

Miguel Ángel Tripp Valdez

DR. RER. NAT.

Centro de Investigación Científica y de Educación Superior de Ensenada, Baja California

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Skills & Experience

Integrative Ecophysiology, Mollusk physiology, Next Generation Sequencing, qPCR, Metabolomics, Transcriptomics, Population Genetics, Conservation Genetics, R, Linux

Education

Universidad Autonoma de Baja California Sur

La Paz, Baja California Sur, Mexico

BACHELOR OF SCIENCE IN MARINE BIOLOGY (HONOURS)

2007

- Date of thesis defense: 01/02/2007

Centro de Investigaciones Biológicas del Noroeste, S.C.

La Paz, Baja California Sur, Mexico

MASTER OF SCIENCE IN USE, MANAGEMENT AND CONSERVATION OF NATURAL RESOURCES

2010

- Date of thesis defense: 28/08/2009

University of Bremen

Bremen, Germany

DOCTOR IN NATURAL SCIENCE (DR. RER. NAT)

2019

- Date of thesis defense: 14/12/2018

Publications list

1. **Tripp-Valdez, MA**, S Lluch-Cota, P Delmonte-Luna, and C Salvadeo (2010). The importance of grey literature in Fisheries Ecology: an example based on the trophic role of small pelagic in the Gulf of California. *Oceanides* 25(mi), 59–71.
2. **Tripp-Valdez, MA**, F García de León, S Ortega-García, D Lluch-Cota, J López-Martínez, and P Cruz (2010). Population genetic structure of dolphinfish (*Coryphaena hippurus*) in the Gulf of California, using microsatellite loci. *Fisheries Research* 105(3), 172–177.
3. **Tripp-Valdez, MA**, FJ García-de-León, H Espinosa-Pérez, and G Ruiz-Campos (2012). Population structure of sablefish *Anoplopoma fimbria* using genetic variability and geometric morphometric analysis. *Journal of Applied Ichthyology* 28(4), 516–523.
4. Sicard-Gonzalez, M, **MA Tripp-Valdez,** L Ocampo, A Maeda-Martínez, and SE Lluch-Cota (2012). Coastal sea surface temperature records along the Baja California Peninsula. *Oceanides* 27(2), 65–70.
5. Lluch-Cota, SE, **MA Tripp-Valdez,** DB Lluch-Cota, D Lluch-Belda, J Verbesselt, H Herrera-Cervantes, and JJ Bautista-Romero (2013). Recent trends in sea surface temperature off Mexico. *Atmosfera* 26(4), 537–546.
6. **Tripp-Valdez, MA**, C Bock, M Lucassen, S Lluch-cota, M Sicard, G Lannig, and H Pörtner (2017). Metabolic response and thermal tolerance of green abalone juveniles (*Haliotis fulgens*: Gastropoda) under acute hypoxia and hypercapnia. *Journal of Experimental Marine Biology and Ecology* 497(August), 11–18.
7. Tripp-Quezada, A, A Tripp-Valdez, **MA Tripp-Valdez,** and N Capetillo (2018). Composición y estructura de la comunidad de moluscos de fondos blandos de la isla Santa Cruz, golfo de California, México Composition and community structure of soft bottom mollusks on Santa Cruz Island, Gulf of California, Mexico. *Hidrobiológica* 28(1), 51–59.
8. **Tripp-Valdez, MA**, C Bock, G Lannig, N Koschnick, H Pörtner, and M Lucassen (2019). Assessment of muscular energy metabolism and heat shock response of the green abalone *Haliotis fulgens* (Gastropoda: Philipi) at extreme temperatures combined with acute hypoxia and hypercapnia. *Comparative Biochemistry and Physiology Part B: Biochemistry and Molecular Biology* 227, 1–11.
9. **Tripp-Valdez, MA**, L Harms, H Pörtner, M Sicard, and M Lucassen (2019). De novo transcriptome assembly and gene expression profile of thermally challenged green abalone (*Haliotis fulgens*: Gastropoda) under acute hypoxia and hypercapnia. *Marine Genomics*. 45, 48–56.

10. **Tripp-Valdez, MA**, F Cicala, CE Galindo-Sánchez, KD Chacón-Ponce, E López-Landavery, F Díaz, D Re-Araujo and F Lafarga-De la Cruz (2020). Growth Performance and Transcriptomic Response of Warm-Acclimated Hybrid Abalone *Haliotis rufescens* (♀) × *H. corrugata* (♂). *Marine Biotechnology*. <https://doi.org/10.1007/s10126-020-10002-7>

Professional Experience

RESEARCH

Centro de Investigaciones Biológicas del Noroeste, S.C.

RESEARCH TECHNICIAN

Mar-07 - Aug-07

- I evaluated the genetic population structure of a pelagic fish with economic importance in Mexico

Centro de Investigaciones Biológicas del Noroeste, S.C.

