



DETAILED PROGRAM

Session 1

08:00 Registration desk open

09:00 Opening Ceremony

Session 1: Embryonic & Larval Development
chairs: Hugh Carter & Jenifer Croce

09:30 **P. Oliveri**, E. Parey, O. Ortega-Martinez, J. Delroisse, P. Martinez, K. Buckley & F. Marletaz
S1_01 **(keynote)**
 Genomic control of regeneration

10:15 Coffee break

10:45 **G. Eviatar**, L. Roth & O. Bronstein
S1_02 Temporal effects on sperm motility and fertilization success across three echinoid species

11:00 **A. Rufino-Navarro**, T.J. Carrier & J.C. Hernández
S1_03 The developmental stages of the sea urchin *Arbacia lixula* associated with photosymbionts that influence host survival

11:15 **P. Cormier**, F. Pontheaux, S. Boulben, H. Chassé, A. Boutet, F. Roch & J. Morales
S1_04 Identification of neo-translated mRNAs regulating cleavage dynamics in early sea urchin embryos

11:30 **L. Piovani**, E. Parey, S. Mercurio, M. Sugni & F. Marlétaz
S1_05 Genomic and single cell insights into the metamorphosis of the crinoid *A. mediterranea*

11:45 **B. Delorme**, N. Cuny, G. Lhomond, G. Malandain, T.A. Basith, G. Salbreux, J. Croce & M. Rauzi
S1_06 Mechanisms and mechanics of tubulogenesis in the embryo of *Paracentrotus lividus*

12:00 Lunch and **Poster Session 1**

13:30 **J. Croce**, G. Lhomond & M. Schubert **(keynote)**
S1_07 The canonical Wnt/ β -catenin signaling pathway and the control of sea urchin embryonic development

Session 2

Session 2: Bioluminescence & Photoreception
chairs: Constance Coubris & Jérôme Mallefet

14:15 **C. Coubris**, S. Dupont & J. Mallefet
S2_01 Ontogenic apparition of luminous capabilities in the brittle star *Amphiura filiformis*

14:30 **J. Mallefet**, P. Martinez-Soares, M.P. Eléaume, T.D. O'Hara & L. Duchatelet
S2_02 Amazing Bioluminescence of Crinoidea from Depths

14:45 **Y. Nonclercq**, P. Flammang, I. Eeckhaut & J. Delroisse
S2_03 Study of sea cucumber photoreception

15:00 **J. Delroisse**, W. Bayaert, J. Rousseaux, M. Majerova, E. Lau, J. Ullrich-Lüter, K. Buckley, O. Ortega-Martinez, P. Oliveri, F. Marletaz, P. Martinez, E. Parey, T. Oakley, M. Marek, J. Mallefet & P. Flammang
S2_04 Keep your eyes on the stars... and their genes! News insights into the bioluminescence of the brittle star *Amphiura filiformis*

15:15 **W.S. Bayaert**, L. Duchatelet, C. Coubris, P. Flammang, J. Mallefet & J. Delroisse
S2_05 Deep dive into the multi-level control of bioluminescence in the brittle star *Amphiura filiformis*

15:30 Coffee break

Session 3: Systematics I
chairs: Camille Moreau & Ruiyan Zhang

16:00 S3_01	R. Zhang & C. Wang Systematics of deep-sea starfish order Brisingida (Echinodermata: Asteroidea), with revised classification and remarks on character evolution
16:15 S3_02	X. Xie Integrative taxonomy of the order Euryalida (Echinodermata, Ophiuroidea) from the West Pacific
16:30 S3_03	P. Martinez-Soares , M. Roux, M.P. Eléaume & N. Améziane Atelecrinidae: using molecular data and X-ray tomography to look into the latest hypotheses
16:45 S3_04	A. Eichsteller , T. O'Hara, M. Christodoulou & P. Martinez Arbizu Ophiuroid phylogenomic: deep-sea species enrich the tree of life
17:00 S3_05	H.A. Lessios & L. Geyer Evolution of sperm and egg proteins in the sea urchin <i>Diadema</i>
17:15 S3_06	E. Courville , N. Mongiardino Koch, H. Lessios, A. Díaz, T. Saucède & E. Poulin New molecular phylogeny sheds new light on the evolutionary history of the genus <i>Arbacia</i> Gray, 1835 (Arbacioida, Echinoidea)
17:30 S3_07	A. Kroh & M. Kapun A novel UCE probe set for phylogenomics of echinoids
17:45 S3_08	M. Christodoulou , T. O'Hara, C. Mah, A. Gebruk, R. Mooi, M.P. Eléaume & P. Martinez Arbizu The echinoderm abyssal biodiversity of the Clarion Clipperton Zone
18:00 21:00	Icebreaker Reception

