

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 in BGU campus				
10:00	10:35	Opening & Greetings: 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)				
10:35	11:00	Keynote #1: Prof. Eli Tziperman (Harvard University). On the difficulty of a rapid attribution of extreme events to anthropogenic climate change				
11:00	11:15	Transition to sessions (+coffee)				
		Auditorium	Room 208	Room 207	Room 213	122
11:15	11:30	<i>Pollutant Concentrations in Urban Runoff During Rainfall Events in the Gulf of Eilat</i> Rachel Armoza Zvuloni	<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
11:30	11:45	<i>Seasonal dynamics of mercury associated with zooplankton in Haifa Bay</i> Elias Mizrahi	<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>The Influence of Fresh Submarine Groundwater Discharge on Seawater Acidification Along the Northern Mediterranean Coast of Israel</i> Jacob Silverman	<i>A recipe for regeneration- Investigation of wound healing in the solitary tunicate Ciona robusta</i> Tal Gordon
11:45	12:00	<i>Do marine protected areas provide marine fish protection against metal pollution?</i> Debra Ramon	<i>Intra-Seasonal Oscillations in the Eastern Mediterranean: Atmospheric Influence and Oceanic Response</i> Hezi Gildor	<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
12:00	12:15	<i>Sulfur, Rare earth elements and sharks</i> Danny Morick	<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
12:15	12:30	Lunch 1st group	<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
12:30	12:45		<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	
12:45	13:00	Lunch 2nd group	<i>Coupling anaerobic digestion with aquaponics to promote the circular economy in arid zones</i> Ze Zhu	<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 & Zafrir Kuplik
13:00	13:15		<i>Periphyton biofilter for water purification in intensive recirculating aquaculture system</i> Shai Meiroz-Yagur	<i>Sea Surface Microlayer Mediates Microbial Flux Between the Atmosphere and Pacific Ocean</i> Naama Lang-Yona	<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
13:15	13:30		<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

Marine Pollution #1
Chair: Matan Oren Adi Levy

Air-Sea Interactions
Chairs: Yael Amitai & Aviv Solodoch

Microalgae - From Ecology to Application #1
Chairs: Ruth Kaplan-Levy & Orr Shapiro

The ocean's chemistry and the carbon system
Chair: Yael Kiro

Biology of Marine Organisms - Molecular Insights
Chair: Chana Kranzler

Simple passive feeders, yet wonderfully complex
Chair: Dror Angel & Zafrir Kuplik

