Berne, 3rd February 2006

BrainVoyager fMRI Course 2006

Dear scientist

We are welcome you to the BrainVoyager fMRI Course. As you applied for the course, you will find hereafter all the details. We are looking forward to see you.

Kind regards

A. Federspiel
BrainVoyager fMRI Course 2006

Organizers
Dr. A. Federpsiel
Prof. Dr. med. T. Dierks and Ch. Lehmann
UPD Waldau, Department of Neurophysiology

Location
UPD Waldau
Department of Neurophysiology
Zentralbau, Room Nr BU22,
(Map of the location is attached)

Schedule
1 – 22 March 2006
Up to four sessions lasting min 2 hours each

Contact
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Phone:
031 9309371

Course Language
English

BrainVoyager
QX Version 1.6.6
PC’s are available in the room for the practical part

Programm:
Each session is divided into a theoretical- and a practical part.
For the practical part, we will follow the
“Getting Started Guide, version 2.0”
And the “Online BrainVoyager QX User’s Guide (WebHelp)”

Course Level
Beginners to advanced users in the field of fMRI

Aim of the Course
At the end of the course, participants should be able to:
• understand the basic functions behind the Buttons/Switches and complexities of the program
• conduct own fMRI analysis
• understand the terminology used in common fMRI publications and articles
Wednesday, March, 1 9:00 – 11:00 (Preprocessing)

- Mean intensity adjustment
- Slice time correction
- Motion correction
- Spatial smoothing
- Temporal filter
- Convolution/Deconvolution
- Coregistration

Wednesday, March, 8 9:00 – 11:00 (Statistic)

- GLM
- Factorial design
- Predictors
- Statistical thresholding
- False discovery rate
- ROI/VOI analysis
- Random Effects Analysis
- ANCOVA Models
- Independent component analysis
- Bayesian analysis

Thursday, March, 16 9:00 – 11:00 (Data-Normalization)

- Talairach space
- Cortex based inter-subject alignment
- Segmentation
- Morphing
- Granger Causality
- Latency mapping

Wednesday, March, 22 9:00 – 11:00 (Open Points)

- Practical Course of dedicated points
- Practical Course of open points