Symposium Programme

21st March 2022





Talks sponsored by CVIG/BSI

Chair: Prof. Lonneke Vervelde Department of Infection and Immunity, The Roslin Institute, University of Edinburgh, U.K.

Due to the interactive nature of this meeting the time slots are indicative.

14:00-14:05	Welcome and introduction to Avian Immunology Flow Cytometry Symposium Prof. Lonneke Vervelde, The Roslin Institute, University of Edinburgh, U.K.
14:05-14:20	Avian T cells Dr. Tina Dalgaard, Department of Animal Science, Aarhus University, Denmark.
14:30-14:40	Avian B cells Prof. Sonja Hartle, Institut für Tierphysiologie, Ludwig Maximilians University, Germany.
14.45-15:00	Avian Macrophages and Conventional Dendritic Cells Dr. Adam Bálic, The Roslin Institute, University of Edinburgh, U.K.
15.10-15.30	Tea Break
15:30-15.45	Analysing APC functionality using Flow Cytometry Dr. Kate Sutton, The Roslin Institute, University of Edinburgh, U.K.
15:50-15:05	PrimeFlow RNA Assay Dr. Wihelm Gerner, The Pirbright Institute, U.K.
15:15-15:25	VetBioNet: Challenges working with BSL3 samples Prof. Lonneke Vervelde, The Roslin Institute, University of Edinburgh, U.K.
15:30-15.40	Short Break
15:40-16.05	Invited Abstract 1
16:05-16.15	Invited Abstract 2
16:15-16.30	Invited Abstract 3
16:30-16:45	Invited Abstract 4
16.45-17:30	Open discussion

Workshop Programme

22nd March 2022

Sponsored by VetBioNet

The Good, the Bad and the Ugly in Chicken Flow Cytometry

9:00 - 12:00 Session I: Topics

Considerations for chicken cells sample preparation

- Monocytes preparation
- Thrombocytes
- Erythrocyte lysis

Considerations for cell staining protocols:

- Blocking buffers
- Intracellular staining

Fixation procedures:

- Live/Dead stains and fixation
- Fixation and its effects on cell autofluorescences
- Safe fixation for BSL-3 Pathogens

Functional assays

- Cell labelling kits for proliferation assays
- Mix Lymphocyte Reactions
- Phagocytosis Assays

12:00-13:00 Lunch Break/Poster session

13:00-15:00 Session II: Topics

Introduction in Multiparameter flow

- Isotype versus Fluorescence Minus One Controls
- Antibody Panels for chicken B cells, T cells and APCs
- Gating strategies
- Surprising Cell Populations: Real or artefacts?

Conjugating chicken antibodies

Verifying new antibodies and their cross-reactivity

The future of chicken flow cytometry – new applications and reagents

15:00-15:15 Coffee/Tea break

15:15-17:00

Participants Data and Open Discussion

