

# Early Career Researchers (ECRW)

## S3 B Room

Time: 09:00-14:30

09:00-9:05 Welcome by Dr Emerson F. Queiroz , *Switzerland*

### Impulse lecture:

09:05-9:45 Indispensable then and now: natural compounds as tools for research and leads for drugs

**Speaker:** Prof. Dr. Robert Fürst, *Germany*

### Short lectures:

9:45-10:00 The natural diversity of acyltransferases reveals versatility and specificity in the synthesis of gene-encoded - Johannes A. Eckert, *Switzerland*

10:00-10:15 Anti-inflammatory bisembranoids from aquaculture-derived soft coral *Sarcophyton trocheliophorum* - Lo-Yun Chen, *Taiwan*

10:15-10:30 Integration of *Caenorhabditis elegans* bioactivity assays for a sustainable identification of health promoting natural products - Martina Redl, *Austria*

10:30-10:45 Novel natural product inhibitors targeting oncogenic MAPK/ERK and PI3K/AKT signaling in melanoma: From large library screening to target identification - Maria Karpouchtsi, *Switzerland*

10:45-11:00 Towards the engineering of the plant endoplasmic reticulum for sustainable production of specialized metabolites - Elke Clicque, *Belgium*

11:00-11:15 PKC- $\alpha$  activation with new semi-synthetic 7 $\alpha$ -acetoxy-6 $\beta$ -hydroxyroyleanone derivatives for breast cancer therapeutics - Vera M.S. Isca, *Portugal*

11:30-12:00 *lunch break*

12:00-12:15 Development of a high throughput cell-based assay to highlight potential bioactive antiviral natural products against the respiratory syncytial virus (RSV) - Paola Haemmerli, *Switzerland*

12:15-12:30 *In vitro* model for predicting oral bioavailability of isoflavone C-glycosides, O-glycosides, and their aglycons - Sabrina Zölch, *Germany*

12:30-12:45 *Dracaena cambodiana* biflavonoid C2 counteracts ferroptosis by directly inhibiting lipid peroxidation and inducing the key ferroptosis suppressors GPX4 and FSP1 - Loc Le-Xuan, *Austria*

12:45-13:00 Dietary molecules from *Glycyrrhiza foetida* and their modulation on metabolic syndrome pathways - Elena Serino, *Italy*

13:00-13:15 How to make "extreme" CPC greener: how to substitute alkanes in biphasic solvent systems using COSMO-RS predicting zools - Clément Nève, *France*

13:15-13:30 Investigating the anxiolytic activity of selected essential oils in zebrafish larvae and identification of active constituents using biochemometrics - Veronica Busisiwe Maphanga, *Republic of South Africa*

13:45-14:30 Break for internal jury discussion. Awards.