

## LISA JONES-ENGEL, PhD

I have worked for 35 years as a scientist studying humans and nonhuman primates where they come into contact; a career that has straddled the field, the research laboratory and the undergraduate classroom. I am known for tackling difficult subjects and finding nuanced perspectives. I collaborate with academics, scientists, students, welfare advocates and stakeholders to honor their visions as well as my own.

### Biographical Information

Research Assistant Professor, Department of Anthropology  
Director, Evolutionary Emergence of Infectious Diseases Laboratory  
Affiliate, Center for Studies in Demography and Ecology  
University of Washington, Seattle, WA 98105  
Phone; 206-372-6190; E-mail: ljengel@uw.edu  
Born: 7 December 1965  
Nationality: US

### Educational Background

1988 BA, Government, Concentration in SE Asian studies, Cornell University  
1993 MA, Physical Anthropology, New York University  
2002 PhD, Biological Anthropology, University of New Mexico

### Postgraduate Training

2002-04 Department of Psychology and Division of International Programs, Washington National Primate Research Center, University of Washington, Post-Doctoral Fellow

### Positions and Employment

1983 Research Assistant, Orangutan Research and Conservation Project, Kalimantan, Indonesia  
1986 - 1987 Research Assistant, Yerkes Primate Research Center, Atlanta, GA  
1989 - 1991 Assistant Laboratory Animal Technician, LEMSIP, Tuxedo, NY  
1991 - 1992 Supervisor, Chimpanzee Rehabilitation Project, Banjul, The Gambia  
1996 - 1998 Sr. Surgical Technician, Town and Country Animal Hospital, Albuquerque, NM  
1997 - 1998 Director of Veterinary Care, Krabok Koo Wildlife Rehabilitation Center, Thailand  
2002 - 2004 Postdoctoral fellow, University of Washington, Dept of Psychology, Seattle, WA  
2004 – 2008 Research Scientist, UW, National Primate Research Center, Seattle, WA  
2008- Affiliate Research Scientist, Fred Hutchinson Cancer Research Center, Seattle, WA  
2008 – 2016 Senior Research Scientist, UW, Nat'l Primate Research Center, Seattle, WA  
2014-2015 Fulbright Scholar, Bangladesh  
2015- Affiliate, Center for the Study of Demography and Ecology, UW, Seattle, WA  
2016 - Research Assistant Professor, Univ of Washington, Department of Anthropology, Seattle, WA  
2017- Scientific Full Member, UW Institutional Animal Care and Use Committee

### Special National Responsibilities

2001- 2010 Captive Care and Breeding Committee: International Primatological Society  
2001-2004 Program Committee: American Society of Primatology (ASP)  
2002-2006 Conservation Committee: ASP  
2006-present Reviewer for journals including: American Journal of Primatology; Ecological and Environmental Anthropology; Emerging Infectious Diseases; Journal of Virology; PLoS; Virology; Journal Medical Primatology; Primates; International Journal of Primatology; EcoHealth  
2007-2012 Nominations Committee: ASP  
2007-2013 Research Committee: ASP  
2012- National Institutes of Health Special Emphasis Ad Hoc Reviewer  
2015-2017 US Fulbright Regional Peer Review Committee for South Asia

## Research Funding

### Current Research Funding:

Global Innovation Fund University of Washington *Is human transmission of treponemes to pet macaques impeding eradication efforts?* (\$26,924)(PI: Jones-Engel) 01/01/2017-1/15/2019

### Pending Funding:

xxxxxxx Bill and Melinda Gates Foundation. *Case Finding of Pediatric TB in South Africa* (PI: Cangelosi) 06/01/2019-05/31/2021 (resubmission)

R01 A127383 National Institutes of Health- National Institute of Allergy and Infectious Diseases *Validating a novel non-invasive sample type for diagnosis of active pulmonary tuberculosis* (PI: Cangelosi) 06/01/2019-05/31/2023 (resubmission)

### Completed Funding:

FA126044/A106799 Bill and Melinda Gates Foundation. *Non-Invasive Tuberculosis Diagnosis and Case Finding* (\$35,000 sub) (PI: Cangelosi) 06/15/2016- 03/31/2018

R21 AI119473-01 National Institutes of Health- National Institute of Allergy and Infectious Diseases *Tuberculosis case finding by oral swab* (\$20,000 sub) (PI:Cangelosi) 04/01/2015- 03/31/17

P51 OD 010425-51. National Institutes of Health- National Center for Research Resources. Washington National Primate Research Center (\$450,000 sub) (PI: Thomas Baillie) 2012

R01 AI078229. National Institutes of Health- National Institute of Allergy and Infectious Diseases (\$3,994,491). *Evolution and Emergence of Simian Retroviruses in Bangladesh.* (PI: Jones-Engel) 2008

R21 AI097832-01 National Institutes of Health- National Institute of Allergy and Infectious Diseases (\$100,000). *Foamy virus zoonotic transmission from New World Monkeys.* Co-Principle Investigator. (PI: Maxine Linial) 2011

P51 RR 00166. National Institutes of Health- National Center for Research Resources. Washington National Primate Research Center (\$485,140) (PI: Martha Somerman) 2006

R01GM080586. National Institutes of Health- National Institute of General Medical Sciences. (\$381,271). *Evolution of Plasmodium vivax and Asian Macaque Malaria.* Co-Investigator. (PI: Escalante) 2008

R01 AI078229-03S1 National Institutes of Health- National Institute of Allergy and Infectious Diseases (\$163,790) *Evolution and Emergence of Simian Retroviruses in Bangladesh-* ARRA Supplement (PI: Jones-Engel) 2009

RR 02S014 National Institutes of Health- National Center for Research Resources (\$10,000) *A Molecular-Based Early Indicator of Tuberculosis Exposure: Applications for the Lab and Implications for Public Health* (PI: Jones-Engel) 2007

R03 AI064865. National Institutes of Health- National Institute of Allergy and Infectious Diseases (\$169,963) *Primate Enterovirus transmission in Bangladesh* (PI: Jones-Engel) 2006

Puget Sound Partners for Global Health (\$50,000) *Primate-to-Human Pathogen Transmission: Bio-threats in China.* (PI: Jones-Engel) 2004

