Poster session

Poster Session I

Theme 1. Ecosystem function and services

Paco Cárdenas	Tiny architects of the intertidal: how sponges enhance biodiversity.

Theme 2. Sponge symbioses

Manon Broadribb	Artificially induced dysbiosis heightens sponge thermal stress response.
Emily Parker	Checking back in: resurveying the infauna community of “sponge hotel” *Halichondria panicea* after six decades.
Cara Fiore	Diverse host-microbe interactions within the microbiome of freshwater sponges.
Laura Núñez Pons	Optimized *in situ* sampling methodology for analysing organismal filter feeding water fluxes.
André Padua	Macrofauna associated with the invasive sponge *Heteropia glomerosa* (Porifera, Calcarea) in the Southwestern Atlantic.
Valerio Mazzella	Natural seawater acidification drives microbial and metabolomics shifts in a temperate sponge from the Mediterranean Sea.
Claudia Ferreira	Comparative genomics analyses of Actinobacteriota identify Golgi phosphoprotein 3 (GPP34) as a widespread ancient protein family associated with sponge symbiosis.
Anna Salvatori	Adapting to the future ocean: The hidden power of microbes in *Chondrilla nucula*.
Joana F. Couceiro	*Aquimarina aquimarini* sp. nov. and *Aquimarina spinulae* sp. nov., novel bacterial species with versatile natural product biosynthesis potential isolated from marine sponges.
Nicole de Voogd	Adaptive strategies in sponge holobionts across mesophotic and rariphotic depths revealed by multi-omics approaches.
Carmen Rizzo	Exploring the biotechnological potential of bacteria isolated from Arctic *Myxilla* sp. and *Haliclona* sp. sponge specimens.
Shahad Abbas	Microbial associates of marine sponges from Kuwait: A culture-dependent and -independent investigation of their diversity and activities.
Robert Thacker	Common gardens of *Halichondria* reveal divergent microbiomes.

Theme 5. Organismal Biology

Lara Beckmann	Diversity and reproductive strategies of Alaska’s deep-sea sponges.
Nikolai Melnikov	Transcriptional network controlling distinct modes of regeneration in *Halisarca dujardinii* (Demospongiae, Chondrillida).

Vasiliy Zubarev	Comparison of single-cell gene expression profiles shed light on the origin of sponge cell types.
Stephen Kolomyjec	Establishing baseline spicule malformation rates for seven species of freshwater sponge (Porifera: Spongillidae).
Dennis Lavrov	Exploring links between unusual mitochondrial genome organization, mRNA editing, and population biology in Calcaronean sponges.
Anton Bogomolov	From below zero to hero: cellular basis of early development in the asexual reproduction of the freshwater sponge *Ephydatia fluviatilis*.
André Pádua	The resilience of the exotic calcareous sponge *Heteropia glomerosa* after fragmentation events.
Aleksandra Koinova	Sponges in the past and today: Do they reproduce the same way?
Deborah Gochfeld	Effects of ocean acidification and elevated temperature on *Aplysina cauliformis* affected by *Aplysina* Red Band Syndrome.
Sol María Vásquez Grados	Population density, size structure and reproductive cycle of *Leucandra losangelensis* (Calcarea, Calcaronea) in Laguna Grande (Paracas, Peru).
Thanos Dailianis	Linking shifts to physiology, microbiome, and morphology in *Chondrilla nucula* under future ocean conditions.
Emilie Le Goff	The carnivorous sponge *Lycopodina hypogea*: A fascinating top-(non-yet) model!
Nelly Godefroy	Study of focal adhesions in the carnivorous sponge *Lycopodina hypogea.*
Alexander Ereskovsky	Organisation and ultrastructure of the filaments, stalk and foot of carnivorous sponge *Lycopodina hypogea* (Demospongiae, Poecilosclerida).
Emilio Lanna	Comparing primary and tertiary protein structures to understand why so many WNTs in Calcarea (Porifera).
Kim Adameyko	Warm-up and recovery: HSF1 and heat shock proteins driving cell reaggregation in *Halisarca dujardinii*.
Miguel Rocha	Investigating the stiffening phenomenon in *Chondrosia reniformis* using high-throughput transcriptomic and proteomic analyses.
Anshika Singh	When sponges fight back: Molecular responses of *H. oculata* to vibrio toxins.
Sofia Almodovar	The potential speciation of the sea sponge *Chondrilla nucula*.
Mona Sabha	Collective motion of spicules in early developmental stages of *Ephydatia fluviatilis*.
Morgane Monteil	Climate-driven change of the bath sponge *Spongia officinalis* reproduction over two decades.

