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Cursus	Sem.	Туре	Language of	English
Molecular Life Sciences		Opt.	teaching	Linglish
			Credits	2
			Session	
			Exam	Written & Oral
			Workload	60h
			Hours	42
			Courses	14
			Exercises	28
			Number of positions	16

#### Frequency

Every year

## Remark

This course is open to max. 16 students. To register, contact EDMS program administrator.

## Summary

Registration details will be announced via email. It takes place from September to December & intends to teach image processing with a strong emphasis of applications in life sciences. The idea is to enable the participants to solve image processing questions via workflows independently.

## Content

Over the last decades, the images arising from microscopes in Life Sciences went from being a qualitative support of scientific evidence to a quantitative resource.

To obtain good quality data from digital images, be it from a photograph of a Western blot, a TEM slice or a multi-channel confocal time-lapse stack, scientists must understand the underlying processes leading to the extracted information. Of similar importance is the software used to obtain the data.

## Note

Please do not register by yourself to this course, this will be done by the EDMS program administrator once you'll be selected by the course organizer (upon motivation letter)!

## Keywords

Biology, Image Processing, Microscopy, ImageJ, FIJI, Macros, Data, Segmentation, Filtering Visualisation Open so

#### **Assessment methods**

Continuous Multiple

# Resources

Websites

http://phd.epfl.ch/edms/coursebook

EPFL