



ONLINE AND PRESENCIAL
[CONTINUOUS TRAINING]
**MEDICINAL
PLANTS**
CHALLENGES AND OPPORTUNITIES
[DATE]
13 – 17 JULY 2020

PROGRAMME:

		JULY 13 TH MONDAY	JULY 14 TH TUESDAY	JULY 15 TH WEDNESDAY	JULY 16 TH THURSDAY	JULY 17 TH FRIDAY
MORNING (Online)	9:30 AM	RECEPTION T1: Historical aspects. Importance of using plants in therapy. Scientific challenges and current markets opportunities.	T3: Main forms on using plants: Quality criteria. Classes of active plant compounds: Analytical methods.	T5: Research strategies used to characterize the potential health benefits of plant-based products, considering selected biological targets (enzymes or receptors) and phenotypic changes (modulation of metabolic pathways and signaling cascades). Study cases.	T7: Bioactive constituents to control glucose levels and prevent diabetes-related vascular complications.	T9: The future in the smart use of plants: Content integration and discussion.
	11:00 AM	T2: General aspects of regulation on the use of medicinal plants and herbal products: Portuguese, European and US legislations, and the need for harmonization.	T4: Plants used in pharmacy as medicine or supplement. Interactions and adverse effects.	T6: Bioactive compounds that individually, or mixed, have potential to control the inflammatory cascade.	T8: Food supplements supported by nano-formulations of lipids and polyphenols to prevent and/or treat neurodegenerative diseases: Recent scientific advances.	CLOSING SESSION (Presential)
	12:30 PM					
AFTERNOON (Presential)	2:30 PM	PL1: Authentication and quality control of herbal products. Labeling analysis, microscopic and macroscopic assays.	PL3: Chemical characterization of extracts: Chromatographic profile of bioactive compounds and oxidation-reduction behavior.	PL5: Evaluation of extract bioactivity on relevant pharmacological targets for controlling diabetes, inflammation, or neurodegeneration: Enzymatic modulation assays.	PL7: Nanophytosomes preparation: Extract encapsulation and stabilization.	
	4:30 PM	PL2: Preparation of medicinal plant extracts and/or products based on selected plants, with the necessary requirements to be used in chemical and biological tests.	PL4: Results presentation, analysis and discussion.	PL6: Cellular assays: Assessment of extract bioactivity considering phenotypic alterations.	PL8: Results presentation, analysis and discussion.	
	6:00 PM					

In order to guarantee the trainees and trainers safety, all the DGS and UP recommended measures will be followed. Therefore the use of a mask / visor is mandatory and the laboratory activities were designed so that the maximum number of people per laboratory space / classroom defined by FFUP can always be respected.