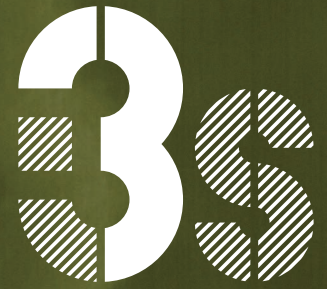


3<sup>RD</sup> WORKSHOP ON

# Neuroengineering: Decoding Neural Information



08-09 APRIL 2019

i3S - INSTITUTO DE INVESTIGAÇÃO E INOVAÇÃO EM SAÚDE

## THE ORGANIZERS:

Paulo de Castro Aguiar, i3S / INEB | Miguel Vieira, UCP

Programme covering different topics in neuroengineering and hands-on practical sessions on basic lab techniques.

## SPEAKERS

**Janos Vörös**

ETH Zürich, CH

**Frédéric Saudou**

Grenoble Institut  
Neurosciences, FR

**Miguel Remondes**

IMM, PT

*among others*

## HANDS-ON PRACTICAL SESSIONS

S1 – Basics of Neuronal Cell Cultures

S2 – Memristors as artificial synapses:  
neuromorphic applications

S3 – Principles of patch-clamp electrophysiology

S4 – *in silico* neuroscience and detailed  
simulations of neurons

S5 – Principles of multielectrode arrays (MEAs)  
electrophysiology

S6 – Imaging neuronal activity with Calcium dyes

S7 – Introduction to basic concepts of neuronal  
morphometric analysis in imageJ

## REGISTRATION DEADLINE

Early bird: until March 11<sup>th</sup> 2019 | Regular: March 12<sup>th</sup> until March 25<sup>th</sup> 2019

A JOINT INITIATIVE BETWEEN i3S & THE DISCOVERIES CTR



NORTHERN DISCOVERIES: THE DISCOVERIES CTR - SETTING SAILS (85420)

REGISTRATION & MORE INFO AT:

**[www.i3S.up.pt](http://www.i3S.up.pt)**

ADVANCED TRAINING UNIT: TRAINING@I3S.UP.PT

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