Royalty Research Fund, University of Washington (\$36,000) *Bi-directional pathogen transmission between humans and nonhuman primates in Thailand: Implications for human health and primate conservation.* (Co-PI: Jones-Engel) 2003

N66001-02-C-8072 DARPA (\$212,369) *Bi-Directional Pathogen Transmission between Humans and Nonhuman Primates: Characterizing the Nonhuman Primate* (PI: Jones-Engel) 2002

Unconventional Concepts Inc. (\$50,000) *Bi-Directional Pathogen Transmission between Humans and Nonhuman Primates: Characterizing the Nonhuman Primate* (PI: Jones-Engel) 2001

## Teaching

### BIOA 269 *Our Inner Primate*

Autumn 2018

The inaugural *Our Inner Primate* course is designed for incoming Freshman and/or students who are not familiar with Anthropology/Primateology. Nonhuman primates are our closest living relatives. Throughout the quarter we will explore how across the globe (and even into outer space), nonhuman primates have influenced how we think about culture, art, music, religion, language, biomedical research, conservation and the way the we perceive ourselves. Each lecture will be about a specific nonhuman primate-- e.g. Flo, the adult female chimpanzee that helped Jane Goodall understand the intense relationship between primate mothers and offspring. Along the way you will be introduced to a suite of skills that will help you be more successful throughout your academic career--- including how to navigate Canvas, how to use UW's Library system to identify and appropriately use literature and media resources to create a weekly annotated bibliographies and blogs, as well as workshops on peer-review and how to effectively work in small groups.

### **BIOA 370 *Introduction to Primates***

Autumn 2015; Winter 2016; Winter 2017

Introduction to Primates provides an engaging curriculum that explores the natural world through a focus on primate diversity and ecology. Students who take this course develop their capacity to think critically. This course will provide a comprehensive review of living nonhuman primate taxonomy, morphology, natural history and distribution. Throughout the course topics such as conservation, ethnoprimateology, disease transmission, field research, and the role that nonhuman primates play in different cultures around the world will be highlighted.

### **BIOA 370 *Introduction to Primates (Direct Learning)***

Winter 2018; Summer 2018; Winter 2019

BioA370 has traditionally been taught as a face to face course where students are exposed, via a lecture format, to a comprehensive review of living nonhuman primate taxonomy, morphology, natural history and distribution. Now BioA370 is being offered as a direct learning course (aka online course). **My goal is to take advantage of the diverse learning tools available in Canvas to introduce students to the extraordinary world of nonhuman primates.** As a Primatologist I am keenly aware of the importance of relationships and developing community and have built into the online course ways for us to connect even though we will not be sharing a physical classroom.

### **BIOA 413 *Human-Primate Interface: Disease Risk and Conservation in the 21<sup>st</sup> C***

Winter 2016; Spring 2017; Spring 2019

A growing literature suggests that cross-species transmission of infectious agents occurs between humans and several nonhuman primate species in a variety of contexts and in diverse geographic areas. Whether cross-species transmission occurs depends on a number of factors, including the prevalence of infectious agents present in the human and primates' reservoirs, the contexts of interspecies contact, and the frequency and type of contact that occurs. This course is a multidisciplinary approach to exploring the interrelationship of human and primate populations. We will delve into the challenges of mitigating the impact of primate-borne infectious diseases on public health as well as conserving free-ranging primate populations in the 21st century. This is a seminar course which relies heavily on primary literature drawn from diverse fields. Each week during the quarter we will cover a different topic, all of which are interrelated and span multiple disciplines

### **ANTH466 *Anthropology Honors Thesis Advising***

2014-present

### **ANTH 499 *Anthropology Undergrad Research Advising***

2015- present

## **PUBLICATIONS**

- 1) **Jones-Engel L**, Bard K.A. (1996). Precision grips in young chimpanzees. *Amer J Primtol* 39: 1-15.
- 2) **Jones-Engel L**, Engel G.A., Schillaci M.A., Babo R., Froehlich J.W. (2001). Detection of antibodies to selected human pathogens among wild and pet macaques in Sulawesi, Indonesia. *Amer J Primatol*, 54, 171-178.
- 3) Schillaci MA, **Jones-Engel L**, Heidrich J.E., Miller G.P., Froehlich, J.W. (2001). A field methodology for lateral cranial radiography of nonhuman primates. *Am J of Phys Anthropol*, 116, 278-284.
- 4) Engel G.A., **Jones-Engel L**, Schillaci M.A., Suaryana K.G., Putra A., Fuentes A., Henkel R. (2002). Human exposure to herpesvirus B-seropositive macaques, Bali, Indonesia. *Emerg Infect Dis*, 8, 789-795.
- 5) **Jones-Engel L**, Engel G.A., Schillaci M., Fuentes A., Suaryana K.G., Rompis A., Putra A., Wandia I., Papatangan U., Allan J., Grant R., Kuller L., Henkel R., Kyes R. (2002). Serological, epidemiological and ethnoprimateological evidence for bidirectional pathogen transmission between humans and primates in Indonesia. Abstract of the Healthy Ecosystem, Healthy People: Linkages between biodiversity, ecosystem health and human health, p.10.
- 6) **Jones-Engel L**, Schillaci M.A., Engel G.A. (2003). Interaction between humans and nonhuman primates. In: Setchell J., Curtis D., editors. *Field & laboratory methods in Primatology*. Cambridge: Cambridge University Press, p 15-24.
- 7) Froehlich, J.W., Schillaci, M.A., Jones-Engel, L., Froehlich, D.J., Pullen, B. (2003). A Sulawesi beachhead by longtail monkeys (*Macaca fascicularis*) on Kabena Island, Indonesia. *Anthropologie*, XLI/1-2, 67-74.

