



STATION MARINE  
CONCARNEAU

# SEA CUCUMBER AQUACULTURE: NEW CHALLENGES

October 3 & 4, 2022 at the  
Concarneau Marine Station



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Sea Cucumber Aquaculture : New Challenges  
October 3 & 4, 2022 - Concarneau Marine Station



**STATION MARINE**  
CONCARNEAU

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agence nationale  
de la recherche

## Monday, October 3rd 2022

### Session Fisheries and Aquaculture #1

*Moderator: Igor EECKHAUT (Mons University, Belgium)*

9:00-9:10 **Igor EECKHAUT, Nadia AMEZIANE & Solène AVIGNON**

*Opening*

9:10-9:40 **Chantal CONAND** (MNHN/Univ. La Réunion, France)

*Global sea cucumbers fisheries: an update of the past decade*

9:40-10:10 **Jean-François HAMEL** (SEVE, Canada)

*Community-based emerging fisheries in Nunavut (Canadian Arctic)*

10:10-10:40 **Mercedes GONZALEZ-WANGUEMERT** (WANGUMAR SLU, Spain)

*Sea cucumber aquaculture, why not?*

**10:40-11:10** *Coffee time*

11:10-11:40 **Matthew James SLATER** (Alfred Wegener Institute, Germany)

*The uses of European sea cucumbers in Integrated Multitrophic Aquaculture*



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11:40-12:10 **Frank DAVID** (MNHN, France)

*A screening of methods to differentiate wild vs. farmed European sea cucumbers*

**12:10-14:00 Lunch time**

*Moderator: Chantal CONAND (MNHN / Univ. of La Réunion, France)*

14:00-14:30 **Arnold RAKAJ** (University of Rome Tor Vergata, Italy)

*Aquaculture and IMTA applications with mediterranean sea cucumbers: progress and problems*

14:30-15:00 **Marc-André LAFILLE** (French Polynesia Marine Resources Department)

*Strategic approach and sustainable development of sea cucumber farming adapted to French Polynesia context*

### Session Physiology and Ecotoxicology

15:00-15:30 **Igor EECKHAUT** (Mons University, Belgium)

*Ovarian and oocyte maturations of *Holothuria scabra* in the context of aquaculture production*

15:30-16:00 **Philippe DUBOIS** (ULB, Belgium)

*Sea cucumber aquaculture in a changing world*

**16:00-16:30 Coffee time**



16:30-17:00 **Patrick FROUIN** (University of La Réunion, France)

*Wild sea cucumber stress: what do enzymatic activities and oxidation protein products tell us about three tropical species (Holothuria atra, Holothuria leucospilota and Stichopus chloronotus)*

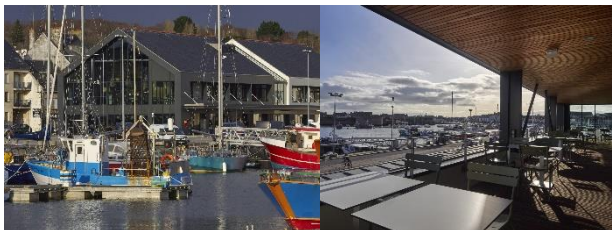
17:00-17:30 **Alessandra WHAITE** (Mons University, Belgium)

*Tube feet and cuvierian tubules: two different adhesive systems from sea cucumbers*

17:30-18:00 **Mohammad MAGDY** (University of Rome Tor Vergata, Italy)

*Towards sea cucumbers as a new model in embryonal bioassays in ecotoxicological studies*

*Evening at Le Chantier restaurant with panoramic sea view  
(20 Quai Carnot, Concarneau)*



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## Tuesday, October 4th 2022

### Session Fisheries and Aquaculture #2

*Moderator: Guillaume CAULIER (Mons University, Belgium)*

9:00-9:30      **Laurent BURG**Y (Tahiti Marine Products, French Polynesia)

*Development of sustainable sea cucumber farming (Holothuria fuscogilva) in French Polynesia*

9:30-10:00    **Bastien SADOUL** *in videoconference* (Institut Agro Rennes-Angers, France)

*Latest advances in the breeding and rearing of Holothuria forskali*

10:00-10:30   **Gyda CHRISTOPHERSEN** (Møreforskning AS, Norway)

*Initiating reproduction in captivity – emerging species Parastichopus tremulus*

**10:30-11:00**    *Coffee time*

11:00-11:30    **Annie MERCIER** (Memorial University, Canada)

*Latest advances on Cucumaria frondosa: biology, fisheries and aquaculture*

11:30-12:00    **Gaëtan TSIRESY** (ISTRCE, Madagascar)

*Technical feasibility of sea cucumber farming (Holothuria scabra) at the pioneer site in North-Eastern of Madagascar*



**12:00-14:00 Lunch time**

Moderator: *Philippe DUBOIS (ULB, Belgium)*

**Session Diseases and Parasites**

14:00-14:30 **Jérôme DELROISSE** (Mons University, Belgium)

*Story of a sea cucumber disease: a multidisciplinary approach of the Skin Ulceration Syndrome in *Holothuria scabra**

14:30-15:00 **Anchana PRATHEP** (Prince of Songkla University, Thailand)

*The first observation of Skin Ulceration Disease (SKUD) in *Holothuria (Metriatyla) scabra* Jaeger, 1833 from seagrass meadows in Thailand and some metagenomic studies.*

15:00-15:30 **Guillaume CAULIER** (Mons University, Belgium)

*From diseases to coelomocytes : the mysterious immune system of sea cucumbers*

**15:30-16:00 Coffee time**

16:00-16:30 **Noé WAMBREUSE** (Mons University, Belgium)

*How do sea cucumbers cope with bacterial infection? Let's bring coelomocytes into the world of omics*

16:30-17:00 **Patrick LE CHEVALIER** (University of Bretagne Occidentale, France)

*Plasticity and specificity of the bacterial microbiota in the Sea Cucumber *Holothuria forskali**



## Session Economics

17:00-17:30 **Wilson IANONA** (IANONA Wilson, Madagascar)

*Looking for investors for sea cucumber (Holothuria scabra) farming project in the Northeastern of Madagascar in the SAVA region*

17:30-18:00 **Agnès JOLY** (Aquaprimeur, IOT, France)

*Indian Ocean Trepang, the pioneer and leading private company of the West Indian Ocean producing Holothuria scabra in aquaculture*

***19:00-21:00 - A free drink at the Tri Martolod brewery  
(ZA du Colguen, Concarneau)***

