Institut national des sciences
et techniques nucléaires

High-resolution small animal ultrasound imaging

Practical training for autonomous users

PIPA, Institut Cochin
12 days mouse embryo

September 15-18th, 2014
Institut Cochin, Paris - France

DE LA RECHERCHE À L'INDUSTRIE

www-instn.cea.fr

Objectives

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

Public

Biologists, from technician to researcher, in particular in the fields of cardiology, cancerology, development, Mds.

Max. 9 participants.

Content

Lectures :

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

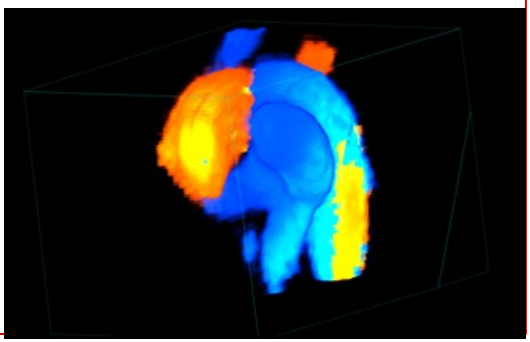
Hands-on :

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

Demonstration : embryo micro-guided injection

Methods

Lectures
Practical work
Teaching packages in small groups



PIPA, Institut Cochin
Mouse aortic arch (Doppler)

Scientific advisor / Course leader

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Registration

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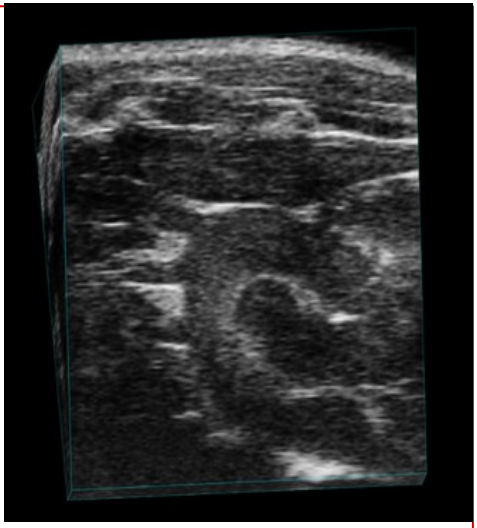

PIPA, Institut Cochin
Mouse aortic arch (3D)

Venue
Institut Cochin
22 rue Méchain
75014 Paris

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

Duration
4 days (28h)

Registration deadline
August 17th, 2014

Dates
September 15-18th, 2014

Registration fees
Academic 1650€
Industrial 2700€

Ref. code : 14A

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