

Workshop on *Advanced Electrode Technology*

June 28th, 2013 - Lisbon, Portugal

Hosted by the NeuroSeeker consortium and [Champalimaud Neuroscience Programme](#)

Workshop Synopsis:

A number of international efforts are underway to design and build new tools, based on advanced techniques of materials science, integrated circuitry and micro/nanofabrication, for recording electrical signals from neurons. These projects aim to dramatically improve the density, stability and/or specificity of *in vivo* neural recordings and they have the potential to revolutionize our understanding of functioning neural circuits. However, achieving the full potential for scientific progress will require coordination between these currently independent efforts.

Therefore, we of *NeuroSeeker*, a large-integrating EU project to build advanced CMOS electrodes, will host a 1-day workshop that brings together representatives of different projects developing 'advanced electrode technology'. The goal of the workshop will be to identify possible synergies, future collaborations, and to generally discuss how best to coordinate our mutual goals (e.g. standardizing test protocols, comparing validation data, developing common software resources, etc.).

The workshop will begin with short presentations from each participating project, summarizing the status and goals of their effort, followed by *informal* workshop sessions that will provide ample time to brainstorm how best to collectively revolutionize both the technology used to record from neurons and the tools required to interpret and analyze the resulting data. These workshop sessions will segue into even *more informal* cocktails and dinner. The relaxed and informal nature of this workshop will be reinforced by the beautiful setting, the recently inaugurated Champalimaud Centre for the Unknown in Lisbon, Portugal. The workshop is scheduled for a Friday in late June, thus providing the opportunity to enjoy a wonderful summer weekend in Lisbon (and the surrounding beaches).

Logistics:

Location:

The [Champalimaud Centre for the Unknown](http://www.neuro.fchampalimaud.org/) is home of the *Champalimaud Neuroscience Programme* (<http://www.neuro.fchampalimaud.org/>). The Centre is located just outside downtown Lisbon, directly where the Tejo (Tagus) River meets the Atlantic Ocean, and immediately adjacent to the historic [Belém Tower](#).

Accommodation:

The Champalimaud Centre is easily accessible via public transport or an inexpensive Taxi ride (5-7 €, 10-15 minutes) from anywhere in downtown Lisbon, and thus many of our guests prefer to stay in the more “lively” city center. However, if you prefer a quiet locale and a pleasant 10-minute walk to the meeting location, then you may prefer to stay in a hotel in Belém.

Hotel Recommendations (downtown Lisbon):

Gatrossio (<http://www.gatroomspt.com/pt/hotel-gat-rossio/h4/>)

Lisboa Carmo Hotel (<http://www.lisboacarmohotel.com/pt>)

York House (<http://www.yorkhouselisboa.com/>)

Inspira santa Marta (<http://www.inspirahotels.com/en/hotel-overview.html>)

(cheaper options)

Shiadohostel (<http://www.shiadohostel.com/>)

Hostel4U (<http://www.hostel4ulisbon.com/>)

Hotel Recommendations (Belém):

Jerónimos 8 (<http://www.jeronimos8.com/>)

Altis Bélem (<http://www.altishotels.com/EN/HotelAltisBelem/>)

- Rather pricey, but it is directly next to the Champalimaud Centre.

Contact:

Please contact Adam Kampff (adam.kampff@neuro.fchampalimaud.org, +351-911598740) if you have any questions, comments, suggestions, etc.