



## POSTER SESSION PROGRAM

July, 3rd – 4th  
17:00 – 18.30

### Session 1 Lessons from the Past to Inform the Future

- # 1.1 173 Spatio-temporal trends in Indo-Pacific coral reef accretion and ecological community structure  
Ramos, Riovie; Morgan, Kyle
- # 1.2 211 The formation of Caribbean coral reef islands  
Husband, Emi; East, Holly; Gulliver, Pauline; Hocking, Emma
- # 1.3 238 Internal structure of Holocene Bermuda reefs: a high latitude coral reef development alternative?  
Islas-Dominguez, Eduardo; Gischler, Eberhard; Hudson, J. Harold
- # 1.4 268 Tropical climate variability and the influence of environmental stressors as recorded in *Orbicella* and *Siderastrea* coral skeletons, Belize, Central America  
Diers, Diana; Raddatz, Jacek; Gischler, Eberhard
- # 1.5 534 Calcification characteristics of Eocene reef corals (*Astreopora*)  
Mono, Phyllis; Mertz-Kraus, Regina; Reuter, Markus; Kotodziej, Bogustaw; Stefanskyi, Vadim L.; Methner, Katharina A.; Brachert, Thomas C.
- # 1.6 611 Investigating advancements in biostratigraphy: analyzing Cretaceous foraminifera in the Rif region for paleogeographical analysis  
Imam, Adil; Yousfi, Mohamed Zakaria; Boudad, Larbi; Jaydawi, Soukaina
- # 1.7 619 Coral growth response to multiple stressors: sediment runoff and heatwaves on the Tin Island of Belitung, Indonesia.  
Watanabe, Takaaki K.; Pfeiffer, Miriam; Nurhidayati, Ayu Utami; Garbe-Schönberg, Dieter; Frick, Daniel A.; Cahyarini, Sri Yudawati
- # 1.8 642 Fish communities in hard and soft coral-dominated reef plots in Bangka Island, North Sulawesi (Indonesia)  
Ferreira Coelho, Ana P.; Inch, Laura; Inman, Kate; Ompi, Medy; Bara, Robert; Benayahu, Yehuda; Schupp, Peter J.; Reverter, Miriam
- # 1.9 850 High vulnerability of coral reef food web and energy fluxes to global change  
Paul Costesec, Emma Lucile; Nina, Schiettekatte; Morais, Renato; Casey, Jordan; Brandl, Simon; Delecambre, Zoe; Floeter, Sergio; Friedlander, Alan; Nunes, Lucas; Danis, Bruno; Parravicini, Valeriano
- # 1.10 851 Long-term effects of ocean warming and ocean acidification on bryozoan species and their associated microbiome  
Figuerola, Blanca; Garrabou, Joaquim; Cerdà-Domènech, Marc; Capdevila, Pol; Mirasole, Alice; Bassols, Pol; del Campo, Javier; Teixidó, Núria

# 1.11 852 Exploring cultivation methods for coral-associated bacteria: a step towards customized probiotics  
Platz, Tabea; Ziegler, Maren

# 1.12 853 Microeukaryote diversity in coral reefs across the Pacific Ocean  
del Rio-Hortega, Laura; Henry, Nicolas; Carradec, Quentin; Poulain, Julie; Pesant, Stéphane; Belser, Caroline; Moulin, Clémentine; Boissin, Emilie; Bourdin, Guillaume; Iwankow, Guillaume; Romac, Sarah; Troublé, Romain; Allemand, Denis; Sunagawa, Shinichi; Voolstra, Christian R.; de Vargas, Colomban; Ziegler, Maren

## Session 2 Coral Reef Structure and Functioning

# 2.1 141 Beyond macro-level views: Investigating colony size and morphology's impact on reef complexity in Southeast Asian Scleractinia  
Patel, Shaman Samir; Ong, Jia Jie; Morgan, Kyle

# 2.2 262 Near-bottom tidal flow modification by black coral forests  
Pages, Nolwenn; Guizien, Katell; Heuls, Hugo; Otero-Ferrer, Francisco; Lorenzo, Lorenzo

# 2.3 267 Contemporary baselines: Biodiversity of coral reef fish assemblages show depth-dependent resilience to an extreme marine heatwave  
Richardson, Laura; Heenan, Adel; Kindinger, Tye L.; Tanaka, Kisei; O'Hara, Megan; Lawrence, Alice; Spring, Danielle; Turner, Bex; Green, J.A. Mattias; Williams, Gareth J.

# 2.4 288 Genomic insights into the broad evolutionary diversity of Red Sea black corals  
Vicario, Silvia; Oury, Nicolas; Terraneo, Tullia Isotta; Chimienti, Giovanni; Barreca, Federica; Marchese, Fabio; Eweida, Ameer Abdulla; Purkis, Sam; Rodrigue, Mattie; Pieribone, Vincent; Qurban, Mohammed; Duarte, Carlos Manuel; Benzoni, Francesca

# 2.5 451 Maintaining the functioning of Mediterranean temperate reefs: a realistic goal for marine protected areas?  
Zentner, Yanis; Garrabou, Joaquim; Gómez-Gras, Daniel; Margarit, Núria; Aspillaga, Eneko; Bensoussan, Nathaniel; Capdevila, Pol; Figuerola-Ferrando, Laura; Kersting, Diego K; Ledoux, Jean-Baptiste; López-Sendino, Paula; Alba, Medrano; Pagès-Escolà, Marta; Rovira, Graciella; Linares, Cristina

# 2.6 504 Ocean-reef connections: quantifying plankton dynamics and pelagic contributions to coral reef food webs in the central Red Sea  
Stirnemann, Luca; Lopez-Sandoval, Daffne; Rich, Walter; Love, Connor; Kalampokis, Alkiviadis; Jones, Burton; Fox, Michael D.

