



OSCAR PUEBLA

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CONTACT

Leibniz Centre for Tropical Marine Research (ZMT) Fahrenheitstraße 6 28359 Bremen Germany

e-mails: oscar.puebla@leibniz-zmt.de, oscar.puebla@uni-oldenburg.de webpage: http://www.puebla-lab.org Phone: +49(0)421 238 00-168

APPOINTMENTS & AFFILIATIONS

2024 – present	Program Area Leader (<i>Coastal Resources and Sustainable Blue Economy</i>) Leibniz Centre for Tropical Marine Research (ZMT, Bremen, Germany)
2019 – present	Group Leader & Professor (Fish Ecology and Evolution)
1	Leibniz Centre for Tropical Marine Research (ZMT)
	Institute for Chemistry and Biology of the Marine Environment (ICBM),
	University of Oldenburg (Germany)
2015 – present	Research Associate
•	Smithsonian Tropical Research Institute (Panama)
2016 – present	Guest Instructor (Biology and Ecology of Fishes)
1	Three Seas Program, Northeasten University (Boston, USA)
2014 - 2019	Group Leader & Junior Professor (Marine Speciation)
	GEOMAR Helmholtz Centre for Ocean Research Kiel (Germany)
	University of Kiel (Germany)
2012 - 2014	Associate Scientist
	Smithsonian Tropical Research Institute
2009 - 2012	Postdoctoral Fellow
	Smithsonian Tropical Research Institute
EDUCATION	
2003 - 2009	PhD in Biology (Neotropical Environment)
	McGill University (Montreal, Canada)
	Thesis: Molecular ecology and evolution in <i>Hypoplectrus</i> coral reef fishes
2000 - 2003	MSc in Oceanography, with distinction
	Department of Fisheries and Oceans Canada & University of Quebec (Canada)
	Thesis: Population genetic structure of the snow crab (Chionoecetes opilio)
1996 - 2000	BSc in Biology
	University of Lausanne (Switzerland)
	Specialisation in population biology, zoology, and marine biology

LANGUAGES

French	First language, fluent written and spoken
Spanish	Second language, fluent written and spoken
English	Third language, fluent written and spoken
German	Basic knowledge

Basic knowledge











42 peer-reviewed contributions, sum of the times cited 1301, h-index 19 (Google Scholar). Group members underlined.

<u>Coulmance F</u>, Akkaynak D, Le Poul Y, Höppner MP, McMillan WO, **Puebla O** (2024) Phenotypic and genomic dissection of color pattern variation in a reef fish radiation. *Molecular Ecology* 33, e17047

Hench K, Helmkampf M, McMillan WO, **Puebla O** (2022) Rapid radiation in a highly diverse marine environment. *Proceedings of the National Academy of Sciences of the USA* 119, e2020457119

Puebla O, <u>Coulmance F</u>, Estapé CJ, Estapé AM, Robertson DRR (2022) A review of 263 years of taxonomic research on *Hypoplectrus* (Perciformes: Serranidae), with a redescription of *Hypoplectrus affinis* (Poey, 1861). *Zootaxa* 5093, 101–141

<u>Peña J</u>, Nöldeke G, **Puebla O** (2020) The evolution of egg trading in simultaneous hermaphrodites. *The American Naturalist* 195, 524–533

<u>Hench K</u>, Vargas M, Höppner MP, McMillan WO, **Puebla O** (2019) Inter-chromosomal coupling between vision and pigmentation genes during genomic divergence. *Nature Ecology & Evolution* 3, 657–667

Moran BM, Hench K, Waples RS, Höppner MP, Baldwin CC, McMillan WO, **Puebla O** (2019) The evolution of microendemism in a reef fish (*Hypoplectrus maya*). *Molecular Ecology* 28, 2872–2885

<u>Picq S</u>, Scotti M, **Puebla O** (2019) Behavioural syndromes as a link between ecology and mate choice: a field study in a reef fish population. *Animal Behaviour* 150, 219–237

Puebla O, <u>Picq S</u>, <u>Lesser JS</u>, <u>Moran B</u> (2018) Social-trap or mimicry? An empirical evaluation of the *H. unicolor – C. capistratus* association in Bocas del Toro, Panama. *Coral Reefs* 37, 1127–1137

<u>Theodosiou</u> L, McMillan WO, **Puebla O** (2016) Recombination in the eggs and sperm in a simultaneously hermaphroditic vertebrate. *Proceedings of the Royal Society B* 283, 20161821

Puebla O, Bermingham E, McMillan WO (2014) Genomic atolls of divergence in coral reef fishes (*Hypoplectrus* spp, Serranidae). *Molecular Ecology* 23, 5291–5303

Puebla O, Bermingham E, McMillan WO (2012) On the spatial scale of dispersal in coral reef fishes. *Molecular Ecology* 21, 5675–5688

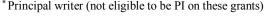
Puebla O, Bermingham E, Guichard F (2012) Pairing dynamics and the origin of species. *Proceedings of the Royal Society B* 279, 1085–1092

