



Andrés Sánchez Quinto

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Date of Birth: 27/07/1987

Sex: Male

Email : guitox@msn.com

Place of Birth: Mexico

Marital Status: Married

Visa Status: Available

Citizenship: Mexican

EMPLOYMENT EXPERIENCE:

- Identification of emerging diseases at the Health Ministry of Yucatan “Secretaría de Salud del Estado de Yucatán” (2012-2013)
- One year as the responsible of the Microbiology diagnostic department of the biggest popular hospital in the state of Yucatan “Hospital Ó Horan” (2013-2014)
- Doing sales & experiments for TechnoGen, a company focus on clinical and research PCR based (2015).

EDUCATION

- **PhD in Marine Sciences and Limnology** 2015 -2020
Universidad Nacional Autónoma de México (UNAM), Thesis title: “Metagenomic and ecophysiological analysis of colonizing biofilms on coral rubble in the Mexican Caribbean”
- **Master in Science** 2011-2012
Medical Microbiology, University of Manchester, Grade 60% (Merit)
- **Undergraduate Studies** 2005- 2010
Biology, Universidad de las Américas (UDLA) Puebla, Mexico, Grade 9.0/10

EXTRACURRICULAR COURSES & SKILLS:

- Bioinformatics Skills: Unix, R and Python
- DNA extraction for metagenomics and 16S (kit and phenol: chloroform: isoamyl alcohol), PCRs, etc.
- Ecophysiology: nitrogen fixation, PE curves, chlorophyll extraction, etc.
- Qiime2 and R packages for 16S
- Assembly and Annotation of Genomes
- Analysis of metagenomes and environmental metatranscriptomes

PUBLICATIONS

- “Metagenome of *Acropora palmata* coral rubble: potential metabolic pathways, diversity and pathogens in the reef ecosystem”. PloS one, 14(8). Sanchez-Quinto, A., & Falcon, L. I. (2019).
- Draft Genome Sequence of *Commensalibacter papalotli MX01*, a Symbiont Identified from the Guts of Overwintering Monarch Butterflies. Luis E. Servín-Garcidueñas, Andrés Sánchez-Quinto, Esperanza Martínez-Romero.
- Disturbance in human gut microbiota networks by parasites and its implications in the incidence of depression. Scientific Reports.(february, 2020)
- Development of a conceptual framework for the management of biodiversity and ecosystem services in the Mexican Caribbean Sánchez-Quinto, A., Costa, J. C. D., Zamboni, N. S., Sanches, F. H., Principe, S. C., Viotto, E. V., ... & Faroni-Perez, L. (2020). Biota Neotropica, 20.
- Gut Microbiome in Children from Indigenous and Urban Communities in Mexico: Different Subsistence Models Different Microbiomes. Sanchez-Quinto, A., Cerqueda-García, D., Falcón, L. I., Gaona, O., Martinez, S., Nieto, J., & González-Santoyo, I. (2020).

PUBLICATIONS IN REVIEW

- “Coral reefs and the ecological role of the coral rubble structures in the Mexican Caribbean”- Gulf and Caribbean Research Sanchez-Quinto, A., & Falcon, L. I. (corrections)
- We think what we eat: Animal-based diet influences cerebral and microbiota networks connectivity in early ages. A study case of an indigenous community in Mexico. Elvia, R. C., Isaac, G. S., Oliver, L. C., Rojas-Ramos, O. A., Falcón, L. I., Gaona, O., ... & Javier, N. (2020). *bioRxiv*.(corrections)

PUBLICATIONS IN PROCESS (% PROGRESS)

- Review: the brain-gut-microbiota axis and its role in human nervous system diseases (95%-waiting for collaborators comments)
- Differences in microbial composition of coral rubble structures among a gradient of coral cover in reefs from the Mexican Caribbean (95%-waiting for collaborators comments)
- Microbial composition of three tropical marine macrophytes from the Mexican Caribbean; species-specific vs reef dependant (95%-waiting for collaborators comments)
- Draft Genome Sequence of an isolated *Archaea* identified from coral rubble biofilm in the Mexican Caribbean – (60%)

- Metagenome comparison of diversity and metabolic pathways from Bacalar and Alchichica microbialites: potential role in carbon precipitation.(80%)
- Gastrointestinal bacterial comparison of Mexican cichlid fishes from genus Herichthys (Cichliformes:Pisces) (80%)
- “Diversity and nitrogen fixation in biofilms of coral-reef rubble in the Mexican Caribbean” (60%)

STUDENT: THESIS

- Liza Ivette Guerrero Avalos: “Anthropogenic impact on coral reefs in the Mexican Caribbean” (Graduated-Bachelor, December 2019)
- Santiago Martinez: “Lifestyle and Intestine-Brain Axis: Characterization of the intestinal microbiota in children of indigenous communities Me’phaa and Mexico City”(Process, Nov-2020)

PERSONAL INTERESTS

- NAUI OPEN WATERS (2009)
- PADI ADVANCE (2013)
- PADI RESCUE DIVER (2013)

CONGRESSES

- AGU, poster (USA, 2015)
- Microbiome congress (Mexico, 2016)
- Colloquium Ramón Margalef (Spain, 2016)
- Symposium GENES, SEX AND BEHAVIOR (2018)
- Regional Graduate Network in Oceanography RGNO (Namibia, 2019)
- São Paulo School of Advanced Science on Scenarios and Modelling on Biodiversity and Ecosystem Services to Support Human Well-Being (Brazil, 2019)

LANGUAGES:

- Spanish: Native
- English: Advanced
- Portuguese: Fair in speaking and writing
- Italian: Fair in speaking and writing