**Jonathan H. Epstein DVM, MPH,**

**Cert. International Vet. Med.**

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**Date of Preparation:** March 2015

**Personal Data:**

Name Jonathan H Epstein

Date of Birth September 9, 1974

Birthplace

Citizenship USA

**Academic Appointments/Work Experience**

06/2003 – Present **EcoHealth Alliance** New York, NY

*Associate Vice President, Conservation Medicine*

2003 – Present **Department of Ecology, Evolution, Env. Biology** New York, NY

**Columbia University**

*Adjunct Professor*

2003 – Present **Department of Infectious Disease & Global Health** Grafton, MA

**Cummings School of Vet Medicine at Tufts University**

*Adjunct Clinical Associate Professor*

2007 – Present **Tufts University School of Medicine** Boston, MA

*Adjunct Clinical Associate Professor*

2008 – Present **Department of Medicine, Mt Sinai School of Medicine** New York, NY

*Adjunct Associate Professor*

2014 – Present **Center for Health and Global Environment, Harvard University** Cambridge, MA

*Scientific Advisor*

2006 – 2011 **Department of Epidemiology, Columbia University** New York, NY

*Adjunct Associate Research Scientist*

**Training Experience**

2002 – 2003 **Ocean State Veterinary Specialist** East Greenwich, RI

*Intern/Staff Doctor,* 24-hr emergency and referral hospital

2002 **Centers for Disease Control and Prevention: NCID** Atlanta, GA

**Viral and Rickettsial Diseases Department**

*Extern*

**Education**

Present **Kingston University, Biology Sciences** United Kingdom

Candidate, PhD Disease Ecology

2006 – 2011 **Columbia University, Center for Infection and Immunity** New York, NY

Post-doctoral research fellowship, molecular virology

2002 **Tufts University School of Veterinary Medicine** North Grafton, MA

DVM, Certificate in International Veterinary Medicine

2002 **Tufts University School of Medicine** Boston, MA

Master of Public Health

1996 **Brandeis University** Waltham, MA

Bachelor of Arts in Biology

06/1995 – 12/1995 **University of Queensland** Queensland, Australia

Dept. of Veterinary Science, Dept. of Zoology

**Honors**

2014 **Commencement speaker,** Tufts University Medical School Graduate Programs in Public Health

2013 Names one of the ten “**Distinguished Alumni**” by Tufts University School of Medicine

2012 **Young Alumni Achievement Award**, Tufts University

2007 **Outstanding Alumnus Award**, Tufts Cummings School of Veterinary Medicine

10/2006 **Delta Omega Honor Society**, Tufts University School of Medicine Alpha Rho Chapter

Graduate Programs in Public Health (1st alumni inductee; 1st keynote speaker)

2002 **Certificate in International Veterinary Medicine**, Tufts University School of Veterinary Medicine (1st recipient)

2002 **Sylvia Mainzer Public Health Award**

For outstanding achievement in the field of public health

2002 **Hill’s “Buddy” Award** for Excellence in Clinical Nutrition

For excellence in clinical veterinary nutrition

**Professional Organizations, Societies and Service**

1998 – Present Member: American Veterinary Medicinal Association, American Association of Zoo Vets, Wildlife Disease Association, New York Academy of Sciences,

2003 – Present Appointed Member, **IUCN Animal Health Specialist Group**

2004 *Invited speaker*, WHO, Emerging Zoonotic Diseases Working Group meeting; Merieux Foundation Conference on Emerging Viral Respiratory Pathogens; Swiss Re Executive Roundtable on Emerging Diseases; Royal Swedish Academy of Forestry and Agriculture: Ecology of Henipaviruses; Swedish University of Agricultural Sciences: Disease Emergence

2006 – Present **Research Fellow**, Center for Infection and Immunity (Lipkin lab), Columbia University; **Member, IUCN Bat Specialist Group**; Advisory committee, Suffolk Country Board of Public Health; **Delta Omega Public Health Honors Society**, International Assoc. Ecology and Health

2007 – Present Leader, Vertebrate Health Task Force, Smithsonian Institution Geological Earth Observatory Program

2007 – Present Veterinary consultant, Busch Gardens, Tampa, FL

2008 Invited speaker, University of Malaysia, Sarawak – Emerging zoonoses

2008 – Present Review Editor - *EcoHealth*

2008 – Present Scientific Program Committee and Scholarship Review Committee, International Ecohealth Forum, 2008 conference, Merida, Mexico

2008 Invited lecturer, Mt. Sinai Medical College, NY; U. Minn. Sch. Pub Health, Minneapolis, MN.

2008 Testified, **Institute of Medicine** / Nat’l Research Council Committee on Global Surveillance of Emerging Zoonoses

2008 Invited speaker, University Malaya Nipah virus colloquium, Oct 2008 Malaysia;

Nipah virus symposium, Amer. Soc. Trop. Med. & Hyg.

