

TANVI PRASAD HONAP

Department of Anthropology
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Education

2012 - 2017 Doctor of Philosophy in Evolutionary Biology, Arizona State University
2010 - 2012 Master of Science in Virology, University of Pune, India
2007 - 2010 Bachelor of Science in Microbiology (with a minor in Industrial Microbiology),
University of Pune, India

Employment History

July 2017 - Research Assistant Professor, Department of Anthropology,
Faculty, Laboratories of Molecular Anthropology and Microbiome Research
(LMAMR), University of Oklahoma
2012 - 2017 Graduate Teaching/Research Assistant, School of Life Sciences,
Arizona State University

Research Interests

Infectious disease evolution; pathogen genomics; ancient DNA; tuberculosis; leprosy; human gut
microbiome evolution; bioinformatics; phylogenetics

Research Grants

2016 Graduate Jumpstart Grant from the Graduate and Professional Students Association, ASU,
for "Of monkeys and mycobacteria: a nonhuman primate connection to leprosy" (USD
500)
2014 Graduate Research Grant from the Graduate and Professional Students Association, ASU,
for "Investigating leprosy in nonhuman primates" (USD 1,950)

Awards and Scholarships

2017 Dissertation Completion Fellowship, School of Life Sciences, ASU (USD 11,595)
2016 Outstanding Student Podium Presentation in Anthropological Genetics award for
"Genetic analyses of pre- and post-contact North American *Mycobacterium tuberculosis*
complex strains" at the American Association of Physical Anthropologists Meetings,
Atlanta, GA.
2010 University Grants Commission Indira Gandhi Scholarship for Single Girl Child (INR
40,000 towards tuition for Masters degree)
First place prize for "Hydrocarbonclastic bioluminescent bacteria: A solution to
hydrocarbon pollution" at the Horizon 2010 Intercollegiate Poster Presentation
Competition, Pune, India.
2007 Jamshetji Tata Trust Scholarship for the Pune Intercollegiate Consortium Exploratory
Program (INR 1,400)

Publications

Honap TP, Pfister L-A, Housman G, Mills S, Tarara RP, Suzuki K, Cuzzo FP, Sauter ML, Rosenberg MS, and Stone AC (2018). *Mycobacterium leprae* genomes from naturally infected nonhuman primates. PLoS Neglected Tropical Diseases 12(1): e0006190

Benjak A+, **Honap TP**+, Avanzi C, Becerril-Villanueva L, García I, Rojas-Espinosa O, Stone AC, and Cole ST (2017). Insights from the genome sequence of *Mycobacterium lepraemurium*: massive gene decay and reductive evolution. mBio 8:e01283-17

Ozga AT, Nieves-Colón MA, **Honap TP**, Sankaranarayanan K, Hofman CA, Milner GR, Lewis CM, Stone AC, and Warinner C (2016). Successful enrichment and recovery of whole mitochondrial genomes from ancient human dental calculus. American Journal of Physical Anthropology 160: 220-228

Alagarasu K, **Honap T**, Damle IM, Mulay AP, Shah PS, and Cecilia D (2013). Polymorphisms in the Oligoadenylate Synthetase Gene Cluster and its Association with Clinical Outcomes of *Dengue Virus* Infection. Infection, Genetics, and Evolution 14:390-395

Alagarasu K+, **Honap T**+, Mulay AP, Bachal RV, Shah PS, and Cecilia D (2012). Association of vitamin D receptor gene polymorphisms with clinical outcomes of *Dengue virus* infection. Human Immunology 73(11):1194-1199

+ denotes co-first authors

Contributed Podium Presentations

Honap TP, Vågane A, Herbig A, Rosenberg MS, Buikstra JE, Bos KI, Krause J, and Stone AC (2018). Pre-contact and historic era *Mycobacterium tuberculosis* complex genomes from the Americas. American Association of Physical Anthropologists Meetings, Austin, TX.

Honap TP, Pfister LA, and Stone AC (2017). Genomic analyses of *Mycobacterium leprae* strains from naturally infected nonhuman primates. American Association of Physical Anthropologists Meetings, New Orleans, LA.

Honap TP, Vågane A, Herbig A, Rosenberg MS, Buikstra JE, Bos KI, Krause J, and Stone AC (2016). Genetic analyses of pre- and post-contact North American *Mycobacterium tuberculosis* complex strains. American Association of Physical Anthropologists Meetings, Atlanta, GA.

Honap TP (2016). Ancient DNA analyses of New World tuberculosis strains. Graduate and Professional Students Association Interdisciplinary Research Symposium, Arizona State University.

Honap TP (2015). Analysis of a nonhuman primate *Mycobacterium leprae* strain: implications for zoonotic transmission of mycobacterial pathogens. Graduate and Professional Students Association Interdisciplinary Research Symposium, Arizona State University.

Invited Poster Presentations

Honap TP, Pfister LA, and Stone AC (2014). The origins and evolution of *Mycobacterium leprae*. American Association of Physical Anthropologists Meetings, Calgary, Canada.

