

SCIENTIFIC WORKSHOP



How to address the interest of dietary polyphenols for human health: Last findings on their metabolism and biological activities



Thursday 14th, March 2024
8.45 - 16.30



INRAE
Centre Clermont Auvergne Rhône Alpes

8.45 – 9.00 : Welcome

9.00 – 9.15 : Introduction of the PhenolAcTwin Project

9.15 – 11.00: Session 1

- **Cristian Del Bo (University of Milan, Italia)** – Mechanisms and Beneficial Effects of Polyphenols in the context of Intestinal Permeability (25 min + 5 min questions)
- **Claudine Manach (INRAE, France)** – Recent advances in phenotyping exposure to polyphenols (20 min + 5 min questions)
- **Julia Haarhuis (Quadram Institute, UK)** – The fruit of life: Use of a polyphenol-rich pomegranate extract to suppress the microbial production of proatherogenic TMA (20 min + 5 min question)
- **Dr. Juan Antonio Giménez-Bastida (CEBS-CSIC, Murcia, Spain)** - Oxidative transformation of microbial (poly)phenols metabolites as a novel anti-inflammatory mechanism (20 min + 5 min question)

11.00 – 11.30 : Coffee break

11.30- 13.00 : Session 3

- **David Vauzour (Univ. East Anglia, UK)** - Impact of polyphenols on brain functions through the gut brain axis modulation (25 min + 5 min questions)
- **Vivien Chavanelle (Valbiotis, France)** - Sustainability of Totum-448 beneficial effects following interruption of supplementation in a hamster model of diet-induced MASLD (20 min + 5 min questions)
- **Clément Besqueut-Rougerie (INRAE, France)** - Impact of a polyphenol mixture and spontaneous physical activity on metabolic dysfunction-associated steatotic liver disease (MASLD) in rats fed a high-fat, high-cholesterol diet (15 min + 5 min questions)

13 :00 - 14 :30 : Lunch Time

14.30 - 16.30 : Session 4

- **Ebru Pelvan (TUBITAK, Turkey)** – Polyphenolic characterization and anti-inflammatory effect of in vitro digested extracts of *Echinacea purpurea* L. plant parts in an inflammatory model of human colon cells (20 min + 5 min question)
- **Laurent Emmanuel Monfoulet (INRAE, France)** - Contribution of phase II and microbial metabolites in the vascular endothelial protective effects of anthocyanins (20 min + 5 min question)
- **Yohann Wittrant (INRAE, France)** - Ex vivo clinical approach: an innovative model for rapid, predictive and mechanistic demonstration of nutrients/plant bioactives effect on human health. (20 min + 5 min question)
- **Thomas Hunt (Quadram Institute, Norwich)** – Investigating Interactions between APOE Genotype, the Gut Microbiome and Polyphenol Metabolism (20 min + 5 min question)

16.30 – 16h45 : Closing