

**John A. Lednicky, Ph.D.**

Associate Professor

Environmental and Global Health,

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**EDUCATION:**

Ph.D., Microbiology, University of Texas-Austin, 1991, - Molecular-Genetic Analysis of the SV40 Upstream Promoter Elements

M.S., Microbiology, University of Missouri-Kansas City, 1984

B.S., Microbiology, University of Miami, Miami, Florida, 1978

**AWARDS:**

- Dean's List, University of Miami, 1975, 1976, 1978
- Honor Society Membership, Phi Kappa Phi, 1986
- McKinney Lewis Fellowship, University of Texas at Austin, 1987
- Eklund Award for Excellence in Teaching, Dept. Microbiol., University of Texas at Austin, 1988
- Delta Omega Honorary Society in Public Health, UF Beta Upsilon Chapter (UF College of PHHP, 30 April 2015)

**MEMBERSHIPS:**

- American Association for the Advancement of Science
- American Committee on Laboratory Animal Diseases
- American Chemical Society American Society of Clinical Pathologists
- American Society for Microbiology
- American Society for Virology Frontiers in Bioscience Society of Scientists (permanent member)

**POSITIONS:**

- Associate Professor, Oct. 1, 2010 - Present University of Florida, Gainesville
- Senior Advisor, December 2009-Sept. 21, 2010 (Principal Scientist, July 2005-December 2009) Midwest Research Institute, Kansas City, Missouri.
- Assistant Professor, January 2001-June 2005 Department of Pathology, Loyola University Medical Center, Maywood, Illinois
- Research Assistant Professor, Department of Molecular Virology and Microbiology, 1997-2000 (Postdoctoral Fellow, Department of Molecular Virology and Microbiology, 1991-1996) Baylor College of Medicine, Houston, Texas
- Research Associate, Department of Biochemistry, 1991 (Graduate Research Assistant, Department of Biochemistry, 1989-1991), University of MissouriColumbia.

- Graduate Research and Teaching Assistant, Department of Microbiology, 1985-1989 (Graduate Teaching Assistant, Biology Laboratory, Department of Biology, 1984), University of Texas–Austin

#### **MAIN RESEARCH OR TECHNOLOGY TOPICS:**

- Isolation and genetic characterization of arboviruses
- Influenza virus genetic characterization
- Development of air sampling technologies for the collection of airborne viruses
- Virus discovery and genetic characterization

#### **RECENT PUBLICATIONS (2013 ONWARDS)**

1. Lednicky JA, Waltzek TB, McGeehan E, Loeb JC, Hamilton SB, Luetke MC. Isolation and genetic characterization of human coronavirus NL63 in primary human renal proximal tubular epithelial cells obtained from a commercial supplier, and confirmation of its replication in two different types of human primary kidney cells. *Virology*. 2013 Jun 27;10:213. doi: 10.1186/1743-422X-10-213. PMID: 23805916. PMCID: PMC3716658
2. Lednicky JA, Loeb JC. Detection and isolation of airborne Influenza A H3N2 virus using a Sioutas personal cascade impactor sampler. *Influenza Res Treat*. 2013;2013:656825. doi: 10.1155/2013/656825. Epub 2013 Oct 10. PMID: 24224087 PMCID: PMC3810434
3. Lednicky JA, Butel JS, Luetke MC, Loeb JC. Complete genomic sequence of a new Human polyomavirus 9 strain with an altered noncoding control region. *Virus Genes*. 2014 Dec;49(3):490-2. doi: 10.1007/s11262-014-1119-z. Epub 2014 Sep 27. PMID: 25260554
4. Memish ZA, Almasri M, Assirri A, Al-Shangiti AM, Gray GC, Lednicky JA, Yezli S. Environmental sampling for respiratory pathogens in Jeddah airport during the 2013 Hajj season. *Am J Infect Control*. 2014 Dec;42(12):1266-9. doi: 10.1016/j.ajic.2014.07.027. Epub 2014 Nov 25. PMID: 25465254
5. Sanpui P, Zheng X, Loeb JC, Bisesi JH Jr, Khan IA, Afroz AR, Liu K, Badireddy AR, Wiesner MR, Ferguson PL, Saleh NB, Lednicky JA, Sabo-Attwood T. Single-walled carbon nanotubes increase pandemic influenza A H1N1 virus infectivity of lung epithelial cells. *Part Fibre Toxicol*. 2014 Dec 14;11:66. doi: 10.1186/s12989-014-0066-0. PMID: 25497303 PMCID: PMC4318452
6. Fennelly KP, Tribby MD, Wu C-Y, Heil GL, Radonovich LJ, Loeb JC, Lednicky JA. Collection and measurement of aerosols of viable influenza virus in liquid media in an Andersen cascade impactor. *Virus Adaptation and Treatment*. 2014 Dec; 7:1–9. doi: <http://dx.doi.org/10.2147/VAAT.S74789>
7. Sayler KA, Barbet AF, Chamberlain C, Clapp WL, Alleman R, Loeb JC, Lednicky JA. Isolation of Tacaribe virus, a Caribbean arenavirus, from host-seeking *Amblyomma americanum* ticks in Florida. *PLoS One*. 2014 Dec 23;9(12):e115769. doi: 10.1371/journal.pone.0115769. eCollection 2014. PMID: 25536075 PMCID: PMC4275251 PMCID: PMC4275251