# 2.7 575 Diversity and distribution of Soft Corals (OCTOCORALLIA) of Mozambique  
Nassongole, Bibiana; Buhl-Mortensen, Lene; da Silva, Isabel Marques; Hilário, Ana; McFadden, Catherine S

# 2.8 584 In situ calcification and physiology rates of Red Sea crustose coralline algae  
D'Anna, Corinne; Giorgi, Aurora; Johnson, Maggie D.

- # 2.9 610 Morphological traits and machine learning for genetic lineage prediction of two reef-building coral species  
Mitushasi, Guinther; Kitano, Yuko; Armstrong, Eric; Porro, Barbara; Boissin, Emilie; Carradec, Quentin; Paz-García, David A.; Röttinger, Eric; Planes, Serge; Voolstra, Christian R; Forcioli, Didier; Agostini, Sylvain
- # 2.10 649 Depth effects the community ecology of the Great White Wall, Fiji  
Stephenson, Nile P; Delahooke, Katie M; Kenchington, Charlotte G; Waitaiti, Jone; Bonito, Victor; Manica, Andrea; Mitchell, Emily G
- # 2.11 716 Coral Connectivity and its Drivers Across the Indian Ocean – with Consideration of the Morphological Species Problem  
Burk, Jason; Taylor, Michelle; Hepburn, Leanne; Head, Catherine; Monismith, Stephen; AlMealla, Reem; Pearce-Kelly, Paul; Yesson, Chris
- # 2.12 741 Morphology and structure of Apulian Shelf (Southern Adriatic Sea) bioconstructions: a temperate mesophotic coral reef compared with the coralligenous assemblages  
Lisco, Stefania; de Luca, Alessia; De Giosa, Francesco; Acquafredda, Pasquale; Gimenez, Guadalupe A.; Longo, Caterina; Pierri, Cataldo; Moretti, Massimo
- # 2.13 810 Prey-predator encounter on tropical coral reefs: How visual detection distance determines windows of risk and opportunity.  
Wickmann, Frida; Jørgensen, Christian; Campos-Candela, Andrea
- # 2.14 839 The role of bioerosion in the coastal dynamics of a small Maldivian island  
Calcinai, Barbara; Ponti, Massimo; Pantaleo, Ubaldo; Pulido Mantas, Torcuato; Roveta, Camilla; Turicchia, Eva; Cerrano, Carlo
- # 2.15 856 Circadian symbiont relocation in a bioeroding sponge  
Watty, Kay; Schönberg, Christine; de Goeij, Jasper; Achlatis, Michelle

## Session 3 Biology and Ecology of Holobionts in Coral Reefs

- # 3.1 111 Photobiology of algal symbionts associated with the reef coral *Galaxea fascicularis* in the Red Sea  
Dunn, Natalie; Terraneo, Tullia; Oury, Nicolas; Marchese, Fabio; Benzoni, Francesca
- # 3.2 161 Coral reproductive phenology in Malaysia -Spawning patterns on opposite coasts  
Jordan, Alexandra
- # 3.3 186 Effects of desert dust on the ecophysiology of two thermal stressed Scleractinia corals  
Amorim, Katherine; Grover, Renaud; Omanović, Dario; Sauzéat, Lucie; Ferrier-Pagès, Christine
- # 3.4 199 A molecular investigation of coral behavior: using regeneration as a tool to understand the mechanism of xeniid pulsation  
Nadir, Elinor; Lotan, Tamar; Benayahu, Yehuda
- # 3.5 253 Optimizing the host/symbiont separation protocol in *Diploria labyrinthiformis* for nitrogen transfer experiments  
Kunes, Moriah A; Sheng, Hua-Xia; Guest, Tacy; Sawall, Yvonne; Ward, Bess B

- # 3.6 277 Corals and Volcanoes: moderate volcanic ash exposure enhances symbiont photophysiology in the hermatypic coral *Stylophora pistillata*  
Förster, Frank; Reynaud, Stéphanie; Sauzéat, Lucie; Ferrier-Pagès, Christine; Samankassou, Elias; Sheldrake, Tom E.
- # 3.7 306 Construction vs. destruction: The effects of boring bivalves on the calcification rates and skeleton properties of their coral host  
Gross, Maya; Loya, Yossi; Amit, Tal; Silverman, Jacob
- # 3.8 367 Response of coral host and symbiont to natural nutrient enrichment  
Stephenson, Callie Nicole; Neslon, Craig; Silbiger, Nyssa; Donahue, Megan
- # 3.9 393 Natural thermal stress-hardening in corals: Cold-water pulses likely boost heat resistance  
Wall, Marlene; Doering, Talisa; Pohl, Nina; Putschim, Lalita; Ratanawongwan, Tipwimon; Roik, Anna
- # 3.10 395 Investigating the intracolony coral holobiont variability through a multiomic approach.  
Agazzi, Matteo; Salazar, Janire; Gili, Josep Maria; del Campo, Javier
- # 3.11 401 Trophic ecology of corals under high turbidity regimes in Singapore  
Buckland, Victoria; Moynihan, Molly; Ramos, Rovie; Morgan, Kyle
- # 3.12 424 Maintenance and exchange of the coral reef microbiome  
Wiederkehr, Fabienne; Engelhardt, Kara Elena; Vetter, Jana; Salazar, Guillem; O'Brien, James; Ziegler, Maren; Sunagawa, Shinichi
- # 3.13 432 A multi-stressor perspective in the Arabian Gulf: High temperature and high phosphate effects on coral photo-metabolism  
Gastoldi, Lucia; D'Agostino, Daniele; Haydon, Trent; Burt, John
- # 3.14 450 Symbiont restructuring on the hottest coral reefs on Earth  
Fiesinger, Anna; Iakovleva, Yulia; Alderdice, Rachel; Manns, Hannah; Perna, Gabriela; Bay, Line; Baliga, Nitin; Valenzuela, Jake; Baums, Iliana; Barshis, Daniel J.; Burt, John A.; Voolstra, Christian R.
- # 3.15 452 Beyond colors: Mapping the diversity and abundance of coral green fluorescent proteins and symbiont photobiology in the genus *Madracis* across a Caribbean reef slope.  
Sonnleitner, Johanna; Marchioro, Giulia M.; Boudier, Thibault; Schagerl, Michael; Abed-Navandi, Daniel; Herndl, Gerhard J.; Adameyko, Igor; Frade, Pedro R.
- # 3.16 521 Functional diversity of complex symbiotic networks: effects of eutrophication on Guam's key scleractinian corals  
Ariellus, Zoe; Respicio, Brandon; Anthony, Colin J; Rubin, Ewelina; De Ramos, Xavier; Caballes, Ciemon; Yang, Shan-Hua; Rouzé, Héloïse L
- # 3.17 543 The roles of lipids within reef-building coral and their response to environmental change.  
von Xylander, Nora; Smith, Terry; Allison, Nicola
- # 3.18 553 First screening of microbial assemblages in corals from Maldives atolls  
Avesani, Alessia; Auguste, Manon; Doni, Lapo; Oliveri, Caterina; Azzola, Annalisa; Bosi, Emanuele; Montefalcone, Monica; Vezzulli, Luigi

