

High-resolution small animal ultrasound imaging

6 - 9 October 2020
Hôpital Cochin Paris

Course overview

The purpose of this training session is to give each participant the key concepts and practice of high-resolution small animal ultrasound imaging in order to become an independent user.

6 - 9 October 2020, Paris, France



Image: © PIV, Institut Cochin-12 days mouse embryo

Duration : 4 days

Location : Hôpital Cochin, Paris, France

Groups limited to 9 trainees

Training manager : V. Berthouaud
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INSTN Course code : 14A

Who is the course for ?

Biologists, from technician to researcher, in particular in the fields of cardiology, cancerology, developmental biology ; MDs and physicists

TARGETED SKILLS

- Understand the principles of ultrasound images acquisition and processing
- Acquire ultrasound images autonomously
- Analyse US data autonomously
- Apply the concepts of US imaging to developmental biology, cardiology, hemodynamics, ...
- Get familiar with current technological evolutions

ENTRY REQUIREMENTS

No specific entry requirements are necessary to attend this training session.

CONTENT

Lectures

- Introduction to ultrasound imaging : parameters, fine-tuning
- Echocardiography
- Hemodynamics
- Advanced ultrasound imaging (contrast ultrasound, elastography, ...)

Demonstrations

- Embryo micro-guided injection
- Contrast ultrasound

Hands-on

- Gestation/development
- Echocardiography
- Abdominal anatomy and tumors
- Hemodynamics
- Data analysis



Registration fees

Student : 980 €
Academic : 1960 €
Industrial : 2980 €

Please contact us for more information on this course.

WHY TAKE THIS COURSE?

- Most of the time reserved for practical work (21h)
- Teaching packages in small groups