- 8) **Jones-Engel L.**, Engel G.A., Schillaci M.A., Kyes K., Paputangan U., Allan J., Grant R., Froehlich, J.W., Kyes R.C., (2004). A serological survey of antibody prevalence to endemic primate pathogens among pet macaques from Sulawesi, Indonesia. *Amer J Primatol*, 62(1), 42-43.
- 9) **Jones-Engel L.**, Engel G.A., Schillaci M., Froehlich J.W., Paputungan U., Kyes R. (2004). Prevalence of Enteric Parasites among Pet Macaques in Sulawesi, Indonesia. *Amer J Primatol*, 62, 71-82.
- 10) Kyes R.C., **Jones-Engel L.**, Huettmann F. (2004). Primate Conservation Biology: Moving towards a comprehensive approach to population assessment. *Folia Primatol*, 75(1), 389.
- 11) Chalise M.K., **Jones-Engel L.**, Engel G.A., Heidrich J., Kyes R.C., Grant R. (2004). Health status of semi-provisioned free-ranging temple rhesus monkeys of Kathmandu Valley, Nepal. *Folia Primatol*, 75(1), 363-364.
- 12) Grant R., Watanabe R., Kuller L., Poland B., Vinh C., McLain R., **Jones-Engel L.**, Schillaci M., Lee B., Pamungkas J., Iskandriati D., Kyes R., Anderson D. (2005). Comparison of Wild-Type SRV in Indonesia and Singapore. *J. Med. Primatol.* 34, 332-333.
- 13) **Jones-Engel L.**, Engel G.A., Schillaci M., Rompis A., Putra A., Suryana K., Fuentes A., Beer B., Hicks S., White R., Wilson B. & Allan J. (2005). Primate to Human Retroviral Transmission in Asia. *Emerging Infect Dis.* 11(7), 1028-35.
- 14) **Jones-Engel L.**, Engel G.A., Schillaci M.A. (2005). An ethnoprimateological assessment of disease transmission among humans and wild and pet macaques on the Indonesian island of Sulawesi. In *Commensalism and Conflict: The primate-human interface*. Eds. J. Patterson and J. Wallis, pp. 196-221.
- 15) **Jones-Engel L.**, Schillaci M.A., Engel G.A., Paputungan U., Froehlich J.W. (2005). Characterizing primate pet ownership in Sulawesi: implications for disease transmission. In J. Patterson and J. Wallis eds. *Commensalism and Conflict: The primate-human interface*. ASP, p 197-221.
- 16) Schillaci M.A., Froehlich J.W., Supriatna J., **Jones-Engel L.** (2005). The effects of hybridization on growth allometry and craniofacial form in Sulawesi macaques. *J Hum Evol.* 49(3), 335-69.
- 17) Grant R., Vinh C., Watanabe R., McLain R., Kuller L., Poland B., **Jones-Engel L.**, Iskandriati D., Pamungkas J., Kyes R.C., Anderson D. (2005). A novel type-D simian retrovirus (srv) in newly imported *M. nemestrina* similar to endogenous langur monkey retrovirus: Evidence of cross-genus transmission. *Amer J Primatol*, 66(S1), 77-78.
- 18) Schillaci M.A., **Jones-Engel L.**, Engel G.A., Paramastri Y., Iskander E., Wilson B., Allan J., Kyes R., Grant R. (2005). Prevalence of enzootic simian viruses among urban performance monkeys in Indonesia. *Trop Med Int Health*, 10, 1305-14.
- 19) Kyes R.C., **Jones-Engel L.**, Chalise M.K., Engel G.A., Heidrich J., Grant R., Bajimaya S.S., McDonough J., Glenn Smith D., Ferguson B. (2006). Genetic Characterization of Rhesus Macaques (*Macaca mulatta*) in Nepal. *Amer J Primatol*, 68, 445-55.
- 20) **Jones-Engel L.**, Engel G.A., Heidrich J., Chalise M., Poudel N., Viscidi R., Barry P., Allan J., Grant R., Kyes R. (2006). Temple Monkeys and Health Implications of Commensalism, Kathmandu, Nepal. *Emerg Infect Dis*, 12, 900-906. PMC3373059.
- 21) **Jones-Engel L.**, Engel G.A., Schillaci M.A., Heidrich J., Lee B., Chalise M.K., Kyes R.C., Travis D. (2006). Considering Human to Primate Transmission of Measles Virus through the Prism of Risk Analysis. *Amer J Primatol*, 68, 868-879.
- 22) Engel G.A., Hungerford L., **Jones-Engel L.**, Travis D., Fuentes A., Schillaci M., Kyes R. (2006). Risk Assessment: A Model for Predicting Cross-Species Transmission of SFV from Macaques (*M. fascicularis*) to Humans at a Monkey Temple in Bali, Indonesia. *Amer J Primatol*, 68, 934-948.
- 23) **Jones-Engel L.**, Engel G.A., (2006). Disease Risk Analysis: A Paradigm for Using Health-Based Data to Inform Primate Conservation and Public Health. *Amer J Primatol*, 68, 851-854.
- 24) Travis D.A., Hungerford L., Engel G.A., **Jones-Engel L.** (2006). Disease risk analysis: a tool for primate conservation planning and decision making. *Amer J Primatol*, 68, 855-867.
- 25) Schillaci M.A., **Jones-Engel L.**, Engel G.A., Kyes R. (2006). Exposure to human respiratory viruses among urban performing monkeys in Indonesia. *Amer J Trop Med Hyg*, 75, 716-719.
- 26) Cohn D.L., Smith V., Pizarro M., **Jones-Engel L.**, Engel G.A., Fuentes A., Shaw E., Cortes J. (2007). Pediculosis in *Macaca sylvanus* of Gibraltar. *Vet Parasitol*, 145, 116-119. PMC1924910.
- 27) Schillaci M.A., **Jones-Engel L.**, Lee B.P., Fuentes A., Aggimarangsee N., Engel G.A., Sutthipat T. (2007). Morphology and somatometric growth of long-tailed macaques (*Macaca fascicularis fascicularis*) in Singapore. *Biol J Lin Soc*, 92, 675-694.

