



Sunday 23 June 2024

15:00 – 16:30

Room - Moorfoot

Cultivated meat – A new frontier in animal cell technology

Organiser: Jonathan Dempsey, Pathway Biopharma

The science of producing meat using cell culture has generated enormous interest since the first burger was grown in a lab over ten years ago. Many of the skills needed to produce cultivated meat are already found in our scientific community. Bioprocessing, cell therapy and regenerative medicine provide the starting point for designing cultivated meat processes but there are many new challenges in making this industry a success. Scale and cost are the most pressing challenges as are the development of suitable cell lines, culture medium and large-scale bioreactors. We aim to present the science behind solving these challenges from leading cultivated meat developers and technology providers.

This field will require the skills and knowledge of the ESACT community. It also provides new opportunities for scientist at all points in their career. Cultivated meat presents a huge moral opportunity to address the key challenges facing humanity, with solutions that our community are key to solving.

Format of the workshop:

1. Welcome and Introduction (Jonathan Dempsey, Pathway Biopharma)
2. **Cultivated meat is not too big a bite** - Ricardo Gouveia, CSO + co-Founder, 3D Bio-Tissues Ltd
3. **Continuous Bioprocess of C2C12 Muscle Cells A Proof of Concept** – Martina Miotto, CSO and Co-founder CellRev.
4. Poster Flashes, Livestock Pluripotent Stem Cells for Cultivated Meat, Roslin Technologies.
A: **Well-Characterised Porcine iPSCs and c-Myc quantification for cultivated meat applications** (Madeleine Carter).
B: **Getting Fat: Adipogenesis of Pluripotent Stem Cells in Livestock Species for Cultivated Meat** (Sarah Ho).
C: **Well Characterised Panel Of Bovine ESCs Embryonic Stem Cells for the Cultivated Meat Applications Industry** (Niamh Hyland).
5. Panel Discussion, Jon, Martina, Simon Best (Board Director, Roslin Technologies) Madeleine, Niamh, Sarah and Ricardo.