8. Perri MG, Peoples-Sheps M, Blue A, Lednicky JA, Prins C. Public health education at the University of Florida: synergism and educational innovation. *Am J Public Health*. 2015 Mar;105 Suppl 1:S83-7. doi: 10.2105/AJPH.2014.302414. PMID:25706027
9. Iovine NM, Morris JG Jr, Fredenburg K, Rand K, Alnuaimat H, Lipori G, Brew J, Lednicky JA. Severity of influenza A(H1N1) illness and emergence of D225G variant, 2013-14 influenza season, Florida, USA. *Emerg Infect Dis*. 2015 Apr;21(4):664-7. doi: 10.3201/eid2104.141375. PMID: 25811540 PMCID: PMC4378462
10. Lednicky JA, Iovine NM, Brew J, Loeb JC, Sugimoto JD, Rand KH, Morris JG. Hemagglutinin Gene Clade 3C.2a Influenza A(H3N2) Viruses, Alachua County, Florida, USA, 2014-15. *Emerg Infect Dis*. 2016 Jan;22(1):121-3. doi: 10.3201/2201.151019. PMID: 26692074 PMCID: PMC4696699
11. Pan M, Eiguren-Fernandez A, Hsieh H, Afshar-Mohajer N, Hering SV, Lednicky J, Hugh Fan Z, Wu CY. Efficient collection of viable viral aerosol through laminar flow water-based condensational particle growth. *J Appl Microbiol*. 2016 Mar;120(3):805-15. doi: 10.1111/jam.13051. PMID: 26751045
12. Khan E, Farooqi JQ, Barr KL, Prakoso D, Nasir A, Kanji A, Shakoor S, Malik FR, Hasan R, Lednicky JA, Long MT. Flaviviruses as a cause of undifferentiated fever in Sindh Province, Pakistan: A preliminary report. *Front Public Health*. 2016 Feb 16;4:8. doi: 10.3389/fpubh.2016.00008. eCollection 2016. PMID: 26909342 PMCID: PMC4754388
13. Artiaga BL, Yang G, Hackmann TJ, Liu Q, Richt JA, Salek-Ardakani S, Castleman WL, Lednicky JA, Driver JP.  $\alpha$ -Galactosylceramide protects swine against influenza infection when administered as a vaccine adjuvant. *Sci Rep*. 2016 Mar 23;6:23593. doi: 10.1038/srep23593. PMID: 27004737 PMCID: PMC480428
14. Samuel J, Beck L, Appler J, Ballin J, Bushner D, Cahall R, Davenport M, Egan C, Gebhardt J, Hadfield T, Hale M, Hopkins K, Kato C, Kayatani A, Kesterson K, Khan S, Kiss K, Lednicky J, Naraghi-Arani P, O'Brien S, Ong K, Rebeil R, Roth K, Scheckelhoff M, Yost E, Coates S. Standard Method Performance Requirements (SMPRs) for Detection of *Coxiella burnetii*. *AOAC SMPR 2015.011*. *J AOAC Int*. 2016 Jan-Feb;99(1):298-302. doi: 10.5740/jaoac.int.SMPR2015.011. PMID:27053472
15. Lednicky J, Pan M, Loeb J, Hsieh H, Eiguren-Fernandez A, Hering S, Fan ZH, Wu C-Y. Highly efficient collection of infectious pandemic Influenza H1N1 virus (2009) through laminar-flow water based condensation. *Aerosol Science and Technology*. 2016. 50, no. 7, i-iv. DOI: 10.1080/02786826.2016.1179254.
16. Lednicky J, Beau De Rochars VM, El Badry M, Loeb J, Telisma T, Chavannes S, Anilis G, Cella E, Ciccozzi M, Rashid M, Okech B, Salemi M, Morris JG Jr. Zika Virus Outbreak in Haiti in 2014: Molecular and Clinical Data. *PLoS Negl Trop Dis*. 2016 Apr 25;10(4):e0004687. doi: 10.1371/journal.pntd.0004687. eCollection 2016 Apr. PMID: 27111294 PMCID: PMC4844159.
17. Anderson BD, Ma M, Xia Y, Wang T, Shu B, Lednicky JA, Ma MJ, Lu J, Gray GC. Bioaerosol Sampling in Modern Agriculture: A Novel Approach for Emerging Pathogen Surveillance? *J Infect Dis*. 2016 May 6. pii: jiw180. PMID:27190187

