

Cursus	Sem.	Туре	l anguage of	English
Molecular Life Sciences		Opt.	teaching	Ligion
			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.

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

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