

# High-resolution small animal ultrasound imaging

5 - 8 October 2021  
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.

**5 - 8 October 2021, Paris, France**

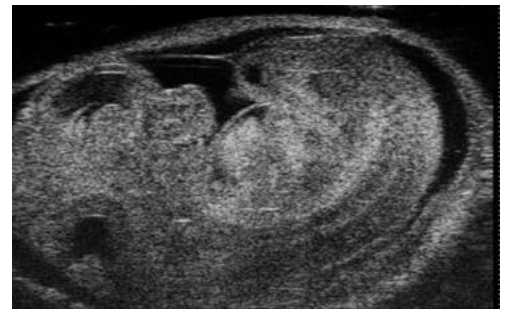


Image: © PIV, Institut Cochin-12 days mouse embryo

**Duration :** 4 days

**Location :** Hôpital Cochin, Paris, France

**Groups limited to 9 trainees**

**Training manager :** V Berthnaud  
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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

Academic : 2000 €  
Industrial : 3000 €

*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