2009 Invited, WHO/OIE/FAO joint workshop on Nipah, Hendra, and Ebola Reston viruses, Maroochydore, Aus.

2010 Invited Speaker, International Bat Research Conference, Prague, Czech Republic; Wuhan Institute of Virology, Wuhan China; Amer. Soc. Trop. Med & Hygiene, Atlanta, GA.

2011 Member, Admissions & Curriculum Committee, Masters in Conservation Medicine, Tufts; Testified at Congressional briefing for National Wildlife Health Center

2012 Member, **Scientific Advisory Board**, Lubee Bat Conservancy; Member, **Executive Board**, International Association for Ecology and Health

2013 Invited speaker: Georgetown Symposium on emerging Zoonoses; **Planning Committee**, ASM Microbial Threats 2014; Invited speaker **IOM forum on Microbial Threats** (MERS CoV); NIAID meeting on MERS; Cold Spring Harbor Laboratory President’s Council Program, New York, National One Health Meeting, Bangladesh; Public health consultation: San Antonio, TX, City Dept. of Health

2014 Co-Chair, ASM Microbial Threats Plenary session on viral encephalitides; Treasurer: International Association of Ecology and Health; Science Advisor: Center for Health and the Global Environment, Harvard University

**Departmental & University Committees**

* Admissions Committee, Tufts University Masters in Conservation Medicine program
* Scientific Planning Board, ASM Microbial Threats

**Fellowship and Grant Support**

2005New York Community Trust: Health implications of the US Trade in wildlife (Co-PI). **$60,000**

2005 NIH Loan Repayment award (Nipah virus research) 2005-2012. (PI): **$156,000**

2007 – 2011 NIH NIAID Mentored Clinical Scientist Award (K08AI067549) (PI) 07/1/07 – 07/30/11. **$523,800**

2006 Conservation, Food & Health Foundation (Daszak). Preventing food-borne Nipah virus infection in Bangladesh. (Co-PI) $**25,000**

2007 Zoonotic Emergence Network, Malaysia (subcontract from NIH Pioneer Award DP1-OD00370; N. Wolfe, UCLA.) **$150,000**

2008 Conservation Food and Health (PI) **$25,500**

NIHNIAID 5R01AI079231 (Daszak). Non-Biodefense EIDs: Risk of viral emergence from bats. 09/18/08 – 08/31/13 (Co-PI) **$2,687,394**

NIH/NSF 2R01TW005869 (Daszak). Ecology of Infectious Diseases: Ecology, emergence and pandemic potential of Nipah virus in Bangladesh (Daszak). 09/01/08 – 06/30/14 (Co-PI) **$2,498,829**

UCLA: subcontract from Nathan Wolfe’s Director’s Pioneer Award NIH DP1-OD00370) for wildlife hunter viral discovery in China and Malaysia. **$225,179** (Co-PI)

Rockefeller Foundation: Viral discovery in Bangladesh and India (Daszak, PI) (Co-PI) **$349,910**

2009 USAID Emerging Pandemic Threats: PREDICT GHN-A-00-09-00010-00 (Morse, PI) (Senior Personnel, EHA Asia Regional Coordinator) **$75,000,000 ($18,000,000** subaward to EHA from UC Davis) 10/1/09-09/30/14

2010 NSF Research Coordination Network, EcoHealthNet #0955897 (Daszak). 07/01/10-06/30/15. (Co-PI, Program Director) **$499,000**

2012 USFWS F12AP01117. Development of a Great Ape Health Unit in Sabah, Malaysia 09/13/12 - 09/13/14. (PI) **$44,000**

USFWS 4500036150. Characterization of Climatic Parameters within Bat Hibernacula, their Influence on Environmental Loads of *Geomyces destructans*, and Implications for the Migration of White-Nose Syndrome in Bats. 09/15/12 - 09/14/14 (PI) **$137,475**

2013 USAID Infectious Disease Emergence and Economics of Altered Landscapes (IDEEAL) 10/1/2013 – 9/30/2016 (Daszak, PI) (Senior Personnel: Stakeholder Coordination Lead). **$2,000,000**

2014 USAID Emerging Pandemic Threats: PREDICT2 (Mazet, PI) 10/1/14-09/30/19. **$100,000,000 ($20,000,000** subaward to EHA from UC Davis) (Senior Personnel, EHA Outbreak Coordinator)

NIH NIAID 1R01AI110964. Understanding the Risk of Bat Coronavirus Emergence 06/01/2014 – 05/31/2019. (Daszak PI). $3,086,735. (Co-PI)

