

**Dec 3rd (Tuesday evening)**

20:00 22:00 Ice breaker & student meeting @ Abraham Hostel, Eilat (hosted by the IUI student body)

**Dec 4th (Wednesday )**

		Auditorium	Room 122	Room 213	Room 207
8:30	9:30	Science exposure activity to high-school students. Dr. Liat Koch	Workshop: Applying AI to Marine Research. Dr. Gilad Antler	Workshop: How to write the right CV? Lachan Roth	Marine & Aquaculture Msc & PhD programs in Eilat
9:30	10:00	Coffee & refreshments			
10:00	10:25	<b>Opening &amp; Greetings:</b> Prof. Yeala Shaked & Dr. Raz Tamir (meeting chairs), Mr. Eli Lankry (mayor of Eilat), Prof. Nir Keren (IUI scientific director), Prof. Ofer Ovadia (dean of BGU campus)			
10:25	10:50	<b>Keynote #1: Dr Nicolas Pade</b> (Executive Director, The European Marine Biological Resource Centre (EMBRC) TBA			
10:50	11:15	<b>Keynote #2: Prof. Eli Tziperman</b> (Harvard University). On the difficulty of a rapid attribution of extreme events to anthropogenic climate change			
11:15	11:30	Transition to sessions (+coffee)			

