π.pmod Biomedical
Image Quantification

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PMOD Basic Application Course

Monday-Tuesday, March 11-12, 2019, Zurich, Switzerland
www.pmod.com / Training

Overview

The aim of PMOD's bi-annual Basic Application Course, held each year in March and September in Zurich, is to teach the participants the effective use of the major PMOD tools. Short presentations will outline the working principles of the PMOD tools. The core of the course will be a series of guided exercises on the computer, using a case-study approach where possible. The exercises will use both human and preclinical data.

The participants are required to bring their own notebooks. Each participant will be given a USB flash key containing the latest PMOD version as well as training data sets. PMOD can be started directly from the key, such that the configuration of the notebook will remain untouched. As a courtesy, the key can be taken home and will work for another two months. This will give the participants the opportunity to complete their studies if needed, and to further try the PMOD tools on their own data

Educational Objectives

− Master the wealth of image presentations and layouts offered by PMOD
− Learn how to create Volumes-of-Interest (VOIs) using manual and various automatic methods
− Experience specialized VOI approaches for segmenting the brain and oncologic lesions
− Explore the available image matching methods and the fusion of images
− Understand the basics of quantification and kinetic modeling

Target Audience and Course Trainers

The course is aimed at participants new to PMOD or having basic to intermediate PMOD skill level. Besides the opportunity to interact with PMOD experts, the participants will also be able to evaluate tools that are not available in their acquired installations. As a preparation to the course, participants are encouraged to request a free, 2-month trial license via the PMOD website and to download the PMOD Basic Workbook, and to practice with the example data provided.

The course will be taught by senior PMOD staff and seasoned PMOD users.

Contents

Presentations

The presentations are limited to allocate maximal time for hands-on work. They include a short introduction of PET quantification by kinetic models as well as conceptual overviews of the different PMOD tools.

Guided Exercises

In the guided exercises, the trainers will demonstrate how work is done with the most widely used PMOD tools, while the participants reproduce the workflows in parallel on their own notebooks:

− Basic PMOD techniques for image viewing and VOI definition (PBAS)
− Objective segmentation of oncologic PET data (PSEG)
− Automatic brain VOI generation using built-in atlases (PNEURO)
− Time-activity curves calculation from dynamic PET images (PBAS)
− Kinetic modeling with regional time-activity curves (PKIN)
− Pixel-wise kinetic modeling directly with image data (PXMOD)
− Multimodal image matching and fusion (PFUS)

Note that we reserve the right for minor changes of the course content without notification.

Due to time limitations, the other available PMOD tools (PCARD, PGEM, P3D, PALZ) will not be directly covered. However, short demonstrations can be given on request, and related questions may be discussed on an individual basis.

Work on the Computer, PMOD Basic Workbook, and Documentation

A participant's notebook should comprise at least 8GB RAM, and a 64-bit operating system is needed. The notebook display should have a resolution of at least 800 pixels in height to support adequate program layouts.

The participants will conduct the guided exercises on their notebooks, using the supplied USB flash key. At the outset of the course, the participants will be handed out the PMOD Basic Workbook, a concise 36-page step-by-step tutorial of all major PMOD tools as well as of database management. The exercises will consist of a set of processing tasks whose solutions are detailed in the workbook. Note that the workbook is also available for download from the PMOD website.

The course presentations, the PMOD Workbook, and the PMOD documentation will all be available on the supplied USB flash key.

Organization

Course Schedule

Monday, March 11	09:00 - 17:00
Tuesday, March 12	09:00 - 17:00

Course Dinner

On the eve of the first course day, PMOD will offer to all participants a complimentary dinner. The dinner will allow for continuing discussions and for networking among peers in an informal and relaxed setting.

Course Registration and Rates

Registration can be done online, and will be handled on a first-come, first-served basis for a maximal number of 20 participants. The course fee amounts to:

− Regular: EUR 890.- *(Early-Bird, until February 10, 2019)*, EUR 990.- (Standard, afterwards)
− Student: EUR 712.- *(Early-Bird, until February 10, 2019)*, EUR 792.- (Standard, afterwards)

The fee covers the training lessons and documentation, the USB flash key, all refreshments during the breaks, two lunches as well as the course dinner on the eve of the first training day. After registration, the participants will receive by e-mail a confirmation message with access information and payment directions. Note that the course fee must be paid **within 10 days** after registration (online payment). Thereafter, we reserve the right to offer the place to persons waiting for a vacancy.

The student fee (20% off the regular fee) is applicable to participants from academia who are currently enrolled in a doctoral or other graduate degree program. As a student participant, please perform the standard registration procedure without payment. Then, send your application for the student fee to info@pmod.com. Once accepted, you are invited to proceed with the online payment.

Note that new PMOD license holders are granted a 50% discount on the regular rates.

Course Location

The course will be held at Hotel Krone Unterstrass (Schaffhauserstrasse 1, 8006 Zurich, www.hotel-krone.ch). The hotel is conveniently located in downtown Zurich, just a 15-minute walk off the main station and reachable from there by tram #11 or #14.

Accommodation

Accommodation is not included in the course fee and must be booked individually. A list of selected hotels near the course location is available on the PMOD website. Special PMOD rates are being offered by the course hotel.

Cancellation Policy

The course will be cancelled, if one month prior to the course not enough enrolments have been done. In that case, the registered participants will be notified and will receive a full refund. If a registered participant has to cancel attendance, he or she will get a refund (fee minus bank expenses) provided that the seat can be filled by another person.

PMOD Advanced Application Course

This 2-day course is designed as an extension of the PMOD Basic Application Course. It takes place right after the basic course in the same training environment. Further information can be found on the flyer of the advanced course (available on the PMOD website).

Registration for the PMOD Advanced Application Course is being handled separately from registration for the basic course, yet participants taking the two courses during the same course week will benefit from a volume discount (see price list published on the flyer "PMOD Courses in March 2019", available on the PMOD website).