13:30	13:45	Species sorting by seaweed <i>Ulva</i> and marine periphyton governs microbial community assembly along effluent treatment Dzung Nguyen	Marine & Ecophysiology (in Chair: Jonathan Elk)	Nutrient Supplemented Carbonized Aerogels for Adsorption and Enhanced Biodegradation of Hydrocarbons in Aqueous Environments Danit Lisa Karsagi Byron	Marine Pollution (Chair: Matan Oren)	Chemoautotrophic and photoautotrophic inorganic carbon fixation rates in the oligotrophic Eastern Mediterranean Sea and Northern Red Sea. Tom Reich	Invasional meltdown: How jellyfish facilitate non-indigenous fish dominance? Tamar Guy-Haim	Jellyfish – seemingly complex animal!			
13:45	14:00	The statistics of Eastern Mediterranean Sea currents Yosef Ashkenazy		Bioremediation Potential of <i>Alcanivorax</i>: Exploring Hydrocarbon Colonization and Degradation Strategies Matan Oren		The rotation of fish eggs relative to the surrounding water and its implication to mass transfer Maya Van Gelder	Parasites in gelatinous zooplankton Anastasiia Iakovleva				
14:00	14:15	A T6SS in the coral pathogen <i>Vibrio coralliilyticus</i> secretes an arsenal of anti-eukaryotic effectors and contributes to virulence Shir Mass	Microbial interactions in aquatic environments – From single cells to ecosystem impacts Chairs: Talia Shaler & Assaf Vardi	Northbound Transport of the Mediterranean Outflow and the Role of Time-Dependent Chaotic Advection Ori Saporta-Katz	Physical processes in seas Chairs: Yael Amitai & Aviv Solodoch	Detecting Microplastics in the Ocean: Unveiling Spectral Signatures for Enhanced Identification Gili Kurtser	Spatio-Temporal Patterns of Water Flow in Pulsating Corals Dror Malul	Marine Photobiology & Ecophysiology (in Chair: Zvi Dubinsky)			
14:15	14:30	Unveiling the mechanisms behind positive and negative interactions in marine microbial communities: A mathematical exploration of <i>Prochlorococcus</i> Osnat Weissberg		The role of mesoscale features in shaping microplankton dynamics in the Eastern Mediterranean Sea Merav Gilboa		Biological filtration and digestion: Impact on polystyrene and polylactic-acid microplastics particles in marine ecosystems Eden Harel	How corals make reefs: a geochemical perspective of coral biomineralization Sharon Ram		Alcohol in fish feeding Shenan Harpaz		
14:30	14:45	Cell-to-cell heterogeneity drives host-virus coexistence in a bloom-forming alga Nir Joffe		HF radar observations collected over 4 years in the southern Israeli coast Jacob Zaken					Recycling of crop waste through growth of black soldier fly larvae: A sustainable source for fish feed Manikandan Arumugam		
14:45	15:00	Influence of temperature on cyanobacteria-cyanophage interactions Laure Arsenieff		Wave (from) Polarized Light Learning (WPLL) method: high resolution spatio-temporal measurements of water surface waves in laboratory setups Noam Ginio		Monitoring Ecological Shifts in Israeli Marine Reserves: Impact of Enforcement Ori Frid Landau	Ecosystem Monitoring - new tools and concepts Chair: Igal Berenshtein		Towards Quantifying the Chemical Composition of Coastal Aquifer Groundwaters as End-Members in Ocean Chemistry Yael Kiro	Sediments & groundwater Chair: Oded Katz	A rainbow trout (<i>Oncorhynchus mykiss</i>) artificial intestine platform to test new feed formulas Marcelo Chacon
15:00	15:15	Aerobic methane production in Nitrogen-depleted oceanic regions Jaime Abdiel Lazaro Garcia		Internal wave whispering gallery modes – a mechanistic explanation to energy transfer in submarine canyons Nimrod Bratspiess		Automated Reef Fish Monitoring with High-Resolution Video and AI Victor Rina (China)			A multi-proxy record of Holocene continental slope processes at the Dor Disturbance Revital Bookman		Assessing the nutritional value of biofloc produced in a RAS as a feed ingredient using <i>Artemia</i> as a model organism Vandana Pandey
15:15	15:30	A matter of choice: The interactions between foraminifera and their seagrass host, <i>Halophila stipulacea</i> Sarit Ashkenazi-Polivoda		Hydrodynamic modulations of sea-clutter in coastal environment Nir Haim		The first moored station at the deep eastern Levantine basin (DEEPLV) – new insights from multi-annual synchronized measurements since 2016 Timor Katz			Deconvolving the age and sediment provenance of the Levant Channel, eastern Mediterranean Sea Lea Sivan		A novel marine bacterium as a probiotic supplement to improve health, feed digestion, and resilience of the gilthead seabream (<i>Sparus aurata</i>) Ajit Dake
15:30	15:45	Copepod-associated, rather than seawater microbial communities reflect the spatial and environmental heterogeneity of the Mediterranean Sea Ximena Dubinsky-Velasquez		Seiche-induced fish-kills in the Sea of Galilee may explain the biblical miraculous catch of fish Ehud Strobach		Characterizing the Ocean Data Ecosystem – A review of the new Ocean Data Professional Maya Bloch Haimson			Reconstructing Halite dissolution / precipitation in the Dead Sea from Na/Cl ratios from the DSDDP deep core Pamela Schimmer-Pick		Integrated pest management in aquaculture using monosex prawn biocontrol agents: the Emek HaMa'ayanot case study between 2017-2023 Sharon Moscovitz
15:45-16:45		Poster Session						A step forward towards sustainable aquaculture Guy Rubinstein	Marine & Aquaculture #2 Chairs: Lior Guttman & Dina Zilberg		
						The reduction of forage fish for fishmeal harms both the fish consumers and the marine ecosystem Amir Neori and Moshe Agami					
16:45- 17:30		Research Updates - Auditorium Updates from IUI, IOLR, MERCI, BGU(Eilat) Updates on Eilat's sea urchins & 2024 heatwave Updates from SeaNovation & Eilat-Eilat Aquaculture Park		Let us hold it together - entrance hall Two parallel informal sharing circles discussing war-related challenges: 1. Impact of research duty on student research 2. Keeping international ties							
17:30-18:30		Dinner, Beer & Mingling									

Evening activity @ abraham's hostel

20:30 22:00 **"Research Acts" - Elad theater improvisation show on the daily lives of marine researchers**

Dec 5th (Thursday)

Gathering & coffee at BGU campus main building

8:00 8:30
8:30 8:35
8:35 9:05
9:05 9:20
9:20 10:30

Opening & Greetings: Mr. Alon Zask (IOLR, Director General)
Keynote #2: Prof. Hanna Rosenfeld. National Marine Center -Future Direction Leading Aquaculture Research in Israel
IAAS General assembly & Award Ceremony honoring research students who serve on reserve duty