Theme 6. Biotechnological Applications

Bartosz Leśniewski	How to create magnetic sponges using steel melting on 3D carbonized spongin scaffolds.
Izabela Dziedzic	Creation of 3D chitin-chitosan scaffolds obtained from *Aplysina aerophoba* demosponge.

Martyna Kotula	Extreme biomimetics of poriferan spongin: Formation of 3D graphite scaffolds via the carbonization at temperatures up to 2200°C.
Marco Giovine	Collagen beads from *Chondrosia reniformis* as antioxidant-retaining biomaterials for wound environments.
Ivan Patrick Tualla	*In silico* enzyme mining for the discovery of novel extremozymes from sponge microbiomes.
Carlos Serrano	Exploring the aquaculture potential of *Chondrosia reniformis*: a focus on growth dynamics.
Alice Bagnato	Marine sponge ECM characterization for sustainable cell cultures and bioinspired biomaterials.
Shirley Pomponi	A novel cryoprotectant for marine sponges and beyond.
Tiago Silva	Exploring the potential of *Chondrosia reniformis* collagen on the production of tissue engineering scaffolds.
Daniel Despujols	DEEP-Biobank.

Theme 7. Sponges in human history

Caterina Longo	Sponge farming benefits from the conditions provided by Integrated Multi-Trophic Aquaculture (IMTA) system.

Theme 8. Conservation and Restoration

James Bell	High-resolution 3D modeling of small sponges using bug-eye lens photogrammetry in Fiordland, New Zealand.
Shelly Krueger	Sponge restoration aquaculture: reproductive viability following *in situ* nursery propagation for 4 nearshore Spongiidae species in the Florida Keys, Florida USA.
Andrea Corral Lou	Comparative assessment of freshwater biodiversity in the Los Morales reservoir (Madrid) using eDNA collected from sponges and water filtration.

Poster Session II

Theme 3. Taxonomy and systematics

Ada Bandi	Assessment of possible changes in sponge communities of rocky cliffs and semi-submerged sea caves: comparison between present and past.
Anna Reboa	Marine sponges from the Chilean fjords: Biodiversity and silicon isotope analysis.
Antonella Schiavo	Sponge fauna diversity of submerged and semi-submerged marine caves of the Apulian coast (Southern Italy, Mediterranean Sea).
Beatriz Sá	Diversity and biogeography of the genus *Petrosia* (Porifera, Petrosiidae) across the Atlanto-Mediterranean region.
Christine Morrow	Integrating morphological and molecular taxonomy to investigate the phylogenetic relationship of Hemiasterellidae and *Jaspis*.
Fenja Marret Noller	Biodiversity of Chalinidae (order Haplosclerida) in the Mediterranean Sea with the identification of an unknown mesophotic species.

