16th *in vivo* NMR course

October 21–25, 2019
Radiology and Nuclear Medicine, Radboudumc, Nijmegen, the Netherlands

**Scope of the course**

The aim of this course is to introduce PhD students, post-docs, and other scientists in the principles of modern in vivo NMR imaging (MRI) and spectroscopy (MRS) as applied to living systems in biomedical and biological research. The course will consist of lectures by experts in the field, as well as theoretical and practical exercises and demonstrations.

**Program**

Day 1 - 2: **Basic MRI and MRS**

Fundamentals of NMR, contrast mechanisms, pulse sequences, k-space, exercises, and practicals

Day 3 - 5: **Applications and advanced topics**

Diffusion, perfusion, ultra-high field, MR spectroscopy, hardware and RF coils, fMRI, vascular MRI, cardiac MRI, interventional MRI, multi-parametric MRI in clinical practice, NMR studies of plants

**Registration**

Registration costs are €350 for PhD students and post-docs, and €700 for medical physicists and other participants. Fees cover attendance to the lectures and practicals, as well as lunch and coffee/tea. Total number of participants is limited to 24.

**Register:**

**Contact**

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**Location**

PRIME lecture room
Radboudumc, Route
Nijmegen, The Netherlands