18. Jiang X, Pan M, Hering SV, Lednicky J, Wu CY, Fan ZH. Use of RNA amplification and electrophoresis for studying virus aerosol collection efficiency and their comparison with plaque assays. *Electrophoresis*. 16 May 2016. elps.201600141. DOI: 10.1002/elps.201600141. PMID: 27196379
19. White SK, Ma W, McDaniel CJ, Gray GC, Lednicky JA. Serologic evidence of exposure to influenza D virus among persons with occupational contact with cattle. *J Clin Virol*. 2016 Aug;81:31-3. doi: 10.1016/j.jcv.2016.05.017. PMID: 27294672
20. Elbadry M, Lednicky J, Cella E, Telisma T, Chavannes S, Loeb J, Ciccozzi M, Okech B, De Rochars VM, Salemi M, Morris JG Jr. Isolation of an Enterovirus D68 from blood from a child with pneumonia in rural Haiti: Close phylogenetic linkage with New York strain. *Pediatr Infect Dis J*. 2016 Sep;35(9):1048-50. doi: 10.1097/INF.0000000000001283. PMID: 27331858
21. Lednicky JA, Bonny TS, Morris JG, Loeb JC. Complete genome sequence of Enterovirus D68 detected in classroom air and on environmental surfaces. *Genome Announc*. 2016 Jun 16;4(3). pii: e00579-16. doi: 10.1128/genomeA.00579-16. PMID: 27313311
22. Cortés-Hinojosa G, Doescher B, Kinsel M, Lednicky J, Loeb J, Waltzek T and Wellehan, JFX, Jr. Coinfection of California Sea Lion Adenovirus 1 and a novel polyoma virus in a Hawaiian Monk Seal (*Neomonachus schauinslandi*). *J Zoo and Wildlife Med*. 2016 Jun 30;47(2), pp. 427 - 437. PMID: 27468013 doi: 10.1638/2014-0252.1
23. Wu Y, Shi W, Lin J, Wang M, Chen X, Liu K, Xie Y, Luo L, Anderson BD, Lednicky JA, Gray GC, Lu J, Wang T. Aerosolized avian influenza A (H5N6) virus isolated from a live poultry market, China. *J Infect*. 2016 Aug 9. pii: S0163-4453(16)30205-5. doi: 10.1016/j.jinf.2016.08.002.
24. Iovine N, Lednicky J, Cherabuddi K, Crooke H, White SK, Loeb JC, Cella E, Ciccozzi M, Salemi M, and Morris Jr., JG. Co-Infection with Zika and Dengue-2 viruses in a traveler returning from Haiti, 2016: clinical presentation and genetic analysis. *Clin. Infect. Dis*. 2016 Sept 29. *Clin Infect Dis*. 2016 Sep 29. pii: ciw667. PMID: 27694479
25. Lednicky J, Beau De Rochars VM, Elbadry M, Loeb J, Telisma T, Chavannes S, Anilis G, Cella E, Ciccozzi M, Okech B, Salemi M, Morris, Jr, JG. Isolation of Mayaro virus from a child with acute febrile illness in Haiti. *Emerg Infect Dis*. 2016 Nov;22(11):2000-2002. doi: 10.3201/eid2211.161015. PMID: 27767924