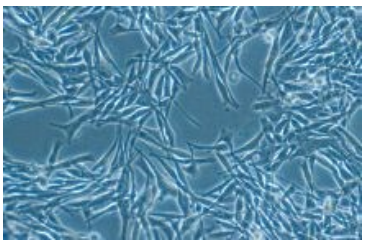
Public Health England

ECACC European Collection of Authenticated Cell Cultures
Operated by Public Health England

ECACC news - August 2016



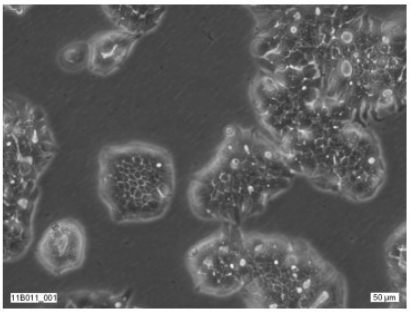
ECACC top tips : misidentified cell lines

Q: I have recently purchased two cell lines. The laboratory I will be using to work with these cells is shared with other researchers. How can I safeguard my research and be sure that my cell lines remain authentic and free from the risk of a possible cross contamination?

Scroll down for the answer...

Cell line profile - OE19

The human oesophageal adenocarcinoma cell line OE19 has weak expression of HLA-A, -B and -C antigens (MHC class I) and treatment with interferon-gamma induces the expression of ICAM-1 (CD54). Expression of HLA-DR (MHC class II) on interferon-gamma addition was only measured in a sub-population of OE19. The cells also express epithelial cytokeratins, are sensitive to the inhibitory effects of TGF-β1 on proliferation and are tumourigenic in nude mice



Find out more

'Fast-track' cell culture training

At the end of July ECACC, in partnership with Merck (formerly Sigma-Aldrich), held the 'Fast-Track' introduction to cell culture training course. This year the course was hosted by Durham University for the first time. The course was a mixture of lectures and hands-on practical activities and was well received by the attendees:

'Run by a friendly and knowledgeable team. Good course material and enjoyable practicals. As someone with no previous experience I felt comfortable asking questions'

'The course allowed me to compare my operating procedures with those of an international cell bank and therefore it helped me a lot in understanding my mistakes making possible an improvement in the practice of cell culture'

'The University was a good venue to hold the course. Two days was a good length for the course and the cost was very affordable'

Find out more

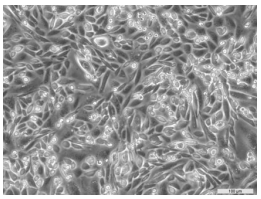
Fundamentals of cell culture training October 2016

The ECACC Fundamentals of Cell Culture is a four day course that aims to deliver a balance of theory, essential techniques and best practices covering the entire cell culture workflow from culture initiation from frozen vials and the generation of primary cultures, the maintenance and cryopreservation and quality control and validation of cell banks through to the delivery of cell cultures to a variety of applications and cell based assays and qualitative and quantitative cell culture.

Limited spaces available.

Find out more

Watch a video on good cell culture practice



New CHO variants expressing different allotypes of Rc gamma RIIA receptors

These lines were developed in the laboratory of Dr Mike Clark at Cambridge University and have been deposited with the ECACC, by Cambridge Enterprise Ltd. These CHO cell lines are useful for investigating the binding of recombinant antibodies to human Fc receptors. The cell lines may also be used for the measurement, by flow cytometry, of monomeric IgG binding or complexed IgG binding to receptors amongst may other uses.

Find out more about these and other new additions to the ECACC General Collection

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EBiSC launches a Call for Tender for assessing the market for research grade iPSCs

EBiSC is looking for a subcontractor having comprehensive expertise, experience and competencies in gathering global data on the research use of the iPSC technology, iPS banks and their use and overall market

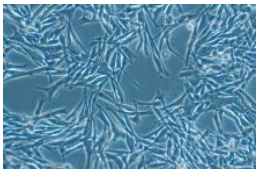
Find out more

NCPV National Collection of Pathogenic Viruses
Operated by Public Health England

Do you use viruses in your research? The National Collection of Pathogenic Viruses (NCPV) has over 400 human pathogenic viruses available for research use. All viruses are available as frozen viable viruses or nucleic acids.

Find out more

ECACC top tips : misidentified cell lines



A: There are several ways in which researchers can help safeguard their cell lines within a shared laboratory:

- by obtaining their cells from a recognised Culture Collection. ECACC cell lines undergo comprehensive quality control and authentication procedures
- make sure that the Class II Microbiological safety Cabinet is cleaned thoroughly before starting and after completing any work
- only work with one cell line at a time in the cabinet
- make sure all cell culture flasks are clearly and correctly labelled
- keep all cell culture media and reagents segregated. It is a good idea to have separate bottles of media and additional cell culture reagents dedicated to each cell line
- aliquot smaller quantities of media and reagents from stock bottles for single use
- practice good aseptic technique
- discard any leftover media and reagents after use; never return these to stock
- allocate incubator space, and segregate Human and Animal cell lines if both are incubated in the same incubator at the same time after producing your own Master or Working banks of the cell lines, contact ECACC for our **cell line authentication services**

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