- 28) **Jones-Engel L.**, Steinkraus K., Murray S., Engel G.A., Grant R., Aggimarangsee N., Lee B.P.Y.-H., May C., Schillaci M.A., Chutthapati T., Somgird C., Vojtech L., Zhao J., Linial M. (2007). Sensitive assays for simian foamy virus reveal a high prevalence of infection in commensal, free-ranging, Asian monkeys. *J of Virol*, 81, 7330-7. PMC1933339.
- 29) Schillaci M.A., **Jones-Engel L.**, Heidrich J., Benamore R., Pereira A., Paul A. (2008). Thoracic radiography of pet macaques in Sulawesi, Indonesia. *J Med Primatol*, 37, 141-145.
- 30) Schillaci M.A., **Jones-Engel L.**, Engel G.A., Fuentes A. (2008). Characterizing the threat to the blood supply associated with nonoccupational exposure to emerging simian retroviruses. *Transfusion*, 48, 398-401.
- 31) Fuentes A., Kalchik S., Gettler L., Kwiatt A., Konecki M., **Jones-Engel L.** (2008). Characterizing Human-Macaque Interactions in Singapore. *Amer J Primatol*, 70,1-5.
- 32) Engel G.A., Pizarro M., Shaw E., Cortes J., Fuentes F., Barry P., Lerche N., Grant R., Cohn D., **Jones-Engel L.** (2008). Unique pattern of enzootic primate viruses in Gibraltar macaques. *Emerg Infect Dis*, 14(7), 1112-1115. PMC2600335.
- 33) **Jones-Engel L.**, May C., Engel G.A., Steinkraus K., Schillaci M.A., Fuentes A., Rompis A., Chalise M.K., Aggimarangsee N., Feeroz M.M., Grant R., Allan J., Putra A., Wandia I.N., Watanabe R., Kuller L., Thongsawat S., Chaiwarith R., Kyes R., Linial M. (2008). Diverse contexts of zoonotic transmission of simian foamy viruses in Asia. *Emerg Infect Dis*, 14(8), 1200-1208. PMC2562341.
- 34) Sha J.C., Fuentes A., Gumert M., **Jones-Engel L.**, Lee B., Chan S. (2009). Macaque–Human Interactions and the Societal Perceptions of Macaques in Singapore. *Am J Primatol*, 71(10):825-39.
- 35) Sha J.C., Gumert M., Lee B., Fuentes A, Chan S., **Jones-Engel L.** (2009). Status of the long-tailed macaque (*Macaca fascicularis*) in Singapore and implications for management. *Biodiver Cons* 18, 2909-2906.
- 36) Schillaci M.A., Parrish S., **Jones-Engel L.** (2009). Radiographic measurement of the cardiothoracic ratio in pet macaques from Sulawesi, Indonesia. *Radiography*, 15, 29-33.
- 37) Engel G.A., O’Hara T.M., Cardona-Marek T., Heidrich J., Chalise M., Kyes R., **Jones-Engel L.** (2010). Synanthropic Primates in Asia: Potential Sentinels for Environmental Toxins. *Amer J Phys Anthro*, 142(3), 453-460. PMC2901096.
- 38) Schillaci M.A., Lischka A.R., Karamitsos A.A., Engel G.A., Paul N., Ramoul R., Rompis A., Putra A., Wandia I.N., **Jones-Engel L.** (2010) Radiographic measurement of the cardiothoracic ratio in a feral population of long-tailed macaques (*Macaca fascicularis*). *Radiography*, 16, 163-166.
- 39) Dietrich E.A., **Jones-Engel L.**, Hu S.-L. (2010). Evolution of the Antiretroviral Restriction Factor TRIMCyp in Old World Primates. *PloS one*, 5(11), e14019. PMC2982814.
- 40) Negovetich N.J., Feeroz M.M., **Jones-Engel L.**, Walker D., Alam S.M.R., Hasan K., Seiler P., Ferguson A., Friedman K., Barman S., Franks J., Turner J., Krauss S., Webby R.J., Webster R.G. (2011). Live Bird Markets of Bangladesh: H9N2 Viruses and the Near Absence of Highly Pathogenic H5N1 Influenza. *PLoS One*, 6 (4), e19311. PMC3082571.
- 41) Pacheco M.A., Battistuzzi F., Junge R.E., Cornejo O.E., Williams C.V., Landau I., Rabetafika L., Snounou G., **Jones-Engel L.**, Escalante A.A. (2011). Timing the origin of human malarias: the lemur puzzle. *BMC Evolution Biol*, 11, 299. PMC3228831.
- 42) Engel G.A. & **Jones-Engel L.** (2012). Primates and Primatologists: Social contexts for interspecies pathogen transmission. *Amer J Primatol*, 74(6), 543-550. PMC3244521.
- 43) Pacheco M.A., Reid M.J.C., Schillaci M.A., Lowenberger C.A., Galdikas B.M.F., **Jones-Engel L.**, Escalante A.A. (2012). The Origin of Malarial Parasites in Orangutans. *PLoS One*, 7(4), e34990. PMC3335055.
- 44) Wilbur A.K., Engel G.A., Rompis A., Putra I.G.A. A., Lee B.P. Y.-H., Aggimarangsee N., Chalise M., Shaw E., Oh G., Schillaci M.A., **Jones-Engel L.** (2012). From the mouths of monkeys: Detection of *Mycobacterium tuberculosis* complex DNA from buccal swabs of synanthropic macaques. *Am J Primatol*, 74(7):676-86. PMC3368330.
- 45) Karlsson E.A., Engel G.A., Feeroz M.M., San S., Rompis A., Lee B.P. Y.-H., Shaw E., Oh G., Schillaci M.A., Grant R., Heidrich J., Schultz-Cherry S., **Jones-Engel L.** (2012). Influenza virus infection in nonhuman primates. *Emerg Infect Dis*, 18(10):1672-5. PMC3471624.
- 46) Wilbur A.K., Engel G.A., **Jones-Engel L.** (2012). TB infection in the nonhuman primate biomedical model: Tip of the iceberg? *Med Hypotheses*, Sep;79(3):365-7. PMC3444299.
- 47) Engel GA, Fuentes A, Lee BP, Schillaci MA, **Jones-Engel L.** (2013). Monkey bites among U.S. military members, Afghanistan, 2011. *Emerg Infect Dis*. 2013 Apr;19(4):691. doi: 10.3201/eid1904.121876

