

ECACC news

April 2017

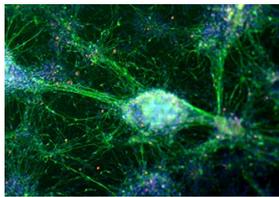


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ECACC top tips: non-human cell line authentication

Q: How can I authenticate a non-human cell line ready for submission of a paper for publication in a scientific journal?

Scroll down for the answer...



EBiSC is developing tools to accelerate neuronal differentiation of iPSCs to help model Alzheimer's disease

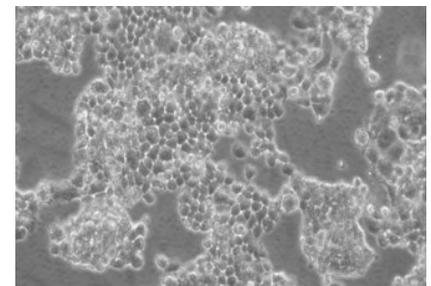
EBiSC consortium members, [Bioneers A/S](#) are providing the neuroscience research community with disease specific iPSC cell lines for use in understanding the pathomechanisms of Alzheimer's disease. [Find out more](#)

[Do you have any interesting images of our cell lines?](#)

[Send them in to feature your work in our newsletter!](#)

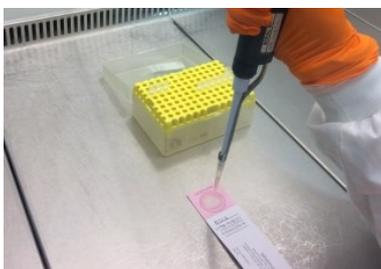
Cell line profile - COV434 (catalogue no. 07071909)

The immortalised granulosa cell line COV434 was isolated from a primary granulosa cell tumour of a 27 year old female suffering from a metastatic granulosa cell carcinoma. It is considered to be the first, and still one of the very few existing cell lines to display several properties considered essential for normal human granulosa cell function. It is now widely used in the investigation of human granulosa cells, most specifically in juvenile and adult ovarian cancer research.



[Find more cell line profiles here](#)

[Find out more](#)



STR profiling using FTA cards

Cell cultures have been crucially important tools in the field of biology and medicine for many decades and *in vitro* tests are used extensively in the research and development and quality control of a number of different life science fields. However, issues regarding cell line misidentification have been known since the 1960s. The best solution to avoiding this problem for human cell lines is Short Tandem Repeat (STR) profiling. ECACC can now offer an STR profiling cell line authentication service.

[Find out more](#)

HipSci Panel

For new users of our iPSC resource, we have composed two panels of lines from the HipSci iPSC collection that we would recommend. These lines have been selected based on their high pluritest scores, low CNV's (copy number variation), comprehensively characterised assay data, and their ability to differentiate. [View the panels](#)





Date for your diaries: 19 May 2017

Webinar with Professor Stefan Przyborski

"Advanced Cell Culture Technology for Generation of In Vivo-like Tissue Models"



Cell culture: useful publications and websites

There is a growing need for standardisation to enable reproducibility within life science research. As our reliance on *in vitro* methodologies increases, it is important that researchers have access to resources that help guide workflow and experimental design and provide basic and up to date guidance to help overcome common pitfalls and challenges encountered in cell culture.

[Find out more](#)

Meet the team!

Three quick facts about Sharon!

- has travelled all the way to San Francisco
- loves to play Jenga
- will always DIY rather than call for help!



Sharon is talking at the [European Calcified Tissue Society Congress](#) on Saturday 13 May in the basic science technology update about the importance of cell line authentication.

ECACC top tips: non-human cell line authentication

A: ECACC provide a service for the authentication of non-human cell lines using [DNA barcoding](#).



DNA barcoding can distinguish between species but not between individual animals of the same species. A new STR based method for the identification of mouse cell lines is able to identify cross contamination and is a significant first step in addressing an issue which has plagued research laboratories for many years.

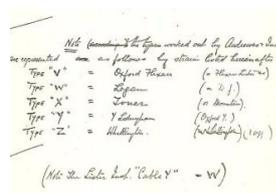
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[Murray, microbes and me](#)



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