

Where Industry meets Science in marine biotechnology

Les Rendez-Vous de Concarneau 2019

October 17th and 18th 2019

The 'Rendez-Vous de Concarneau' constitutes a series of yearly workshops aiming at promoting relationships and strengthening bridges between industry and academic research, and providing technology and knowledge transfer amongst stakeholders within European marine biotechnologies.

The choice for 2019 has been to invite academics and industrials working in the field of bioinspiration. The marine world is a fantastic source of inspiration. Applications mimicking marine flora and fauna are now numerous and increasingly reach a commercial level. Focusing on five overarching topics, the Rendez-Vous will present industrial and academic achievements around the concept of bioinspiration.



Soutien de la Région Bretagne

PROGRAMME

DAY 1 - Thursday, October 17th 2019

8h30 - 9h00 : Welcoming coffee

- 9h00 :** Rachel Portal-Sellin – Technopole Quimper-Cornouaille (Quimper - FRANCE)
Welcome & context of the day (Emporia4KT)
- 9h05 :** Nadia Améziane – MNHN Station marine de Concarneau (Concarneau - FRANCE)
Introduction

BIOINSPIRATION

- 9h10 :** Annabelle AISH & Jian-Sheng SUN – MNHN "Bioinspire-Muséum" (Paris - FRANCE)
Bioinspire-Museum : Natural History's contribution to (marine) bioinspiration
- 9h30 :** Gilles BOEUF – Université Pierre et Marie Curie (Paris - FRANCE)
From biodiversity to biomimicry
- 9h50 :** Kalina RASKIN – CEEBIOS (Senlis - FRANCE)
Biomimetics : context and opportunities

10h10 - 10h30 : Coffee break

Background: Short-Films "Nature = Futur !"



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CAMPUS MONDIAL DE LA MER

SEA TECH WEEK
BREAST-FRANCE

Technopole
Quimper-Cornouaille

Ifremer

CAPBIOTEK
by Bioengin

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MEDICAL APPLICATIONS

Moderator : Jian-Sheng SUN – MNHN "Bioinspire-Muséum" (Paris - FRANCE)

- 10h30** : Agata ZYKWINSKA – IFREMER (Nantes - FRANCE)
Bacterial polysaccharides to mimic extracellular matrix of animal tissue
- 10h50** : Nicolas PUILANDRE – MNHN (Paris - FRANCE)
Cone snails and other venomous gastropods: an inexhaustible reservoir of compounds with therapeutic applications?
- 11h10** : Erik GUILLEMIN – WAVERA (Paris - FRANCE)
Pumps inspired by nature
- 11h30** : Noëlle CALIZOT – NEURO-SYS SAS (Gardanne - FRANCE)
Neuroprotective properties of marine sponges: a great potential for the discovery and development of drugs for neurodegenerative diseases
- 11h50** : Andrew MEARNs SPRAGG – JELLAGEN (Cardiff - U.K.)
Jellagen® - A next generation collagen biomaterial derived from jellyfish for cell culture, regenerative medicine and tissue engineering applications

12h10 - 14h10 : Lunch break

(At the Marine Station)



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BIOFOULING

Moderator : Jean-Paul CADORET – GREENSEA (Meze - FRANCE)

14h10 : Yves BLACHE – University of Toulon / MAPIEM Laboratory (Toulon - FRANCE)
Targeting biofilms with non-toxic molecules: a green solution to reduce environmental impact of biocides

14h30 : Gonçalo COSTA – BIOMIMETX (Lisbon - PORTUGAL)
An antifouling solution designed from biomimicry

14h50 : Bertrand THOLLAS – POLYMARIS (Brest - FRANCE) *slides in English, presentation in French*
A new green antifouling produce by marine bacteria : from laboratory to industrial deployment

15h10 : Marion PADIOLEAU – FINSULATE FRANCE / BLUE INNOV (Nantes - FRANCE)
A nature inspired antifouling 100% environmental friendly with mechanical action

15h30 : Benoît AGNUS – SCIENTEAMA (Villons-les-Buissons - FRANCE)
Projet for the conception of an antifouling servo control system with monitoring and réduction stimuli

15h50 - 16h10 : Coffee break

Background: Short-Films "Nature = Futur !"



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ENGINEERING

Moderator : Franck HENNEQUART – ALAGAIA (Saint-Lô - FRANCE)

16h10 : Frédéric BOYER – IMT Atlantique (Nantes - FRANCE)
A source of bio-inspiration for underwater robotics: electric fish

16h30 : Mohamed BOUTOUIL – ESITC (Caen - FRANCE)
The MARINEFF Project

16h50 : Cédric HUBAS – MNHN Station marine de Concarneau (Concarneau - FRANCE)
3D artificial reefs

19h00 : Ice-breaker and dinner

(Sponsored by Emporia4KT project)

Place TBA



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DAY 2 – Friday, October 18th 2019

8h30 – 9h00 : Morning coffee

BIOMATERIALS

Moderator : Annabelle AISH – MNHN “Bioinspire-Muséum” (Paris - FRANCE)

09h00 : Dan MORSE – UCSB (Santa Barbara – U.S.A.)

Marine proteins reveal novel paths to high value

09h40 : Jacques LIVAGE – Collège de France (Paris - FRANCE)

Bioinspired glass

10h00 : Susana FERNANDES – CNRS / Université de Pau & Pays Adour (Anglet - FRANCE)

Marine molecules: a rising tide of challenges for the development of functional and bio-inspired biomaterials

10h20 : TBA –

title of presentation TBA

10h30 – 10h50 : Coffee break

Background: Short-Films “Nature = Futur !”



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ENERGY

Moderator : Nalani SCHNELL – MNHN Station marine de Concarneau (Concarneau - FRANCE)

11h10 : Christophe GOUPIL – Université Paris – Diderot (Paris - FRANCE)
Bioinspiration of energy uses: a thermodynamic approach

11h30 : TBA –
title of presentation TBA

11h50 : Jean Denis VIGNE – MNHN (Paris - FRANCE)
Closure speech

12h10 - 14h10 : Lunch break

(At the Marine Station)

VISITS TO LOCAL INDUSTRIES

14h10 - 18h00 : Visits to :

Abyss Ingrédients (Quimper)

ID Mer (Lorient)

in partnership with Capbiotek, regional network for biotechnologies



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Scientific committee RVCC 2019 :

Chairman :

Jean-Paul Cadoret (GREENSEA - France)

Members :

Catherine Boyen (Station Biologique de Roscoff - Sorbonne Université - France)

Sylvia Collic-Jouault (IFREMER - France)

Claire Hellio (UBO - France)

Jean-François Sassi (CEA Cadarache - France)

Franck Hennequart (Algaia - France)

Corina Moya (BEA - Spain - Gran Canaria)

Charlie Bavington (Glycomar - U.K.- Scotland)

Steering committee RVCC 2019 :

Presidents :

Nadia Améziane (Station marine de Concarneau - MNHN - France)

Hélène Salin (MNHN Paris - France)

Members :

Annabelle Aish (Bioinspire Muséum - MNHN Paris - France)

Bernard Commère (Ministère de la Recherche - France)

Roland Conanec (CBB Capbiotek - France)

Fabienne Guérard (UBO - France)

Anouchka Krygelmans (Station marine de Concarneau - MNHN - France)

Gaël Le Meur (Région Bretagne - France)

Rachel Portal-Sellin (Technopole Quimper-Cornouaille - France)

Nalani Schnell (Station marine de Concarneau - MNHN - France)

Nicole Ziegler (Conseil départemental du Finistère - France)



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