- 48) Engel G.A., Wilbur A.K., Westmark A., Horn D., Johnson J., **Jones-Engel L.** (2012) Naturally acquired *Mycobacterium tuberculosis* complex in laboratory pig-tailed macaques. EMI, Epub Oct 10: 1, e30; doi:10.1038/emi.2012.31.
- 49) Oberste M.S., Feeroz M.M., Maher K., Nix W.A., Engel G.A., Hasan K.M., Begum S., Oh G., Chowdhury A.H., Pallansch M.A., **Jones-Engel L.** (2013). Characterizing the picornavirus landscape among synanthropic nonhuman primates in Bangladesh, 2007-2008. J Virol. Jan;87(1):558-71. PMC3536389.
- 50) Oberste M.S., Feeroz M.M., Maher K., Nix W.A., Engel G.A., Begum S., Hasan K.M., Oh G., Pallansch M.A., **Jones-Engel L.** (2013). Naturally acquired picornavirus infections in nonhuman primates at the Dhaka zoo. J Virol, Jan;87(1):572-80. PMC3536375.
- 51) Feeroz M.M., Soliven K., Small C.T., Engel G.A., Pacheco-Delgado M.A., Yee J.L., Wang X.H., Kamrul M., Oh G., Levine K.L., Alam S.M.R., Craig K.L., Jackson D.L., Lee E.G., Barry P.A., Lerche N.W., Escalante A.A., Matsen F.A.IV, Linial M.L., **Jones-Engel L.** (2013). Population Dynamics of Rhesus Macaques and Associated Foamy Virus in Bangladesh. EMI, **2**, e29; doi:10.1038/emi.2013.23
- 52) Engel G.A., Wilbur A.K., **Jones-Engel L.** (2013). How well do you know your TB model? J Med Primatol, Feb;42(1):46-7.
- 53) Shanmuganatham K., Feeroz M.M., **Jones-Engel L.**, Smith G. J.D., Walker D., McClenaghan L., Alam S.M. R., Hasan K., Seiler P., Franks J., Ferguson A., Barman S., McKenzie P., Scott Krauss, Webby R.J., Webster R.G. (2013) Antigenic and molecular characterization of H9N2 avian influenza viruses isolated in Bangladesh. Emer Infect Dis. doi: 10.3201/eid1909.130336.
- 54) Engel GA, Small CT, Soliven K, Feeroz MM, Wang X, Hasan MK, Oh G, Alam SMR, Craig KL, Jackson DL, Matsen FA, Linial ML, **Jones-Engel L.** (2013). Zoonotic simian foamy virus in Bangladesh reflects diverse patterns of transmission and co-infection . EMI 2 (9), e58doi:10.1038/emi.2013.60
- 55) Soliven K, Wang X, Small CT, Feeroz MM, Lee EG, Craig KL, Hasan K, Engel GA, **Jones-Engel L**, Matsen FA 4th, Linial ML. (2013) Simian foamy virus infection of rhesus macaques in Bangladesh: relationship of latent proviruses and transcriptionally active viruses. J Virol. 2013 Dec;87(24):13628-39. doi: 10.1128/JVI.01989-13
- 56) Stenback C, Craig K, Ivanov S, Wang X, Soliven K, Jackson D, Guitierrez G, Engel GA, **Jones-Engel L**, Linial M. New World Simian Foamy Virus Infections *In Vivo* and *In Vitro*. (2014). J Virol. 88(2):982-91. doi: 10.1128/JVI.03154-13.
- 57) Schillaci M.A., Castellini J.M., Stricker C.A., **Jones-Engel L.**, Lee B.P., O'Hara T.M. (2014). Variation in hair  $\delta^{13}C$  and  $\delta^{15}N$  values in long-tailed macaques (*Macaca fascicularis*) from Singapore. Primates. 55(1):25-34. doi: 10.1007/s10329-013-0361-7 PMID:23729223
- 58) Matsen FA, Small CT, Soliven K, Engel GA, Feeroz MM, Wang X, Craig KL, Hasan MK, Emerman M, Linial ML, **Jones-Engel L.** (2014). A novel bayesian method for detection of APOBEC3-mediated hypermutation and its application to zoonotic transmission of simian foamy viruses. PLoS Comput Biol. 10(2):e1003493. doi: 10.1371/journal.pcbi.1003493. PMID:24586139
- 59) Marinova-Petkova A, Feeroz MM, Alam SMR, Hasan MK, Akhtar S, **Jones-Engel L**, Walker D, McClenaghan L, Rubrum A, Franks J, Seiler P, Jeevan T, McKenzie P, Krauss S, Webby RJ, Webster RG. (2014) Multiple introductions of highly pathogenic avian influenza H5N1 viruses into Bangladesh. Emerg Microbes Infect. 2014 February; 3(2): e11
- 60) Hasan MK, Feeroz MM, **Jones-Engel L**, Engel GA, Kanthaswamy S, Smith DG. (2014) Diversity and Molecular Phylogeny of Mitochondrial DNA of Rhesus Macaques (*Macaca mulatta*) in Bangladesh. Am J Primatol. 2014 May 8. doi: 10.1002/ajp.22296. PMID:24810278
- 61) Shanmuganatham K, Feeroz MM, **Jones-Engel L**, Walker D, Alam SMR, Hasan MK, McKenzie P, Krauss S, Webby RJ, Webster RG. (2014) Genesis of avian influenza H9N2 in Bangladesh. Emerg Microbes Infect. 2014 Dec; 3(12): e88. PMC4317637
- 62) Rosenbaum M1, Mendoza P, Ghersi BM, Wilbur AK, Perez-Brumer A, Cavero Yong N, Kasper MR, Montano S, Zunt JR, **Jones-Engel L.** (2014) Detection of Mycobacterium tuberculosis Complex in New World Monkeys in Peru. Ecohealth PMID: 25515075
- 63) Wood RC, Luabeya AK, Weigel KM, Wilbur AK, **Jones-Engel L**, Hatherill M, Cangelosi GA. (2015). Detection of Mycobacterium tuberculosis DNA on the oral mucosa of tuberculosis patients. Sci Rep. Mar 2;5:8668. doi: 10.1038/srep08668. PMID: 25727773