Poster Session & Coffee

		Room 207	Room 208	Room 213	Auditorium
10:30	10:45	The development of feeding behavior in Gilthead seabream larvae Amir Bitan	Coral Refuge in The Gulf of Aqaba to Common Reef-building Corals During the 2024 Global Coral Bleaching Event Na'ama Rose Kochman	Dynamics of Shallow Groundwater in Lake Kinneret During Level Change Shaked Stein	10:30 The Israeli Aquaculture Ecosystem Roni Sussman
10:45	11:00	The Hunger Games – A Glimpse into larval fish prey capture behavior in-situ in aquaculture Shir Bar	Adapting to the future: Salinity and temperature tolerance of the non-indigenous ascidian <i>Phallusia nigra</i> Amit Unger	Methane gas in sediments of Lake Kinneret: a multiannual acoustic investigation and correlation analysis Boris Katsnelson	10:35 Strategic plan for Aquaculture in Israel - 2050 Amit Savaya
11:00	11:15	Genome Editing for Improved Crustacean Aquaculture: Achievements and Challenges Hanin Wattad	Unlocking carbon sequestration potential for a coral-based marine animal forest Giovanni Giallongo	Radium isotope insight into the stratification history of the meromictic Lake Kivu Yishai Weinstein	10:50 Algae4IBD-Algae as a sustainable source for functional food bridges the realms of health and environment Dorit Avni
11:15	11:30	The green seaweed <i>Caulerpa nummularia</i> as a potential source for food and antioxidants Eitan Salomon	What doesn't kill you, makes you stronger: a half-decade study reveals an enhanced stress tolerance in the seagrass <i>Halophila stipulacea</i> due to marine heatwaves Gidon Winters	Modeling the Controls on Microbial Iron and Manganese Reduction in Methanic Sediments Racheli Neumann Wallheimer	11:05 Transgene expression regulation in marine algae Naama Segal
11:30	11:45	Seaweeds of the Israeli Seas: exploring ecological and biotechnological potential Doron Ashkenazi	Stable strontium and Magnesium isotopes behavior in coastal aquifers during long-term seawater circulation Anael Cohen	High-Resolution Redox Dynamics and Microbial Metabolic Responses to Electron Donor/Acceptor Gradients at the Pelagic Chemocline of Lake Kinneret Oded Bergman	11:15 Israel National Culture Collection of Algae (INCCA): Expanding the collection and the services provided Ruth N. Kaplan-Levy
11:45	12:00	Field validation of the all-female monosex biotechnology in the freshwater prawn <i>Macrobrachium rosenbergii</i> Melody Wahl	Effects of off-axis hydrothermal systems on the oceanic Mg budget Netta Shalev	Inundated Tamarix forest – a novel, climate change-induced littoral habitat in Lake Kinneret Tamar Zohary	11:30 Can we grow Salmon in the desert? Baruch Dach
12:00	12:15	Non-Invasive DNA sampling of commercially valuable Sea Cucumbers: A tool for aquaculture sustainability in the Gulf of Aqaba Mai Bonomo	Dolomite clumped isotope constraints on the Phanerozoic Ocean $\delta^{18}O$ values Shlomit Cooper-Frumkin	Studies Toward Understanding the Ecological Role of <i>Microcystis</i> spp. Modified Peptides Shira Weisthal-Algor,	11:40 Sustainable Seas: Cultivating the Future Orna Harel
12:15	12:30	Temporal effects on sperm motility across three echinoid species Gal Eviatar	Sediment and water column sources of marine carbonyl sulfide identified by their sulfur isotopes Chen Davidson	Allochthonous groundwater microorganisms affect coastal seawater microbial abundance, activity and diversity Keren Yanuka-Golub	12:00 Navigating Innovation: Building Scalable Sales Strategies in the Aquaculture Market Aran Lavi
12:30	13:00	Light lunch (lobby)			12:15 From Lab to Plate Amir Sagi

Aquaculture academy: a science driven industry
Chair: Omri Bronstein

Climate change and Carbon uptake
Chair: Netta Shalev

Tracing ocean processes with isotopes
Chair: Adi Torfstein

Lake Kinneret from bottom to top
Chairs: Oded Bergman & Yaron Be'eri-Shlevin

From Research to Product: Innovation in Aquaculture
Chairs: Roni Sussman and Ruth Kaplan-Levy

13:00 15:30

Tour #1	Tour #2	Tour #3	Tour #4	Tour #5
Aquaculture in the desert National Mariculture Centre; Seanovation; Ardag Aquaculture & biotechnology centre	Geomorphology of the Gulf of Aqaba – from magma to reefs Tzfachot Mt. hiking tour	IUI - Tour on the past present and futur Red Sea reaserch IUI campus	Ecology and Conservation of the Gulf of Aqaba NPA-lead tour on a glass-bottom boat	Sun cultivating in the Southern Arava Eilat/Eilot Renewable Energy