Masterclass Neuromodulation and Personalized Medicine
QEEG, ERP, rTMS, Neurofeedback

Speakers: Martijn Arns, Berrie Gerrits, Rik van Dinteren & Vera Kruiver
Friday January 30th - Saturday January 31st, 2015
Nijmegen, The Netherlands

We proudly announce a new Masterclass Neuromodulation and Personalized Medicine in our Brainclinics workshop series with Martijn Arns, Berrie Gerrits, Rik van Dinteren and Vera Kruiver. This 2-day masterclass is intended for researchers and clinicians interested in an update on the most recent developments in neuromodulation techniques such as rTMS, tDCS and Neurofeedback, specifically in ADHD, Depression and OCD. Furthermore, during this masterclass the most recent developments and overviews of Event Related Potentials (ERPs), especially the P300 will be presented by Rik van Dinteren, the relation between Default Mode Networks (DMN) and EEG variables by Berrie Gerrits and new clinical insights by Vera Kruiver.

During this year’s workshop there will be a special focus on covering the most recent results and insights from the milestone personalized medicine studies such as iSPOT and EMBARC. The first results from iSPOT in 1008 Depressed patients and 336 ADHD patients using various imaging techniques (fMRI, EEG, ERPs) are being analyzed and published throughout 2014, with replication studies following. The EMBARC study is a similar initiative in depression focused on identifying imaging predictors of treatment outcome expected to have first results by the end of 2014.

Please register soon since there is a maximum number of attendees!

The price for the workshop is € 900,- (€ 750,- euro for PhD students) for 2 days including lunch and a masterclass binder with relevant literature, and the workshop will be held at Brainclinics (Bijleveldsingel 34, Nijmegen, The Netherlands). Download here the program or see below.
Day 1: Friday January 30th

9.30 Welcome and introduction (Martijn Arns)
9.45 Recent insights into rTMS for Depression: From structure to network function and connectivity (Martijn Arns)
11.00 Coffee break
11.15 Recent insights into rTMS and tDCS for OCD and other disorders (Martijn Arns)
12.30 Lunch
13.30 An update to Neurofeedback in ADHD and Insomnia (Martijn Arns)
15.00 Clinical considerations: Neurofeedback and rTMS (Vera Kruiver)
16.00 Coffee break
16.15 Using the EEG for Default Mode Network (DMN) imaging: a validation study (Berrie Gerrits)
16.45 Using EEG-feedback for improving DMN flexibility: effects on Working Memory (Berrie Gerrits)
17.30 Discussion, Evaluation and closing of the day

Day 2: Saturday January 31st

9.30 Review of previous day and questions (Martijn Arns)
10.00 Event-Related Potentials (ERP), ageing and neuropsychological aspects (Rik van Dinteren)
11.00 Coffee break
11.15 Personalizing Neuromodulation treatments: rTMS and Neurofeedback. (Martijn Arns)
12.00 Genetics, EEG, ERPs and Biomarkers (Martijn Arns)
12.30 Lunch
13.30 Can we predict treatment outcome in ADHD and Depression? Update from the iSPOT and EMBARC studies (Martijn Arns)
15.00 Coffee break
15.15 How to quantify biomarkers? An eLORETA hands-on practice on ROI and connectivity analysis. (Martijn Arns)
17.30 Discussion, Evaluation and Closing

Recommended reading material (download from our community):