TUESDAY, OCTOBER 17, 2023

Session 4: Palaeontology I
chairs: Pauline Guenser & Samuel Zamora

08:00	Registration desk open
08:45 S4_02	F. Saleh , B. Lefebvre, C. Dupichaud, E. Martin, M. Nohejlová & L. Spaccesi Skeletal elements controlled soft-tissue preservation in echinoderms from the Early Ordovician Fezouata Biota
09:00 S4_03	C. Dupichaud , B. Lefebvre, M. Nohejlová & S. Zamora The oldest African echinoderms (Morocco): Morphology and implications for the diversification of blastozoans in the early Cambrian
09:15 S4_04	S. Zamora The oldest record of stylophorans
09:30 S4_05	X. Zhuang , T.A.M. Ewin, I.A. Rahman, B. Clark, J.R. Thompson & M. Reich Virtual reconstruction and analysis of a new, exceptionally preserved Silurian cyclocystoid provides insights into soft tissue structures and the mode of life of an enigmatic extinct class

- 09:45 **E. Decaux**, B. Lefebvre, N. Rivière, D. Lopez & S. Puijalon
S4_06 Scouring around a fossil organism (Cincta, Echinodermata): Physical modelling and morpho-functional analysis
- 10:00 **J. El Kabouri**, E. Errami, B. Becker-Kerber, N. Ennih, U. Linnemann, C. Fellah, A. Triantafyllou & B. Lefebvre
S4_07 *Arkarua*-like fossils from the Anti-Atlas region (Morocco): A new opportunity to test the Ediacaran-Cambrian radiation
- 10:15 Coffee break
- Session 5: Ecophysiology, Ecotoxicology & Effects of Global Change Stressors**
chairs: **Guillaume Caulier & Lachan Roth**
- 10:45 **L. Roth**, G. Eviatar, L.M. Schmidt & O. Bronstein
S5_01 Red Alert: Regional scale mass mortality of diadematoids in the Northern Red Sea
- 11:00 **E. Bossiroy**, N. Wambreuse, F. David, C. Vanwinge, J. Delroisse, I. Eeckhaut & G. Caulier
S5_02 An innovative strategy for the isolation of circulating pigmented cells: The case of sea cucumber coelomocytes
- 11:15 **P. Gorzelak**, D. Kołbuk, J. Stolarski & P. Dubois
S5_03 Effect of shifts in the Mg²⁺/Ca²⁺ ratio of seawater on mechanical properties of the echinoderm skeleton
- 11:30 **R. Pérez-Portela**, M. Peralta, S. González-Delgado & J.C. Hernández
S5_04 Local adaptation to temperature under high levels of gene flow in *Diadema africanum*, a key herbivore in the Canary Islands
- 11:45 **M. Pyl**, H. Gharbia, K. Sdiri, F. Oberhänsli, J. Friedrich, B. Danis & M. Metian
S5_05 Comparative role of biofilm-covered microplastic and sediment particles as vectors of ¹⁴C-PCB-153 to *Paracentrotus lividus*
- 12:00 **M. Aliende-Hernandez**, S. González-Delgado, R. Pérez-Portela & J.C. Hernández
S5_06 Effect of ocean warming on clonal and sexual population of the starfish *Coscinasterias tenuispina* (Lamarck, 1816)
- 12:15 Lunch and **Poster Session 1**
- 13:45 **P. Dubois (keynote)**
S5_07 Are macroalgal beds possible refuges for echinoderms facing ocean acidification?
- 14:30 **L.M. Schmidt**, G.A. Benaim, A. Kroh & O. Bronstein
S5_08 Global trends of echinoid mass mortalities – insights from *Echinocardium* from the Eastern Mediterranean Sea
- 14:45 **M. Byrne**, D.J. Deaker, P. Selvakumaraswamy & M. Clements
S5_09 Juvenile waiting stage crown-of-thorns sea stars are resilient in heatwave conditions that bleach and kill corals
- 15:00 **M. Martín-Huete**, M. Peralta-Serrano, R. Fernández-Vilert & R. Pérez-Portela
S5_10 Metabolic plasticity of sea urchins to face ocean warming
- 15:15 **N. Wambreuse**, E. Bossiroy, J. Delroisse, C. Vanwinge, I. Eeckhaut & G. Caulier
S5_11 Divergent function between perivisceral fluid and hydrovascular fluid under immunological stress in sea cucumbers (*Holothuria forskali*)
- 15:30 **G. Caulier**, A. Lourtie, P. Gerbaux, E. Claereboudt, P. Flammang & I. Eeckhaut
S5_12 Saponins: Multitasking chemical signatures in asteroids and holothuroids
- 15:45 **M. Lamare**, M. Byrne, B. Danis, D.J. Deaker, S. Dupont, S. Foo, T. Jowett, S. Karelitz, M.A. Sewell, L. Thomas & A. Aguera
S5_13 Antarctic sea star *Odontaster validus* larval performance is negatively impacted by long-term parental acclimation to warming

