

CAMILA CARLOS-SHANLEY

PROFESSIONAL ADDRESS & E-MAIL

Texas State University
Department of Biology
601 University Dr.
San Marcos, TX -78666
Phone: (217) 721-5429
E-mail: carlos-shanley@txstate.edu
Citation: **Carlos, C.**
URL: <http://carloslab.wp.txstate.edu/>
Google Scholar Citations: <http://scholar.google.com/citations?user=IQJN-msAAAAJ&hl=en>

ACADEMIC EDUCATION

From 2010 to 2014 | PhD in Genetics and Molecular Biology | Genetics of microorganisms
CBMEG, University of Campinas (UNICAMP), Campinas, SP, Brazil
Title: Characterization by pyrosequencing of mucus associated microbiota of scleractinians corals from the State of São Paulo.
Advisor: Dr. Laura MM Ottoboni

From 2008 to 2010 | MS in Genetics and Molecular Biology | Genetics of microorganisms
CBMEG, UNICAMP, Campinas, SP, Brazil
Title: Identification of host-specific molecular markers in *Escherichia coli*.
Advisor: Dr. Laura MM Ottoboni.

From 2004 to 2007 | BS in Biology
UNICAMP, Campinas, SP, Brazil

PROFESSIONAL EXPERIENCE

From August 2018 to present | Assistant Professor
Department of Biology, Texas State University, San Marcos-TX

From September, 2015 to August 2018 | Postdoctoral Researcher
Great Lakes Bioenergy Research Center, Madison-WI
Department of Bacteriology, University of Wisconsin-Madison

From May, 2014 to August, 2015 | Postdoctoral Researcher
Civil and Environmental Engineering Department, University of Illinois Urbana-Champaign

AWARDED GRANTS (CO-AUTHOR)

From 2014 to 2015 | Metagenomics evaluate potential risks of viral pathogens from wastewater discharge and their fate in the Illinois River basin (USD 50,000)
Funding Agency: NGRREC (National Great Rivers Research and Education Center) Challenge Grant Program
PI: Prof. Wen-Tso Liu
Institution: University of Illinois Urbana-Champaign

From 2010 to 2012 | Characterization by pyrosequencing of mucus associated microbiota of scleractinians corals from the State of São Paulo (USD 100,000)
 Funding Agency: FAPESP (São Paulo Research Foundation)
 PI: Dr. Laura MM Ottoboni
 Institution: University of Campinas

PUBLICATIONS (*corresponding author)

1. **Carlos C***, Huan F, Currie CR. Substrate shift reveals roles for members of bacterial consortia in lignocellulose degradation. *Frontier in Microbiology* 9:364.
2. Stoppe NC, Silva JS, **Carlos C**, Sato MIZ, Saraiva AM, Ottoboni LMM, et al. (2018). Worldwide phylogenetic group patterns of *Escherichia coli* from commensal human and wastewater treatment plant isolates. *Frontiers in Microbiology* 8:2512.
3. Pereira LB, Palermo BRZ, **Carlos C***, Ottoboni LMM. (2017) Diversity and antibacterial activity of the bacterial communities associated with Brazilian coral species. *FEMS Microbiology Letters* 364: fnx164.
4. Gontang EA, Aylward FO, **Carlos C**, del Rio TG, Chovatia M, Fern A, Lo CC, Malfatti SA, Tringe SG, Currie CR, Kolter R. (2017) Major shifts in microbial diversity and community composition across gut sections of a tropical cockroach. *PLoS ONE* 12: e0177189.
5. **Carlos C**, Pereira LB, Ottoboni LMM. (2016) Comparative genomics of *Paracoccus* sp. SM22M-07 isolated from coral mucus: Insights into bacteria-host interactions. *Current Genetics* 63:509-518.
6. Lewin GR, **Carlos C**, Chevrette MG, Horn HA, McDonald BM, Stankey RJ, Fox BG, et al. (2016) Evolution and ecology of Actinobacteria and their bioenergy applications. *Annual Review of Microbiology* 70:235-254.
7. Palermo BRZ, Castro DBA, Pereira LB, Caus ACG, Magalhaes BL, **Carlos C**, et al. (2016) Draft genome sequence of *Kocuria* sp. SM24M-10 isolated from coral mucus. *Genomics Data* 7:121123.
8. Castro DBA, Pereira LB, Silva MVN, Silva BP, Palermo BRZ, **Carlos C**, et al. (2015) High-quality draft genome sequence of *Kocuria marina* SO9-6, an actinobacterium isolated from a copper mine. *Genomics Data* 5:34-35.
9. Stoppe NC, Silva JS, Torres TT, **Carlos C**, Hachich EM, Sato MI, Saraiva AM, Ottoboni LMM. (2014) Clustering of water bodies in unpolluted and polluted environments based on *Escherichia coli* phylogroup abundance using a simple interaction database. *Genetics and molecular biology* 37:694-701.
10. **Carlos C**, Castro DBA, Ottoboni LMM. (2014) Comparative metagenomic analysis of coral microbial communities using a reference-independent approach. *PLoS ONE* 9: e111626.
11. **Carlos C**, Torres TT, Ottoboni LMM. (2013) Bacterial communities and species-specific associations with the mucus of Brazilian coral species. *Scientific Reports* 3: 1624.
12. **Carlos C**, Alexandrino F, Stoppe NC, Sato MIZ, Ottoboni LMM. (2012) Use of *Escherichia coli* BOX-PCR fingerprints to identify sources of fecal contamination of water bodies in the State of São Paulo, Brazil. *Journal of Environmental Management* 93: 38-43.
13. **Carlos C**, Alexandrino F, Vieira MAM, Stoppe NC, Sato MIZ, Gomes TAT, Ottoboni LMM. (2011) Prevalence of virulence factors isolated from healthy animals and water sources in Brazil. *Journal of Water and Health* 9: 138.
14. Maturana VG, Pace F, **Carlos C**, Pires MM, Campos TA, Nakazato G, Stheling EG, Logue CM, Nolan LK, Silveira WD. (2011) Subpathotypes of Avian Pathogenic *Escherichia coli* (APEC) Exist as Defined by their Syndromes and Virulence Traits. *The Open Microbiology Journal* 5: 55-64.

