



LEAFLET



Course title	<b>Microscopical research techniques in biomedical applications</b>
Learning objectives	<p>1) Gaining insight and experience into the principles of fluorescence microscopy, confocal microscopy (scanning and dual spinning disk), scanning electron microscopy (SEM) and transmission electron microscopy (TEM),</p> <p>2) Gaining insights into the applications in biomedical research,</p> <p>3) Getting acquainted with different kinds of preparation techniques.</p>
Public	Early stage and experienced researchers from public or private institutions interested in microscopy and its applications in biomedical science.
Prerequisites	Basic knowledge on the structure of cells, tissues and organs is recommended.
Lectures content and practical work	<p>Different aspects of modern microscopical techniques will be highlighted and practically dealt with:</p> <ul style="list-style-type: none"> <li>- training on preparation of cryostat sections, ultrathin sections for TEM, SEM-preparations, whole mount preparations, ...</li> <li>- training on immunohistochemistry and enzyme histochemistry to visualise neuronal structures with conventional light microscopy, fluorescence microscopy, confocal microscopy and transmission electron microscopy,</li> <li>- principles and hands on fluorescence microscopy, confocal microscopy, SEM and TEM,</li> <li>- principles and hands on confocal life cell imaging (UltraVIEW dual spinning disk confocal microscope) including protein trafficking and Ca<sup>2+</sup>-imaging.</li> </ul>
Training methods	80% integrated practical and 20% theoretical course
Coordination/registration	<p>Elena CECCARELLI - Corinne CARREAUX</p> <p>Phone: +33 1 69 08 25 02 - e-mail: <a href="mailto:emil-dimi.training@cea.fr">emil-dimi.training@cea.fr</a></p> <p><b>Scientific advisors:</b> Jean-Pierre TIMMERMANS</p>
Course language	English
Duration	5 days
Course location	University of Antwerp (UA) - Antwerp - BELGIUM
Dates	March 8-12, 2010



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Registration fees	DiMI/EMIL/MOLIM member : 100€ Public institutions: 500€ - Private institutions: 800€
Registration deadline	February 8 <sup>th</sup> , 2010
Number of participants	8 participants maximum
Course leader	Mrs Inge BROUNS - Phone: +32 3 26 53 300 e-mail: <a href="mailto:inge.brouns@ua.ac.be">inge.brouns@ua.ac.be</a>
Keywords	fluorescence microscopy, confocal microscopy, life cell imaging, TEM, SEM