Puebla O (2009) Ecological speciation in marine v. freshwater fishes. J. Fish Biol. 75, 960–996

Puebla O, Bermingham E, Guichard F, Whiteman E (2007) Colour pattern as a single trait driving speciation in *Hypoplectrus* coral reef fishes? *Proceedings of the Royal Society B* 274, 1265–1271

SELECTED AWARDS AND COMPETITIVE GRANTS

2022	Research grant (PI)	DFG	264,237 EUR
2022	Research Cooperation grant (co-PI)	Lower Saxony & VW Foundation	300,000 EUR
2020	Research grant (PI)	DFG	163,950 EUR
2017	BiodivERsA (co-PI)	EU through DLR/BMBF	378,880 EUR
2016	The Future Ocean cluster grant (PI)	The Future Ocean	60,701 EUR
2016	SIBG – GGI grant (co-PI*)	Smithsonian Institution	49,555 USD
2016	Technology Seed Funding grant (PI)	GEOMAR	8,000 EUR
2015	Research grant (PI)	DFG	221,400 EUR
2015	The Future Ocean cluster grant (PI)	The Future Ocean	73,947 EUR
2013	Competitive Grants Program for Science (PI)	Smithsonian Institution	78,347 USD
2012	Scholarly Studies Program (co-PI*)	Smithsonian Institution	67,928 USD
2010	Research and Exploration grant (PI)	National Geographic Society	17,500 USD
2009	Postdoctoral fellowship	Marine Science Network	100,000 USD
2003 - 2007	McGill graduate & Levinson fellowships	McGill University - STRI	27,000 CAD
2000	Paul Blanc grant	Société Académique Vaudoise	15,000 CHF
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Smithsonian Tropical Research Institute





EDITORIAL AND REVIEWER EXPERIENCE

2014 – present	Associate & Advisory Editor for <i>Marine Biology</i> and <i>Environmental Biology of Fishes</i> , respectively (70 and 10 assignments with final disposition, respectively)
2008 – present	Reviewer for publications (97x) PNAS, Nat Ecol Evol, Nat Comm, Sci Adv (4x), Curr Biol, TREE, Proc Roy Soc B, Mol Ecol (23x), Evolution, Evol Appl, Am Nat, Genomics, BMC genomics, BMC Evol Biol, Heredity, Bioinformatics, Mol Ecol Res, Methods Ecol Evol, Ecol Evol, eDNA, Coral Reefs, MEPS, Mar Biol, J Mar Biol, Mar Env Res, Deep-Sea Res Part I, J Fish Biol, Rev Fish Biol Fish, Env Biol Fishes, J Appl Icht, J Oc Sci Found, Behav Ecol, Ethol, Eco Appl, Oecologia, J Anim Ecol, Biol Inv, Diversity, Syst Biodiv, Glob Ecol Biogeo, J Biogeo, Sci Rep, R Soc Open Sci, PeerJ, PLoS ONE,
2011 – present	Reviewer for research proposals (22x) European Research Council, national science foundations (USA, Germany, Switzerland, Austria, France, Netherlands, Iceland,), Smithsonian Institution, German Israeli Foundation for Research and Development, $\Sigma\Delta E$ Graduate Women in Science,
2015 – present	Reviewer for PhD theses (15x) James Cook University, Manchester Metropolitan University, Université de Montpellier, Université Grenoble Alpes, University of New Brunswick, University of Kiel, Universidad de Los Andes,

SELECTED TEACHING EXPERIENCE

2021 - present	Marine Ecological Genetics Lectures, seminars and supervised research, including since 2022 a computer practical led by Dr. Martin Helmkampf. Summer semester (BSc
2020 – present	and MSc Marine Environmental Sciences, University of Oldenburg) Marine Ecology Lectures and seminars, winter semester (BSc and MSc Marine
2016 – present	Environmental Sciences, University of Oldenburg) <i>Biology and Ecology of Fishes</i> Two-weeks intensive field course in Bocas del Toro,
-	Panama. Winter semester (Three Seas Program, Northeastern University)
2015 – 2019	<i>Marine Population Genomics</i> Lectures, seminars and supervised research. Summer semester (MSc Biological Oceanography, GEOMAR / University of Kiel)
2014 – 2019	Practical course in Oceanography One-week molecular lab practical, winter semester (MSc Biological Oceanography, GEOMAR / University of Kiel)
2013 – 2016	<i>Integrative Tropical Biology</i> Three-week IGERT field course for graduate students from the universities of Illinois at Urbana-Champaign, Arizona State and McGill. Coordinator (2013 –2014) and co-teacher (2013 –2016) (STRI, Panama)
2010 – 2012	Population Genetics Invited lecturer for undergraduate and graduate students, including lectures and computer laboratories (University of Panama)
2003 – 2008	Teaching Assistant Ecology (2003), Ecological Dynamics (2004, 2005, 2006), Introduction to Ecology and Evolution (2007), Basic Genetics (2008), Research in Panama (2005), Social Change in Panama (2007) (McGill University, Montreal)

