

# Relevant Training Courses

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<b>Course</b>	<b>Cell Culture Techniques – Introductory Course</b>
<b>Organisation</b>	University of Hertfordshire
<b>Description</b>	<p>This will be an introductory course aimed at those new to cell culture but may also be useful to researchers wishing to refresh their knowledge and expertise in cell culture techniques. The course will run over three days during which participants will receive lectures on cell culture techniques, principles and applications. In addition, time will be made available for laboratory-based work where experience will be gained in aseptic techniques, cell isolation, propagation and maintenance in culture.</p> <p>This course will run on 23<sup>rd</sup> – 25<sup>th</sup> March 2010, and 7<sup>th</sup> – 9<sup>th</sup> September 2010.. For more information contact Mrs Vera Jones (Email: <a href="mailto:v.g.jones@herts.ac.uk">v.g.jones@herts.ac.uk</a>, Telephone: 01707 284590)</p>
<b>Website</b>	<a href="http://www.herts.ac.uk/courses/Cell-Culture-Techniques.cfm">http://www.herts.ac.uk/courses/Cell-Culture-Techniques.cfm</a>
<b>Course</b>	<b>Cell Culture Techniques – Advanced Course</b>
<b>Organisation</b>	University of Hertfordshire
<b>Description</b>	<p>This will be an advanced course in Cell Culture Techniques, and is aimed at those who have already attended the Introductory Course, as well as individuals who have worked in cell culture for a time and would like to broaden their understanding of the subject. The course will run over three days during which participants will receive lectures on a variety of topics pertinent to cell culture, including:</p> <ul style="list-style-type: none"> <li>• Laboratory design issues</li> <li>• Risk management</li> <li>• A deeper understanding of some of the equipment and other hardware used (including safety cabinets and autoclaves)</li> <li>• Microscope use and maintenance (practical session)</li> <li>• A deeper examination of microbial and cellular contamination issues</li> <li>• Single-cell cloning techniques, the assumptions on which they are based, and their uses and abuses</li> <li>• Cytotoxicity assays</li> <li>• Serum- and protein-free media</li> <li>• Culture scale-up</li> <li>• The legal and regulatory issues surrounding cell culture, including GCCP, GLP, the GMO regulations, the Human Tissue Act, and regulatory issues surrounding cell-derived therapeutics</li> <li>• A variety of other topics</li> </ul> <p>Periods of laboratory-based work will be interspersed with the lectures.</p> <p>This course will run on 9<sup>th</sup> – 11<sup>th</sup> November 2010. For more information contact Mrs Vera Jones (Email: <a href="mailto:v.g.jones@herts.ac.uk">v.g.jones@herts.ac.uk</a>, Telephone: 01707 284590).</p>

<b>Course</b>	<b>Basic Cell Culture Techniques</b>
<b>Organisation</b>	XCellR8
<b>Description</b>	<p>Establishing good cell culture technique from day one is a critical component of a successful project. This 2-day course is designed to enable new staff and students to rapidly acquire the theoretical and practical skills they need to get started. After the course, XCellR8 continues to provide technical support to participants, providing a training package that meets the specific needs of each laboratory.</p> <p>Topics covered include:</p> <ul style="list-style-type: none"> <li>• The biology of cultured cells</li> <li>• The cell culture environment (media requirements, gas and humidity requirements, growth surfaces and matrices)</li> <li>• Sources of contamination (prevention, identification and treatment)</li> <li>• Basic health and safety considerations</li> <li>• Routine quality control and Good Cell Culture Practice (GCCP)</li> <li>• Creating a cell bank and maintaining a cryostore</li> <li>• Problem solving – common problems and frequently asked questions</li> <li>• Practical modules: <ul style="list-style-type: none"> <li>- Introduction to aseptic technique</li> <li>- Thawing cryopreserved cells and establishing a culture</li> <li>- Re-feeding and subculture</li> <li>- Cell counting, viability checks &amp; accurate calculation of seeding density</li> <li>- Cryopreservation</li> </ul> </li> </ul> <p>Comprehensive training notes are provided to all participants, along with free follow-up technical support. A Certificate of Attendance is issued to all participants completing the course. Discounts available for groups. Please see website for upcoming course dates.</p>
<b>Website</b>	<a href="http://www.x-cellr8.com/basiccellculturetechniques.aspx">http://www.x-cellr8.com/basiccellculturetechniques.aspx</a>

