

SUMMER SCHOOL June 4-6, 2018, Warsaw

LIFE SCIENCE IMAGING – WORKSHOP ON VISUALIZATION OF MOLECULES, INTERACTIONS AND BIOLOGICAL PROCESSES

The organizers: Bozena Kaminska (Postgraduate School of Molecular Medicine), Magdalena Dziembowska (Center of New Technologies, University of Warsaw),
Location: Center of New Technologies (CENT) Warsaw, Banacha 2c str.

June 4th, 2018

- 9.00 - 9.35 Maria A. Ciemerych (University of Warsaw, Warsaw, PL) Pluripotent stem cells
9.35-10.10 Bozena Kaminska (Nencki Institute, Warsaw, PL) Cancer stem cells: biology and therapeutic targeting
10.10-10.45 Agnieszka Kobiela (CENT/ UW, PL) Cancer stem cells heterogeneity due to origin and high plasticity
10.45-11.15 coffee break
11.15-11.50 Ewa Zuba-Surma (Jagiellonian University, Krakow, PL) Stem cell-derived extracellular vesicles for tissue repair
11.50-12.25 Jacek Jaworski (International Institute of Molecular and Cell Biology, Warsaw, PL) Intracellular trafficking in neurons
12.25-13.00 Ling Peng (Centre Interdisciplinaire de Nanoscience de Marseille, Aix-Marseille University, France) Dendrimer nanotechnology for personalized medicine
13.00-13.45 Dr Johanna De Castro Arce (ABO) Insight: The use of CRISPR-Cas9 for knockout, knock-in and gene activation

14.15-16.30 Practicals in neuronal cell cultures/flow cytometry

June 5th, 2018

- 9.00 - 9.40 Leonora Buzanska (Mossakowski Medical Institute, Warsaw, PL) Organoids - the method of the year 2017
9.40-10.20 Tomasz Rygiel (Medical University of Warsaw, PL) Trojan horse and other delivery strategies
10.20-11.00 Jonathan Heddle (Malopolska Center for Biotechnology, Krakow, PL) An artificial protein assembly: structure and characterisation
11.00- 11.30 coffee break
11.30-12.10 Neil Ranson (University of Leeds, UK) High resolution cryo-EM as a tool to study protein aggregation in disease
12.10-12.50 Marcin Kortylewski (City of Hope National Medical Center, Beckman Center, USA) It takes two: new strategies for immunotherapy of „cold” cancers

13.30 -16.00 Practicals in neuronal cell cultures/flow cytometry

June 6th, 2018

- 9.00-9.40 Jakub Gołab (Warsaw Medical University, PL) The mechanisms of tumor immune evasion
9.40-10.20 Dominika Nowis (CENT- UW/ Warsaw Medical University, PL) Advances in the immunotherapy of cancer
10.20-11.00 Katarzyna Piwocka (Nencki Institute, Warsaw, PL) Not only gene mutations matter; Stress response, translation and personalized therapies in leukemia
11.00- 11.30 coffee break
11.30-12.10 Urszula Hibner (University of Montpellier, France) Evolutionary perspective on cancer
12.10-12.50 Aleksandra Ellert-Miklaszewska (Nencki Institute, Warsaw, PL) Main players in brain tumor-induced inflammation – from biology to therapy

13.00 -16.00 Practicals confocal microscopy//flow cytometry