- # 3.19 577 A spatial proteome of the *Exaiptasia diaphana* endodermal cell  
Jenkins, Benjamin; Krueger, Thomas; Waller, Ross
- # 3.20 595 Targeted genomics of apicomplexan symbionts in Mediterranean corals  
Krause-Massaguer, Joana; Bonacolta, Anthony M; Christou, Maria; Porta-Fitó, Teresa; del Campo, Javier
- # 3.21 647 Immune control of cnidarian endosymbiosis establishment  
Ferguson, Meghan; Guse, Annika
- # 3.22 666 Effects of spectral quality and temperature in reared coral species models  
Di Camillo, Cristina Gioia; Orlandini, Elisa; Cesaro, Margherita; Minio, Miles; Roveta, Camilla; Coppari, Martina; Pulido Mantas, Torcuato; Perino, Brianna; Cerrano, Carlo; Norici, Alessandra; Gerotto, Caterina
- # 3.23 719 Tasting acidity: Investigating sponge-microbiome acclimatization towards ocean acidification through reciprocal transplantation  
Salvatori, Anna; Dell'Anno, Antonio; Mazzella, Valerio; Corinaldesi, Cinzia; Chiarore, Antonia; Mirasole, Alice; Labalme, Carlotta; Iacono, Bruno; Terlizzi, Francesco; Teixidó, Núria; Núñez-Pons, Laura
- # 3.24 752 Symbiotic and free-living Symbiodiniaceae communities from the Cape Verde Archipelago  
Rodrigues Lima, Camila; Nunes, Flávia L.D.; Fauvelot, Cécile; Zilberberg, Carla

## Session 4 Global Climate Change and Environmental Stressors

- # 4.1 102 Local extinction of *Stylophora pistillata* in coral reefs of the Saudi Arabian Gulf waters  
Lozano-Cortés, Diego; Qashqari, Maryam; Qasem, Ali
- # 4.2 153 Impacts of multiple climate change stressors on a Caribbean sponge disease  
Gochfeld, Deborah J.; Easson, Cole G.; Olson, Julie B.; Lee, Sylvester J.; Slattery, Marc
- # 4.3 167 The past, present and future of proteomics in coral heat stress  
Huster, George Deing
- # 4.4 172 Seasonal reef island shoreline dynamics in Southeast Asia: Exploring the physical drivers of reef island change  
Andrawina, Yochi Okta; Kench, Paul; Morgan, Kyle
- # 4.5 174 Ecological drivers of biogenic carbonate sediment across a highly turbid coral reef system  
Joppien, Marlina; Morgan, Kyle
- # 4.6 185 Effects of temperature stress on central Red Sea crustose coralline algae  
Yan, Huajing; Doo, Steve S.; Tisdale, Lauren A.; Johnson, Maggie D.
- # 4.7 265 Assessing *Pocillopora* species' phenotype variability across 30 Pacific islands  
Plichon, Keyla; Zamoum, Thamilla; Forcioli, Didier; Depaule, Morgane; Porro, Barbara; Consortium, Tara; Furla, Paola