Contributed Poster Presentations

Wright S, Monroe C, Furlong M, Reeves M, **Honap TP**, Austin R, and Hofman C (2018). Exploring the Biological Heritage of Enslaved People at James Madison's Montpelier Through Ancient DNA Analysis.

Society for American Archaeology Meetings, Washington D.C.

Honap TP, Vågane A, Herbig A, Rosenberg MS, Buikstra JE, Bos KI, Krause J, and Stone AC (2017). Genomic analyses of ancient *Mycobacterium tuberculosis* complex strains from the Americas. Society for Molecular Biology and Evolution Meetings, Austin, TX.

Crane A, **Honap TP**, Goebel M, Stone AC, and Varsani A (2017). Towards identifying *Mycobacterium pinnipedii* and viruses associated with Antarctic fur seals and Weddell seals. Society for Molecular Biology and Evolution Meetings, Austin, TX.

Honap TP, Vågane A, Herbig A, Buikstra JE, Bos KI, Krause J, and Stone AC (2017). Genomic analyses of ancient tuberculosis strains from the Americas. Plant and Animal Genomes Meetings, San Diego, CA.

Ozga AT, Nieves-Colón MA, **Honap TP**, Sankaranarayanan K, Hofman CA, Milner GR, Lewis CM, Stone AC, and Warinner C (2016). Ancient dental calculus as a reservoir of whole human mitogenomes. American Association of Physical Anthropologists Meetings, Atlanta, GA.

Honap TP, Pfister LA, Erkenswick G, Watsa M, and Stone AC (2015). Analysis of a nonhuman primate *Mycobacterium leprae* strain: implications for zoonotic transmission of mycobacterial pathogens. Society for Molecular Biology and Evolution Meetings, Vienna, Austria.

Honap TP, Housman G, Erkenswick G, Malukiewicz J, Boere V, Machado-Pereira L, Grativol AD, Ruiz-Miranda C, Silva I, Watsa M, and Stone AC (2015). Investigating the presence of mycobacterial pathogens in New World primates. American Association of Physical Anthropologists Meetings, St. Louis, MO.

Nieves-Colón MA, Ozga AT, **Honap TP**, Pestle WJ, Warinner C, and Stone AC. Comparison of aDNA yields from calculus and tooth roots in pre-Columbian skeletal remains (2015). American Association of Physical Anthropologists Meetings, St. Louis, MO.

Honap TP, Tamhankar MA, Bhalerao A, and Deshpande NM (2010). Hydrocarbonclastic bioluminescent bacteria: A solution to hydrocarbon pollution. Horizon 2010 Intercollegiate Poster Presentation Competition, Pune, India.

Other Research Experience

2007 – 2009 Undergraduate Researcher, Department of Microbiology, Abasaheb Garware College, India. Project: Isolation and identification of bioluminescent bacteria and investigation of their hydrocarbonclastic property.

2007 - 2008 Undergraduate Researcher, Pune Intercollegiate Consortium - Exploratory Program, India. Project: Study of groundwater contamination due to municipal garbage dumping sites around Pune city, India.

Teaching Experience

Teaching Assistant for BIO 181 (General Biology for Majors) – 3 semesters, BIO 345 (Organic Evolution) – 2 semesters, BIO 281 (Conceptual Approaches to Biology for Majors) – 1 semester, and MBB 350 (Applied Genetics) – 1 semester

Service

- 2018 - Peer Reviewer for *PNAS*, PLoS Neglected Tropical Diseases, PLoS One, and GigaScience
- 2013 - 2017 Peer Reviewer for the Research and Travel Grants, Graduate and Professional Students Association, Arizona State University
- Volunteer for Ask-A-Biologist website, Arizona State University
- 2016 - 2017 Graduate student representative, School of Life Sciences faculty recruitment committee
- 2016 Volunteer for undergraduate computational analysis workshop “Intro to Command Line”, School of Life Sciences (Supervisor: Melissa Wilson-Sayres, Ph.D.)
- Volunteer for Mammal March Madness (Organizer: Katie Hinde, Ph.D.)

Membership in Professional Organizations

American Association of Physical Anthropologists (AAPA), American Association for Anthropological Genetics (AAAG), Society for Molecular Biology and Evolution (SMBE)

References

- Cecil M. Lewis Jr., Ph.D.
(Current Supervisor) Founding Co-Director, Laboratories of Molecular Anthropology and
Microbiome Research (LMAMR)
Professor, Department of Anthropology, University of Oklahoma
101 David L. Boren Blvd., Norman, OK 73019
E-mail: cmlewis@ou.edu
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- Anne C. Stone, Ph.D.
(Ph.D. co-advisor) Regents' Professor
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University
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- Michael S. Rosenberg, Ph.D.
(Ph.D. co-advisor) Director, Center for Biological Data Science
Associate Professor, Virginia Commonwealth University
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