian microbiome exhibits poor resilience following pathogen-induced disturbance. *The ISME Journal*, 1–13. doi:10.1038/s41396-020-00875-w.
- Allison Q. Byrne, Vance T. Vredenburg, An Martel, Frank Pasmans, Rayna C. Bell, David C. Blackburn, Molly C. Bletz, Jaime Bosch, Cheryl J. Briggs, Rafe M. Brown, Alessandro Catenazzi, Mariel Familiar López, Raul Figueroa-Valenzuela, Sonia L. Ghose, Jef R. Jaeger, Andrea J. Jani, Miloslav Jirku, Roland A. Knapp, Antonio Muñoz, Daniel M. Portik, Corinne L. Richards-Zawacki, Heidi Rockney, Sean M. Rovito, Tariq Stark, Hasan Sulaeman, Nguyen Thien Tao, Jamie Voyles, Anthony W. Waddle, Zhiyong Yuan, and Erica Bree Rosenblum. 2019. Cryptic diversity of a widespread global pathogen reveals expanded threats to amphibian conservation. *Proceedings of the National Academy of Sciences of the United States of America*. 116: 20382-20387. doi:10.1073/pnas.1908289116
- Wilber, M.Q., Jani, A.J., Mihaljevic, J.R., and Briggs, C.J. 2019. Fungal infection alters the selection, dispersal, and drift processes structuring the amphibian skin microbiome. *Ecology Letters*. 23:88-98. doi:10.1111/ele.13414
- Jani, A.J. 2019. Amphibian microbiome linked to climate. *Nature Ecology & Evolution* 3, 332. (invited)
- Jani, A. J., and Briggs, C. J. 2018. Host and Aquatic Environment Shape the Amphibian Skin Microbiome but Effects on Downstream Resistance to the Pathogen *Batrachochytrium dendrobatidis* Are Variable. *Frontiers in Microbiology* 9. doi:10.3389/fmicb.2018.00487.
- Hynson, N.A., Frank, K.L., Alegado, R.A., Amend, A.S., Arif, M., Bennett, G.M., Jani, A.J., Medeiros, M.C.I., Mileyko, Y., Nelson, C.E., Nguyen, N.H., Nigro, O.D., Pristic, S., Shin, S., Takagi, D., Wilson, S.T., Yew, J.Y. 2018. Synergy among Microbiota and Their Hosts: Leveraging the Hawaiian Archipelago and Local Collaborative Networks To Address Pressing Questions in Microbiome Research. *mSystems* 3, e00159-17. doi:10.1128/mSystems.00159-17.
- Jani, A.J., R.A. Knapp, and C. J. Briggs. 2017. Epidemic and endemic pathogen dynamics correspond to distinct host population microbiomes at a landscape scale. *Proceedings of the Royal Society B*. 284: 20170944.
- Jani, A.J. and C.J. Briggs. 2014. The pathogen *Batrachochytrium dendrobatidis* disturbs the frog skin microbiome during a natural epidemic and experimental infection. *Proceedings of the National Academy of Sciences of the United States of America*. 111: E5049-E5058.
- Jani, A.J. and P.A. Cotter. 2010. Type VI Secretion: Not Just for Pathogenesis Anymore. *Cell Host and Microbe* 8(S1): 2-6.
- Jani, A.J., S.H. Faeth, and D. Gardner. 2010. Asexual endophytes and associated alkaloids alter arthropod community structure and increase herbivore abundances on a native grass. *Ecology Letters* 13:106-117.
- Mack, S. J., Sanchez-Mazas, A., Single, R. M., Meyer, D., Hill, J., Dron, H. A., Jani, A. J., Thomson, G., Erlich, H.A. (2007). Population samples and genotyping technology. *Tissue Antigens* 69, 188–191. doi:10.1111/j.1399-0039.2006.00768.x.

- Faeth, S. H., D. R. Gardner, C. J. Hayes, A. Jani, S. K. Wittlinger, and T. A. Jones. 2006. Temporal and spatial variation in alkaloid levels in *Achnatherum robustum*, a native grass infected with the endophyte *Neotyphodium*. *Journal of Chemical Ecology* 32:307-324.
- McCallum, H., L. Gerber, and A. Jani. 2005. Does infectious disease influence the efficacy of marine protected areas? A theoretical framework. *Journal of Applied Ecology* 42:688-698.
- Sabo, J.L., R. Sponseller, M. Dixon, K. Gade, T. Harms, J. Heffernan, A. Jani, G. Katz, C. Soykan, J. Watts, and J. Welter. 2005. Riparian zones increase regional species diversity by harboring different, not more species. *Ecology* 86:56-62.