- # 4.8 292 Linking remote sensing and SCUBA to identify adaptive reefs  
Rae-Seaman, Morven; Bachman, Scott; Green, Rebecca; Limmon, Gino; Fox, Helen; Sait, Steven; Beger, Maria
- # 4.9 295 The effects of heatwaves and microplastics and their combination on the Mediterranean bioconstructor coral *Astroides calycularis*  
Munari, Marco; Vellani, Verdiana; Signorini, Silvia Giorgia; D'Aniello, Ilaria; Nannini, Matteo; Tamburello, Laura; Bacchini, Saba Diletta; Renzi, Monia; Della Torre, Camilla; Musco, Luigi
- # 4.10 307 Mesophotic reefs act as a thermal refuge during the 2023 Caribbean mass bleaching event  
Goodbody Gringley, Gretchen; Chequer, Alex D
- # 4.11 308 Twenty years of monitoring in a marginal reef system captures a severe coral disease event with limited recovery  
Leinbach, Sarah E.; Hayes, Nicole K.; Walton, Charles J.; Gilliam, David S.
- # 4.12 329 The Hidden Rescuers? Unveiling the role of nutrients in *Cladocora caespitosa* climate change resilience  
Quintano, Nagore; Linares, Cristina; Capdevila, Pol; Cefalì, María Elena; Gori, Andrea; Movilla, Juancho; Ramón-Cortés, Andrea; Vergotti, Marina J.; Viladrich, Núria; Kersting, Diego Kurt
- # 4.13 369 Crustose coralline algae mortality during a marine heatwave in the central Red Sea  
Bruggemann, Fleur; Johnson, Maggie D.
- # 4.14 397 Impact of the 2023 bleaching event on coral reefs of Martinique, French West Indies  
Bon, Melanie; Kayal, Mohsen; Dromard, Charlotte R.; Desrosiers, Catherine
- # 4.15 427 Identification of genes responsible for local adaptation in natural populations of *Pocillopora* corals  
Arenas, Sebastian; Plichon, Keyla; Zamoum, Thamilla; Consortium, TARA Pacific; Forcioli, Didier; Furla, Paola
- # 4.16 429 Inoculating novel Symbiodiniaceae symbionts in the Large Benthic Foraminifera (*Sorites orbiculus*) following an artificial bleaching experiment  
Timme, Lukas Theodor; Henschen, Helena; Puerto Rueda, Diana Nicole; Morard, Raphael; Manda, Sneha; Parkinson, John; Abramovich, Sigal; Schmidt, Christiane
- # 4.17 441 Responses of endolithic bioeroders to heat and cold  
Wan, Orczy Tze Ning; Schönberg, Christine Hanna Lydia
- # 4.18 481 Signature of bleaching events in coral skeleton - A case study for *Porites* from Lizard Island, Australia  
Flöter, Sebastian; Pisapia, Chiara; Basso, Daniela; de Leau, Erica; Martinez-Colon, Michael; Stainbank, Stephanie; Spezzaferri, Silvia; Samankassou, Elias
- # 4.19 519 Bleaching and recovery in turbid-water coral reefs in southern Mozambique  
Tibiriçá, Yara; C. de Abreu, Daniela; Modica, Maria Vittoria; G. Albano, Paolo
- # 4.20 537 Morphological characterization of growth anomalies on coral genera *Acropora* and *Pachyseris*  
Bises, Chiara; Gobbato, Jacopo; Dehnert, Inga; Siena, Marialuisa Federica; Galli, Paolo; Montano, Simone

- # 4.21 542 Effects of exposure to elevated temperature or complete darkness on the expression levels of symbionts's manganese superoxide dismutase in the giant clam, *Tridacna squamosa*  
Chor, Pauline W. Y.; Pang, Caryn Z.; Ip, Yuen K.; Chew, Shit F.
- # 4.22 582 Coral populations naturally occur in high  $p\text{CO}_2$  environments on the coast of Ischia  
Teixido, Nuria; Carbonne, Chloé; Meynadier, Marc; Alliouane, Samir; Capdevilla, Pol; Carlot, Jeremy; Marchini, Chiara; Caroselli, Erik; Goffredo, Stefano; Copley, Richard R.; Gattuso, Jean-Pierre; Guttierrez, Thomas; Mirasole, Alice; Comeau, Steeve
- # 4.23 617 CRISPR gene editing in corals for gene function discovery  
Fourdrilis, Severine; Pfeffer, Elena; Berteaux-Lecellier, Veronique; Cleves, Phillip; Bay, Line
- # 4.24 623 Single and Combined Effects of Warming, Acidification, and Deoxygenation Reveal the High Plasticity of the Cold-Water Coral *Dendrophyllia cornigera*  
Gutiérrez-Zárate, Cristina; Gori, Andrea; Veiga, Alfredo; Wall, Marlene; Atienza, Eva M. S.; Acerbi, Rubén; Álvarez, Marta; Panknin, Ulrike; Berezkina, Anna; Orejas, Covadonga
- # 4.25 665 Something sounds fishy: Community drivers of the coral reef soundscape across habitat health gradients  
Gasparro, Madeline G; Baptiste, Dominique; Lane, Emily; Reddington, Finn; Radford, Andrew N; Simpson, Stephen D
- # 4.26 668 Benthic communities and foraminifera at Lizard Island (Great Barrier Reef, Australia): what can we learn about ecosystem health status?  
Cannings, Torin; Basso, Daniela; Pisapia, Chiara; Stainbank, Stephanie; Samankassou, Elias; Spezzaferri, Silvia
- # 4.27 677 Recovery of bleached *Fungia* hard corals exposed to in-situ artificial shading at Sipaway Island, Central Philippines  
Dobelmann, Melina Sofie; Gurlit, Leandra; Wild, Christian
- # 4.28 684 Investigating the acclimatization potential of coral fluorescent proteins in the coral genus *Madracis* using reciprocal depth transplantations  
Silberhumer, Helena E.; Marchioro, Giulia M.; Boudier, Thibault; Schagerl, Michael; Abed-Navand, Daniel; Herndl, Gerhard J.; Adameyko, Igor; Frade, Pedro R.
- # 4.29 693 Do environments with greater temperature variation select more thermally resistant corals?  
Pacheco, Maria Carolina; Longo, Guilherme Ortigara
- # 4.30 744 Mass mortality events as another factor shaping future reefs: Examples from a giant barrel sponge mass mortality event and the recent urchin mass mortality along the East African coast  
Schupp, Peter; Müller, Jasmin; Grammel, Paul; Bill, Nicolas; Chauka, Leonard; Kloiber, Ulli; Meysick, Lukas; Rohde, Sven
- # 4.31 771 Adaptative potential to environmental stressors of three coral species in the Red Sea.  
Pribille, Manon; Banc-Prandi, Guilhem; Perna, Gabriela; Meibom, Anders; Jakšić, Ana Marija; Joost, Stéphane
- # 4.32 776 Satellite imagery and machine learning reveal the importance of environment, human and habitat for predicting reef fish species biomass

Hautecoeur, Cyril Pierre; Waldock, Conor; Albouy, Camille; Cramer, Katie L.; Edgar, Graham J.; Loiseau, Nicolas; McLean, Matthew; Mellin, Camille; Pellissier, Loïc; Stuart-Smith, Rick D.; Velez, Laure; Mouillot, David