Fernanda F. Cavalcanti	*Sycon* (Porifera, Calcarea) from the Southwestern Atlantic Ocean revealed by morphological and molecular analyses.
Filipe Simões	*Halichondria* cf. *sulfurea* Carvalho & Hajdu, 2001 (Halichondriidae: Demospongiae) from Ilha Grande Bay, Southeast Brazil: First record and redescription.
Geremiah Perkins	Utilizing spicules in sediment samples to further define species richness of freshwater sponge populations in Louisiana.
Grigori Morozov	Infinite jest: A 300-year-old confusion surrounding *Suberites* from the Arctic realm.
Dennis Lavrov	Multiple origins of *Plakortis*-Haploscerida symbiosis and a discovery of a cryptic *Haliclona* species.
Javier Cristobo	Preliminary results of Porifera collected by 2024 FAO survey leg 4.2, bottom habitat mapping in Namibia.
Joana Sandes	Excavating sponge from a newly discovered submerged reef near the mouth of the São Francisco River, in Northeastern Brazil.
Magdalena Łukowiak	A database of sponge spicules.
Verónica Llorente	Exploring taxonomic diversity in the genus *Suberites* Nardo, 1833: Insights from microbial, phylogenetic, and morphological analyses.
Carlos Serrano	Boring sponge biodiversity in a Mediterranean red coral population.
Mary Miller	The Louisiana Freshwater Sponge project: A comprehensive analysis of the freshwater sponge population and its shift in species richness.
Sven Zea	Returning to the roots of biodiversity: launching the 4th edition of “The Sponge Guide”, an online tool to identify Caribbean sponges
Sven Zea	Sponges from the Colombian Eastern Pacific global biodiversity hotspot, with the description of new records.
Nuno Simões	Expanding the frontiers of freshwater sponges: First record of *Ephydatia robusta* in Yucatán’s Cenotes.
Pilar Ríos	Topsent's sponge collections at the museums of Monaco and Paris.
Svenja Burth	Reassessing the phylogenetic position of *Crambe acuata* using molecular, morphological and chemical analyses.
Carlota Amoda	Advancing knowledge of mesophotic and deep-sea sponges of the Mozambique shelf based on video imagery and integrative taxonomy
Paula Catasús	Calcareous sponges in the age of participatory science: A taxonomic assessment from the Catalan Coast.
Ulisses Pinheiro	Natural History Museum of Bahia (Brazil) saving new species of *Clionaopsis* from Atlantic Ocean.

Theme 4. Biodiversity and Biogeography

Micha Ilan	The relationship between habitat complexity and sponge biodiversity in mesophotic habitats.
Clement Cabioch	Global diversity of Homoscleromorpha and biogeography patterns.

Jia Yi Lim	Do bioeroding sponges at Dongsha Atoll show a positive correlation to nutrient concentration?
Nicholas Teegarden	Revisiting freshwater sponge history: A review of the Michael Poirrier collection.
Liron Goren	From local observations to basin-wide understanding: A call for collaborative research on mesophotic sponges.
Manuela Ramos	Building upon Topsent's legacy: applying an integrative approach to shed light on Azorean deep-sea sponge fauna.
Sigal Shefer	Old news: new insights from old specimens.
Marieve Bouchard Marmen	Sponges from the Scotian Shelf and Bay of Fundy, Canada.
Emily Rutkowski	Cryptic yet consequential: Understanding native and non-native sponge biodiversity and dispersal in Kāneʻohe Bay.
Livia Lioni	Environmental effects on the population dynamics of the invasive species *Heteropia glomerosa* (Porifera: Calcarea).
Paco Cárdenas	Re-exploring the sponge fauna in Sri Lanka.
David Arouca	Assessing the conservation status of the marine sponge fauna of Portugal.
Andreu Santin Muriel	Deep-sea Porifera in Areas Beyond National Jurisdiction: The 2024 Digital Depth cruise sponge collection (Central Pacific).
Dana Milena Liendo Roggia	Few but strong: dominance of intertidal sponges in impacted zones of a Patagonian bay.
Celso Domingos	An expert-curated dataset of Glass sponges (Porifera: Class Hexactinellida) across the Atlantic and Arctic Oceans.
Patrick Cabaitan	Exploring Philippine sponge diversity from shallow to upper mesophotic reefs.