



MetaZooGene Symposium Announcement and Program



New insights into biodiversity, biogeography, ecology, and evolution of marine zooplankton based on molecular approaches

Aviva Stadium, Dublin, Ireland - September 23, 2022

Convenors: Ann Bucklin (University of Connecticut, USA); Katja Peijnenburg (Naturalis Biodiversity Center, NL); Leocadio Blanco-Bercial (Bermuda Institute of Ocean Sciences, BM); Silke Laakmann (Helmholtz Institute for Functional Marine Biodiversity at the University of Oldenburg, DE)

Sponsor: Scientific Committee for Ocean Research (SCOR); MetaZooGene Working Group (SCOR WG157)

Hybrid format (in-person and online); Pre-registration required for all attendees

<https://metazoogene.org/symposium2022>

Time	Presenter & Co-authors	Title of Presentation
09:00		Welcome & Introduction to the MetaZooGene Symposium Session I. Diversity of the Pelagic Assemblage
09:15	Lidia Yebra, Isabel Ferrera, Ana María Cabello, Miriam Domínguez, Jessica Vannini, Genuario Belmonte, Nerea Valcárcel-Pérez, Candela García-Gómez, Francisco Gómez-Jakobsen, Rowena Stern, Jesús M. Mercado	Characterization of microzooplankton communities in a polluted coastal area integrating high-throughput sequencing and microscopy
09:30	Alica Ohnesorge, Stefan Neuhaus, Lucie Kuczynski, Sarah Taudien, Uwe John, Bernd Krock, Silke Laakmann	A view on zooplankton diversity in temperate waters inferred from organismal and environmental DNA metabarcoding
09:45	Cessa Rauch, Francisca C. Carvalho, Jon A. Kongsrud, Anders Hobæk, Tone Falkenhaus	Hyperbenthic copepods (HYPCOP) in Norwegian waters
10:00	Silke Laakmann, Astrid Cornils, Katja Metfies, Julian Koplin, Stefan Neuhaus, Carina Bunse, Barbara Niehoff, Hauke Flores	Integrative approach to study diversity and quantity of zooplankton in the Nansen Basin
10:15	Gabrielle Stedman, Oliver Kersten, Craig R. Smith, Jeffrey C. Drazen, Erica Goetze	Community ecology and spatial patterning of abyssal benthopelagic plankton in the CCZ
10:30	Ann Bucklin, Paola-Batta-Lona, Jennifer M. Questel, Mary Reid, Vickie You, Peter H. Wiebe	Population genetic diversity, structure, and connectivity of Euphausiacea based on COI barcodes: Implications for biodiversity and biogeography
10:45		Coffee Break Session II. Resources & Methods for Integrative Analysis
11:00	Todd D. O'Brien, on behalf of SCOR WG157 members and participants	The MetaZooGene Database (MZGdb): What we did, what we discovered, and where we are going next
11:15	Catherine L. Fitzgerald, James J. Pierson, Louis V. Plough	How methods influence results: comparing morphological vs molecular identification of zooplankton in the water column and in the stomachs of fish
11:30	Elizaveta A. Ershova, Tone Falkenhaus	Resolving biases in diversity estimates and quantitative interpretation of zooplankton metabarcoding data
11:45	Dennis van der Pouw Kraan, Conor Graham, Fiona Kavanagh, Luca Mirimin	Magnifying the resolution of (photo)microscopy with high-throughput molecular screening of important shellfish species in Irish coastal waters
12:00	Le Qin Choo, Giada Spagliardi, Pane Kamchev, Milan Malinsky, Erica Goetze, Darshika Manral, Erik van Sebille, Galice Hoarau, Jef Huisman, Katja Peijnenburg	Genome-wide SNPs reveal distinct population structure in the holoplanktonic snail <i>Limacina bulimoides</i>
12:15		Lunch Break - On site Session III. Understanding pelagic communities & food webs
13:30	Junya Hirai, Seiji Katakura, Satoshi Nagai	Interactions between marine viruses and planktonic copepod <i>Pseudocalanus newmani</i>
13:45	Fanyu Zhou, Junya Hirai, Koji Hamasaki, Atsushi Tsuda	Feeding ecology of three euphausiid species in the low-latitude Eastern Indian and South Pacific Oceans inferred from 18S V9 metabarcoding
14:00	Jacqueline L. Maud, Kevin Xu Zhong, Colleen Kellogg and Brian P.V. Hunt	Disentangling food webs: combining CRISPR with metabarcoding to understand zooplankton diets
14:15	Paola G. Batta-Lona, Joel K. Llopiz, Peter H. Wiebe, Ann Bucklin	DNA metabarcoding of diet diversity of <i>Salpa aspera</i> in the mesopelagic food web of the NW Atlantic