# 4.33 790 Tropicalisation of mollusc assemblages leading to community reassembly on temperate, high-latitude reefs.

Jackson, Liberty; Umeda, Ayaka; Mizuyama, Masaru; Baines, Ciara; Burke, Camille; Gösler, Fabian; Nakano, Megumi; Sommer, Brigitte; Takahashi, Kairi; Yamaguchi, Daito; South, Josie; Reimer, James D.; Beger, Maria

# 4.34 814 Contribution of algal, bacterial, and fungal symbionts to seasonal acclimation of thermal performances of two Red Sea stony corals along a depth gradient

Banc-Prandi, Guilhem; Perna, Gabriela; Cardenas, Anny; Yarden, Oded; Fine, Maoz; Antler, Gilad; Meibom, Anders

# 4.35 846 Coral bleaching: Long-term exposure to low-pH moderately impacts photosynthesis in endosymbionts of *Stylophora pistillata*

Fetelian, Bruno; Venn, Alexander; Béraud, Eric; Tambutté, Eric; Tambutté, Sylvie; Cardol, Pierre; Roberty, Stéphane

# 4.36 855 The roles of environmental history and contemporary variability regime in shaping coral physiological performance to ocean warming and acidification

Mouly, Maxine; van der Zande, Rene; Watty, Kay; Schoepf, Verena

# 4.37 632 Comparative transcriptomics of the coral *Astroides calycularis* from natural CO<sub>2</sub> vents

Meynadier, Marc; Copley, Richard; Teixido, Núria; Sheets, Elizabeth; Palumbi, Stephen

## Session 5 Coral Reef Anthropic Pressures, Conservation and Restoration

# 5.1 183 Effects of polypropylene nanofibers on soft corals

Isa, Valerio; Becchi, Alessandro; Lasagni, Marina; Seveso, Davide; Saliu, Francesco; Lavorano, Silvia; Montano, Simone; Galli, Paolo

# 5.2 281 Pulsed artificial upwelling (AU) can reduce coral bleaching during thermal stress as indicated by elevated photo-pigment concentration (determined by reflectance spectra and HPLC) under strong AU scenarios

Hynds, Janna Evelyn; Rodriguez-Roig, Gabriel; Carbonne, Chloe; Sawall, Yvonne

# 5.3 300 Enhancing Coral Reproductive Efficiency through the Separation of Polyps: Insights from the Asexual Reproduction of *Tubastraea aurea*

Salazar Martinez, Montserrat; Tseng, Li-Chun; Chen, Li-Shu; Chang, Ching-Fong; Hwang, Jiang-Shiou

# 5.4 368 A breakthrough in novel cryopreservation technique applied to coral larval cryorepositories

Lin, Chiahsin; Tsai, Sujune

# 5.5 438 Monitoring coral spawning and larvae settlement to understand the reasons for rapid coral recovery on a lava flow

Kadir, Rifaldy; Berg, Joshua L; Novriansyah, Andika; Sjahman, Emil; Lanuru, Irdham; Abidin, Jenny; Senen, Budiono; Dias, Joana P; Huhn, Mareike



- # 5.6 446 Bioaccumulation patterns and potential effects of organic and inorganic contaminants in *Pocillopora verrucosa* in the Red Sea  
Branco, Margarida; Justo, Micaela S.S.; Rodrigues, Mariana; Cúrdia, João; Tavares, Fernanda; Witkamp, Geert-Jan; Villalobos, Rodrigo; Berumen, Michael; Farinha, Andreia; Carvalho, Susana
- # 5.7 485 Acute toxicity of an oil spill herding agent to Atlantic shallow-water corals  
Blakeslee, Austin; Skelton, Ellen Regina; Renegar, Abigail
- # 5.8 494 Influence of artificial and natural light spectra on the grow-out of Caribbean coral recruits.  
Abrams, Liam; Fogarty, Nicole; Koch, Hanna; O'Neil, Keri; Figueiredo, Joana
- # 5.9 499 Using oil and gas industrial imagery for biodiversity estimates: consequence for biodiversity patterns and decommissioning options  
Schlaeppe, Marie-Lise; Graiani, Andrea; Boutros, Nader; Crossman, David; Miller, Karen
- # 5.10 531 Assessment of the ecotoxicological effects of the UV filter benzophenone-3 on five different scleractinian corals using a standardizable test approach  
Cohrs, Carmen; Brefeld, David; Di Mauro, Valentina; Möller, Mareen; Nietzer, Samuel; Kellermann, Matthias Y.; Lütjens, Laura; Petersen-Thiery, Mechtild; Pawlowski, Sascha; Schupp, Peter J.
- # 5.11 544 Can substrate stabilization and stony coral transplantation promote recovery at ship grounding sites?  
Wever, Shane O.; Gilliam, Dave S.; Jones, Nick P.
- # 5.12 586 Successful spawning of transplanted coral at Bidong Island, Terengganu, east coast of Peninsular Malaysia  
Bachok, Zainudin; Jaafar, Siti Nur Tahirah; Hong, Tan Chun; Borkhannuddinn, Muhammad Hafiz; Safuan, Che Din Mohd
- # 5.13 629 Spatial variation in spawning timing for multi-species *Acropora* assemblages in the Red Sea  
Osman, Eslam O.; Suggett, David J.; Attalla, Tamer M.; Casartelli, Marco; Cook, Nathan; El-Sadek, Islam; Gallab, Ahmed; Goergen, Elizabeth A.; Garcias-Bonet, Neus; Glanz, Jessica S.; Henrique Pereira, Pedro; Ramirez-Sanchez, Megan; Santoro, Erika P.; Stead, Alexander; Yoder, Sol; Benzoni, Francesca; Peixoto, Raquel S.
- # 5.14 694 Effects of pollution on mediterranean gorgonian corals (*Leptogorgia sarmentosa*) at the microbiome level  
Quintanilla, Elena; Salazar, Janire; Gili, Josep María; Madurell, Teresa
- # 5.15 700 Assessing the restoration potential of *Acropora palmata*, a critically endangered coral species, at its northern extent in southeast Florida  
Mair, Michelle B.; Guarderas, Maria Jose; Wever, Shane O.; Gilliam, David S.
- # 5.16 714 The restoration of Cold-Water coral reefs: the use of 3D-printed artificial reef structures (ARS) in the Life DREAM Project  
Fanelli, Emanuela; Da Ros, Zaira; Masiá Lillo, Paula; Anastasopoulou, Aikaterini; Loiacono, Claudio; Fogliani, Federica; Consortium, Life Dream
- # 5.17 754 Coral reef restoration in northern Mozambique: techniques, species, and challenges  
Silva, Isabel Marques; Machaiaie, Sidonio; Sola, Erwan