RESEARCH TECHNICIAN

May-10 - Aug-10

- I evaluated the genetic variability in shrimp farms using microsatellite markers to begin a selection program

Centro de Investigaciones Biológicas del Noroeste, S.C.

RESEARCH ASSISTANT

Feb-11 - Dec-12

- I Created a database from a collection of sea surface temperature loggers along the coasts of Baja California Sur. This resulted in a publication in a scientific journal
- I analyzed temporal series of sea surface temperature from public databases (NOAA) from the coast of Mexico to detect trends in temperature change and regime shifts. This resulted in a publication in a scientific journal
- I Created a project for the Barcode of Life Data System

Centro de Investigación Científica y de Educación Superior de Ensenada, B.C.

POSTDOCTORAL POSITION

Sep-20 - Aug-20

- I performed a transcriptomic analysis of two hybrid lines of abalone (*Haliotis*) species to identify the differences in thermal tolerance and growth

TEACHING

Escuela Normal Superior del Estado de Baja California Sur (Mathematics department)

PROBABILITY

Feb-20 - Aug-20

Universidad Autónoma de Baja California Sur (Graduate department)

MOLECULAR BIOLOGY

Aug-20 - Dec-20

Centro de Investigación Científica y de Educación Superior de Ensenada, B.C.

PHYSIOLOGY AND OMICS SCIENCES; PRINCIPLES APPLIED IN AQUACULTURE

Jan-20 - Apr-20

Centro de Investigación Científica y de Educación Superior de Ensenada, B.C.

BIostatISTICS IN R

Apr-20 - Jul-20

Centro de Investigación Científica y de Educación Superior de Ensenada, B.C.

MASSIVE SEQUENCING DATA ANALYSIS

Apr-20 - Jul-20

Centro de Investigación Científica y de Educación Superior de Ensenada, B.C.

OCEAN ACIDIFICATION AND ITS IMPACTS ON MARINE BIODIVERSITY

Aug-20 - Dec-20

Grants & Awards

CONACYT scholarship (N° 12947)

TO STUDY TOWARDS A M.S. DEGREE IN MEXICO

2007 - 2009

Deutscher Akademischer Austauschdienst (DAAD)

RESEARCH GRANT FOR DOCTORAL STUDIES IN GERMANY

2013 - 2017

Helmholtz Graduate School for Polar and Marine Research

TRAVEL GRANT TO PARTICIPATE IN THE CEMEB ADVANCE COURSE: "MARINE EVOLUTION UNDER CLIMATE CHANGE" IN SWEDEN.

2014

The Company of Biologist Travel Grant

TRAVEL GRANT TO PARTICIPATE IN THE "SOCIETY FOR EXPERIMENTAL BIOLOGY 2016 ANNUAL MEETING" IN THE UK

2016

Estancias Posdoctorales Vinculadas al Fortalecimiento de la Calidad del Posgrado Nacional

POSTDOCTORAL POSITION

2019 - 2021

Meetings & Conferences

Aug-20	XI Congreso Nacional de Ictiología - Poster	<i>La Paz, B.C.S., Mexico</i>
Nov-20	XII Foro Nacional Sobre El Atún - Talk	<i>Ensenada, B.C., Mexico</i>
May-20	61th Annual Tuna Conference - Talk	<i>Lake Arrowhead, US</i>
Oct-20	II Congreso Nacional de Investigación en Cambio Climático - Talk	<i>La Paz, B.C.S., Mexico</i>
Jul-20	Society for Experimental Biology 2016 Annual Meeting - Poster	<i>Brighton, UK</i>
Oct-20	Western Society for Naturalists 100th Annual Meeting - Poster	<i>Ensenada, B.C., Mexico</i>
Nov-20	VII Taller Nacional de Ecofisiología de Organismos Acuáticos - Talk	<i>Ensenada, B.C., Mexico</i>

Workshops

May-11	IV curso Internacional: Microarreglos en Biotecnología - (10 hours)	<i>Universidad Autónoma de Nuevo León</i>
Aug-12	Ocean Teacher Academy Training Course - (40 hours)	<i>UNESCO/IOC</i>
Dec-14	CeMEB Advance course: Marine Evolution under Climate Change - (40 hours)	<i>University of Gothenburg</i>
Aug-14	Introduction to the Dynamic Energy Budget Theory - (15 hours)	<i>Université de Bretagne Occidentale/CIBNOR</i>
Jul-16	Next-Generation Sequencing Data Analysis: A practical Introduction - (24 hours)	<i>EcSeq Germany</i>
Nov-16	How to publish in peer-reviewed journals - (38 hours)	<i>Tress & Tress GbR</i>
Apr-17	An Introduction to the omics sciences - (10 hours)	<i>Université de Bretagne Occidentale/CIBNOR</i>
Sep-19	Noncoding miRNA Massive Sequencing Data Analysis - (10 hours)	<i>CICESE</i>