

2d Multi-scale Imaging for the Study of Reproduction

Summer school 2019 June 17-20 – Nouzilly, France

The aim of the summer school Multiscale Imaging for the Study of Animal Reproduction is to train young scientists in the field of animal reproduction to various imaging techniques from subcellular to whole animal levels. This school is dedicated to non-specialists in imaging techniques and aims to provide a broad knowledge on imaging techniques and their application for the study of animal reproduction. Participants will have the opportunity to get in-depth knowledge about specific imaging techniques by interacting with speakers.

The school will provide theoretical training through seminar sessions given by experimented scientists in the morning and practical demonstrations in the afternoon.

The summer school aims to provide a stimulating training opportunity for young scientists (doc and post-doc).

The participants are encouraged to **present a poster** on their current work and to highlight the imaging aspects of their research. Posters sessions will be organized between theoretical and practical sessions.

Provisional List of speakers/demonstrators:

| Speaker | Function | Area of interest |
|---------------------------------------|--|--|
| Hans ADRIANSEN (INRA) | Engineer MRI | MRI |
| Marie-Claire BLACHE (INRA) | Assistant Engineer in microscopy and image analysis | Microscopy and image analysis |
| Xavier CAYLA (INRA) | Research fellow in cell signaling Head of Cellular Imaging Facility | Microscopy and image analysis |
| Elodie CHAILLOU (INRA) | Research fellow in neurobiology and behavior | Animal behavior, neuroanatomy, MRI |
| Xavier DRUART (INRA) | Engineer in biotechnology | Sperm imaging |
| Anne DUITTOZ (University of Tours) | Professor in animal physiology | Neuroendocrinology, neurons imaging |
| Renaud FLEUROT (INRA) | Technician in microscopy and image analysis | Cellular imaging, microscopy, image analysis |
| Daniel LE BOURHIS (ALLICE) | Engineer in biotechnology | Embryo development |
| Scott LOVE (INRA) | Research fellow in MRI | MRI |
| Jean-Yves RAMEL (University of Tours) | Professor in Computing sciences | Image computing |
| Misha SAVIC (IMV) | Area Market manager | Sperm movement analysis |
| Clovis TAUBER (University of Tours) | Professor in Biostatistics | Image analysis |

School local organization committee

Anne DUITTOZ
Xavier CAYLA
Xavier DRUART

Daniel LE BOURHIS
Elodie CHAILLOU
Scott LOVE

School application

! Free registration – free housing !

The school will be open to 16 applicants. No fees and no housing will be charged. However the school does not take charge of transportation to Tours.

To apply please provide:

- Curriculum vitae
- Motivation letter
- Support letter from a referee

And send to Prof Anne DUITTOZ : anne.duittoz@univ-tours.fr

School deadlines

Application: march 1st 2019

Notification Acceptance: March 15th 2019

Location of School

Seminars and practical demos will be held in the INRA center Val de Loire, Nouzilly

<http://www.val-de-loire.inra.fr/en>

and at the Reproductive Physiology and Behaviors Research Unit

https://www6.val-de-loire.inra.fr/physiologie_reproduction_comportements_eng/

Participants will be accommodated in Tours (30km). Transfers will be operated by buses (free).

School financial support

CRB Anim
INRA
University of Tours
IMV Technologies
ALLICE