28 February - 11 March, 2022 ‖ Roscoff - Brittany - France

Established and Emerging Model Organisms for Marine Science

Schmid Training Course – MU4BM113

Aim of the course: to show students how marine organisms can be used to explore several fields of biological research (see course topics page 2)

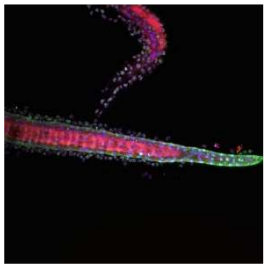
Teaching method: this course will benefit from a hybrid learning (combining online distant resource **with** in person pratical lab work in the marine station of Roscoff

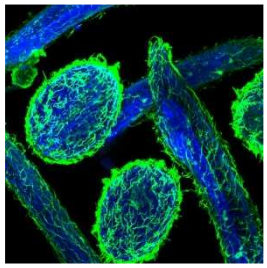
at least 6 of the 12 models listed below will be presented:

Acoela
Cephalochordata
Chondrichthyes
Brown Algae
Echinodermata
Urochordata
Porifera
Annelida
Marine bacteria
Cnidaria
Crustacea
Placozoa

Want to know more? Please contact:
agnes.boutet@sb-roscoff.fr

spearker list will come soon!





Pictures taken **by the students** during the last course

COURSE TOPICS

For each model:
Life Cycle
Anatomy
Embryogenesis
Evolution
Evolutionary developmental biology (Evo-Devo)

Tissue and Organs Regeneration
Genetic networks and genomic data
Behaviour - Neuroscience
Cell biology
Cellular morphogenesis
Functional approaches
Tools for molecular and cellular analyses

CREDIT POINTS

The **Schmid Training Course** is part of several Master Course Programmes:

SU (Sorbonne Université)

- Master BMC – specialty « Développement et cellules souches »
- Master BIP – specialty « Biologie et Bioressources Marines »

UNISALENTO (University of Salento, Lecce)

- Master Biological Sciences specialty « Biologia sperimentale degli organismi marini »

University of Fribourg

- Master in Developmental and Neurobiology

Students will be awarded **6 ECTS* credits** after they have successfully completed the course programme (written and oral evaluation)

* ECTS: European Credit Transfer and accumulation System (1 ECTS = 10 hours training)

HYBRID LEARNING

The course has its own online open access resource. Please visit it:
https://digital-marine.sorbonne-universite.fr/index.php/digitalmarine

AUDIENCE

- The course is open to **master** students interested in marine organisms, development, molecular studies and evolution
- Participation to the course requires knowledge of fundamental principles of molecular biology and developmental genetics. Knowledge in metazoan phylogeny and evolution is also desirable
- The teaching will be done in English

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