16:00	Coffee break
Session 6:	Ecology, Functional Ecology & Morphology I chairs: Maria Eugenia Majón-Cabeza & Loïc Michel
16:30 S6_01	M. Delleuze , G. Schwob, J. Orlando, B. Danis, E. Poulin & L. Cabrol Could two burrowing echinoid species coexist thanks to ecological niche differentiation driven by their gut microbiome?
16:45 S6_02	S. González-Delgado , O.S. Wangensteen, B. Alfonso & J.C. Hernández Echinoderms associated with different subtropical macroalgal communities revealed by metabarcoding
17:00 S6_03	L.F. Indriana , A. Kunzmann & M.J. Slater Dietary effect of fermented feed sources on growth performance of juveniles sea cucumber <i>Holothuria scabra</i>
17:15 S6_04	J. Pierrat , L. Urbistondoy, A. Modi, B. Viramoutou & P. Frouin What drives the patchy distribution of tropical sea cucumbers? A multispecific monitoring study
17:30 S6_05	M. Webb , M. Clements, P. Selvakumaraswamy, E. McLaren & M. Byrne Behavioural responses of juvenile Crown of Thorns Starfish (<i>Acanthaster</i> sp.) to flow and chemosensory cues from coralline algae, coral, and adult conspecifics
17:45 EMBRC	Nathalie Turque & Alex McDougall EMBRC - France: the French National Marine Biological Resource Centre
19:00	Open Public Conference by Thomas Saucède [in French]
20:00	La biodiversité marine des Terres australes françaises face aux changements climatiques

WEDNESDAY, OCTOBER 18, 2023

- Activity 1 Zoological Collections (Lyon 1 University)
- Activity 2 Palaeontological Collections (Lyon 1 University)
- Activity 3 Guided tour, Lyon Aquarium
- Activity 4 Field excursion to Ardèche (La Voulte Lagerstätte, Musée de l'Ardèche, ...)

THURSDAY, OCTOBER 19, 2023

Session 7:	Applied Biomedicine & Biomimetics chairs: Patrick Flammang & Michela Sugni
08:15 S7_01	V. Sardhalia & M. Albéric Bio-sourced hybrid pigments inspired by colored sea urchin spines
08:45 S7_02	R. Santos Screening for sea urchin adhesive proteins to develop new biomimetic adhesives for biotechnological and biomedical applications
09:00 S7_03	P. Flammang , N. Lemaire, N. Singh, A. Lin, J. Delroisse, C. Moraes & M.J. Harrington Mechanically tunable collagen scaffolds for tissue engineering applications inspired by sea cucumbers
09:15 S7_04	A. Whaite , B. Herlemont, J. Delroisse & P. Flammang Bonding with sea cucumbers: Identification of tube foot adhesive proteins from transcriptomic data

09:30 **G. Martinelli**, M. Roncoroni, A. Massironi, F. Bonasoro, S. Marzorati & M. Sugni
s7_05 Sea urchin wastes valorization: Production of innovative composite biomaterials for tissue regeneration

09:45 Coffee break

Session 8

Session 8: Systematics II
chairs: **Magdalini Christodoulou & Jeffrey R. Thompson**

10:15 **S. Stöhr**
s8_01 Genital plates and associated structures in Ophiuroidea – morphology and phylogenetic implications

10:30 **J.R. Thompson**, I.A. Rahman, M. Reich, T.A.M. Ewin, N. Mongiardino Koch & S. Zamora
s8_02 Origin and evolution of echinozoan body plans

10:45 **E. McLaren**, O. Bronstein, A. Kroh & M. Byrne
s8_03 *Tripneustes australiae*, the senior synonym of *T. kermadecensis*: Taxonomy and museum distribution records of sea urchins in the genus *Tripneustes* in eastern Australia

