

Education

PhD in Cell and Molecular Biology, University of California San Diego,
2014-present

Master Degree in Biochemistry, Biotechnology Institute, National Autonomous University of México,
2010-2012
Thesis: “Metagenomics from acute respiratory infections” as advisor PhD. Carlos F. Arias Ortiz, worldwide
leading virologist.

Bachelor Degree in Genomic Sciences, National Autonomous University of Mexico, 2006-2010
Research area: Influenza virus evolution, involved massive sequencing data assembly and phylogenetic analysis

Scientific Papers

Gomez-Jimenez S, Noriega-Orozco L, Sotelo-Mundo RR, Cantu-Robles VA, **Cobian-Guemes A.G.** (2014) **High-Quality Draft Genomes of Two *Vibrio parahaemolyticus* Strains**. *GenomA*, July/August 2014.

Escalera-Zamudio M., Nelson M., **Cobian-Guemes A.G.**, et al. (2014) **Molecular Epidemiology of Influenza A/H3N2 Viruses Circulating in Mexico from 2003 to 2012**. *PLoS ONE*, July 2014.

Vazquez-Perez, J, Isa, P., Kobasa, D., Ormsby, C. E., Ramírez-Gonzalez, J. E., Romero-Rodríguez, D. P., Ranadheera, C., **Cobián-Guemes, A.G.**, et al. (2013). **A (H1N1) pdm09 HA D222 variants associated with severity and mortality in patients during a second wave in Mexico**. *Virology journal*, 10(January), 41.

Escalera-Zamudio,M. **Cobian-Guemes,A.G.**, et.al, (2012) **Characterization of an influenza A virus in Mexican swine that is related to the A/H1N1/2009 pandemic clade**, *Virology*, 433, 176-182.

Landa-Cardena,A. Morales-Romero,J. Garcia-Roman,R. **Cobian-Guemes,A.G.** Mendez,E. Ortiz-Leon,C. Pitalua Cortes,F. Mora,S.I. Montero,H. (2012). **Clinical characteristics and genetic variability of human rhinovirus in Mexico**, *Viruses*, 4, 200-210.

Arias,C.F. Escalera-Zamudio,M. Soto-Del Rio,M.D. **Cobian-Guemes,A.G.** Isa,P. Lopez,S. (2009). **Molecular Anatomy of 2009 Influenza Virus A (H1N1)**, *Arch Med Res*, 40, 643-654.

Oral presentations

Microbiome of severe human respiratory infections, Ana Cobián et al., 2013, Human Genome Meeting 2013 and 21st International Congress of Genetics, Singapore.

Poster presentations

Prevalence of Rhinovirus A, B and C on children from Veracruz, Montero H, Ana Cobián, et.al., 2012
LXVI Reunión anual de salud pública, Mexican Society of Public Health, Pachuca, Hidalgo, México

Lungs microbiome from hospitalized patients, Ana Cobián et al., 2012
MGM Workshop, DOE Joint Genome Institute, Walnut Creek, CA, USA.

Metagenomics of Severe Influenza and Influenza-like Respiratory Infections, Ana Cobián et.al., 2010
“Influenza: Translating basic insights”, Cell Symposia, Washington D.C., USA.

Influenza H3N2 virus evolution in Mexico, Isa Pavel, Ana Cobián, et.al. 2010

Teaching experience

Genetics and evolution, 2014-2, San Diego State University

Welcome to bioinformatics 2013-1, Undergraduate program on genomic sciences
Taught lessons: metagenomics, molecular diagnosis and viral evolution.

International Workshops on Bioinformatics 2012, Iberoamerican Society for Bioinformatics
Support for students in next generation sequencing practices.

Languages

My native language is Spanish.
I fluently read, speak and write in English.
I speak and read French.

Others

I have experience with molecular biology laboratory techniques
I have strong expertise in Bioinformatics, particularly sequence mining and metagenomics
I am familiar programming: Bash /Shell, Perl, and R/Bioconductor.
I have some experience with: C++, Python, Php and MySQL