

# 2<sup>nd</sup> SPECTRAL CT WORKSHOP

NOVEMBRE 17, 2017

LYON, FRANCE

Institut des Sciences Cognitives - 67 boulevard Pinel – 69500 Bron



Université Claude Bernard



## Scientific Committee:

Philippe Douek, Loïc Bousset, Philippe Coulon, Klaus Erhard, Silvio Aime

## Informations & registration :

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<http://www.spcct.eu/the-project/2nd-spectral-ct-workshop.html>

Dear Colleagues!

We are pleased to invite you to the **2<sup>nd</sup> Spectral CT Workshop** in Lyon  
November 17, 2017.

The workshop is designed to engage physicians and healthcare professionals in a comprehensive exploration of the most current developments in the field of spectral CT, including dual energy CT and photon counting CT principles, methodologies, and clinical practice.

This international meeting will offer an update on new development in detector technology, CT Image Reconstruction, Spectral CT Contrast media development and preclinical and clinical perspectives on this newest CT technology.

Looking forward to welcoming you in Lyon

On behalf of the scientific committee,

Best regards

Philippe Douek

Loïc Bousset

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**09:00** Introduction – Fabrice Vallée, Claude Bernard University Lyon

## **SPECTRAL PHOTON COUNTING CT DEVELOPMENT**

Chairman: Françoise Peyrin

**09:10** Detection based dual-energy CT – technology and applications - Yoad Yagil, Philips Haifa

**09:30** Finger printing - Peter Noel, TU Munich

**09:50** Spectral photon counting CT - Klaus Erhard, Philips Research Hamburg

**10:15** Image and tomography reconstruction - Cyril Mory, Claude Bernard University Lyon

*10:45 coffee break*

## **NEW CONTRAST AGENT FOR SPECTRAL PHOTON COUNTING CT**

Chairman: Silvio Aime

**11:00** Gold nanoparticule CT contrast agent newly developments – David Cormode, University of Pennsylvania

**11:20** Gd F nanoparticules CT contrast agent newly developments – Frédéric Lerouge, ENS Lyon

**11:40** Iodinated nanoparticles for Spectral CT – Yves Chevalier, Claude Bernard University Lyon

**12:00** Specific contrast agent and new approaches for SPCCT – Giuseppe Digilio, University of Torino

**12:20** Newly development of contrast agent for CT: a new opportunity for contrast media company? - Luisa Poggi, Bracco

*12:40 lunch*

## PRECLINICAL AND CLINICAL APPLICATIONS OF SPECTRAL CT

Chairman: Gilbert Ferretti

- 14:00** Spectral dual energy CT: cardiovascular applications – Robert Van Hamersvelt, Utrecht University
- 14:30** Spectral dual energy CT: oncology and hepatic applications – Daniela Münzel, Technische Universität München
- 15:00** Spectral dual energy CT: neuro applications – Yves Berthezène, Claude Bernard University Lyon
- 15:30** State of the art of detector development for X rays – Rafael Ballabriga
- 16:00** Role and contribution of health technology assessment (HTA) in positioning imaging innovation - J.L. Hans Severens – A.M.M. Peultier
- 16:20** Spectral photon counting CT preclinical and clinical applications: the Lyon's experience – Philippe Douek, Claude Bernard University Lyon

**16:40 – 17:00**

### **ROUND TABLE: Impact of imaging technology for patient management**

- 17:00** CONCLUSIONS – Loïc Bussel, Philippe Douek, FLI, Claude Bernard University Lyon