<b>Course</b>	<b>Primary Cell Culture</b>
<b>Organisation</b>	XCellR8
<b>Description</b>	<p>XCellR8 provide introductory courses and training materials in the biology and culture of specific <b>primary cell</b> types, and in <b>advanced techniques</b> including organotypic culture systems and 3-D matrices. The primary cell types covered include: Human Epidermal Keratinocytes, Human Dermal Fibroblasts, Human Epidermal Melanocytes, Human Dermal Microvascular Endothelial Cells, Human Umbilical Vein Endothelial Cells (HUVEC), Human Smooth Muscle Cells, Human Mammary Epithelial Cells, Human Osteoblasts, Human Chondrocytes. XCellR8 also provide training in morphological and functional <b>cell characterisation</b> methods.</p>
<b>Website</b>	<a href="http://www.x-cellr8.com/primarycellculture.aspx">http://www.x-cellr8.com/primarycellculture.aspx</a>

<b>Course</b>	<b>Introduction to Bioreactors</b>
<b>Organisation</b>	XCellR8
<b>Description</b>	<p>Our <b>short practical course in stirred tank fermentation and primary separation</b> is designed to enable scientists to rapidly acquire the skills they need to operate and harvest an autoclavable bioreactor. The course is 100% practical, with small groups working in the lab to enable extensive hands-on experience. The next course will take place on 11<sup>th</sup> – 12<sup>th</sup> May 2010 in Manchester.</p> <p>Importantly, after the course XCellR8 continues to provide technical support to participants, ensuring that we deliver training that meets the specific needs of your laboratory.</p> <p>For more information, <a href="#">click here</a>.</p>
<b>Website</b>	<a href="http://www.x-cellar8.com/bioreactortraining.aspx">http://www.x-cellar8.com/bioreactortraining.aspx</a>

<b>Course</b>	<b>From T-Flask to Bioreactor</b>
<b>Organisation</b>	XCellR8
<b>Description</b>	<p>This 2 day course is perfect for those who already run bioreactors and wish to improve reproducibility, efficiency and/or productivity. Topics covered include:</p> <p>Hands on practical sessions on setting up a reusable and disposable stirred tank reactor and a disposable rocking bioreactor; Setting up an overnight culture with online biomass monitoring; Process control and SCADA - analysing the overnight culture; Process optimisation and preparation for scale-up; Harvest the overnight culture using hollow fibre crossflow filtration.</p> <p>The next course is taking place on 21st - 22nd April 2010 in York. The cost is £1,250 (no VAT charged) or £1,100 for early registration and payment. There are 2 academic places available at £600 each.</p> <p>Places are very limited, so please book NOW to avoid disappointment.</p>
<b>Website</b>	<a href="http://www.x-cellar8.com/bioreactortraining.aspx">http://www.x-cellar8.com/bioreactortraining.aspx</a>

<b>Course</b>	<b>Masters (MSc) in Biotechnology &amp; Enterprise</b>
<b>Organisation</b>	The University of Manchester
<b>Description</b>	“The course aims to provide students with scientific research skills and the basic business knowledge required to convert scientific discoveries into inventions and commercial products. How these translate into a business plan for start up technologies or innovative processes within biotechnology industries will also be explored. The course is a research-based MSc programme. Using the considerable interdisciplinary research strengths and business initiatives that exist within the Faculty of Life Sciences and the Manchester Science Enterprise Centre, we are able to offer a challenging and innovative programme that combines expertise in entrepreneurial business development with cutting edge research. Graduates of the course will acquire a combination of essential research and business practical skills which will equip them for career opportunities in the global biotech market.”
<b>Website</b>	<a href="http://www.ls.manchester.ac.uk/postgraduate/ukoreu/taught/course/?code=07778">http://www.ls.manchester.ac.uk/postgraduate/ukoreu/taught/course/?code=07778</a>