11:00 **L. Vantomme**, K. Gérard, Q. Jossart, B. Danis & C. Moreau
s8_04 Sea star (Asteroidea) diversity in the Magellanic region (south-Chile) and their affinities within the Southern Ocean

11:15 **T. Saucède**, Q. Jossart, J. Vandermeeren, M. Delleuze, B. Danis & C. Moreau
s8_05 The taxonomic status of *Aporocidaris incerta* (Koehler, 1902): Such a long enigma for a common species

11:30 **D. Janies**, Y.Q. Hernandez-Días, F.A. Solís-Marín, K. Lopez, J. Fletcher & I. Bosch
s8_06 Many cloning larvae and related juveniles are Oreasteridae

11:45 **K. Mezali**
s8_07 The sea cucumber of the Algerian coastal waters: Taxonomy, ecology and their nascent fisheries and illegal trade

12:00 **D.L. Soualili**, A. Benarous & K. Mezali
s8_08 First record of the echinid *Echinus melo* Lamarck, 1816 on the west coast of Algeria (Sidi- Madjdoub, Mostaganem)

12:15 Lunch and **Poster Session 2**

Session 9

Session 9: Biogeography: Past, Present and Future in a Changing World
chairs: **Angelina Eichsteller & Timothy D. O'Hara**

13:45 **T. O'Hara (keynote)**
s9_01 Biogeography and evolution of ophiuroids

14:30 **F. Ducarme**
s9_02 Keeping up reliable biogeographic information in a changing taxonomy : Three asteroid tales

14:45 **K.C.K. Ma**, R. Trenholm, J.-F. Hamel & A. Mercier
s9_03 Longitudinal gradient in the population size structure of the sea cucumber *Cucumaria frondosa* in the Northwest Atlantic

15:00 **H. Carter**, S. Williams & P. Oliveri
s9_04 To brood or not to brood: Predicting larval strategies in the Asteroidea

15:15 **O. Bronstein**, R. Zirler, L.A. Leck, T. Feldstein Farkash, M. Holzknicht, A. Kroh,
s9_05 V. Gerovasileiou, M.F. Huseyinoglu, C. Jimenez, V. Resaikos & M.B. Yokeş
From invasion to mass mortality- the ongoing saga of *Diadema setosum* in the Mediterranean Sea

15:30	Coffee break
Session 10:	Revision of the <i>Treatise on Invertebrate Paleontology</i> (S, T & U) chairs: Martina Nohejlová & Loïc Villier
16:00 S10_01	T. Saucède , A. Kroh, C. Mah, T.D. O'Hara, G. Paulay, M. Reich, S. Stöhr & B. Thuy Treatise on Invertebrate Paleontology, Part U, Echinodermata 3, Asterozoa - Echinozoa: Last updates and perspectives for the future
16:30 S10_02	B. Lefebvre Class Stylophora: What's new since the last IEC (Nagoya, 2018)?
16:45 S10_03	S. Zamora An overview of cinctans and ctenocystoids (stem-echinoderms)
17:00 S10_04	C.D. Sumrall A revised classification for Edrioasteroidea
17:15 S10_05	A. Kroh & M. Reich Holothuroid phylogeny inferred from mitogenome data
17:30 S10_06	Y. Makhlof , B. Lefebvre, E. Nardin & C.R.C. Paul Aristocystitidae (Echinodermata, Blastozoa): Systematic and taxonomic review
17:45 S10_07	M. Nohejlová , C. Dupichaud & B. Lefebvre <i>Quid novi Soluta?</i>
19:30	Gala Dinner
23:00	

FRIDAY, OCTOBER 20, 2023

08:00	Registration desk open
Session 11:	Collections & History of Echinoderm Research chairs: Marie Nonclercq & Mike Reich
08:30 S11_01	M. Nonclercq, C. Dupichaud , B. Bärtschi & B. Kaufmann (keynote) The Caudan Expedition: History and legacy of the echinoderms collections of the Université de Lyon
09:15 S11_02	C. Conand , S. Purcell, J.-F. Hamel, A. Mercier, M. Di Simone, A. Horellou, K. Friedman & A. Lovatelli Conservation of commercially exploited sea cucumbers (Holothuroidea): Recent advances and knowledge gaps
09:30 S11_03	P. Guenser & B. Lefebvre Historical, sampling and gender bias in palaeontological collections: Stylophora (Echinodermata) as a case study