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Announcement and Program (continued)

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		Session IV. Virtual presentations (10 min each)
14:30	Marc Koh, Ilha Byrne, Iva Popovic, Sharon Appleyard, Stephanie Venables, Cynthia Riginos, Julian Uribe-Palomino	First barcoding of copepod Monstrilloids from two locations in Australian coastal waters
14:40	Weiwei Liu, Xiaofeng Lin, Yehui Tan	Biodiversity of aloricate oligotrich ciliates in typical coastal habitats of southern China and phylogenetic evolution
14:50	Luke McCartin, Annette F. Govindarajan, Jill McDermott, Santiago Herrera	Zooplankton environmental DNA community composition is structured by depth in the epipelagic Gulf of Mexico
15:00	Magot Maathuis, M. Polling, E.H. Nijhuis, M.M. Voorhuijzen, M.C. Keur, H.V. van der Vorst, M.M.A. Thijssen, S. Sakinan, R.G. Jak	Development of zooplankton monitoring in the shallow and turbid Dutch Wadden Sea integrating DNA metabarcoding and automatic image analysis
15:10	Aitor Albaina, Anders Lanzen, Naiara Rodríguez-Ezpeleta, Iñaki Mendibil, Naroa Aldanondo, Unai Cotano, Paula Alvarez	Diet assessment of North-East Atlantic hake (<i>Merluccius merluccius</i>) larvae by means of metabarcoding: pros and cons of the miniCOL metabarcoding approach.
15:20		Coffee Break
15:45		Poster Speed Talks (3 min each)
	Daniqve van Wijk, Iliana Bista, Daniëlle van der Burg, Geert-Jan Brummer, Katja Peijnenburg	Identifying pteropod diversity through metabarcoding of different types of environmental samples
	Bo A. Schouten, Lotte J. Bouwman, Catharina de Weerd, Jaap de Boer, Erica Goetze, Katja Peijnenburg	Integrative taxonomic approach uncovers hidden diversity within the elusive <i>Peracle</i> genus (Pteropoda)
	Giada Spagliardi, Le Qin Choo, Erica Goetze, Katja Peijnenburg	Species boundaries in the <i>Limacina</i> species complex
	Marcell Dénes, Gábor Endre Tóth, Rade Garič, Marijana Hure	Building the Adriatic Calanoid Database with the help of Oxford's MinION system.
	Pane Kamchev, Le Qin Choo, Milan Malinsky, Erica Goetze, Katja Peijnenburg	Using a targeted SNP panel to assess species boundaries in a pteropod from the Atlantic Ocean
	Xiping Lian, Jiaxing Liu, Chaolun Li, Yehui Tan	Effects of coastal current and upwelling on the distributions of <i>Calanus sinicus</i> in the northern South China Sea and its response to the environment
	Ana S. Lavrador, Fábio G. Amaral, Jorge Moutinho, Pedro E. Vieira, Filipe O. Costa, Sofia Duarte	Detection and monitoring of non-indigenous invertebrate species in recreational marinas through DNA metabarcoding of zooplankton communities in the North of Portugal
16:15		Open Discussion
17:00		Poster Session and Reception

This symposium is associated with International Council for the Exploration of the Sea (ICES) 2022 Annual Science Conference (19-22 September 2022), Dublin, Ireland

See: <https://www.ices.dk/events/asc/ASC2022/Pages/default.aspx>

For additional information:

Scientific Committee for Ocean Research: <https://scor-int.org/>

MetaZooGene SCOR WG157: <https://scor-int.org/group/157/> and <http://www.metazoogene.org/>

Please contact Ann Bucklin (Email ann.bucklin@uconn.edu) with questions and suggestions.