- # 5.18 755 Ecological restoration of a temperate coral habitat and population (*Dendrophyllia ramea*) at Punta de la Mona Marine Protected Area in the Mediterranean (Spain)  
Palacios-Miñambres, Marina; Jacob-Lozano, Florina; Estévez, Rocío M.; González-Duarte, Manuel; López-González, Pablo J.
- # 5.19 795 Spatial diversity in reef fish assemblages across Central Maldivian Atolls  
Musthag, Azim; Pisapia, Chiara; Burn, Deborah; Hoey, Andrew
- # 5.20 802 *Arthrospira platensis*' pigment based product and glycerin modify the *Cladocopium goreau* photophysiology  
Le Verge - Campion, Thibault; Houllbrèque, Fanny; Lefeuvre, Luc; Jauffrais, Thierry
- # 5.21 804 Using bioacoustics to explore the impacts of artificial light at night (ALAN) on coral reef health.  
Baptiste, Dominique; Gasparro, Madeline G; Lane, Emily; Reddington, Finn; Radford, Andrew N; Simpson, Stephen D
- # 5.22 829 Induced sexual reproduction reveals bidirectional sex change of gonochoric coral *Montastraea cavernosa*.  
Petrik, Chelsea; Laforest, Krista; Short, Morgan; Ionata, Rachel; Figueiredo, Joana
- # 5.23 842 Protecting polyps from parrotfish predation; development and deployment of PHA predator exclusion devices  
Pisano, Kyle Anthony-Kicking Bear; Wever, Shane; Wheeler, Alexander; Renegar, Abigail
- # 5.24 849 Engineering rapid resilient coral reefs for coastal defense and biodiversity enrichment  
Lewis, Claire; Wishingrad, Van; Toonen, Robert J.
- # 5.25 857 Development of an Eco-friendly Epoxidized Soybean Oil/Talc/Cocoa based putty for restoration of coral reefs  
Ravelli, Lorenzo; Contardi, Marco; Corigliano, Gabriele; Rinaldi, Camilla; Scribano, Vincenzo; Isa, Valerio; Lavorano, Silvia; Montano, Simone; Athanassiou, Athanassia

## Session 6 Community-Based Monitoring and Ecosystem-Based Management

- # 6.1 228 EcoChains: Coral Futures – An educational card game for all ages  
Sawall, Yvonne; Pfirman, Stephanie
- # 6.2 426 Evaluating recreational diving pressure and diver-wildlife interactions on natural and artificial reefs utilizing social media data mining  
Neri, Re'em; Oren, Asa; Shashar, Nadav
- # 6.3 523 Results of 7-years coral reef monitoring at Koh Tao (Thailand)  
Baruffaldi, Matilde; Magdson, Kirsty; Di Camillo, Cristina Gioia

# 6.4 588 Assessment and mapping of ecosystem services provided by three Mediterranean octocorals  
Franciosi, Mirko; Taglialatela Scafati, Luigia; Costantini, Federica; Blouet, Sylvain; Bramanti, Lorenzo; Guizen, Katell; Manea, Elisabetta

# 6.5 778 Coastal anthropization and shoreline dynamics: a Maldivian perspective  
Pulido Mantas, Torcuato; Roveta, Camilla; Tansley, Meghann; Millecamps, Luana; Calcinai, Barbara; Di Camillo, Cristina Gioia; Marrocco, Teo; Coppari, Martina; Cerrano, Carlo

## Session 7 Shallow Temperate Reefs

# 7.1 223 The xeniid octocoral *Unomia stolonifera*: unprecedented case of an invasive to coral reefs  
Ruiz-Allais, Juan Pedro; McFadden, Catherine S.; Benayahu, Yehuda

# 7.2 280 A new coral reef site in the Ligurian Sea composed by the endangered species *Cladocora caespitosa* and the cryptogenic species *Oculina patagonica*: first assessment.  
Molinari, Andrea

# 7.3 342 Uncovering hidden treasures: mapping of geogenic reef biotopes in the SE Baltic sea using underwater Imagery  
Medelytė, Saulė; Šiaulyš, Andrius

# 7.4 359 Shallow-water habitats along the Moroccan Atlantic Coast: Gorgonian communities' distribution and biotopes  
Loulidi, Ali; Buhl-Mortensen, Lene; Rhinane, Hassan; Houssa, Rachida

# 7.5 462 Summer is not a sponge spa: Heatwaves impact *Petrosia ficiformis* (Poiret, 1979) populations and their microbial partnerships  
Cusano, Luigi Maria; Mazzella, Valerio; Teixidó, Nuria; Mirasole, Alice; Chiarore, Antonia; Nunez Pons, Laura

# 7.6 555 Pump it...Harder! Mucilage removal from coralligenous assemblages in an Italian MPA  
Roveta, Camilla; Francesca, Beolchini; Simone, Berardone; Bruno, Borelli; Andrea, Cappa; Valentina, Cappanera; Martina, Coppari; Cristina, Di Camillo; Teo, Marrocco; Chiara, Pennesi; Torcuato, Pulido Mantas; Marco, Segatto; Carlo, Cerrano