Teaching Experience and Responsibilities

* Lecturer, (Harvard Univ., Columbia Univ., Brown Univ., Tufts Univ., Mt. Sinai School of Medicine)
* Train/Build capacity of foreign graduate students, collaborators, and labs

**Publications**

*In review*

 Molecular evidence of Ebola Reston virus infection in Philippine bats. Sarah Jayme, Hume E. Field, Carol de Jong, Kevin J. Olival, Glenn Marsh, Anson Tagtag, Tom Hughes, Anthony Bucad, Jennifer Barr, Rachel Azul, Lilia Retes, Adam Foord, Meng Yu, Magdalena Cruz, Imelda Santos, Davinio Catbagan, Mundita Lim, Carolyn Benigno, Jonathan H. Epstein, Lin-Fa Wang, Peter Daszak and Scott Newman. *PLoS Pathogens*

***Macacine Herpesvirus 1* (B virus) in Wild-caught Long-Tailed Macaques (*Macaca fascicularis*) Following Capture and Transport in Malaysia.** Mei-Ho Lee, Melinda K. Rostal, Tom Hughes, , Frankie Sitam, Chee-Yen Lee, Jeffrine Japning, Mallory E. Harden, Anthony Griffiths, Misliah Basir, Nathan Wolfe, Jonathan H. Epstein\*, and Peter Daszak. *Emerging Infectious Diseases*

*In Press*

**Serological evidence of *Coxiella burnetii* infection in cattle and goats in Bangladesh.**

**Najmul Haider**, Md. Shafiqur Rahman, M. Salah Uddin Khan, Andrea Mikolon, Muzaffor Goni Osmani, Emily S. Gurley, Ireen Sultana Shanta,Suman Kumer Paul, Laura Macfarlane-Berry, Ariful Islam, Ausraful Islam, James Desmond, Jonathan H. Epstein, Peter Daszak, Rachael A. Priestley, Gilbert J. Kersh, Stephen P Luby, Mohammed Ziaur Rahman, Robert F. Massung, Nord Zeidner. *EcoHealth*

*Published* (includes high impact journals *Science, Nature, Cell, PNAS and PLoS Pathogens*)

