

## PRELIMINARY PROGRAM

### From Medicinal Plants to Drug Products: Research Lab, Formulations, Applications

#### Agenda

#### **Monday 2.10.2023**

9:30-10:00

Welcoming by the organizing committee

Welcoming round-Teambuilding activity

10:00-11:00

A glance at important medicinal plants. Chemistry of Natural Products. Prof. E. Skaltsa, Department of Pharmacognosy and Chemistry of Natural Products, NKUA

11:00-11:30

Coffee break

11:30-12:30

Essential oils from medicinal herbs: chemistry, biology and applications.

Prof. Diamanto Lazari. School of Health Sciences, Faculty of Pharmacy, Department of Pharmacology and Pharmacognosy, Aristotle University of Thessaloniki

12:30-13:30

Organic chemistry and Natural products chemistry. Dr. I. Seck, Cheikh Anta Diop University (Senegal)

13:30-15:00

Lunch break

15:00-16:00

Quality control of herbal products

Associate Prof. Anastasia Karioti. School of Health Sciences, Faculty of Pharmacy, Department of Pharmacology and Pharmacognosy, Aristotle University of Thessaloniki

16:00-17:00

Innovative ingredients inspired by nature; Pure solutions for natural Beauty Products. Prof. N. Lall, Department of Plant and Soil Sciences, University of Pretoria

#### **Tuesday 3.10.2023**

9:00-10:00

Smart hydrogel films for wound monitoring and healing. Lect. L. Ruta, University of Bucharest

10:00-11:00

Immunopharmacology and inflammation. Prof. E. Tiligada, School of Medicine, National and Kapodistrian University of Athens

11:00-11:30  
Coffee break

11:30-12:30

*In cellulo*, *ex vivo* and *in vivo* approaches to assess hematopoietic response to medicinal plants-natural and -derived compounds. Prof. Carmela Calés-Bourdet Universidad Autónoma de Madrid

12:30-13:30

Methods of evaluation of natural products for activity and toxicity in skin health and diseases, Assoc. Prof. M. Rallis, Department of Pharmaceutical Technology, School of Health Sciences, Faculty of Pharmacy, National and Kapodistrian University of Athens

13:30-14:30  
Lunch break

14:30-15:30

*In vivo* application and pharmacokinetic/pharmacodynamic evaluation, of natural products formulations with enhanced biopharmaceutical and pharmacokinetic properties. Prof. G. Valsami, Department of Pharmaceutical Technology, School of Health Sciences, Faculty of Pharmacy, National and Kapodistrian University of Athens

15:30-17:00

Laboratory exercise

### **Wednesday 4.10.2023**

9:00-10:00

Nanoformulations of natural products: their properties and applications. Ass. Prof. N. Pippa, Department of Pharmaceutical Technology, School of Health Sciences, Faculty of Pharmacy, National and Kapodistrian University of Athens

10:00-11:00

Formulations of natural products and plant extract to optimize solubility, stability, and bioavailability. Prof. AR Bilia, Department of Pharmaceutical Technology, University of Florence

11:00-11:30  
Coffee break

11:15-12:15

Application of 3D printing and design of experiments for the development of pharmaceutical products. Dr. Eleni Tsintavi, Department of Pharmaceutical Technology, School of Health Sciences, Faculty of Pharmacy, National and Kapodistrian University of Athens

12:15-13:15

*In silico* methods in the assessment of natural compounds – strengths and pitfalls. Prof. R. Ancuceanu, Carol Davila University of Medicine and Pharmacy

13:15-14:00

Lunch break

14:00-17:00

Laboratory practices

### **Thursday 5.10.2023**

9:00-14:00

Visit a pharmaceutical industry

14:00-15:00

Lunch break

15:00-16:00

Round table discussions with academic and non-academic experts as guest speakers and people from the industry

16:00-17:00

Presentations: students will make the presentations relative to the program's theme.

### **Friday 6.10.2023**

10:00-11:00

From agricultural waste and by-products to pharmaceutical and nutraceutical applications. Prof. Daniela De Vita, Sapienza University of Rome

11:00-11:30

Coffee break

11:30-13:00

Young Researcher's Talks

13:00-14.00

Lunch break

14:00-18:00

Lab exercise

18:00-21:00

Closing Ceremony: summer school dinner