- 64) Craig KL, Hasan MK, Jackson DL, Engel GA, Soliven K, Feeroz MM, Wang X, **Jones-Engel L**, Linial ML (2015). A Seminomadic Population in Bangladesh with Extensive Exposure to Macaques Does Not Exhibit High Levels of Zoonotic Simian Foamy Virus Infection. *J Virology*.; 89(14):7414-6. PMID: 25926651
- 65) Hasan MK, Feeroz MM, **Jones-Engel L**, Engel GA, Akhtar, S. Kanthaswamy S, Smith DG (2016). Performing monkeys of Bangladesh: characterizing their source and genetic variation. *Primates*. 57(2):221-30.
- 66) EA Karlsson, CT Small, P Freiden, MM Feeroz, FA Matsen IV, S San, **Jones-Engel L**, Schutlz-Cherry S. (2015) Non-Human Primates Harbor Diverse Mammalian and Avian Astroviruses Including Those Associated with Human Infections. *PLoS Pathog* 11 (11), e1005225
- 67) KK Shanmuganatham, JC Jones, BM Marathe, MM Feeroz, **Jones-Engel L**, Walker D, Alam SMR, Hasan MK, McKenzie P, Krauss S, Webby RJ, Webster RG. (2016) The replication of Bangladeshi H9N2 avian influenza viruses carrying genes from H7N3 in mammals. *Emerg Microbes Infect* 5. E35
- 68) BJ Lenny, K Shanmuganatham, S Sonnberg, MM Feeroz, SMR Alam, **Jones-Engel L**, Walker D, Alam SMR, Hasan MK, McKenzie P, Krauss S, Webby RJ, Webster RG. (2016) Replication Capacity of Avian Influenza A (H9N2) Virus in Pet Birds and Mammals, Bangladesh. *Emerg Infect Dis* 21:2174-76
- 69) Marinova-Petkova A, Shanmuganatham K, Feeroz MM, **Jones-Engel L**, Hasan MK, Akhtar S, Turner J, Walker D, Seiler P, Franks J, McKenzie P, Krauss S, Webby RJ, Webster RG.(2016). The Continuing Evolution of H5N1 and H9N2 Influenza Viruses in Bangladesh Between 2013 and 2014. *Avian Dis*. 2016 May;60(1 Suppl):108-17. doi: 10.1637/11136-050815-Reg.
- 70) Klegarth AR, Ezeonwu CA, Rompis A, Lee BPY, Aggimarangsee N, Chalise M, Cortes J, Feeroz M, Molini BJ, Godornes BC, Marks M, Schillaci M, Engel G, Knauf S, Lukehart SA, **Jones-Engel L** (2017) Survey of Treponemal Infections in Free-Ranging and Captive Macaques, 1999-2012. *Emerg Infect Dis*. 23(5):816-819
- 71) Turner JC, Feeroz MM, Hasan MK, Akhtar S, Walker D, Seiler P, Barman S, Franks J, **Jones-Engel L**, McKenzie P, Krauss S, Webby RJ, Kayali G, Webster RG. (2017) Insight into live bird markets of Bangladesh: an overview of the dynamics of transmission of H5N1 and H9N2 avian influenza viruses. *Emerg Microbes Infect*.8;6(3):e12.
- 72) Klegarth AR, Hollocher H, **Jones-Engel L**, Shaw E, Lee BPY, Feeney T, Holmes D, Laguea D, Fuentes A. (2017) Urban primate ranging patterns: GPS-collar deployments for *Macaca fascicularis* and *M. sylvanus*. *Am J Primatol*. May;79(5).
- 73) Eberle R, **Jones-Engel L** (2017) Understanding Primate Herpesviruses. *J Emerg Dis Virol* 3(1): doi <http://dx.doi.org/10.16966/2473-1846.127>
- 74) Klegarth A, Sanders S, Gloss A, Lane-deGraaf K, **Jones-Engel L**, Fuentes A, Hollacher H. (2017). Investigating biogeographic boundaries of the Sunda Shelf: A Phylogenetic analysis of two island populations of *Macaca fascicularis* *Am J Phys Anthropol*. 2017 Aug;163(4):658-670. doi: 10.1002/ajpa.23235.
- 75) Jones-Engel L, Eberle R (2017) Herpesviruses of nonhuman primates. *The International Encyclopedia of Primatology*. Ed. Agustín Fuentes. JohnWiley & Sons, Inc. doi: 10.1002/9781119179313.wbprim0015
- 76) Barman S, Marinova-Petkova A, Hasan MK, Akhtar S, El-Shesheny R, Turner JC, Franks J, Walker D, Seiler J, Friedman K, Kercher L, Jeevan T, Darnell D, Kayali G, Jones-Engel L, McKenzie P, Krauss S, Webby RJ, Webster RG, Feeroz MM. (2017). Role of domestic ducks in the emergence of a new genotype of highly pathogenic H5N1 avian influenza A viruses in Bangladesh. *Emerg Microbes Infect*. 2017 Aug 9;6(8):e72. doi: 10.1038/emi.2017.60.
- 77) El-Shesheny R, Barman S, Feeroz MM, Hasan MK, **Jones-Engel L**, Franks J, Turner J, Seiler P, Walker D, Friedman K, Kercher L, Begum S, Akhtar S, Datta AK, Krauss S, Kayali G, McKenzie P, Webby RJ, Webster RG. (2017). Genesis of Influenza A(H5N8) Viruses. *Emerg Microbes Infect*. 2017 Aug 9;6(8):e72. doi: 10.1038/emi.2017.60
- 78) Eberle R, Maxwell LK, Nicholson S, Black D, **Jones-Engel L**. (2017) Genome Sequence Variation Among Isolates of Monkey B Virus (*Macacine alphaherpesvirus* 1) from Captive Macaques. *Virology*. 2017 Aug;508:26-35. doi: 10.1016/j.virol.2017.05.001.
- 79) Klegarth AR, Hollocher H, **Jones-Engel L**, Shaw E, Lee BPY, Feeney T, Holmes D, Laguea D, Fuentes A. (2017) Urban primate ranging patterns: GPS-collar deployments for *Macaca fascicularis* and *M. sylvanus*. *Am J Primatol*. 79(5). doi: 10.1002/ajp.22633.
- 80) Eberle R, **Jones-Engel L**. (2018). Questioning the Extreme Neurovirulence of Monkey B Virus (*Macacine alphaherpesvirus*). *Adv in Virol*. <https://doi.org/10.1155/2018/5248420>