1. Mandl Judith N, Ahmed R, Barreiro Luis B, Daszak P, Epstein Jonathan H, Virgin Herbert W, et al. Reservoir Host Immune Responses to Emerging Zoonotic Viruses. ***Cell.***  160(1):20-35. 10.1016/j.cell.2014.12.003
2. Chowdhury S, Khan SU, Crameri G, Epstein JH, Broder CC, et al. (2014) Serological Evidence of Henipavirus Exposure in Cattle, Goats and Pigs in Bangladesh. ***PLoS Negl Trop Dis.*** 8(11): e3302. doi:10.1371/journal.pntd.0003302
3. Plowright, Raina; Eby, Peggy; Hudson, Peter; Smith, Ina; Westcott, David; Bryden, Wayne; Middleton, Deborah; Reid, Peter; McFarlane, Rosemary; Martin, Gerardo; Tabor, Gary; Skerratt, Lee; Anderson, Dale; Crameri, Gary; Quammen, David; Jordan, David; Freeman, Paul; Wang, Lin-Fa; Epstein, Jonathan; Marsh, Glenn; Kung, N.; McCallum, Hamish. Ecological Dynamics of Bat Virus Spillover.  ***Proc. R. Soc. B*** *282: 20142124. http://dx.doi.org/10.1098/rspb.2014.2124*
4. Ben Hu, Aleksei A. Chmura, Jialu Li, Guangjian Zhu, James S. Desmond, Yunzhi Zhang, Wei Zhang, Jonathan H. Epstein, Peter Daszak, and Zhengli Shi. **Detection of diverse novel astroviruses from small mammals in China *J. Gen. Virol***. 2014 : vir.0.067686-0v1-vir.0.067686-0.
5. Jessica S Schwind, Tracey Goldstein, Kate Thomas, Jonna AK Mazet, Woutrina A Smith\* and PREDICT Consortium. Capacity building efforts and perceptions for wildlife surveillance to detect zoonotic pathogens: comparing stakeholder perspectives. 2014. ***BMC Public Health*** 14:684.
6. Alagaili AN, Briese T, Mishra N, Kapoor V, Sameroff SC, de Wit E, Munster VJ, Hensley LE, Zalmout IS, Kapoor A, Epstein JH, Karesh WB, Daszak P, Mohammed OB, Lipkin WI. 2014. Middle East respiratory syndrome coronavirus infection in dromedary camels in Saudi Arabia. ***mBio*** 5(2):e00884-14. doi:10.1128/mBio.00884-14.
7. Haider, N., Rahman, M. S., Khan, S. U., Mikolon, A., Gurley, E. S., Osmani, M. G., Shanta, I. S., Paul, S. K., Macfarlane-Berry, L., Islam, A., Desmond, J., Epstein, J. H., Daszak, P., Azim, T., Luby, S. P., Zeidner, N. and Rahman, M. Z. (2014), Identification and Epidemiology of a Rare HoBi-Like Pestivirus Strain in Bangladesh. ***Transboundary and Emerging Diseases***, 61: 193–198. doi: 10.1111/tbed.12218
8. Yuan, L.; Li, M.; Li, L.; Monagin, C.; Chmura, A.A.; Schneider, B.S.; Epstein, J.H.; Mei, X.; Shi, Z.; Daszak, P.; Chen, J. Evidence for Retrovirus and Paramyxovirus Infection of Multiple Bat Species in China. **Viruses** 2014, 6, 2138-2154.
9. Hahn, M. B., Epstein, J. H.\*, Gurley, E. S., Islam, M. S., Luby, S. P., Daszak, P. & Patz, J. A. Roosting behaviour and habitat selection of Pteropus giganteus reveals potential links to Nipah virus epidemiology. ***Journal of Applied Ecology***. doi:10.1111/1365-2664.12212 (2013).
10. Micah B. Hahn, Emily S. Gurley, Jonathan H. Epstein, Mohammad S. Islam, Jonathan A. Patz, Peter Daszak, and Stephen P. Luby. The role of landscape composition and configuration on *Pteropus* *giganteus* roosting ecology and Nipah virus spillover risk in Bangladesh. 2013 ***Amer. J Trop Med & Hyg.***
11. Ge X-Y, Li J-L, Yang X-L, Chmura AA, Zhu G, Epstein JH, Mazet JK, Hu B, Zhang W, Peng C, Zhang Y-J, Luo C-M, Tan B, Wang N, Zhu Y, Crameri G, Zhang S-Y, Wang L-F, Daszak P, Shi Z-L. (2013). First isolation and characterization of bat SARS-like Coronaviruses that use the ACE2 receptor. ***Nature*** doi:10.1038/nature12711
12. Carol de Jong, Hume Field, Anson Tagtag,Tom Hughes, Dina Dechmann, Sarah Jayme, Jonathan H. Epstein, Craig Smith, Imelda Santos, Davinio Catbagan, Mundita Lim, Carolyn Benigno, Peter Daszak, and Scott Newman. Foraging behaviour and landscape utilisation by the endangered Golden-crowned Flying fox (*Acerodon jubatus*), The Philippines. 2013. ***PLoS One*** DOI: 10.1371/journal.pone.0079665