		Auditorium	Room 206	Room 207	Room 213	Room 122
11:30	11:45	<i>Drugs in the sea: pharmaceutical contamination along the coasts of Israel</i> Noa Shenkar	<i>Air-sea interactions in stable atmospheric conditions: lessons from the desert semi-enclosed Gulf of Eilat (Aqaba)</i> Nadav Lensky	<i>Switch in parasitic and autotrophic-dominated protist assemblages through seasons in the Gulf of Aqaba</i> Miguel Frada	<i>Calcium carbonate precipitation in the ocean: The role of biomineralization</i> Jonathan Erez	<i>Development of tractable coral models for understanding their biology</i> Esti Winter
11:45	12:00	<i>Pollutant Concentrations in Urban Runoff During Rainfall Events in the Gulf of Eilat</i> Rachel Armoza Zvuloni	<i>Extreme surface latent heat flux in the tropical and subtropical oceans governed by extratropical atmospheric dynamics</i> Tsruya Yaari-Sadeh	<i>Death at sea: the dynamics of Prochlorococcus mortality due to nutrient starvation across genomic and geographic diversity</i> Yara Sousman	<i>Intracellular Calcification of Coccolith Calcite Revealed by Cryo Electron Tomography</i> Oz Ben-Joseph	<i>A recipe for regeneration- Investigation of wound healing in the solitary tunicate Ciona robusta</i> Tal Gordon
12:00	12:15	<i>Seasonal dynamics of mercury associated with zooplankton in Haifa Bay</i> Elias Mizrahi	<i>The role of ocean processes in future Northern Hemisphere mid-latitude winter precipitation changes</i> Noga Liberty Levi	<i>The origins of death at sea: Characterizing conserved cell death genes in distant algae</i> Avia Mizrahi	<i>The contribution of fecal pellets to export production and trace element fluxes in the Gulf of Aqaba</i> Clara Flintrop	<i>How does a coral dance? A neurobiological study of soft coral pulsation</i> Elinor Nadir
12:15	12:30	<i>Do marine protected areas provide marine fish protection against metal pollution?</i> Debra Ramon	<i>Influence of Tropical Sea Surface Temperatures on Sub-Seasonal Precipitation in the Middle East</i> Assaf Hochman	<i>Sialic acid modification attenuates viral infection in a cosmopolitan alga</i> Ben Labbel	<i>The chemical and physical properties of suspended particles in the Red Sea: towards quantification of marine snow and the ballasting effect</i> Aden Clarfield	<i>Metagenomic assembly and characterization of marine plasmids: Depth-dependent distribution of plasmids and resistance genes</i> Shay Tal
12:30	12:45	<b>Lunch 1st group</b>	<i>The relation of extra-tropical advected ocean heat anomalies and ENSO</i> Maya Shourky Wolff	<i>Annual dynamics of cyanophage abundances and their infection in the Sargasso Sea</i> Camelia Shopen Gochev	<i>The effect of carbonate chemistry on the incorporation of trace elements into shells of benthic foraminifera</i> hagar hauzer	<i>Life Cycle and Morphogenetic Differentiation in Heteromorphic Cell Types of a Cosmopolitan Marine Microalga</i> Laurie Bousquet
12:45	13:00	<i>Near zero waste biofloc-based ras – overview</i> Amit Gross	<i>Pacific cold-tongue bias in CMIP linked to shifts in extratropical subduction zones</i> Ori Adam		<i>Monthly trace element patterns in planktic Foraminifera from the Gulf of Aqaba</i> Noy Levy	
13:00	13:15	<i>Coupling anaerobic digestion with aquaponics to promote the circular economy in arid zones</i> Ze Zhu	<i>Intra-Seasonal Oscillations in the Eastern Mediterranean: Atmospheric Influence and Oceanic Response</i> Hezi Gildor	<i>Evaluating the impact of fossil fuel pollution events on the Israeli Continental shelf ecosystem</i> Gideon Gal	<i>CO2 sequestration by CaCO3 dissolution: Laboratory experiments, kinetics and implications</i> adam levi	<i>Rhopilema nomadica in the Mediterranean: molecular evidence for migration, ecological hypothesis regarding its proliferation and first attempt in understanding its swarm coherence mechanism</i> Eyal Heifetz & Zafir Kuplik
13:15	13:30	<b>Lunch 2nd group</b>		<i>Location location location!" - The potential impact of hydrocarbon exploration in the Israeli Mediterranean on natural and socioeconomic assets</i> Igal Berenstein		<i>Unveiling the Microbiome of Rhopilema nomadica: From Broad-Scale Patterns to Endozoicomonas Genomic Insights</i> Noga Barak
13:30	13:45	<i>Mic-RAS: A photo membrane bioreactor-based recirculating aquaculture system where fish waste becomes a product</i> Maya Moshkovitz		<i>Measurement of oil slicks thickness using interferometry</i> Jean-Pierre Obeid	<i>An Integrated Approach to Measure Photosynthetic Performance Provides Deeper Insights Into Thermal Tolerance in Microcystis aeruginosa</i> Oded Liran	<i>Can we use aeolid nudibranchs to find cryptic jellyfish polyps at sea?</i> Hila Dror
13:45	14:00	<i>Species sorting by seaweed Ulva and marine periphyton governs microbial community assembly along effluent treatment</i> Dzung Nguyen		<i>Nutrient Supplemented Carbonized Aerogels for Adsorption and Enhanced Biodegradation of Hydrocarbons in Aqueous Environments</i> Danit Lisa Karsagi Byron	<i>Chemoautotrophic and photoautotrophic inorganic carbon fixation rates in the oligotrophic Eastern Mediterranean Sea and Northern Red Sea.</i> Tom Reich	<i>Invasional meltdown: How jellyfish facilitate non-indigenous fish dominance?</i> Tamar Guy-Haim
14:00	14:15	<b>Lunch 3rd group</b>	<i>The statistics of Eastern Mediterranean Sea currents</i> Yosef Ashkenazy	<i>Bioremediation Potential of Alcanivorax: Exploring Hydrocarbon Colonization and Degradation Strategies</i> Matan Oren	<i>The rotation of fish eggs relative to the surrounding water and its implication to mass transfer</i> Maya Van Gelder	<i>Parasites in gelatinous zooplankton</i> Anastasiia Iakovleva
14:15	14:30	<i>A T6SS in the coral pathogen Vibrio coralliilyticus secretes an arsenal of anti-eukaryotic effectors and contributes to virulence</i>	<i>Northbound Transport of the Mediterranean Outflow and the Role of Time-Dependent Chaotic Advection</i>	<i>Detecting Microplastics in the Ocean: Unveiling Spectral Signatures for Enhanced Identification</i>	<i>Spatio-Temporal Patterns of Water Flow in Pulsating Corals</i>	<b>Jellyfish – seemingly simple passive feeders, yet wonderfully complex animals</b>