- 81) Seiler P, Kercher L, Feeroz MM, Shanmuganatham K, **Jones-Engel L**, Turner J, Walker D, Alam SMR, Hasan MK, Akhtar S, McKenzie P, Franks J, Krauss S, Webby RJ, Webster RG. (2018). H9N2 influenza viruses from Bangladesh: Transmission in chicken and New World quail. *Influenza Other Respir Viruses*. 12(6):814-817. doi: 10.1111/irv.12589. Epub 2018 Sep 8
- 82) Luabeya AK, Wood RC, Shenje J, Filander E, Ontong C, Mabwe S, Africa H, Nguyen FK, Olson A, Weigel KM, **Jones-Engel L**, Hatherill M, Cangelosi J. (2019). Non-invasive detection of tuberculosis by oral swab analysis. *J Clin Microbio*. 57:e01847-18
- 83) Luabeya AK, Wood RC, Shenje J, Filander E, Ontong C, Mabwe S, Africa H, Nguyen FK, Olson A, Weigel KM, Jones-Engel L, Cangelosi J, Hatherill M. (In review). A novel approach to microbiological diagnosis of pulmonary tuberculosis in children by oral swab polymerase chain reaction. *Clin Inf Dis*.
- 84) Schillaci MA, Strickler CA, Lintlop J, Sumra M, Pizarro M, **Jones-Engel L**. (2019) Analysis of the relationship between hair cortisol and stable carbon and nitrogen isotope values in Barbary macaques (*Macaca sylvanus*) from Gibraltar. *Rapid Comm Mass Spec*. DOI: 10.1002/rcm.8413

### Books and Book Chapters

- 1) **Jones-Engel L**. (2002). Bidirectional pathogen transmission among humans and nonhuman primates on the Indonesian island of Sulawesi. *Dissertation Abstracts International*, A63(2), 649.
- 2) **Jones-Engel L**, Schillaci MA, Engel G. (2003). Interaction between humans and nonhuman primates. In: J Setchell, Curtis D, eds. *Field & Laboratory Methods in Primatology*. Cambridge: Cambridge University Press. pp 15-24.
- 3) **Jones-Engel L**, Schillaci MA, Engel G, Papatungan U, Froehlich J.W. (2005). Characterizing primate pet ownership in Sulawesi: implications for disease transmission. In J. Patterson and J. Wallis eds. *Commensalism and Conflict: The primate-human interface*. American Society of Primatology Publications. pp. 197-221.
- 4) **Jones-Engel L**, Engel G. (2009). The Risks and Contexts of Emerging Primate-borne Zoonoses. In *Health, Risk and Adversity*. Eds A. Fuentes and C. Panter-Brick. Berghahn Books, Oxford. pp.52-77.
- 5) Schillaci M, Engel G, Fuentes A, Rompis A, Putra A, Wandia IM, Bailey JA, Brogdon BG, **Jones-Engel L**. (2010). The Not-So-Sacred Monkeys of Bali: A Radiographic Study of Human-Primate Commensalism. In *Developments in Primatology: Progress and Prospects*. Eds. S Gursky and J Supriatna. Springer New York. pp. 249-256.
- 6) **Jones-Engel L**, Engel G, Fuentes A. (2011). An Ethnoprimateological Approach to Human-Nonhuman Primate Interactions. In: J Setchell and Curtis D, eds. *Field & Laboratory Methods in Primatology 2<sup>nd</sup> Ed.*. Cambridge: Cambridge University Press. pp 21-32.
- 7) Engel GA, **Jones-Engel L**. (2011). The role of *Macaca fascicularis* in infectious agent transmission. In: M. Gumert, Fuentes A and Jones-Engel L, eds. *Monkeys on the Edge*. Cambridge: Cambridge University Press. pp 183-204.
- 8) **Jones-Engel L**, Engel G, Gumert M, Fuentes A. (2011). Developing sustainable macaque communities. In: M. Gumert, Fuentes A and **Jones-Engel L**, eds. *Monkeys on the Edge*. Cambridge: Cambridge University Press. pp 295-327.
- 9) Gumert MD, Fuentes A, Engel G, **Jones-Engel L**. (2011). Future directions for research and conservation of long-tailed macaque populations. In: M. Gumert, Fuentes A and Jones-Engel L, eds. *Monkeys on the Edge*. Cambridge: Cambridge University Press. pp 328-353.
- 10) Engel G.A., **Jones-Engel L**. (2011). The role of *Macaca fascicularis* in infectious agent transmission. In: Gumert M., Fuentes A. & **Jones-Engel L**, eds. *Monkeys on the Edge*. Cambridge: Cambridge University Press, pp 183-204.
- 11) Gumert, MD, Fuentes A, **Jones-Engel, L**. (2011). *Monkeys on the Edge: Ecology and Management of Long-tailed Macaques and their Interface with Humans*. Cambridge University Press.
- 12) Klegarth AR, Fuentes A, Jones-Engel L, Marshall G, Abernathy K. *In press*. The ethical implications, and practical consequences, of attaching remote telemetry apparatus to macaques. In: Shaffer CA, Dolins F, Hickey JR, Nibbelink NP, Porter L, editors. *GPS and GIS for primatologists: A practical guide to spatial analysis*. Cambridge University Press: Cambridge.
- 13) Jones-Engel, L. 2017. Characterizing Simian Foamy Virus Transmission in Bangladesh. In: Dore K, Riley E, Fuentes A, editors. *Ethnoprimateology: A Practical Guide to Research at the Human-Nonhuman Primate Interface*. Cambridge University Press, Cambridge



- 14) Knauf S, Jones-Engel, eds. In prep. *Neglected Tropical Diseases in Nonhuman Primates*. Edited volume. Springer.
- 15) Eberle R, Jones-Engel L. (In review) Low Incidence, High Lethality or Higher Incidence, Lower Lethality: What We Know and Don't Know About Macacine alphaherpesvirus 1 (Monkey B Virus). In *Neglected Diseases in Monkeys: From The Monkey-Human Interface To One Health*. Eds Knauf and Jones-Engel. Springer.

