

Symposium Announcement

Rediscovering pelagic biodiversity: Progress, promise, and challenges of metabarcoding of microbes to mammals



Convenors: Ann Bucklin (University of Connecticut, USA) and
Bengt Karlson (Swedish Meteorological and Hydrological Institute, Sweden)

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

Svenska Mässan, Swedish Exhibition & Congress Centre, Gothenburg, Sweden
September 13, 2019

Start	End	Authors (Presenter in Bold)	Title of Presentation
8:00	8:45	Registration & Coffee	
8:45	9:00	Welcome to the Symposium	Ann Bucklin and Bengt Karlson
9:00	9:05	Introduction to Session I	Session I: Diversity of the pelagic assemblage
9:05	9:20	Katja T.C.A. Peijnenburg , Le Qin Choo, Alice Burridge, Lisette Mekkes, Deborah Wall-Palmer, Erica Goetze	Diversity and evolution of pteropods along latitudinal transects in the Atlantic Ocean
9:20	9:35	Leocadio Blanco-Bercial	Annual cycle of mesozooplankton in the Sargasso Sea
9:35	9:50	Carolina E. González , Erica Goetze, Rubén Escríbano	Genetic structure and endemism in the cosmopolitan copepod <i>Pleuromamma abdominalis</i> in the Southeast Pacific
9:50	10:05	Junya Hirai , Kiyotaka Hidaka, Satoshi Nagai, Yugo Shimizu, Tadafumi Ichikawa	Metabarcoding analysis of planktonic copepods in the Kuroshio region off the southern coast of Japan
10:05	10:20	Deborah Wall-Palmer , Katja T.C.A. Peijnenburg	Raising awareness of the atlantid heteropods (Gastropoda, Pterotracheoidea) - calcifying holoplanktonic predators.
10:20	10:35	Henna Savela , Sanna Suikkanen, Anke Kremp	Seed banks as reservoirs of diversity driving evolutionary dynamics and persistence of Baltic phytoplankton in a changing environment – the RESERVOIR project
10:35	11:00	Coffee Break	
11:00	11:05	Introduction to Session II	Session II: Data and database resources
11:05	11:20	Ryuji Machida , Matthieu Leray, Nancy Knowlton	GenBank is a reliable resource for 21st century biodiversity research
11:20	11:35	Li Chaolun , Wang Minxiao, Cheng Fangping, Wang Xiaodong	Assessment of metabarcode as advanced tools
11:35	11:50	Todd D. O'Brien	MZGdb: The MetaZooGene database
11:50	12:05	Johannes Alneberg, Christin Bennke, Sara Beier, Carina Bunse, Christopher Quince, Karolina Ininbergs, Lasse Riemann, Martin Ekman, Klaus Jürgens, Matthias Labrenz, Jarone Pinhassi, Anders F. Andersson	A comprehensive catalogue of Baltic Sea bacterioplankton genomes
12:05	13:15	Lunch on Site	
13:15	13:20	Introduction to Session III	Session III: Exploring the potential of metabarcoding
13:20	13:35	Sergio Stefanni , Diana Catarino, Elio Biffali, Raimondo Pannone, Andrea Tarallo, Clara Loureiro, Ana Martins, David Stankovič	A "cold case" of metabarcoding analysis unravel hidden mesozooplankton diversity at two Azorean seamounts and neighboring island slopes (NE Atlantic)
13:35	13:50	Tatiana Neretina , Glafira Kolbasova, Anna Zhadan, Nikolai Neretin, Ksenia Kosobokova, Alexander Tzetlin	ITS sequences in marine invertebrates metabarcoding
13:50	14:05	Paola G. Batta-Lona , Joel K. Llopiz, Annette Govindarajan, Ann Bucklin	Metabarcoding analysis of salp diets and trophic relationships in mesopelagic food webs
14:05	14:20	David Stankovič , Diego Borme, Valentina Tirelli, Alberto Pallavicini, Sergio Stefanni	A DNA metabarcoding approach to diet comparison in two sympatric pelagic fish in the Adriatic Sea – European sardine (<i>Sardina pilchardus</i>) and European anchovy (<i>Engraulis encrasicolus</i>)
14:20	14:35	Masaki Miya	Environmental DNA metabarcoding enables a data-driven approach for fish community research in large spatial and temporal scales
14:35	15:00	Coffee Break	
15:00	15:15	Bengt Karlson , Markus Lindh, Anders F. Andersson	Metabarcoding identifies previously unknown diversity of pelagic Cyanobacteria in the Baltic Sea and the Kattegat and the Skagerrak.
15:15	15:30	Ann Bucklin , Jennifer M. Questel, Bo Reese, Nancy J. Copley, Peter H. Wiebe	Time-series analysis of zooplankton diversity of the NW Atlantic continental shelf based on 18S rRNA metabarcodes