14:30	14:45	Shir Mass <i>Unveiling the mechanisms behind positive and negative interactions in marine microbial communities: A mathematical exploration of Prochlorococcus</i> - Osnat Weissberg	Microbial interactions in aquatic environments	Ori Saporta-Katz <i>The role of mesoscale features in shaping microplankton dynamics in the Eastern Mediterranean Sea</i>	Physical processes in seas	Gili Kurtser <i>Biological filtration and digestion: Impact on polystyrene and polylactic-acid microplastics particles in marine ecosystems</i>	Dror Malul <i>How corals make reefs: a geochemical perspective of coral biomineralization</i>	Marine Photo	Alcohol in fish feeding  Shenan Harpaz <i>Recycling of crop waste through growth of black soldier fly larvae: A sustainable source for fish feed</i> Manikandan Arumugam  <i>A rainbow trout (Oncorhynchus mykiss) artificial intestine platform to test new feed formulas</i>  Marcelo Chacon <i>Assessing the nutritional value of biofloc produced in a RAS as a feed ingredient using Artemia as a model organism</i> Vandana Pandey <i>A novel marine bacterium as a probiotic supplement to improve health, feed digestion, and resilience of the gilthead seabream (Sparus aurata)</i> Ajit Dake <i>Integrated pest management in aquaculture using monosex prawn biocontrol agents: the Emek HaMa'ayanot case study between 2017-2023</i> Sharon Moscovitz <i>A step forward towards sustainable aquaculture</i> Guy Rubinstein <i>The reduction of forage fish for fishmeal harms both the fish consumers and the marine ecosystem</i> Amir Neori and Moshe Agami
14:45	15:00	<i>Cell-to-cell heterogeneity drives host-virus coexistence in a bloom-forming alga</i> Nir Joffe		Merav Gilboa <i>HF radar observations collected over 4 years in the southern Israeli coast</i> Jacob Zaken		Eden Harel sharon ram			
15:00	15:15	<i>Influence of temperature on cyanobacteria-cyanophage interactions</i> Laure Arsenieff		<i>Wave (from) Polarized Light Learning (WPLL) method: high resolution spatio-temporal measurements of water surface waves in laboratory setups</i> Noam Ginio		<i>Monitoring Ecological Shifts in Israeli Marine Reserves: Impact of Enforcement</i> Ori Frid Landau	Ecosystem Monitoring - new tools and concepts	Sediments & groundwater	
15:15	15:30	<i>Aerobic methane production in Nitrogen-depleted oceanic regions</i> Jaime Abdiel Lazaro Grcia		<i>Internal wave whispering gallery modes – a mechanistic explanation to energy transfer in submarine canyons</i> Nimrod Bratspiess		<i>Automated Reef Fish Monitoring with High-Resolution Video and AI</i> Victor Rina (China)			
15:30	15:45	<i>A matter of choice: The interactions between foraminifera and their seagrass host, Halophila stipulacea</i> Sarit Ashckenazi-Polivoda		<i>Hydrodynamic modulations of sea-clutter in coastal environment</i> Nir Haim		<i>The first moored station at the deep eastern Levantine basin (DEEPLV) – new insights from multi-annual synchronized measurements since 2016</i> Timor Katz			
15:45	16:00	<i>Copepod-associated, rather than seawater microbial communities reflect the spatial and environmental heterogeneity of the Mediterranean Sea</i> Ximena Dubinsky-Velasquez		<i>Seiche-induced fish-kills in the Sea of Galilee may explain the biblical miraculous catch of fish</i> Ehud Strobach		<i>Characterizing the Ocean Data Ecosystem– A review of the new Ocean Data Professional</i> Maya Bloch Haimson			
16:00-17:00	Poster Session & Beer							16:00-16:15	

17:00- 18:00	<b>Auditorium</b> <b>Research Updates</b> Updates from IUI, IOLR, MERCI, BGU (Eilat) Updates on Eilat's sea urchins & 2024 heatwave Updates from SeaNovation & Eilat-Eilat Aquaculture Park	<b>Room 122</b> <b>What EMBRC can offer us?</b>  Informal meetings with Dr Nicolas Pade on EMBRC opportunities for students & researchers	<b>Lawn</b> <b>Let us hold it together</b>  Two parallel informal sharing circles discussing war-related challenges: 1. Impact of research duty on student research 2. Keeping international ties
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Evening activity @ abraham's hostel  
20:00 21:30 "Research Acts" - Elad theater improvisation show on the daily lives of marine researchers

<b>Dec 5th (Thursday)</b>		<b>Ben Gurion Campus - Keynotes &amp; parallel lecture sessions</b>	
8:00	8:30	Gathering & coffee at BGU campus main building	
8:30	8:35	<b>Opening &amp; Greetings:</b> Mr. Alon Zask (IOLR, Director General)	
8:35	9:05	<b>Keynote #3: Prof.Hanna Rosenfeld.</b> National Marine Center -Future Direction Leading Aquaculture Research in Israel	
9:05	9:20	IAAS General assembly & Award Ceramony honoring research students who serve on reserve duty	