# 7.7 561 BORA, a modular multi-habitat artificial reef for the restoration of damaged areas. The study case of Mediterranean coralligenous habitat.  
Pulido Mantas, Torcuato; Roveta, Camilla; Calcinai, Barbara; Di Camillo, Cristina Gioia; Gregorin, Chiara; Marrocco, Teo; Coppari, Martina; Cerrano, Carlo

# 7.8 646 An unexpected presence: zooxanthellae *Semper's* larvae (Zoantharia) in the Canary Islands closely related to those in the Pacific, settlement, and growth.  
Zamora Jordán, Nuba; Lambre, María Elisa; Moreno Borges, Sergio; Caro, María Belén

# 7.9 650 Investigating microbial communities associated with temperate coral gardens in the context of marine restoration  
Rola, Marcellina; Coelho, Márcio; Pruckner, Christian; Stock, Willem; Baylina, Núria; Engelen, Aschwin; Wägele, Heike; Frade, Pedro

# 7.10 756 High genetic diversity in endosymbionts contribute to resilience of subtropical reefs in China's Greater Bay Area  
Ma, Haiying; Zhu, Changyu; Xu, Ting; Qian, Peiyuan

# 7.11 503 Dietary and isotopic niche patterns across *Paramuricea clavata* colony colorations and filter feeding species inhabiting near a fish farm  
Camps-Castella, Judith; Fernández-Tejedor, Margarita; Prado, Patricia

## Session 8 Mesophotic and Cold-Water Coral Ecosystems

# 8.1 303 Main results of coralligenous monitoring within the implementation of marine strategy framework directive in Italy  
Di Stefano, Floriana; Molinari, Andrea; Radicioli, Martina; Strollo, Andrea; Proietti, Raffaele; Giusti, Michela; Angiolillo, Michela; Tunesi, Leonardo

# 8.2 317 Finding the fish: new depth range extensions for reef fish in the Maldives  
de Villiers, Nina Melissa; Ahusan, Mohamed; Amir, Hana; Amjad, Farah; Hashim, Shaha; Naeem, Shafiya; Palmer, Ryan; Shimal, Mohamed; Shidha, Maryiam; Stefanoudis, Paris; Talma, Sheena; Woodall, Lucy

# 8.3 390 A Morphological and Genetic Exploration of *Spinimuricea* genus in the Mediterranean Sea and NE Atlantic Ocean  
Saraçoğlu, Cansu; Topçu, Nur Eda; Costantini, Federica; Enrichetti, Francesco; Balcı, Mehmet Ali; Macic, Vesna; Perez, Jacinto; Almon, Bruno; Bo, Marzia

# 8.4 510 *Mycoplasma* and SUP05 cluster dominance in the cold-water coral *Desmophyllum dianthus* - friend or foe?  
Berezkina, Anna; Beck, Kristina K.; Roik, Anna; Laudien, Jürgen; Held, Christoph; Nehrke, Gernot; Richter, Claudio; Panknin, Ulrike; Gutiérrez-Zárate, Cristina; Wall, Marlene

# 8.5 546 Shedding light on the causes and consequences of turbidity on coral reefs in Darvel Bay, NE Sabah, Malaysia  
Johnson, Kenneth George; Rosedy, Allia; Waheed, Zarinah; Syed Hussein, Muhammad Ali; Sosdian, Sindia; Ives, Isabel; Santodomingo, Nadiezhda

# 8.6 672 Mesophotic to twilight zones of Madeira are home to dense black coral (Cnidaria: Antipatharia) forests  
Braga-Henriques, Andreia; Stevenson, Angela; Canning-Clode, João; Buhl-Mortensen, Pål; Delgado, João; Jakobsen, Kirsten; Jakobsen, Joachim; Freitas, Mafalda; Biscoito, Manuel

# 8.7 683 Hidden lineages and potential deep to shallow connectivity of the brooding coral, *Seriatopora hystrix*  
Takata, Kenji; Narita, Yuji; Noguchi, Nanami; Nagai, Satoshi; Kikuchi, Taisei; Sinniger, Frederic; Harii, Saki; Yasuda, Nina

# 8.8 730 Reproductive Pattern of the Mediterranean Yellow Gorgonian in a peculiar environment: the Sea of Marmara  
Topçu, Nur Eda; Saraçoğlu, Cansu; Hisli, Orhun; Öztürk, Bayram

# 8.9 801 A cryptic species complex of stony corals (*Dendrophyllia*, Scleractinia) at mesophotic depths in northern Portugal

Despujols, Daniel; Figueiredo, Pedro; Soares, Ana; Gregório, Inês S.; Santín, Andreu; Xavier, Joana R.

# 8.10 820 Red hot chili coral: two time-lapse case studies

Marrocco, Teo; Coppari, Martina; Gregorin, Chiara; di Camillo, Cristina Gioia; Pulido Mantas, Torcuato; Roveta, Camilla; Cerrano, Carlo

# 8.11 847 Exploring mesophotic invertebrate bioconstructions from the Adriatic Apulian seabed (Southern Italy, Central Mediterranean Sea)

Gimenez, Guadalupe Anahi; Pierri, Cataldo; Nonnis Marzano, Carlotta; Mercurio, Maria; Longo, Caterina

# 8.12 799 Mesophotic coral communities of the Gulf of Oman

Samimi-Namin, Kaveh; Hoeksema, Bert W.; Paparella, Francesco; Rodrigue, Mattie; Burt, John A.