13. Ausraful Islam, Andrea Mikolon, Matthew Mikoleit, Dilruba Ahmed, Salah Udddin Khan, M. A. Yushuf Sharker, Jahangir Hossain,Ariful Islam, Jonathan H. Epstein, and Stephen P. Luby. Isolation of Salmonella Virchow from a Fruit Bat (Pteropus giganteus). ***EcoHealth*** DOI: 10.1007/s10393-013-0866-y
14. Memish ZA, Mishra N, Olival KJ, Fagbo SF, Kapoor V**,** Epstein JH, et al. Middle East respiratory syndrome coronavirus in bats, Saudi Arabia. ***Emerg Infect Dis*** . 2013 Nov [date cited]. <http://dx.doi.org/10.3201/eid1911.131172> DOI:10.3201/eid1911.131172
15. Anthony SJ, Epstein JH, Murray KA, Navarrete-Macias I, Zambrana-Torrelio CM, Solovyov A, Ojeda-Flores R, Arrigo NC, Islam A, Ali Khan S, Hosseini P, Bogich TL, Olival KJ, Sanchez-Leon MD, Karesh WB, Goldstein T, Luby SP, Morse SS, Mazet JAK, Daszak P, Lipkin WI. 2013. A strategy to estimate unknown viral diversity in mammals. ***mBio*** 4(5):e00598-13. doi:10.1128/mBio.00598-13.
16. Epstein JH, Baker ML, Zambrana-Torrelio C, Middleton D, Barr JA, et al. (2013) Duration of Maternal Antibodies against Canine Distemper Virus and Hendra Virus in Pteropid Bats. ***PLoS ONE*** 8(6): e67584. doi:10.1371/journal.pone.0067584
17. Wacharapluesadee S, Sintunawa C, Kaewpom T, 10 Khongnomnan K, Olival KJ, Epstein JH, et al. Group C betacoronavirus from bat guano 11 fertilizer, Thailand. ***Emerg Infect Dis*** [Internet]. 2013 Aug [*date cited*]. 12 http://dx.doi.org/10.3201/eid1908.130119
18. Quan, Phenix-Lan, Firth, C, Conte, J M, Williams, S.H., Zambrana-Torrelio, C.M., Anthony, S.J., Ellison, James A., Gilbert, A.T., Kuzmin, I.V., Niezgoda, M., Osinubi, M.O. V., Recuenco, S., Markotter, W., Breiman, R.F., Kalemba, L., Malekani, J., Lindblade, K.A., Rostal, M.K., Ojeda-Flores, R., Suzan, G., D., Lora B., Blau, D.M., Ogunkoya, A.B., Alvarez C., Danilo A., Moran, D., Ngam, S., Akaibe, D., Agwanda, B., Briese, T., Epstein, J.H., Daszak, P., Rupprecht, C.E., Holmes, E.C., and Lipkin, W.I. Bats are a major natural reservoir for hepaciviruses and pegiviruses. ***PNAS*** **doi:10.1073/pnas.1303037110**
19. Levinson J, Bogich TL, Olival KJ, Epstein JH, Johnson CK, Karesh W, et al. Targeting surveillance for zoonotic virusdiscovery. ***Emerg Infect Dis***. 2013. May.  DOI: 10.3201/eid1905.121042
20. Anthony, S.J, Ojeda-Flores, R; Rico-Chávez, O; Navarrete-Macias, I; Zambrana-Torrelio, C.M; Rostal, M.K; Epstein, J.H; Tipps, T; Liang, E; Sanchez-Leon, M; Sotomayor-Bonilla, J; Aguirre, A.A; Ávila, R; Medellín, R.A; Goldstein, T; Suzán, G; Daszak, P; Lipkin, W.I. Coronaviruses in bats from Mexico. ***J. Gen Virol*** doi:10.1099/vir.0.049759-0
21. Tiffany L. Bogich, Sebastian Funk, Trent R. Malcolm, Nok Chhun, Jonathan H. Epstein, Aleksei A. Chmura, A. Marm Kilpatrick, John,S. Brownstein, O. Clyde Hutchison, Catherine Doyle-Capitman, Robert Deaville, Stephen S. Morse, Andrew A. Cunningham, and Peter Daszak. Using network theory to identify the causes of disease outbreaks of unknown origin. 2013. ***J R Soc Interface*** 10: 20120904. http://dx.doi.org/10.1098/rsif.2012.090
22. Olival KJ, Islam A, Yu M, Anthony SJ, Epstein JH, Khan SA, et al. Ebola virus antibodies in fruit bats, Bangladesh. ***Emerg Infect Dis*.** 2013 Feb. http://dx.doi.org/10.3201/eid1902.120524
23. Rahman SA, Hassan L, Epstein JH, Hassan SS, Arshad S, Hughes T, et al. Risk factors for Nipah virus infection among pteropid bats, Peninsular Malaysia. ***Emerg Infect Dis***. 2013 Jan. <http://dx.doi.org/10.3201/eid1901.120221>
24. James L.N. Wood, Melissa Leach, Linda Waldman, Hayley MacGregor, Anthony R. Fooks, Kate Jones, Olivier Restif, Dina Dechmann, David T.S. Hayman, Kate S. Baker, Alison J. Peel, Alexandra O. Kamins, Yaa Ntiamoa-Baidu, Richard Suu-Ire, Rob Breiman, Jonathan H. Epstein, Andrew A. Cunningham. A framework for the study of zoonotic disease emergence and its drivers: spillover of bat pathogens as a case study. ***Phil. Trans. R. Soc****. B* October 19, 2012 367 2881-2892; doi:10.1098/rstb.2012.0228

