





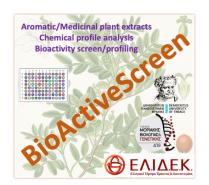


Workshop: Advanced technologies for Bioactivity screening of compounds in natural products

Dept. Molecular Biology and Genetics, Alexandroupolis, Greece

Monday, 29/05/2023

9.45	Welcome
10.00 – 10:15	Brief introduction of the 'BioActiveScreen' research project supported by the Hellenic Foundation for Research and Innovation (HFRI) Katerina Chlichlia, Professor
10:15 – 10:30	Evaluation of biological activity and target identification of bioactive natura products - Networking with OPENSCREEN-GR (node DUTH) Aglaia Pappa, Professor
10:30 – 11:00	Isothiocyanates as naturally-derived bioactive compounds: Does 'one size fits all'? Mihalis Panagiotidis, Professor, Department Head, Cyprus Institute of Neurology and Genetics
11:00 – 11:30	Identification of bioactive compounds: <i>in vitro</i> and <i>in vivo</i> platforms for evaluation Georgios Aindelis, Postdoctoral researcher









11:30 – 12:00 *Coffee Break*

12:00 – 14:00 Identification of bioactive compounds: *in vitro* assays and technologies:

 Study of the effect of bioactive compounds on bacteria and eukaryotic cells using RT-qPCR and Western blot

Despoina-Evgenia Kiousi, PhD student

- 2. Investigation of antibiofilm effects of novel bioactive compounds Eleni Tryfonopoulou, PhD student
- Flow cytometry and spectrophotometric assays for bioactivity analysis Katerina Spyridopoulou, Postdoctoral researcher
- 4. In vitro methodology for exploring the antioxidant and genoprotective properties of bioactive compounds

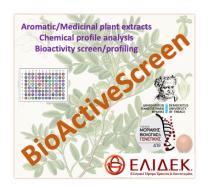
Georgia-Persephoni Voulgaridou, Postdoctoral researcher

The example of *Pistacia lentiscus var chia* Katerina Spyridopoulou, Postdoctoral researcher

14:00 – 15:00 Lunch break

Spectral Flow Cytometry: the Bigfoot spectral cell sorter 15:00 – 16:00

Georgios Lallas, Antisel









16:00 - 17:00

High-Content Screening Platform - Cellinsight (virtual)

Mikhail Okun, HCS Application specialist

Tuesday, 30/05/2023 (Hands-on training)

10:00 – 13:00 (Group A) & Flow cytometry: Apoptosis and Cell cycle analysis
& K. Spyridopoulou & G. Aindelis

10:00 – 13:00 (Group B) Antioxidant activity assays - Cell mass and viability colorimetric & assays

14:00 – 17:00 (Group A) G.-P. Voulgaridou, D.-E. Kiousi, E. Tryfonopoulou

13:00 - 14:00 Lunch break

17.00 – 17.30 Concluding remarks