Neuroimaging module I: Modern neuroimaging methods of investigation of the human brain in health and disease

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2 ECTS

SUMMARY & TOPICS

The course will include a description of the acquisition and analysis tools to study brain structure, function and connectivity. Upon successful completion of the course, students will have developed a broad knowledge of how modern neuroimaging techniques and their application improve our understanding of brain functions and disorders.
Please note that the bi-weekly module "I" is intertwined with module "C" (Clinical neuroscience). Both course modules can be taken together, but also separately.

SCHEDULE & VENUE

When? - we start @9h in the morning, in case you envisage delays or absences, pls let us know.
Where? – the course takes place @CHUV, but not in the main building. We are at Mont Paisible 16, which is the building with blue balconies next to CHUVs underground parking. You go up to the 5th floor and the room is on your right-hand side at the end of the corridor.
What? – We will be teaching you imaging neuroscience with a bit of hands-on. You do not have to wear a white coat, there will be no animal experiments. Basic notion of programming/Matlab is a big plus.

Date	9h00 – 13h00
5 October 2022	MR physics I
26 October 2022	MR physics II
9 November 2022	Computational anatomy I
23 November 2022	Computational anatomy II
7 December 2022	Statistical design and inference
21 December 2022	Multivariate statistics

EVALUATION

Journal club presentation and essay

REGISTRATION

The number of participants in each module is limited to 10. Please write a mail to lndscourses@gmail.com before October 3 (with module name as subject and your supervisor in copy), inscriptions will be treated on first come-first served basis.