#### Peter Daszak, Carlos Zambrana-Torrelio, Tiffany L Bogich, Miguel Fernandez, Jonathan H. Epstein, Kris A. Murray, and Healy Hamilton. Interdisciplinary approaches to understanding disease emergence: The past, present and future drivers of Nipah virus emergence. 2012. *PNAS* doi:10.1073/pnas.1201243109

1. Kristine M. Smith, Simon J. Anthony, William M. Switzer, Jonathan H. Epstein, Tracie Seimon, Hongwei Jia, Maria D. Sanchez, Thanh Thao Huynh, G. Gale Galland, Sheryl E. Shapiro, Jonathan M. Sleeman, Denise McAloose, Margot Stuchin, George Amato, Sergios-Orestis Kolokotronis, W. Ian Lipkin, MD, William B. Karesh, Peter Daszak, and Nina Marano. (2011). Zoonotic Viruses Associated with Illegally Imported Wildlife Products. ***PLoS ONE*** 7(1): e29505. doi:10.1371/journal.pone.0029505
2. **Epstein JH**\*, Zambriski JA, Rostal MK, Heard DJ, Daszak P. (2011) Comparison of Intravenous Medetomidine and Medetomidine/Ketamine for Immobilization of Free-Ranging Variable Flying Foxes (*Pteropus hypomelanus*). ***PLoS ONE*** 6(10):  e25361. doi:10.1371/journal.pone.0025361
3. Pulliam JR, Epstein JH, Dushoff J, Rahman SA, Meehan G, Bunning M, HERG, Jamaluddin AA, Hyatt AD, Field HE, Dobson AP & Daszak P. Agricultural intensification, priming for persistence, and the emergence of Nipah virus: a lethal bat-borne zoonoses. ***Journal of the Royal Society, Interface***. 2011. Doi:10.1098/rsif.2011.0223 (**journal’s most cited article in 2012**)
4. R. Sohayati, L. Hassan, S. H. Sharifah, K. Lazarus, C. M. Zaini, J. H. Epstein, N. Shamsyul Naim, H. E. Field, S. S. Arshad, J. Abdul Aziz and P. Daszak (2011). Evidence for Nipah virus recrudescence and serological patterns of captive Pteropus vampyrus. ***Epidemiology and Infection***. 139, pp 1570-1579 doi:10.1017/S0950268811000550
5. Kim Halpin, Alex D. Hyatt, Rhys Fogarty, Deborah Middleton, John Bingham, Jonathan H. Epstein, Sohayati Abdul Rahman, Tom Hughes, Craig Smith, Hume E. Field, Peter Daszak and the Henipavirus Ecology Research Group. Pteropid Bats are Confirmed as the Reservoir Hosts of Henipaviruses: A Comprehensive Experimental Study of Virus Transmission. ***Am J Trop Med Hyg*** 2011 85:946-951; doi:10.4269/ajtmh.2011.10-0567
6. Vandegrift, K.J.; Wale, N.; **Epstein, J.H**.\* (2011).An Ecological and Conservation Perspective on Advances in the Applied Virology of Zoonoses. **Viruses** 3*:*379-397.
7. Smith CS, **Epstein JH**, Breed AC, Plowright RK, Olival KJ, et al. (2011) Satellite Telemetry and Long-Range Bat Movements. ***PLoS ONE*** 6(2): e14696. doi:10.1371/journal.pone.0014696
8. Khan, S.A, Hassan, M.M., Uddin, M.B., Rahman, Z.M.M., Yasin, G., and **Epstein, J.H.** Caesarean of Lion (*Panthera leo*) at Dulahajra Safari Park, Bangladesh. (2011) ***Open Vet. J****.*  (1): 10-12.
9. Sohayati A. Rahman, Hassan,S.S, Olival, K.J., Mohamed, M., Chang, L-Y., Hassan, L., Suri, A.S., Saad, N.M., Shohaimi, S.A., Mamat, Z.C., **Epstein, J.H.,** Field, H.E., Daszak, P., and HERG. (2010) Genetic characterization of Nipah virus isolated from naturally infected *Pteropus vampyrus* in Malaysia. ***Emer. Infect. Dis****.* 16(12). DOI: 10.3201/eid1612.091790
10. **Epstein JH\*,** Quan P-L, Briese T, Street C, Jabado O, et al. (2010) Identification of GBV-D, a Novel GB-like Flavivirus from Old World Frugivorous Bats (*Pteropus giganteus*) in Bangladesh. ***PLoS Pathogens*** 6(7): e1000972. doi:10.1371/journal.ppat.1000972
