**Carlos Martin Zambrana-Torrelio**

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**Professional Preparation**

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| Univ. Mayor de San Andres | Biology | Licenciature | 2004 |
| Univ. of Puerto Rico  Sapienza Univ. of Rome | Ecol., Evol. and Systematics  Env. and Evol. Biology | MSc  PhD | 2009  Pending |

**Appointments**

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| --- | --- |
| Senior Research Scientist, EcoHealth Alliance | 2015 - present |
| Research Scientist, EcoHealth Alliance | 2010 - 2014 |
| Research Associate, Institute of Molecular Biology and Biotechnology, Bolivia | 2008 - present |
| Visiting Scientist, Missouri Botanical Garden | 2006 |
| Researcher, NatureServe | 2006 |
| Research Associate, Bolivian Bat Conservation Program | 2003 - present |
| Researcher, Wildlife Conservation Society | 2002 - 2003 |
| Research Associate, Centro de Analisis Espacial - Bolivia | 1999 - 2002 |

**Publications**

Loh EL, Zambrana‐Torrelio C, Olival K, Bogich T, Johnson CK, Mazet J, Karesh W, Daszak P. Targeting Transmission Pathways for Emerging Zoonotic Disease Surveillance and Control. 2015. Vector-Borne and Zoonotic Diseases 15:5.

Suzán, Gerardo, Gabriel E. García‐Peña, Ivan Castro‐Arellano, Oscar Rico, André V. Rubio, María J. Tolsá, Benjamin Roche Parviez R Hosseini, Annapaola Rizzoli, Kris A Murray, Carlos Zambrana‐Torrelio. (2015). Metacommunity and phylogenetic structure determine wildlife and zoonotic infectious disease patterns in time and space." *Ecology and evolution* 5, no. 4 (2015): 865-873.

Rico Chávez, Rafael Ojeda Flores, Jesús Sotomayor Bonilla, Carlos Zambrana-Torrelio, Elizabeth Loza Rubio, A. Alonso Aguirre, Gerardo Suzán Azpiri. (2015). Viral diversity of bat communities in human-dominated landscapes in Mexico. Veterinaria México OA.

Springborn, M. R., Keller, R. P., Elwood, S., Romagosa, C. M., Zambrana‐Torrelio, C., & Daszak, P. (2015). Integrating invasion and disease in the risk assessment of live bird trade. Diversity and Distributions, 21(1), 101-110.

Smith, K. M., Loh, E. H., Rostal, M. K., Zambrana-Torrelio, C. M., Mendiola, L., & Daszak, P. (2013). Pathogens, pests, and economics: Drivers of honey bee colony declines and losses. EcoHealth, 10(4), 434-445.

Epstein, J. H., Baker, M. L., Zambrana-Torrelio, C., Middleton, D., Barr, J. A., DuBovi, E., ... & Daszak, P. (2013). Duration of maternal antibodies against canine distemper virus and Hendra virus in pteropid bats. PloS one, 8(6).

Daszak P, Zambrana-Torrelio C, Bogich TL, Fernández M, Epstein JH, Murray KA, Hamilton H. (2013). Interdisciplinary approaches to understanding disease emergence: The past, present, and future drivers of Nipah virus emergence. **PNAS**. 110:3681-3688.

Loh EH, Murray K, Zambrana-Torrelio C, Hosseini P, Rostal MK, Karesh WB, Daszak P (2013) Ecological approaches to studying wildlife diseases. **One Health: People, Animals, and the Environment**. R. Atlas and R. Malay (Eds.) ASM Press.

Anthony SJ, Epstein JH, Murray KA, Navarrete-Macias I, Zambrana-Torrelio C, et al. (2013). A strategy to estimate unknown viral diversity in mammals. **mBio** 4(5): e00598-13. doi:10.1128/mBio.00598-13.

Anthony SJ, Ojeda-Flores R, Rico-Chavez O, Navarrete-Macias I, Zambrana-Torrelio C, et al. (2013). Coronaviruses in bats from Mexico. **Journal of General Virology**. doi:10.1099/vir.0.049759-0

Quan PL, Firth C, Conte JM, Williams SH, Zambrana-Torrelio C, et al. (2013). Bats are a major natural reservoir for hepaciviruses and pegiviruses. **PNAS**. doi: 10.1073/pnas.1303037110.

Morse SS, Mazet JA, Woolhouse M, Parrish CR, Carroll D, Karesh WB, Zambrana-Torrelio C, Lipkin WI, Daszak P. (2012). Prediction and prevention of the next pandemic zoonosis. **The Lancet** 380:1956–1965.

Bogich TL, Olival JK, Hosseini PR, Zambrana-Torrelio C, Loh E, et al. (2012). Using Mathematical Models in a Unified Approach to Predicting the Next Emerging Infectious Disease. **New Directions in Conservation Medicine: Applied Cases of Ecological Health**. Oxford University Press, Oxford. Pp. 195-212.

Agnarsson I, Zambrana-Torrelio C, Flores-Saldana P, May-Collado L. (2011). A time-calibrated species-level phylogeny of bats (Chiroptera, Mammalia). **Plos Currents: Tree of Life** 3:RRN1212.

**Publications in review:**

The global biogeography of human infectious diseases: a novel source of prior information for health research and management. **PNAS**

Non-Random Patterns in Viral Diversity. **Nature Communications**

**Synergistic Activities**

* Grant reviewer: Universidad Mayor de San Andres – Bolivia for research in Natural and modified biological systems-Total 2013 funding allocation of 1.5USD million
* Journal reviewer: Ecologia en Bolivia, EcoHealth, Ecological Modelling, Biosphere (ESA), PLoS One
* Professional associations: International Biogeography Society, Society for Conservation Biology, Botanical Society of America, Asociacion Boliviana de Ecologia, Programa para la Conservacion de los Murcielagos de Bolivia
* Worked with international (Wildlife Conservation Society, NatureServe) and Bolivian local (BIOTA, TROPICO) NGOs to identify priority species and areas for conservation
* Member of the Ecosystems Red List Initiative (www.iucnredlistofecosystems.org/); Member of CESAB working group; BIODIS: Disentangling the linkages between biodiversity and emerging infectious diseases

**Collaborators**

I Agnarsson (University of Vermont); LF Aguirre (Universidad Mayor de San Simon-Bolivia); MT Aide (University of Puerto Rico); T Bogich (Princeton University); A Domic (Saint Louis University); M Fernandez (UC Berkeley); I Gomez (Instituto de Ecologia - Bolivia); H Hamilton (NatureServe); A Izquierdo (CONICET-Argentina); D Keith (Melbourne University); M Levy (Columbia University); LJ May-Collado (University of Vermont); K Naoki (Universidad Mayor de San Andres - Bolivia); JP Rodriguez (Instituto Venezolano de Investigaciones); G Suzan (National University of Mexico); B Young (NatureServe).

**Graduate Advisors and Postdoctoral Sponsors**

Bette Loiselle (University of Florida); Mitchell T. Aide (University of Puerto Rico – Rio Piedras); Jess K. Zimmerman (University of Puerto Rico – Rio Piedras); Tomas Hrbek (Universidade Federal do Amazonas).

**Thesis Advisor and Postgraduate-Scholar Sponsor**

Carlo Rondinini (University of Rome, La Sapienza).