## Session 9 Technological and Methodological Innovation in Underwater Surveys and Data Analysis

# 9.1 279 Coral polyps number estimation through photogrammetry: the example of *Corallium rubrum*

Di Fabio, Lucrezia; Giordano, Bruna; Moirand, Laurine; Bramanti, Lorenzo

# 9.2 353 Widespread inconsistency in logger deployment methods in coral reef studies may bias perceptions of thermal regimes

Glanz, Jess; Rich, Walter; Mele, Gage; Burt, Nicole; Carvalho, Susana; Doo, Steve; Goergen, Elizabeth; Krieger, Erik; Li, Lena; Osman, Eslam; Suggett, David; Johnson, Maggie; Fox, Michael

# 9.3 405 Assessment and accuracy estimation under controlled and real-world conditions of the recent DeepSeeColor method for underwater photogrammetric image enhancement

Grassi, Francesca; Rossi, Paolo; Capra, Alessandro; Castagnetti, Cristina

# 9.4 449 *In vitro* marine ecotoxicity tests: an innovative method to assess the environmental contaminations impact on coastal reef

Cotinat, Pauline; Michelot, Emmanuel; Sadoun, Nora; Barnay-Verdier, Stéphanie; Furla, Paola

# 9.5 515 Linking deep-learning and acoustic indices approaches to analyse coral reef soundscapes

Reddington, Finn Jack; Williams, Ben; Simpson, Steve D; Harrison, Hugo B; Gasparro, Maddie; Baptiste, Dominique

# 9.6 742 Utilizing photogrammetry to quantify 3D coral growth in turbid settings

Scholten, Yun; Morgan, Kyle

# 9.7 774 Relating temporal changes in reef structural complexity as measured using photogrammetry to changes in fish community structure.

Nocerino, Erica; Menna, Fabio; Brooks, Andrew J.; Kopecky, Kai L.; Gruen, Armin; Troyer, Mathias; Capra, Alessandro; Castagnetti, Cristina; Rossi, Paolo; Pavoni, Gaia; Corsini, Massimiliano; Schmitt, Russell J.; Holbrook, Sally J.

## Session 10      Coral Reefs Under a Socio-Economic Perspective

# 10.1 113      How can we conceptualise the scientific value of coral reef systems?  
Jones, Elis

# 10.2 340      Disentangling key drivers of nutrient concentration in coral reef fish to achieve food and nutrition security  
Maire, Eva; Robinson, James; Graham, Nick; MacNeil, Aaron; Hicks, Christina

## Session 11      Beyond Corals and Fishes - Evolution and Biodiversity of Neglected Reef Taxa

# 11.1 275      Drivers of benthic invertebrate community structure in degraded habitats on tropical coral reefs  
Goberdhan, Lisa; Robertson, Craig; Graham, Nick; Williams, Gareth

# 11.2 475      Unique octocoral communities of Oman  
Nelson, Josephine; Poole, Sophie; Ribeiro, Sophia; Macrina, Laura; Benzoni, Francesca; Samimi-Namin, Kaveh; McFadden, Catherine S.

# 11.3 501      On diversity of myzostomids (annelids associated with feather stars) from South China sea  
Isaychev, Alexander; Zhou, Yutong; Schepetov, Dimitry; Ivanenko, Viacheslav

# 11.4 687      Will hawksbill sea turtles, *Eretmochelys imbricata*, exist in the next century: A worldwide meta-analysis of temperature-dependent sex determination  
Scott, Kirsty; Girondot, Marc; Chatting, Mark Edward; Al Ameri, Hind Mohsen Omar; Al-Khayat, Jassim; Barrientos-Muñoz, Karla Georgina; Cochran, Jesse E. M.; de la Cruz, Fausto; Diez, Carlos; Flores-Aguirre, Cynthia Dinorah; Godfrey, Matthew H.; Godley, Brendan J.; Hamza, Shafeeq; Kamel, Stéphanie; Miller, Jeffrey D.; Saliba, Sally; Syed Asim, Fahad; van Dam, Robert P.; Berumen, Michael L.

## Session 12      The Ocean Decade: The Science We Need for the Coral Reefs We Want

# 12.1 181      Understanding coral disease pathogenesis: the role of bacterial mucus penetration  
Phoon, Carmen; Burgess, Grant

# 12.2 641      From coral reefs to schools in a landlocked country: Meet Jeanne, the marine restoration e-bike  
Pinto, Maria T.; Silberhumer, Helena M.; Ott, Iris; Kiesenhofer, Susanne; Illera, Jakob; Horta, Paulo; Serrão, Ester A.; Frade, Pedro R.

## Session 13      Insights into further fields of coral reef research around the world

# 13.1 394      Exploring the drivers of coral reef island shoreline change using machine learning models

Sengupta, Meghna; Ford, Murray; Kench, Paul; Perry, George

# 13.2 570      Exploring the coral resistome: abundance and diversity of antibiotic-resistant genes (ARGs) in the *Pocillopora verrucosa* microbiome

Sabini-Leite, Giovanna S.; Barno, Adam R.; Antony, Chakkiath P.; Cúrdia, João L.; Suggett, David J.; Peixoto, Raquel S.

# 13.3 699      Secondary metabolites of a captive coral reef sponge and their ecological roles

Mutalipassi, Mirko; Fatigati, Mariarosaria; Ruocco, Nadia; Maria Denaro, Filippo; Terlizzi, Antonio; Mollo, Ernesto; Ciavatta, Maria Letizia; Carbone, Marianna

# 13.4 717      It's tickle time! Reactions of Maldivian gorgonians' polyps to mechanical stimuli

Roveta, Camilla; Azzola, Annalisa; Gregorin, Chiara; Momo, Chiara; Pulido Mantas, Torcuato; Cerrano, Carlo

# 13.5 736      How taxonomy changes ecology

Brambilla, Viviana; Alvarez Noriega, Mariana; Asbury, Mollie; Bennett, Matthew-James; Bridge, Tom; Cant, James; Chow, Cher; Chapeau, Marion; Fundakowski, Garrett; Hoogenboom, Mia; Madin, Joshua; Schiettekatte, Nina; Torres-Pulliza, Damaris; Woods, Rachael; Wulstein, Devynn; Zawada, Kyle; Dornelas, Maria