



Annual training school – 2020

3D cell models – a powerful tool to study MDR*StrataCell*

The *StrataCell* Training School is an excellent opportunity for early career researchers to learn about three-dimensional cell culture models, such as spheroids, organoids and organs-on-a-chip application for testing multi-drug resistance mechanisms and ways to combat them. This school will teach researchers theoretical and practical skills needed to make such models and to evaluate the effects of tested substances during the online lab courses by applying novel imaging techniques. The cooperative and enthusiastic academic environment and synergism between experienced teachers and talented trainees will contribute to a better understanding of 3D model peculiarities and their routine application specifically for MDR studies.

Dates: **November 5-6, 2020 (2 days)**

Venue: online

Organiser: Preclinical Research Center, Lithuanian University of Health Sciences

More info: stratagem-cost.eu

Who can apply?

PhD students or Early Career Investigators (ECI) from EU or other countries. Master students can also apply but PhD and ECI will be given priority in case of more applications than the capacity.

How to apply?

Applicants must apply for participation in the Training School *StrataCell 2020* by completing and submitting the application form by e-mail vilma.petrikaite@lsmuni.lt

When to apply?

The call is open from **14th of September**.

The applicants will be notified about the results by **20th of October**.

Organising committee

Vilma Petrikaitė (Lithuania)

Chiara Riganti (Italy)

Dale Lawson (Italy)

Helena Vasconcelos (Portugal)

Yordan Yordanov (Bulgaria)

For any queries please contact:

Prof. Vilma Petrikaitė (vilma.petrikaite@lsmuni.lt)

PRELIMINARY PROGRAMME	
Thursday, 5 th of November	Friday, 6 th of November
LECTURES	
10.00 – 10.10 Opening of training school <i>Prof. Vilma Petrikaite</i> 10.10 – 10.40 Welcome and introduction to STRATAGEM <i>Prof. Chiara Riganti</i>	10.00 – 10.40 A wonderful world of organoids <i>Dr. Inese Čakstina</i>
10.40 – 11.20 3D models – a powerful tools for testing MDR <i>Dr. Anamaria Brozovic</i>	10.40 – 11.20 Tumor explants for <i>ex vivo</i> drug screening <i>Dr. Jelena Grahovac</i>
11.20 – 12.00 Tumor cell and microenvironment interaction <i>TBA</i>	11.20 – 12.00 Organ on a Chip Technology <i>TBA</i>
Break	
12.20 – 13.00 The use of patient-derived organoids to guide the design of novel combination strategies <i>Dr. An Wouters</i>	12.20-13.00 Challenges of Nanoparticle testing in 3D models <i>TBA</i>
13.00 – 13.30 Discussion and close remarks of the 1st day <i>Prof. Vilma Petrikaite</i>	13.00 – 13.30 Discussion and close remarks of the 2nd day <i>Prof. Vilma Petrikaite</i>
AFTERNOON ONLINE “WET LAB”	
13.30 – 16.00 Individual movie theater Let’s make 3D tumor spheroids <ol style="list-style-type: none"> 1. <i>3D Bioprinting method</i> 2. <i>Hanging drops technique</i> 3. <i>3D Microtissue technique</i> Growing organ-on-a-chip – tips and tricks Fifty shades of toxicity testing	13.30 – 14.00 Discussion (cont.), including issues from “WET LAB” movies CLOSING REMARKS of the training school