

Objectives

- 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

Public

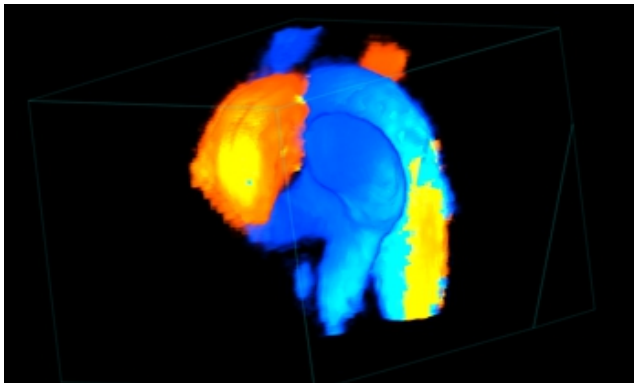
Biologists, from technician to researcher, in particular in the fields of cardiology, cancerology, developmental biology ; MDs and physicists.

Max. 9 participants

Language

English or French depending on participants preference.

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Mouse aortic arch (Doppler)



Contents

- **Lectures**
 - Introduction to ultrasound imaging : parameters, fine-tuning
 - Echocardiography
 - Hemodynamics
 - Advanced ultrasound imaging (contrast, ultrasound elastography, ...)
- **Hands-on**
 - Gestation/embryo development
 - Echocardiography
 - Abdominal anatomy and tumors
 - Hemodynamics
 - Data analysis
- **Demonstrations**
 - Embryo micro-guided injection
 - Contrast ultrasound

Method

- Lectures (7h – 25%)
- Practical work (21h – 75%)
- Teaching packages in small groups (max. 3p/group)

Duration

4 days (28 hours)

Dates

March 14 – 17, 2017

Venue

Plateforme d'échographie du petit animal
Hôpital Cochin - Bât. Hardy A, 1^{er} étage
27 rue du Faubourg Saint-Jacques
75014 Paris

Credit

Up to 2 ECTS could be given to the course participants by their home University

Registration deadline

February 13th, 2016

Registration fees

Student : 910€
Academic : 1840€
Industrial : 3060€

Ref code : 14A

Scientific advisor / course leader

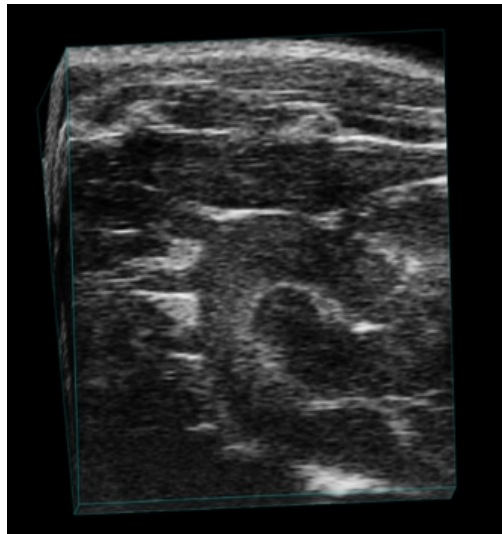
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Training manager

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Registration

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Mouse aortic arch (3D)



More training courses and workshops with France Life Imaging

- Colloque « Les ultrasons en France : innovations pour l'imagerie médicale et la thérapie en 2016 »
Paris, November 15th, 2016
<https://my.medicen.org/manifestations/27956/>
- Journées scientifiques du Work Package « Imagerie interventionnelle » de France Life Imaging
Lyon, December 15-16, 2016
- Formation « Imagerie optique *in vivo* : quelles techniques pour quelles applications ? »
Grenoble, March 22-24, 2017

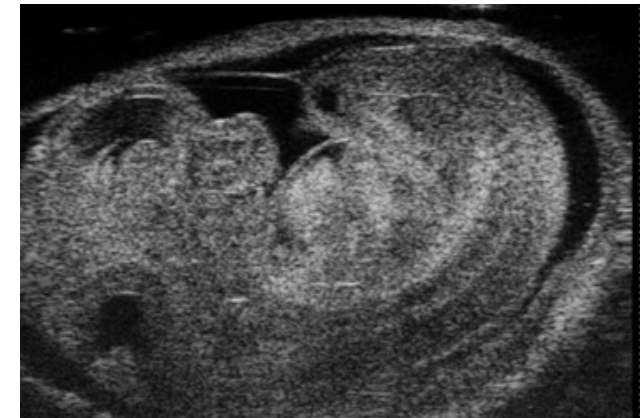
More information on our website
<http://www.francelifeimaging.fr>

Contact the FLI Education Work Package
vivienne.fardeau@cea.fr
lauranne.duquenne@inserm.fr



High-resolution small animal ultrasound imaging

Practical training to become an
independent user



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12 days mouse embryo

March 14-17, 2017
Paris, France