9:20 10:30 Poster Session & Coffee

		Room 207	Room 206	Room 213	Auditorium	
10:30	10:45	<b>The development of feeding behavior in Gilthead seabream larvae</b> Amir Bitan	<b>Coral Refuge in The Gulf of Aqaba to Common Reef-building Corals During the 2024 Global Coral Bleaching Event</b> Na'ama Rose Kochman	<b>Dynamics of Shallow Groundwater in Lake Kinneret During Level Change</b> Shaked Stein	<b>Algae4IBD-Algae as a sustainable source fo</b> Dorit Avni  <b>Transgene expression regulation in marine</b> Naama Segal  <b>Israel National Culture Collection of Algae (I</b> Ruth N. Kaplan-Levy  <b>Can we grow Salmon in the desert?</b> Baruch Dach  <b>Navigating Innovation: Building Scalable Sa</b> Aran Lavi  <b>From Lab to Plate</b> Amir Sagi  <b>Sustainable Seas: Cultivating the Future</b> Orna Harel  <b>Strategic plan for Aquaculture in Israel - 205</b> Amit Savaya	
10:45	11:00	<b>The Hunger Games – A Glimpse into larval fish prey capture behavior in-situ in aquaculture</b> Shir Bar	<b>Adapting to the future: Salinity and temperature tolerance of the non-indigenous ascidian Phallusia nigra</b> Amit Unger	<b>Methane gas in sediments of Lake Kinneret: a multiannual acoustic investigation and correlation analysis</b> Boris Katsnelson		
11:00	11:15	<b>Genome Editing for Improved Crustacean Aquaculture: Achievements and Challenges</b> Hanin Wattad	<b>Unlocking carbon sequestration potential for a coral-based marine animal forest</b> Giovanni Giallongo	<b>Radium isotope insight into the stratification history of the meromictic Lake Kivu</b> Yishai Weinstein		
11:15	11:30	<b>The green seaweed Caulerpa nummularia as a potential source for food and antioxidants</b> Eitan Salomon	<b>What doesn't kill you, makes you stronger: a half-decade study reveals an enhanced stress tolerance in the seagrass Halophila stipulacea due to marine heatwaves</b> Gidon Winters	<b>Modeling the Controls on Microbial Iron and Manganese Reduction in Methanic Sediments</b> Racheli Neumann Wallheimer		
11:30	11:45	<b>Seaweeds of the Israeli Seas: exploring ecological and biotechnological potential</b> Doron Ashkenazi	<b>Stable strontium and Magnesium isotopes behavior in coastal aquifers during long-term seawater circulation</b> Anael Cohen	<b>High-Resolution Redox Dynamics and Microbial Metabolic Responses to Electron Donor/Acceptor Gradients at the Pelagic Chemocline of Lake Kinneret</b> Oded Bergman		
11:45	12:00	<b>Field validation of the all-female monosex biotechnology in the freshwater prawn Macrobrachium rosenbergii</b> Melody Wahl	<b>Effects of off-axis hydrothermal systems on the oceanic Mg budget</b> Netta Shalev	<b>Inundated Tamarix forest – a novel, climate change-induced littoral habitat in Lake Kinneret</b> Tamar Zohary		
12:00	12:15	<b>Non-Invasive DNA sampling of commercially valuable Sea Cucumbers: A tool for aquaculture sustainability in the Gulf of Aqaba</b> Mai Bonomo	<b>Dolomite clumped isotope constraints on the Phanerozoic Ocean δ18O values</b> Shlomit Cooper-Frumkin	<b>Studies Toward Understanding the Ecological Role of Microcystis spp. Modified Peptides</b> Shira Weisthal-Algor,		
12:30	13:00	<b>Temporal effects on sperm motility across three echinoid species</b> Gal Eviatar	<b>Sediment and water column sources of marine carbonyl sulfide identified by their sulfur isotopes</b> Chen Davidson	<b>Allochthonous groundwater microorganisms affect coastal seawater microbial abundance, activity and diversity</b> Keren Yanuka-Golub		
12:30	13:00	Light lunch (lobby)				

13:00 15:30

Tour #1	Tour #2	Tour #3	Tour #4	Tour #5
<b>Aquaculture in the desert</b>	<b>Geomorphology of the Gulf of Aqaba – from magma to reefs</b>	<b>Natural products in the coral reefs – from chemical defense to medicine</b>	<b>Ecology and Conservation of the Gulf of Aqaba</b>	<b>Sun cultivating in the Southern Arava</b>
National Mariculture Centre; Seanovation; Ardag Aquaculture & biotechnology centre	Tzfachot Mt. hiking tour	IUI & the Underwater Observatory	NPA-lead tour on a glass-bottom boat	Eilat/Eilot Renewable Energy & Algatech