PUBLISHED ABSTRACTS AND TECHNICAL REPORTS

- Mack, S. J., A. J. Jani, J. Below, N. Arceneaux, N. Saha, M. Sartakova, and H. E. Erlich. 2002. Population genetics of HLA polymorphism in Asian populations: Implications for the history of Amerindians and Polynesians. *Tissue Antigens* 59:100-100.
- Mack, Steven J., Diogo Meyer, Andrea J. Jani, Henry A. Erlich. 2001(27th Annual Meeting of the American Society for Histocompatibility and Immunogenetics San Francisco, California, USA October 13-17, 2001). Preliminary report of the anthropology/human genetic diversity component of the IHWG. In: *Human Immunology* 2001. 62 (Supplement 1): S59.
- Mack, S. J., A. J. Jani, L. N. Geyer, J. Below, N. Arceneaux, and H. A. Erlich. 2003. Using global patterns of HLA diversity to infer recent demographic events in human population history. *Anthropological Science* 111:56-56.
- Daane, K.M., M. Bianchi, A. Jani, K.M. Weir. 2000. Biological control of the obscure mealybug, *Pseudococcus viburni*, in the north and central coast regions. Annual Report, Crop Year 1999. American Vineyard Foundation. 8 pp.
- Geiger, C.A., K.M. Daane, K.D. Weir, A. Jani, N. Scascighini, G.Y. Yokota, W.J. Bentley. 1999. Investigation of mealybug population dynamics to forecast and prevent outbreaks and improve biological controls. 1998-99 Viticulture Research Report. CTGC Annual Report. Vol. 27: 18 pp.

CONFERENCE PRESENTATIONS

- Jani A.J., Bushell, J., Boiano, D.M., Brown, C., and Knapp, R.A. Infection by a fungal pathogen compromises microbiome resistance to further perturbation. Gordon Research Conference on Animal-Microbe Symbioses. Poster presentation. June 2019.
- Jani, A.J., Knapp, R.K., and Briggs, C.J. Understanding the assembly and function of the *Rana sierrae* microbiome. Annual Meeting on Amphibian Diseases: Integrated Research Challenges in Environmental Biology. Arizona State University, Tempe, AZ. November 2017.
- Jani, A.J., Briggs, C.J. and Knapp, R.K. Evidence for reciprocal effects between symbiotic bacteria and an infectious pathogen at a landscape scale. Gordon Research Conference on Animal-Microbe Symbioses. Poster presentation. June 2015.
- Jani, A.J. and Briggs, C.J. Shifts in amphibian symbiotic bacterial communities are linked to epizootic spread of the aquatic fungal pathogen *Batrachochytrium dendrobatidis*. Meeting of the Association for the Sciences of Limnology and Oceanography (ASLO). February 2013.

- Jani, A.J. and Briggs, C.J. Shifts in amphibian symbiotic bacterial communities are linked to epidemic spread of the fungal pathogen *Batrachochytrium dendrobatidis*. Meeting of the Ecological Society of America, August 2012.
- Jani, A.J. and Briggs, C.J. Shifts in *Rana sierrae* skin microbial communities associated with epidemic chytridiomycosis. Annual Meeting on Amphibian Diseases: Integrated Research Challenges in Environmental Biology. Arizona State University, Tempe, AZ. 2011.
- Jani, A.J. and S.H. Faeth. Community-level effects of *Neotyphodium* endophytes in native grasses. 89th Meeting of the Ecological Society of America. Portland, OR, August 2004.
- Jani, A.J. and Daane, K.M. Studies of *Goniozus legneri* (Hym.: Bethyridae) development, fecundity and longevity used to improve biological control programs. XII International Entomophagous Insects Workshop. Asilomar, CA. Sept 1999.

INVITED TALKS AND GUEST LECTURES

- Jani A.J. Assembly, stability, and function of the amphibian skin microbiome. PBRC seminar. University of Hawai'i at Mānoa March 2020
- Jani, A.J. Stability of the skin microbiome of an endangered frog: implications for disease management. Invited seminar, Department of Microbiology, University of Hawai'i at Mānoa. April 2019.
- Jani, A.J. Assembly and function of the amphibian microbiome: implications for a nasty infectious disease. Invited seminar, PBRC, University of Hawai'i at Mānoa. November 2017
- Jani., A.J. Microbial ecology of an infectious disease: Do symbiotic bacteria protect an endangered frog from the fungal pathogen *Batrachochytrium dendrobatidis*? University of Hawai'i at Mānoa, Oceanography Department Seminar. November 2014.

TEACHING AND MENTORING

COURSES TAUGHT

Ecology of Infectious Disease and Symbiosis (OCN 340, UH Mānoa) 2017-current