09:45	Coffee break
Session 12:	Post-Metamorphosis Development chairs: Philippe Dubois & Dorota Kołbuk
10:15 S12_01	J. Walker , I.A. Rahman, D. Doran & J.R. Thompson Chemical composition and distribution in sea urchin teeth using synchrotron X-ray fluorescence
10:30 S12_02	S.R. Stock , P.D. Shevchenko & A. Ziegler Novel 3D quantification of plate and needle/prism dimensions in teeth of the Odontophora (Echinoidea: Camarodonta)

- 10:45 **G. Pria**, A. Barbaglio, L. Piovani, F. Marletaz, F. Bonasoro, P. Martinez,
S12_03 M.D. Candia Carnevali & M. Sugni
Cell commitment prevents larval regeneration in the crinoid *Antedon mediterranea*
- 11:00 **M. Albéric**, C. Dos Reis Ferreira, O. Spaeker, L. Bertinetti & Y. Politi
S12_04 The importance of red-spherule cells in the pigmented biomineralization processes of sea urchin spines

Session 13

Session 13: Ecology, Functional Ecology & Morphology II
chairs: Maria Byrne & Frédéric Ducarme

- 11:15 **G. Corbisier**, G. Caulier, J.-F. Hamel & A. Mercier
S13_01 Comparative and morpho-functional investigation of the stone canal in Holothuroidea
- 11:30 **A. Deridouh**, P. Flammang & S. Gabriele
S13_02 Tube feet dynamics control sea star locomotion
- 11:45 **A. Lourtie**, G. Caulier, L. Mussoi, M. Isorez, I. Eeckhaut & J. Mallefet
S13_03 Impact of host separation on the echinoderms obligate symbionts
- 12:00 **L. Mussoi**, A. Lourtie, G. Lepoint, F. David & G. Caulier
S13_04 Chromatic harmony in symbiosis: Acquisition and characterization of pigments in *Zenopontonia soror*, associated with *Culcita novaeguineae*

12:15 Lunch and **Poster Session 2**

Session 14

Session 14: Palaeontology II
chairs: Timothy A.M. Ewin & Elise Nardin

- 13:45 **J. Nebelsick (keynote)**
S14_01 Taphonomy and paleoecology of echinoids: Reconstructing the past
- 14:30 **M. Fau** & L. Villier
S14_02 Deep-sea Zoroasteridae (Asteroidea) are not living fossils: Evidences for a peramorphosis-driven evolution of this family
- 14:45 **T. Oji**, N. Landman, J.K. Cochran & A. Tajika
S14_03 CT-scans suggest that *Lakotacrinus brezinai* is a crinoid with a chemosynthetic mode of life
- 15:00 **B. Thuy**
S14_04 Was the Triassic ophiuroid radiation triggered by the Carnian Pluvial Event?
- 15:15 **L. Pauly**
S14_05 Test growth in Paleozoic echinoids: A short review and new morphological data from the Upper Devonian of Germany
- 15:30 **C. Voiculescu-Holvad**, B. Clark & T.A.M. Ewin
S14_06 The internal anatomy of Middle Jurassic comatulid cups (Comatulida, Articulata, Crinoidea), as revealed by X-ray microtomography, and its implications for the radiation of comatulid crinoids
- 15:45 **C.D. Sumrall**, N.S. Smith, B. Thuy & P.J. Holterhoff
S14_07 A new understanding of North American, Late Paleozoic brittle star faunas based on microfossils
- 16:00 **M. Reich**, A. Kroh & T.R. Stegemann
S14_08 Hidden diversity in Mesozoic fossil pluteus larvae (Ophiuroidea and Echinoidea)

16:15 Coffee break

Session 15: General Session
chairs: Marine Fau & Andreas Kroh

- 16:45 **J.P. Féral**
S15_01 Standards of initial training in occupational scientific diving (OSD), a necessity for the mobility of echinologists
- 17:00 **M. Bonomo & O. Bronstein**
S15_02 High-throughput non-invasive underwater DNA sampling methods – Red Sea echinoderms as a case study

17:15
17:30 Closing Ceremony & Next Echinoderm Conferences

POSTER SESSION 1
MONDAY & TUESDAY, OCTOBER 16–17, 2023

Embryonic & Larval Development

P1_01. **A. Aleotti, M. Preti, A. Borsani, J. Devilliers, M. Elphick & M. Sugni**

Exploring the effects of neurotransmitters and neuropeptides on the swimming behaviour of crinoid larvae