### Other Publications

- 1) McCann C., Buchanan-Smith H.M., Farmer K., Fitch-Snyder H., **Jones-Engel L.**, Prescott M.J., Taylor S. (2007). *IPS International Guidelines for the Acquisition, Care and Breeding of Nonhuman primates*, 2nd Ed. Captive Care Committee, International Primatological Society.  
[http://www.marmosetcare.com/downloads/IPS\\_InternationalGuidelinesfortheAcquisitionCareandBreedingofNonhumanPrimates\\_2ndEdn\\_2007.pdf](http://www.marmosetcare.com/downloads/IPS_InternationalGuidelinesfortheAcquisitionCareandBreedingofNonhumanPrimates_2ndEdn_2007.pdf)
- 2) *International Encyclopedia of Primatology* (2017). A. Fuentes Ed. L. Jones-Engel Associate Editor for "Diseases". Wiley Blackwell. 1608 pages

### SELECTED INVITATIONAL PRESENTATIONS

- 1) "Where they Walk Monkeys Dance: Our Complex relationship with Macaques". Department of Veterinary Pathobiology, Center for Veterinary Health Sciences, Oklahoma State University. June 2018
- 2) "Treponemal Infections in Macaques: Nothing to See Here". Max Planck Institute Goettingen, Germany June 2018
- 3) "Macaques, Our Simian Super Heroes". MisCon. Missoula, MT May 2018
- 4) "Familiarity Breeds Contempt: The Sacrifice of Rhesus and Long-tailed Macaques" Radcliffe Exploratory Seminar: Beyond the Trope of Sacrifice (March 2017)
- 5) "The Lies that Scars Tell". CSDE (March 2017)
- 6) "The Lies that Scars Tell: SFV in Bangladesh" IPS (June 2016)
- 7) "Macaques in the Sanctuary". NAPSA 2016 Workshop
- 8) "One Health: Animals, Humans and the Environment". UW Mini-Med School (March 2015)
- 9) "Synanthropic Primates and Disease Risk: A Monkey at Hand vs Two in the Bush" Presented at the University of California Davis colloquium lecture. Davis, CA (March 2013)
- 10) "The Making of Team Monkey" Presented at AA Science Platform Program Workshop. Kyoto University Primate Research Institute, Nagoya, Japan (November 2012)
- 11) "Synanthropy and Disease Risk: Human-Primate Interface in Asia" Presented at AA Science Platform Program Workshop. Kyoto University Primate Research Institute, Nagoya, Japan (November 2012)
- 12) "Synanthropic Primates and Disease Risk in Asia" Presented at Pathology/Microbiology Basic Sciences Seminar Series. University of Nebraska (May 2010)
- 13) "Synanthropy and Disease Risk in Asia: Malaria, Tuberculosis, Enteroviruses, and Simian Retroviruses" Presented at the Institute of Arctic Biology Life Sciences Seminar Series. University of Alaska at Fairbanks (April 2010).
- 14) "Infectious Agent Transmission at the Human-Primate Interface" Presented at the Symposium on ex situ Conservation of Orang Utan, Perak, Malaysia (March 2009).
- 15) "Synanthropic Primates and Disease Risk in Asia" Presented for the University of Washington, Division of Allergy and Infectious Diseases (July 2008).
- 16) "People, Primates and Pathogens: The Evolution of a Global Emergency and the Future of Conservation and Public Health Efforts" Presented at the School of Evolution and Social Change: Arizona State University (May 2008).
- 17) "Cross-Species Transmission of Enteroviruses in Bangladesh: Host Switches Within an Ecological Context?" Presented at Division of Microbiology and Infectious Diseases, NIAID 2008 International Research in Infectious Diseases (May 2008).
- 18) "Human-Primate Interface: Where are the 'Hot Spots'?" Presented at Council for the Advancement of Science Writing- 45th Annual New Horizons in Science (October 2007).
- 19) "Keeping the Monkeys off Your Back." Presented at the 10<sup>th</sup> Annual Council for the International Society of Travel Medicine, Vancouver, Canada (June 2007).

- 20) “Primate to Human Retroviral Transmission in Asia” Presented at the 14<sup>th</sup> International Symposium on HIV and Emerging Infectious Diseases, Toulon, France (June 2006)
- 21) “Bi-directional Pathogen Transmission Between Humans and Primates: Implications for Global Health and Primate Conservation. Presented for the University of Washington, Department of Pathobiology (May 2006)
- 22) “Characterizing Enterovirus Transmission Between Humans and Primates in Bangladesh” Presented at Division of Microbiology and Infectious Diseases, NIAID 2006 International Research in Infectious Diseases (May 2006).
- 23) “Adversity and Risk at the Human-Primate Interface” Presented at the Wenner Gren conference on Health, Risk, And Adversity: A New Synthesis From Biological Anthropology. Durham, UK (March 2006).
- 24) “Bi-directional Pathogen Transmission Between Humans and Primates in Asia.” Presented at University of Toronto at Scarborough (February 2006).
- 25) “Factors that Influence Human-Primate MTb Transmission in Asia.” Presented at Arizona State University (November 2005).
- 26) “The Evolution of Team Monkey.” Presented at department of Veterinary Pathobiology Oklahoma State University (December 2005).
- 27) “Primate Zoonoses in Asia” Presented at the Risk Analysis Workshop Lincoln Park Zoo, Chicago (March 2003).
- 28) “Applications of Non-Human Primates in Biotechnology for Conservation and Medical Research” Presented at Bogor University, Indonesia (July 2002).

### SELECTED MEDIA COVERAGE

- » [One Chimp’s Journey to Sanctuary](#). Project Chimps 2018
- » [The missing link: The key to eliminating disease may require a holistic approach to treatment](#). UW Daily 2017
- » [Monkey saves a life-](#) World’s Weirdest Events Episode 1 BBC TWO 2016
- » [Science looks before viruses leap: What a semi-nomadic ethnic group and their performing monkeys can teach us about how viruses jump from animals to humans](#). FredHutch News 2015
- » [Human diarrhea virus could mix and match in monkeys](#). Science Mag 2015
- » [One Health: Animals, Humans and the Environment](#). UW Mini-Medschool 2015
- » [The Lies that Scars Tell](#). The Scientist 2015
- » [From the mouths of monkeys: New technique detects TB](#). UW News 2012