11. N. Homaira, M. Rahman, M. J. Hossain, J. H. Epstein, R. Sultana, M.S.U Khan, G. Podder, K. Nahar, E. S. Gurley, P. Daszak, W. I. Lipkin, P. E. Rollin, J. A. Comer, T. G. Ksiazek, S. P. Luby. Nipah outbreak with person-to-person transmission in Thakurgaon, Bangladesh 2007. Epidemiology and Infection (Journal of Epidemiology and Infection). 2010 ***Epidemiol. Infect.****,*138 (11) 1630-6.
12. **Epstein, J.H.\*** and J. Price.The Significant but Understudied Impact of Pathogen Transmission from Humans to Animals. ***Mt Sinai J Med***. 2009; 76(5):448-55.
13. **Epstein J.H.**\*, Olival KJ, Pulliam JRC, Smith C, Westrum J, Hughes T, et al. *Pteropus vampyrus*, a hunted migratory species with a multinational home-range and a need for regional management. ***Journal of Applied Ecology***. 2009 Oct;46(5):991-1002.
14. M M Hassan, S A Khan, Jonathan H. Epstein, M M M Chowdhury and S K M A Islam. (2009). Clinico-pathological findings of a Royal Bengal tiger (*Panthera tigris*)- A Case report. *Intas Polivet*. Vol. 10, No. I: 111-112.
15. Kaufman, G.E., **J.H. Epstein**, J Paul-Murphy, and J.D. Modrall. Designing graduate training programs in conservation medicine - producing the right professionals with the right tools.  2008. ***EcoHealth*** vol 5. Pp. 519-27
16. Sohayati, A.R., Latifah, H., Zaini, C.M., Epstein, J.H., Daszak, P., and Sharifah, S.H. Ketamine and Xylazine combination for short-term immobilization of wild variable flying fox (*Pteropus hypomelanus*). ***J. Zoo and Wildl. Med****.* 2008. 39(4). 674-6.
17. **Epstein, J.H.**, Prakash, V., Smith, CS., Daszak, P., McLaughlin, AB., Meehan, G., Field, HE., and Cunningham, AA.Evidence for Henipavirus infection in Indian *Pteropus giganteus* (Chiroptera; Pteropodidae) fruit bats 2008. ***Emer. Infect. Dis****. 20(8).*
18. Shirai J, Sohayati AL, Daszak P, Epstein JH, Field HE, Westrum JP, Mohamed Ali AL, Suriani MN, Taniguchi T, and Sharifah SH (2007). Nipah virus survey of flying foxes in Malaysia. **JARQ - Japan Agricultural Research Quarterly** 41:69-78 See Corrigendum:  *JARQ - Japan Agricultural Research Quarterly*(2008) 42:77
19. Daszak, P., **Epstein, J.H**., Kilpatrick, A.M., Aguirre, A.A., Karesh, W.B. & Cunningham, A.A. Collaborative research approaches to the role of wildlife in zoonotic disease emergence. In: *Wildlife and Emerging Zoonotic Diseases: The Biology, Circumstances, and Consequences of Cross-Species Transmission.* Eds. Childs, J.E., J.S. MacKenzie and J.A. Richt*. Current Topics in Microbiology and Immunology***.** 2007.Pp.463 – 475.
20. Field, H.E., Wang, L.F., Zhang, S., Daszak, P., Smith, C.S., Epstein, J.H., Shi, Z. Searching for the natural reservoir of the SARS virus. ***Preventive Veterinary Medicine.*** 81(1-3): 216-216 Sp. Issue. SI, Sep 14, 2007.
21. McLaughlin, A.B., **Epstein, J.H.\***, Prakash, V., Smith, C.S., Daszak, P., Field, H.E., and Cunningham, A.A. Plasma Biochemistry and hematologic values for wild-caught flying foxes (*Pteropus giganteus*) in India. ***Journal of Zoo and Wildlife Medicine****.* 2007. 38 (3). Pp. 446-452.
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8. ***Sustaining Life: How Human Health Depends on Biodiversity.* (2008).** Chivian and Bernstein (Eds). Oxford Univ. Press*.* Contributing author *–* Chapter 7,Nipah virus section.
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**INVITED PRESENTATIONS**