Ecophysiology, Ecotoxicology & Effects of Global Change Stressors

P1_02. **M. Bayat, C. Moreau, L. Katz, M. Delleuze, M. Dogniez, I. George & B. Danis**

Exploring the impact of climate change on trophic plasticity and gut microbiome variability: Insights from a southern ocean sea urchin species

P1_03. **R. Fernández-Vilert, J.C. Hernández, S. González-Delgado, M. Martín-Huete & R. Pérez-Portela**

Effect of acidification on populations of the sea urchin *Paracentrotus lividus* (Lamarck, 1816) using natural gradients

P1_04. **A. Mercier & J.-F. Hamel**

Investigating the mystery of beaching events involving sea cucumbers

P1_05. **V. Dettling, Claire Laguionie-Marchais, J.B. Fini & S. Samadi**

Can holothurians from the deep-sea of New Caledonia be used to monitor microplastic pollution?

Ecology, Functional Ecology and Morphology

P1_06. **H. Chammem, C. Marcos, J. Ben Souissi & A. Pérez-Ruzafa**

Echinodermata assemblages from northern Tunisia (Central Mediterranean Sea)

P1_07. **H. Chammem, C. Zuleta, C. Aldea & C. Jofré**

Echinoderms (Echinodermata) from marine protected areas of Central Chile coast

P1_08. **J. Hurtado-García & M.E. Manjón-Cabeza**

Environmental control on the structure of asteroid assemblages in the Patagonia Argentine

P1_09. **J. Heijens, E. Courville, E. Poulin & T. Saucède**

Ecological niche evolution within the echinoid genus *Arbacia* Gray, 1835

P1_10. **E. McLaren, B. Sommer & M. Byrne**

Long term stability of *Centrostephanus* populations in coral associated habitat despite other sea urchin populations declining in the subtropical-to-temperate transition zone of east Australia

P1_11. **K.C.K. Ma, F. Gao, J.-F. Hamel & A. Mercier**

First observations and morphological descriptions of biogenic calcareous microcrystalline structures in an echinoderm

P1_12. **S. Williams, H. Carter, C. Laumer, C. Trimble, Y. Kano, S. Putschakarn, S. Banchongmanee & N.J. Kenny**

Genetic control of blue colour in tropical starfish *Linckia laevigata*

P1_13. **C. Trimble, S. Williams, M. Lamare, N.J. Kenny & M. Fellner**

Molecular investigations into the basis and role of colouration in the sea star *Linckia laevigata*

Systematics

P1_14. **J. Na, D. Zhang, H. Cheng, Y. Zhou & C. Wang**

Accelerated and variable evolution rates of Ophiuroidea based on comparative mitochondrial genome

P1_15. **S.F. Hiruta, D.H.E. Setiamarga & T. Fujita**

Molecular phylogeny of Neoasteroidea (Asteroidea) based on mitochondrial genome

P1_16. **A. Hugall, M. Byrne & T.D. O'Hara**

Amphipholis squamata is an allopolyploid swarm

P1_17. **J. Lee & T. Lee**

Comparative taxonomic analysis of *Holothuria (Thymiosycia) decorata* and *H. (Mertensiothuria) hilla*

P1_18. **C. Moreau, Q. Jossart, M. Cabessut, C. De Ridder, M. Delleuze, J. Vandermeeren, B. Danis & T. Saucède**

Systematics of the urchin *Ctenocidaris (Eurocidaris) nutrix* (Thomson, 1876)

P1_19. **Q. Jossart, A. Dettai, C. Moreau, B. Danis, I. Schön & M. Kochzius**

Sea star mitogenomes: characterization and utility for phylogenetics

P1_20. **T. Mogi, T. Fujita & Y. Kano**

Systematic revision of *Ctenodiscus* (Asteroidea, Paxillosida) in Japanese waters

P1_21. **C. Buron, C. Moreau, B. Danis & Q. Jossart**

Diversity in the deep sea: a case study of the Pterasteridae (Echinodermata: Asteroidea)

P1_22. **C. Yuan, C. Wang & D. Zhang**

Morphological and molecular phylogenetic analysis of sea cucumbers (Holothuroidea) collected in the Kyushu-Palau ridge

P1_23. **A. Lee & T. Lee**

Taxonomical revision of *Ophiopholis aculeata* and *O. japonica* based on the mitochondrial COI and morphological analysis

P1_24. **C. Moreau, A. Eichsteller, L. Vantomme, E. Kamyab, P. Martínez Arbizu & A. Brandt**