15. **Carlos C**, Maretto DA, Poppi RJ, Sato MIZ, Ottoboni LMM. (2011) Fourier transform infrared microspectroscopy as a bacterial source tracking tool to discriminate fecal *E. coli* strains. *Microchemical Journal* 99: 15-19.
16. **Carlos C**, Pires MM, Stope NC, Hachich EM, Sato MIZ, Gomes TAT, Amaral LA, Ottoboni LMM. (2010) *Escherichia coli* phylogenetic group determination and its application in the identification of the major animal source of fecal contamination. *BMC Microbiology* 10: 161.
17. Reis FC, Madureira DJ, Vicentini R, **Carlos C**, Ferraz LFC, Garcia O, Ottoboni LMM. (2010) Transporter protein genes are differentially expressed in *Acidithiobacillus ferrooxidans* LR maintained in contact with covellite. *World Journal of Microbiology and Biotechnology* 11: 2061-2068.
18. **Carlos C**, Reis FC, Vicentini R, Madureira DJ, Ottoboni LMM. (2008) The *rus* operon genes are differentially regulated when *Acidithiobacillus ferrooxidans* LR is kept in contact with metal sulfites. *Current Microbiology* 57: 375-380.

AWARDS & FELLOWSHIPS

2017 | Sigrid Leirmo Memorial Award from the Department of Bacteriology at UW-Madison |
 “In recognition of your promise as a research scientist and your consistent willingness to contribute to the development of your fellow students’ and colleagues’ scientific, intellectual, and technical potential through selfless help to others.”

2010-2014 | FAPESP Doctorate in Science Fellowship |
 Project: Characterization by pyrosequencing of mucus associated microbiota of scleractinians corals from the State of São Paulo.

2008-2010 | FAPESP Master in Science Fellowship |
 Project: Identification of host-specific molecular markers in *Escherichia coli*.

2006-2007 | FAPESP Undergraduate Fellowship |
 Project: Differential expression in *Acidithiobacillus ferrooxidans* in contact with metal sulfides.

OTHER EXPERIENCE

2017 | Reviewed one manuscript for *Molecular Ecology* (ISSN: 1365-294X)
From 2014 to 2016 | Reviewed three manuscripts for *Brazilian Journal of Microbiology* (ISSN: 1517-8382)
2016 | Reviewed one manuscript for *Archives of Microbiology* (ISSN: 0302-8933)
From 2009 to 2014 | Reviewed three manuscripts for *Microbial Ecology* (ISSN: 0095-3628)
2014 | Reviewed one manuscript for *FEMS Microbiology Ecology* (ISSN: 1574-6941)
2013 | Microbial Genomics & Metagenomics Workshops at DOE JGI, Walnut Creek, CA
2012 | Training in Bioinformatics for Metagenome Analysis at Dr. Forest Rohwer Lab, SDSU (4 months)