1. **An EcoHealth Approach to Disease Surveillance.** Wildlife Disease Association. New Mexico, July 2014
2. **The Ecology of Nipah virus in Bats.** Infectious Diseases of Bats Symposium, Colorado State University June 25-28, 2014
3. **Investigating the ecology and animal origins of MERS-CoV**. Briefing to the Institutes of Medicine (IOM) Forum on Microbial Threats. March 18 2014
4. **Understanding the Ecology of Emerging Zoonoses: How We Can Prevent Global Pandemics.** Cold Spring Harbor Laboratory President’s Council Program on Infectious Diseases & Viruses September 27 – 28, 2013
5. **Update: Middle East Respiratory Syndrome.** Briefing to the Institute of Medicine Forum on Microbial Threats. Washington, DC. March 2013.
6. **Understanding the ecology of Nipah virus in frugivorous bats in Bangladesh.** The International Meeting on Emerging Diseases, Vienna, Austria. Feb 2013.
7. **Update: Middle East Respiratory Syndrome.** The International Meeting on Emerging Diseases, Vienna, Austria. Feb 2013.
8. **One Health: Recognizing How Human and Wildlife Health are Connected (Symposium). Understanding How Human Activities Trigger the Emergence of Wildlife Zoonoses.** Society for Conservation Biology July 2012.
9. ***The Human Hand and Disease Emergence: Why Ebola, Nipah and SARS Outbreaks Are Our Fault.*** The Scripps Howard Institute on the Environment and Science at Florida Atlantic University. May 21, 2012.
10. **Using targeted Wildlife surveillance to PREDICT Emerging Zoonoses.** 10th ASM Biodefense and Emerging Infectious Diseases Research Meeting, Washington DC. Feb 2012.
11. **Assessing the Impact of Hunting on *Pteropus vampyrus* in Peninsular Malaysia.** Invited presentation. Epstein, Jonathan H1, Pulliam, Juliet2, and Olival, Kevin. International Bat Research Symposium, Prague, Czech Republic, August, 2010
12. **Using satellite telemetry to assess movement patterns of *Pteropus* spp.** Invited presentation.  
    Epstein Jonathan H, Smith Craig S, Breed Andrew, Plowright Raina, Field Hume E, Daszak Peter. International Bat Research Conference, Prague, Czech Republic, August, 2010
13. **Jonathan Epstein. Understanding the Ecology of Nipah Virus.** Invited presentation, Nipah virus Symposium. American Society of Tropical Medicine and Hygiene. Atlanta, GA. Nov, 2010
14. **Understanding the Dynamics of Nipah Virus in Bats.** Invited presentation.Jonathan H. Epstein, Sohayati Abdul Rahman, Shahneaz Ali Khan, A. Marm Kilpatrick, Kevin Olival, Hume Field, Stephen Luby, and Peter Daszak. Wuhan Institute of Virology, Wuhan, China. Nov 2010.
15. **Nipah virus ecology in bats in Bangladesh.** WHO/OIE/FAO Joint workshop on Nipah, Hendra, and Ebola Reston viruses. Maroochydore, Australia. Oct 2009
16. **Nipah virus in Pteropus bats in Malaysia and Bangladesh.** IEDCRConference on Emerging threats to Bangladesh. Jan 27-28, 2008. Dhaka.
17. **The Ecology of Nipah virus in its natural reservoir, *Pteropus* bats, in Malaysia.** Presented at the University of Malaysia, Sarawak. Jan 2008. Kuching, Malaysia
18. **Understanding the Ecology of Nipah Virus in *Pteropus* Bats.** Presented to veterinary and zoo staff. Busch Gardens, Tampa, FL. Nov. 2007.
19. **Conservation Medicine: A Multidisciplinary Approach to Understanding the Emergence of Infectious Diseases.** 1st Inaugural keynote lecture, Delta Omega Honors Society, tufts University (Alpha Rho) Chapter. Oct 12, 2006.
20. **Environmental change an Emerging Zoonotic Diseases,** Suffolk County Dept. of Public Health. May 9, 2006.
21. **Bats as reservoirs for zoonotic diseases: Nipah virus and SARS,** NIH/NSF Ecology of Infectious Disease meeting. Washington, DC. December 16, 2005
22. **Human Health and the Environment: an Ecological Perspective,** Brandeis University. Waltham, MA. 11/7/2005
23. **The veterinarian’s role in public health: understanding the emergence of zoonotic diseases.** The Swedish University of Agricultural Sciences. Uppsala, Sweden. November 19th, 2004.
24. **Understanding the ecology of emerging zoonotic pathogens.** The Royal Swedish Academy of Agriculture and Forestry. Meeting on Emerging Infectious Diseases. Stockholm, Sweden. November 18, 2004.
25. **Climate change and its role in disease emergence: Nipah virus as a case study,** Ruschlikon Executive Roundtable: “Climate change futures: Health, Ecological and Economic Dimensions” Zurich, Switzerland, June 2-4, 2004
26. **The Complexities and challenges of seeking zoonotic agents in wildlife,** World Health Organization’s “Consultation on Emerging Zoonotic Diseases” Geneva, Switzerland, May 2, 2004
27. **Understanding the ecology of Nipah and Hendra viruses: a conservation medicine approach to public health.** Emerson Hospital Grand Rounds (CE). Concord, MA April 27, 2004.

**REPORTS**

1. **Report to the City of San Antonio, Texas: Potential Health Risks to People and Animals in a Planned Community near Bracken Cave, Comal County, Texas.**
2. **Climate Change Futures, Health Economic, and Ecological Dimensions: A Project of the Center for Health and the Global Environment, Harvard Medical School. (**contributing author**)** Edited by Paul Epstein and Evan Mills. Sponsored by the United Nations Development Program and Swiss Re. Sept, 2005.
3. **Epstein, Jonathan.** A feasibility study for the re-introduction of the Mountain Bongo (*Tragelaphus eurycerus isaaci)* to the Mt. Kenya National Forest. Submitted to the Bill Woodley Mount Kenya Wildlife Trust. July 2002.
4. **Epstein, Jonathan**. Ibis Management Program: Special Report - Determining the Health Status of Coastal Wild Ibis and Assessing the Potential for Disease Transmission to People and Other Animals. *S*ubmitted to the Ibis Management Coordination Group (IMCG), Queensland, Australia. February, 2001.