Echinoderm diversity in the northeast Aleutian Trench

P1_25. **E. Kamyab, S. Khodami, F. Bonk, S. Rossel, J. Taylor, S. Brix & P. Martínez Arbizu**

IceDivA Project: The study of diversity of deep-sea holothurians in the North Atlantic Ocean using molecular approaches

P1_26. **M. Fau**

Revision of the genus *Benthogenia* Fisher, 1911, with description of a new species, and detailed ossicle anatomy

P1_27. **A.A. Caballero-Ochoa, B.E. Buitrón-Sánchez, F.A. Solís-Marín, C.A. Conejeros-Vargas & D. Mireles-Velásquez**

Skeleton structure of *Nidorellia armata* (Gray, 1840) (Echinodermata: Asteroidea) as archaeological evidence of its presence in the offerings of Templo Mayor, Mexico

P1_28. **A. Eichsteller, A. Martynov, T.D. O'Hara, M. Christodoulou, T. Korshunova, G. Bribiesca-Contreras & P. Martínez Arbizu**

Ophiotholia saskia: a new brittle star from the Clarion Clipperton Zone

P1_29. **D.L. Soualili, Z. Lebouazda, I. Khodja & K. Mezali**

Focus on the morphological aspect of *Ophioderma* Müller & Troschel, 1840 from the Algerian west coast

P1_30. **M. Reich, G. Paulay, A. Kroh, V. Winkler & H. Hagdorn**

Anal teeth in modern and fossil holothuriid sea cucumbers (Echinodermata: Holothuroidea: Actinopoda)

POSTER SESSION 2 THURSDAY & FRIDAY, OCTOBER 19-20, 2023

Applied Biomedicine and Biomimetics

P2_31. **E. Kamyab, M.Y. Kellermann, M. Reverter, D. Praditya, A.W. Storjohann, M. Köck, J. Wink, E. Steinmann, D. Tasdemir & P.J. Schupp**

Molecular diversity and structure-activity relationship of saponin in Indo-Pacific sea cucumber *Bohadschia argus*

P2_32. **I. Ventura, V. Harman, R.J. Beynon & R. Santos**

Glycoproteins: Are they involved in sea urchin adhesion?

P2_33. **T.N. Olivares-Bañuelos, A.V. Colores-Mendoza & A. Ortega**

Expression of glia transporters GLAST and GLT-1 in the Mexican Pacific sea biscuit *Dendraster excentricus*

P2_34. **N. Lemaire, N. Singh, A. Lin, R. Wattiez, J. Delroisse, M.J. Harrington & P. Flammang**

An investigation of the molecular and structural properties of the mutable collagenous tissue in the European sea cucumber *Holothuria forskali*

Post-Metamorphosis Development

P2_35. **J.R. Thompson, P. Paganos, Z.X. Schultz, L. McMonagle, G. Benvenuto, F. Caccavale, F. Marletaz, M.I. Arnone & P. Oliveri**

Accretionary skeletal growth in post-metamorphic *Paracentrotus lividus* (Echinodermata: Echinoidea)

P2_36. **S. Jobson, J.-F. Hamel & A. Mercier**

Autotomy in the apodid sea cucumber *Chiridota laevis*

P2_37. **J. Coakley & M. Lamare**

Quantifying *in situ* growth rates in the New Zealand sea star *Coscinasterias muricata* using tetracycline tag-recapture methods

Collections and History of Echinoderm Research

P2_38. **M. Christodoulou**

The echinoderm collection of the Biologiezentrum (OÖ Landes-Kultur GmbH), Linz, Austria

P2_39. **J. Thomas & Récolnat team**

Récolnat: a digital platform for the promotion of 350 years of natural history collections

P2_40. **H. Hagdorn, M. Reich, B. Gaitzsch & J.W. Schneider**

The type material of the iconic Muschelkalk 'stone lily' *Encrinurus liliiformis* Lamarck, 1801 (Triassic, Crinoidea)

Biogeography: Past, Present and Future in a Changing World

P2_41. **C. Moreau, L. Katz, A.N. Mironov, M. Christodoulou, P. Martinez Arbizu, A. Eichsteller, S. Brix, Q. Jossart, L. Vantomme & B. Danis**

Phylogeography of the deep-sea benthos: Results from the abyssal sea star family Porcellanasteridae (Asteroidea, Echinodermata)

P2_42. **A. Macías-Ramírez, L.M. García-Guillén & M.E. Manjón-Cabeza**

Ophiuroidea of the Avilés Canyons System (INDEMARES + LIFE Project)

