**Speakers & Models**

- Xavier Bailly, FR & Simon Sprecher, CH
  *Acoela*

- Salvatore D’Aniello, IT & Stéphanie Bertrand, FR
  *Cephalochordata*
  - Agnès Boutet, FR
  *Chondrichthyes*
  - Bénédicte Charrier, FR
  *Echinodermata*
  - J-P Chambon, FR
  *Urochordata*
  - Maja Adamaska, AU
  *Porifera*
  - Patrick Cormier, Julia Morales, FR
  *Echinodermata*
  - Eve Gazave, FR
  *Annelida*
  - Raphaël Lami, FR
  *Marine bacteria*
  - Stefano Piraino, IT
  *Cnidaria*
  - Nicolas Rabet, FR
  *Crustacea*

- Bernd Schierwater & Hans-Jürgen Osigus, DE
  *Placozoa*

**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)

**Students** will be actively involved in practical lab work. They will also participate to discussions and debates on selected topics from scientific articles (journal club)

**Application:** Send a CV & motivation letter to:

agenes.boutet@sb-roscoff.fr
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)

AUDIENCE

- The course is open to master students interested in marine organisms, development, molecular studies and evolution
- Fellowships covering travel and accommodation fees are available for students coming from partner universities (Salento, Hannover, SU)
- 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