

2025 Dairy Science and Technology Symposium



Co-funded by
the European Union

Dairy Biotechnology: Quality, Safety, and Nutrition



Session 1. The role of milk and dairy in healthy and sustainable food systems ***Monday 23 June 2025 at 15:00–17:30 CET***

Introduction

The session examines the role of milk and dairy products to both nutritional health and environmental sustainability. Topics include improving milk quality through probiotic supplementation, enhancing microbial safety using UV-C processing, and assessing calcium bioavailability. The effect of dairy consumption to cardiovascular and metabolic health, as well as factors influencing milk composition at the farm level.

Chair: Serafim Bakalis (University of Copenhagen, Denmark)

15:00–15:05 – Welcome and introduction
Serafim Bakalis

15:05–15:30 – Keynote 1
Christos Apostolopoulos, FrieslandCampina Hellas, Greece
“The dairy products through the nutrition and sustainability lenses”

15:30–15:40 – Flash Presentation 1
Ilias Karaman-Lozos, Agricultural University of Athens, Greece “Improvement of the composition and quantity of sheep and goat milk through the administration of a dietary supplement containing the probiotic strain *Lactiplantibacillus plantarum* ACA-DC 201”

15:40–15:50 – Flash Presentation 2
Ioanna Neokleous, Cyprus University of Technology, Cyprus
“Efficiency of Ultraviolet-C (UV-C) processing for reducing microbial population in raw bovine”

15:50–16:15 – Keynote 2
Connie Weaver, San Diego State University, USA
“Assessing bioavailability with a focus on calcium”

16:15–16:30 – Coffee break

16:30–16:40 – Flash Presentation 3
Christos Pafilas, Agricultural University of Athens, Greece “Mapping the consumption of fermented dairy products and plant based substitutes and evaluating their relationship with self reported cardiovascular health in the context of a European multicenter study”

16:40–16:50 - Flash Presentation 4
Jonathan Magan, Teagasc Food Research Centre, Moorepark Ireland
“Farm-level factors and milk composition”

16:50–17:15 - Keynote 3
Sabita Soedamah-Muthu, Tilburg University, the Netherlands
“Dairy consumption in relation to prediabetes, type 2 diabetes, original cohort analyses and meta-analyses latest evidence”

17:15 – Final remarks & closing
Serafim Bakalis