P2_43. **A.A. Caballero-Ochoa, B.E. Buitrón-Sánchez & F.A. Solís-Marín**

Distributional congruence and species richness of echinoderms in the East Pacific

P2_44. **A. Bujalance Silva, J. Hurtado-García, F. Moya Ruiz, Th. Saucède & M.E. Manjón-Cabeza**

Preliminary results of the study of the echinoids of the Scotia Arc (Antartica)

P2_45. **M. Martín-Huete, C. Leiva, L. Pérez-Sorribes, M. Peralta-Serrano, S. González-Delgado & R. Pérez-Portela**

Adaptation and divergence patterns in the spiny sea star *Marthasterias glacialis*

Palaeontology

P2_46. **B. Lefebvre, Y. Candela, E. Nardin, T. Servais & B. Mottequin**

Late Ordovician echinoderms from the Brabant Massif (Belgium): Taxonomic revision, palaeoecology and palaeobiogeographic implications

P2_47. **B. Lefebvre, M.E. Cournoyer, P. Isotalo & T.E. Guensburg**

Taxonomic revision of the first described stylophoran echinoderm: *Ateleocystites huxleyi* Billings, 1858

P2_48. **A. Cincotta, B. Lefebvre, P. Guériau, S. Olive & B. Mottequin**

A possible peltocystid mitrate (Stylophora) in a new Praguian (Early Devonian) Konservat-Lagerstätte from Belgium

P2_49. **M. Nohejlová**

Cambrian gogiid eocrinoids from the Barrandian area: Re-evaluation of their diversity

P2_50. **T. Boisset, B. Lefebvre, R. Mooi, A. Kroh, V. Winkler, J. Adrien & M.J. Martin**

Insights into stylophoran anatomy and taphonomy based on an exceptionally preserved mitrate from the Lorraine Group (Upper Ordovician) of New York, USA

P2_51. **Y. Ishida, M. Tagiri, T. Kato, S. Tsunoda, Y. Nakajima, B. Thuy, L.D. Numberger-Thuy & T. Fujita**

Exceptionally well preserved *Stegophiura* (Echinodermata, Ophiuroidea) fossils from the Pliocene of central Japan

P2_52. **L.D. Numberger-Thuy, Y. Ishida, E. Doi & B. Thuy**

Unexpected brittle-star diversity in the Carnian (Upper Triassic) of SW-China and Japan

P2_53. **L. Pauly**

A new echinoid fauna from the Famennian of Velbert (W Germany) and its implications for Late Devonian evolution of sea urchins

P2_54. **F. Noirit, J.A. Waters, J.E. Bauer, J. Le Mort & B. Lefebvre**

First results of the revision of the eublastoids (Echinodermata) from the Devonian of the Armorican Massif (NW France)

P2_55. **E.E.O. Cutcliffe, E.G. Mitchell, J.R. Thompson, T.A.M. Ewin & I.A. Rahman**

Quantifying tiering of crinoid communities using a new echinoderm Lagerstätte from the Jurassic of Wiltshire, UK

P2_56. **F.A. Raquet, D.B. Blake & B. Lefebvre**

A new multiarmed asteroid from the Lower Devonian of Morocco

P2_57. **A. Salone, M. Fau, J. Bardin & L. Villier**

Deciphering evolutionary patterns in the fossil *Metopaster* (Valvatida, Asteroidea) using 3D geometric morphometrics on ultimate superomarginal ossicles

General Session

P2_58. **N.E.H. Belkacem, I. Khodja & K. Mezali**

Nutritional quality and culinary and nutraceutical valorization of sea cucumbers from the Mostaganem region (Algeria)

P2_59. **R. Hocde, G. Thouzeau, S. Bourquin, L. Borel, M. Coulange, J.P. Féral, E. Feunteun, S. Jacquet, P. Le Bras, L. Le Gall, S. Legrand, P. Lenfant, M. Lepage, C. Play, G. Saragoni & Q. Schull**

Scientific diving in France: an overview of the current practices in science

CONTACT



<https://ece11.univ-lyon1.fr/en>



ece11@univ-lyon1.fr



Université Claude Bernard Lyon 1

Cellule Congrès - ECE11

Bâtiment GEODE - R1

43, bd du 11 Novembre 1918

69622 Villeurbanne Cedex, FRANCE

+33 (0) 4 72 43 35 90

Université Claude Bernard



Lyon 1

OSU Observatoire
de Lyon



Congrès Lyon 1



BIOGÉOSCIENCES



Seayos
Track your dive!