<b>Course</b>	<b>Masters (MSc) in Stem Cell Technology</b>
<b>Organisation</b>	University of Nottingham
<b>Description</b>	“This MSc offers the necessary skills to enable the effective integration of stem cell science expertise with research, clinical and commercial applications. The course able to deliver an intensive and applied knowledge base to interdisciplinary stem cell research and the transferable skills required to communicate and apply this learning. The course will enable you to pursue a clear career path in either research or industry, with the necessary expertise to compete in an ever changing world.”
<b>Website</b>	<a href="http://pgstudy.nottingham.ac.uk/postgraduate-courses/stem-cell-technology-msc_598.aspx">http://pgstudy.nottingham.ac.uk/postgraduate-courses/stem-cell-technology-msc_598.aspx</a>

<b>Course</b>	<b>Modular Training for the Bioprocess Industries</b>
<b>Organisation</b>	University College London
<b>Description</b>	<p>“Short courses for industry, in fermentation, mammalian cell processes, biocatalysis, downstream processing, design of experiments, regenerative medicine, validation, management of products from research through to manufacture, and design of processes and facilities.”</p> <p><u>Current modules include:</u></p> <ul style="list-style-type: none"> <li>• Principles of Fermentation Processes</li> <li>• Rapid Fermentation Process Design</li> <li>• Challenges &amp; Opportunities in Biocatalysis</li> <li>• Mammalian Cell Processes</li> <li>• Downstream Processing: Primary Recovery</li> <li>• Downstream Processing: Chromatography</li> <li>• Stem Cell Regenerative Medicine Bioprocessing</li> <li>• Validation of Bioprocesses</li> <li>• Effective Biopharmaceutical Development &amp; Manufacture</li> <li>• Design of Experiments for Bioprocess Optimisation</li> <li>• Bioprocess Design &amp; Economic Evaluation</li> <li>• Bioprocess Facility Design</li> </ul>
<b>Website</b>	<a href="http://www.ucl.ac.uk/biochemeng/industry/mbi">http://www.ucl.ac.uk/biochemeng/industry/mbi</a>

<b>Course</b>	<b>Mycoplasma Detection and Eradication Workshop</b>
<b>Organisation</b>	European Collection of Cell Cultures (ECACC)
<b>Description</b>	“The workshop (1 day) is designed to introduce the basic principles of mycoplasma detection and the effects an outbreak can have on your work. Subjects also include prevention of contamination, good laboratory practice, various testing techniques, eradication methods and new techniques in testing.”
<b>Website</b>	<a href="http://www.hpacultures.org.uk/services/training/training.jsp">http://www.hpacultures.org.uk/services/training/training.jsp</a>

<b>Course</b>	<b>Short Courses in Molecular Biology</b>
<b>Organisation</b>	University of Hertfordshire
<b>Description</b>	<p>The University of Hertfordshire Science Training Centre offers a wide range of Bioscience courses. In 2008 they have short courses on:</p> <ul style="list-style-type: none"> <li>• Molecular Biology Techniques</li> <li>• Pharmacology</li> <li>• PCR</li> <li>• Bioinformatics</li> <li>• Proteins &amp; Proteomic Methods</li> <li>• Immunology</li> <li>• Cell Culture</li> <li>• Real time qPCR</li> </ul> <p>For more information contact Mrs Vera Jones (Email: <a href="mailto:v.g.jones@herts.ac.uk">v.g.jones@herts.ac.uk</a>, Telephone: 01707 284590)</p>
<b>Website</b>	<a href="http://www.herts.ac.uk/courses/schools_of_study/life_sciences/short_courses.cfm">http://www.herts.ac.uk/courses/schools_of_study/life_sciences/short_courses.cfm</a>