SELECTED STUDENTS, POSTDOCTORAL FELLOWS AND SCIENTISTS SUPERVISED

Martin Helmkampf	Senior Scientist	ZMT	2019 – present
Melanie Heckwolf	Postdoctoral fellow	ZMT	Present
Jorge Peña	Postdoctoral fellow	GEOMAR	2016 - 2017
Floriane Coulmance	PhD	ZMT & Oldenburg University	2020 – present
Kosmas Hench	MSc & PhD	GEOMAR& Kiel University	2015 - 2020
Sophie Picq	PhD	GEOMAR & Kiel University	2014 - 2017
Cameron Walsh	MSc	Erasmus Mundus (MEME)	2019
Benjamin Moran	BSc	Northeastern University	2018









Puebla O (2023) Biodiversity science at the core of monitoring, management, sustainable use and protection of marine tropical resources. Keynote speaker. *Int. Conf. Mar. Science*, Cartagena, Colombia.

Coulmance F, Akkaynak F, Le Poul Y, McMillan WO, **Puebla O** (2022) Fine-mapping of colour pattern variation in the Caribbean hamlets provides insights into the genomic bases of phenotypic diversification. Contributed talk. *International Coral Reef Symposium*, Bremen, Germany

Hench K, Vargas M, Höppner MP, McMillan WO, **Puebla O** (2019) Inter-chromosomal coupling between vision and pigmentation genes during genomic divergence. Contributed talk. *European Society for Evolutionary Biology*, Turku, Finland

Hench K, McMillan WO, **Puebla O** (2017) Genomic Islands in the Caribbean Sea. Contributed poster. *Gordon Speciation Conference*, Lucca, Italy

Hench K, Picq S, Theodosiou L, McMillan WO, **Puebla O** (2016) Speciation and local adaptation in coral reef fishes (*Hypoplectrus* spp). Contributed talk. *FSBI Annual Symposium*, Bangor, UK

Puebla O (2016) Mutual mate choice, sexual selection and speciation. Contributed talk. *Simultaneously Hermaphroditic Organisms Workshop*, Bielefeld, Germany

Puebla O, Picq S, McMillan WO, Bermingham E (2015) Mutual mate choice and speciation. Contributed poster and flash talk. Poster award. *Gordon Speciation Conference*, Ventura, California

Puebla O, McMillan WO, Bermingham E (2014) Genomic atolls of divergence in *Hypoplectrus* coral reef fishes. Contributed talk. *Evolution Joint Meeting*, Raleigh, North Carolina

Puebla O, Bermingham E, Guichard F (2011) Pairing dynamics and the origin of species. Contributed talk. *Society for Integrative & Comparative Biology*, Salt Lake City, Utah

Puebla O, Bermingham E, Guichard F (2008) Genetic signature of the spatial scale of dispersal mediated by coral reef fish larvae. Contributed talk. *Joint Ocean Sciences Meeting*, Orlando, Florida

SELECTED SEMINARS

	Date (mviter)
University of Lausanne (Dpt. of Computational Biology), Switzerland	Nov 2023 (Salamin)
Okinawa Institute of Science and Technology (OIST-MEEDU), Japan	Aug 2023 (Laudet)
University of Virginia (Department of Biology), USA	Aug 2023 (Parichy)
Auburn University (Department of Biological Sciences), USA	Sept 2021 (Bernal)
Smithsonian Tropical Research Institute, Panama, Panama	Feb 2020 (STRI)
Carl von Ossietzky University of Oldenburg, Oldenburg, Germany	Jan 2018 (Gerlach)
National Center for Scientific Research (CNRS), Montpellier, France	June 2017 (Bierne)
University of Haifa (Biology Department) & IUI (Eilat), Israel	Nov 2016 (Treibitz)
U. of Oslo (Centre for Ecological and Evolutionary Synthesis), Norway	Nov 2016 (Jentoft)
University of Basel (Biology Department), Switzerland	Nov 2015 (Salzburger)
University of Tübingen (Biology Department), Germany	Nov 2015 (Michiels)
Sven Lovén Centre for Marine Sciences in Tjärnö (U. Gothenburg), Sweden	June 2015 (de Wit)
University of Bern (Biology Department) & Eawag, Switzerland	March 2015 (Seehausen)

FIELDWORK

Certified German Scientific Diver and Dive Mission Leader, 816 logged scientific dives

2004 - 2025 (13x)	Bocas del Toro Research Station, Panama
2004, 2005, 2009, 2010, 2017	Carrie Bow Cay Field Station, Belize
2017	Keys Marine Laboratory, Florida
2017	Magueyes Island Marine Laboratories, Puerto Rico
2010	Research cruise on S/V <i>Legacy</i> (Chief Scientist), Belize
2006	Research cruise on R/V Urraca (Chief Scientist), Honduras
2005	Research cruise on R/V <i>Urraca</i> (Chief Scientist), Guna Yala (Panama)
2005	Bellairs Research Institute, Barbados





Date (inviter)