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15:30	16:15	Poster Speed Talks (3 minutes each)	Session I Posters: Diversity of the pelagic assemblage
	1	Eileen Bresnan , Catherine Collins, Rowena Stern, Joe Taylor	The use of metabarcoding to investigate the microbial and fungal communities at the Scottish Coastal Observatory monitoring site at Stonehaven in the north east of Scotland
	2	Monika Mioduchowska, Anna Iglukowska, Agata Weydmann-Zwolicka	HIDEA – Hidden diversity of plankton in the European Arctic
	3	Lotte J. Bouwman, Alice Burrige, Jaap de Boer, Catharina M.H. de Weerd, Erica Goetze, Katja T.C.A. Peijnenburg	Linking juvenile and adult pteropods from the Atlantic Ocean through DNA barcoding, with special attention to the elusive Pseudothecosomata
	4	S.S. Gunasekara, R.R.P.K. Jayasinghe , J.-O. Krakstad, A. Totland, H.M.P. Kithsiri	Evaluation of historical changes in coastal fisheries of Sri Lanka using length-based indicators
	5	Björn Källström , Erik Selander, Thomas Dahlgren, Annette Govindarajan, Carina Östman	The toxic and cryptogenic clinging jellyfish <i>Gonionemus</i> sp. (Hydrozoa, Limnomedusae) on the Swedish west coast
	6	Melissa Wojcicki , Sarah Glancy, Joel K. Llopiz, Ann Bucklin	Session II Posters: Exploring the potential of metabarcoding Discovering food web interactions in the ocean twilight zone: metabarcoding analysis of the diet of mesopelagic fishes
	7	Joëlle van der Sprong , Katja T.C.A. Peijnenburg	Cryptic species in open ocean holozooplankton - are they real?
	8	E.A. Ershova , O.S. Wangensteen, C. Barth-Jensen, K. Praebel	A step towards quantitative metabarcoding of zooplankton communities
	9	Maria Prager , Diego Brambilla, Daniel Lundin, Anna Rosling, Jeanette Tångroth, Anders F. Andersson	Session III Posters: Data and database resources Mobilizing sequence-based observations into Biodiversity Atlas Sweden: An Open-Science effort to make metabarcoding data easier to process, publish and re-use
	10	Alexandra Frenzel , Paola G. Batta-Lona, Peter H. Wiebe, Todd O'Brien, Ann Bucklin	DNA barcoding the Euphausiacea: taxonomic and biogeographic analysis using COI
	11	Deborah Wall-Palmer , Katja T.C.A. Peijnenburg	Shelled Heteropod Identification Portal (planktonic.org)
	12	Hobaek, A. and Falkenhaug, T.	Building Barcode Libraries of Norwegian microcrustaceans
16:15	17:00	Discussion Session	Discussion leaders: Anders Andersson and Katja Peijnenburg
17:00	18:00	Poster Session and Reception	

The **MetaZooGene Symposium Program and Abstracts**
can be found online at the SCOR WG157 MetaZooGene website
(see <https://metazoogene.org/>).

This symposium is associated with UNESCO - Intergovernmental Oceanographic Commission (IOC) and International Council for the Exploration of the Sea (ICES)
2019 Annual Science Conference (September 9-12, 2019 in Gothenburg, Sweden)
See: <http://www.ices.dk/news-and-events/asc/asc2019/Pages/default.aspx>