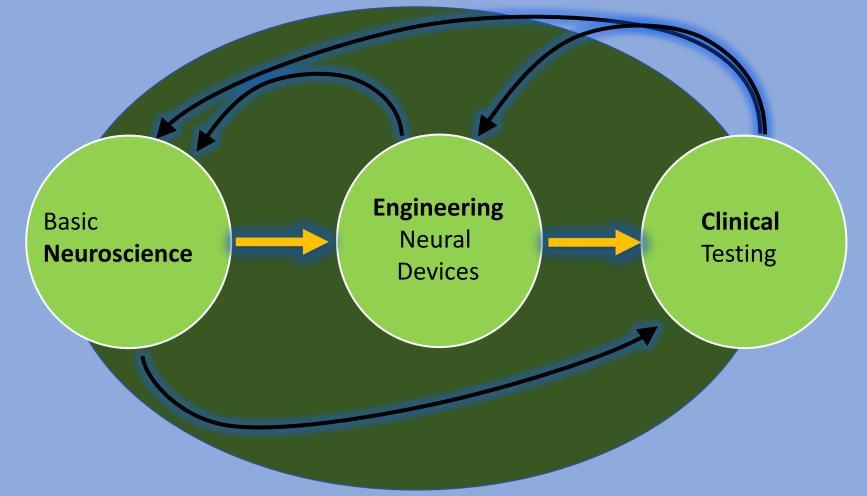
Neuroengineering

Organizers: Sanjay Joshi, UC Davis, and Benoit Larrat, Neurospin 2017 EU-US National Frontiers of Engineering Symposium, USA National Academy of Engineering

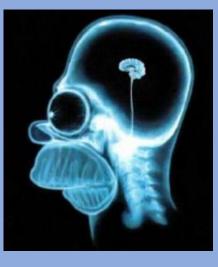




Neuroengineering for neuroscience and therapy

Recording brain activity

MRI Optics EEG MEG Electrodes Ultrasound Understand healthy and pathologic brain Brain therapy Brain computer Interface Augmented human



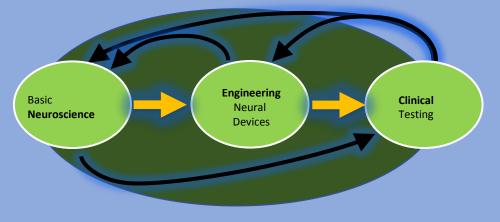
Neuromodulation

Transcranial direct current stimulation Transcranial magnetic stimulation Invasive electrodes Optogenetics Ultrasound

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Session Outline

How We Image, Measure, and Understand the Brain Alexandre Gramfort, Inria, University Paris-Saclay



Interface Between Modern Microelectronics and the Human Brain Adam Williamson, Aix-Marseille University

Clinical Neuromodulation Technology Cameron McIntyre, Case Western Reserve University

Platform Research Tools and Deployment Strategies to Accelerate Translational Discovery Tim Denison, Medtronic