Molecular Medicine
Postgraduate School

Microscopic Image Analysis:
From Theory to Practice
Thursday 21 & Friday 22 March 2019

Introduction

Microscopic images contain a wealth of information. Extracting this information by visual inspection and manual measurement is not only cumbersome but also subjective. Automation of image analysis tasks by using a computer and the right software tools allows for higher efficiency, accuracy, objectivity, reproducibility, and completeness. During this course, the participant will 1) obtain a deeper theoretical understanding of image analysis methods, and 2) obtain practical experience with image analysis software (ImageJ) and learn how to use image analysis more intelligently, on their own computer.

Program

This is a two-day course with theory and practical exercises interleaved throughout.
The tentative program is as follows:

Day 1 Thursday 21 March – OWR-15	
08:30 - 09:00	Entrance
09:00 - 10:30	**Introduction**
10:30 - 11:00	Coffee break
11:00 - 12:00	**Segmentation**
12:00 - 13:00	Lunch (OWR-15)
13:00 - 15:00	**Colocalization**
15:00 - 15:30	Coffee break
15:30 - 17:00	**Visualization**

Day 2 Friday 22 March – Ae 4.06	
08:30 - 09:00	Entrance
09:00 - 10:30	**Registration**
10:30 - 11:00	Coffee break
11:00 - 12:30	**3D**
12:30 - 13:30	Lunch (Ae 4.06)
13:30 - 15:00	**Macros**
15:00 - 15:30	Coffee break
15:30 - 17:00	**Macros**

Audience

The course is intended for PhD students and Postdocs who would like to deepen their understanding of image analysis methods and learn how to use them.

Requirements

Participants should bring their own laptop computer to the course for the practical exercises. Software and sample image data will be provided during the course (USB stick). No prior knowledge of image processing is required.

Date and Location

The course will be held on 21-22 March 2019 at Erasmus MC, rooms: OWR 15 located in the Eg (OWR) building, and Ae 4.06 in the Ae building.
https://www.molmed.nl/maps/maps.asp

Registration

Participants should register on the MolMed website and will be placed on a first-come, first-serve basis. Priority will be given to participants from MolMed or MGC who are from Erasmus MC. The maximum number of participants is 30.

Teachers

Gert van Cappellen (Optical Imaging Centre)
Gert-Jan Kremers (Optical Imaging Centre)
Johan Slotman (Optical Imaging Centre)
Martijn de Gruiter (Optical Imaging Centre)

Attendance fees

The subscription fee of non-commercial participants for this course is **€ 400.**
Discounts are handled as follows:

- All PhD students get a discount of **50%** and pay **€200**.
- All participants from the postgraduate school MolMed receive a discount of **100%** and pay **€0**.
- All Participants from the postgraduate school MGC at the Erasmus MC receive a discount of 100% and pay €0. MGC will pay for your participation
- Other Erasmus MC participants, like NIHES members, and master students from elsewhere get a discount of **50%** and pay **€200**.
- Master students from elsewhere who pay the fee from their personal budget get a discount of **75%** and pay **€100**.

If these financial requirements pose a problem but you wish to attend the course, please contact Frank van Vliet, managing director of the Erasmus Postgraduate School Mol Med, at: f.vanvliet@erasmusmc.nl.

Invoices

Fees can be paid upon an INVOICE. Shortly after your registration you will receive the INVOICE per post.
Late participants can also pay in cash upon signing in for the course.

Cancellations

The fees are for all the days of the course. There is no discount for partaking only in part of the course. Our cancellation policy is that **cancellation is possible up to one week before the start** of the course. Later cancellation will not be accepted, but you are allowed to send a substitute.

Commercial participants & sponsors

Companies are invited to inquire for participation and sponsoring.