

# Biomanufacturing the Future: New Horizons in Cellular Agriculture

8<sup>th</sup> of April 2025

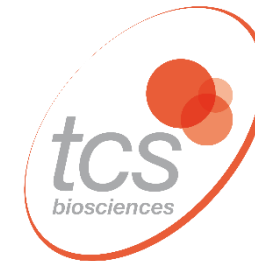
Chancellor's Building, University of Bath



## Conference description:

Cellular agriculture is a relatively new field in which typically animal-derived agricultural products are produced through processes that rely on cells, rather than through the typical farm-based processes that rely on the animals. This one-day conference will cover the current status of Cellular Agriculture with a focus on new developments and innovations in the production of cell-based products (e.g. cultivated meat, cultivated leather) and precision fermentation-based products (e.g. cultured milk, alternatives to palm oil etc). This conference is suitable and open to all engineers, scientists and entrepreneurs interested in the sector.

## Confirmed sponsors to date:



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TIME	SCHEDULE	CHAIR
09:00 - 10:00	Registration	CARMA Hub team
10:00 - 10:10	Welcome and introduction to BESIG IChemE	Petra Hanga (UCL)
10:10 - 11:20	<b>Session 1: Cellular Agriculture landscape in the UK</b>	<b>Session chair:</b> Eirini Theodosiou (Aston University)
10:10 - 10:25	Prof Marianne Ellis (University of Bath) – Introduction to CARMA, the Cellular Agriculture Manufacturing Hub	
10:25 - 10:40	Prof Karen Polizzi (Imperial College London) – Introduction to the National Alternative Protein Innovation Centre (NAPIC)	
10:40 - 10:55	Dr Rodrigo Ledesma Amaro (Imperial College London) – Introduction to the Bezos Earth Fund Centre for Sustainable Proteins	
10:55 - 11:10	TBC (joint presentation) – Student-led initiatives: the UK Alternative Proteins Project chapters (Warwick, Imperial, UCL, Aston, Cambridge)	
11:10 - 11:15	Sponsor 1 pitch – Andrew Meyer (Broadley James)	
11:15 - 11:20	Sponsor 2 pitch – Emma Craughan (BPES)	
11:20 - 11:50	<b>Coffee / Tea Break, Posters and Exhibitors (30 min)</b>	
11:50 - 13:00	<b>Session 2: Precision Fermentation products</b>	<b>Session chair:</b> James Mercer (Clean Food Group)
11:50 - 11:55	Sponsor 3 pitch (Nova Biomedical)	
11:55 - 12:15	Prof Chris Chuck (Clean Food Group) – alternative to palm oil	
12:15 - 12:35	Richard Smith (Better Dairy) – cultivated milk	

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12:35 – 12:55	Katie Mulligan (AerBio) – gas fermentation	
12:55 – 13:00	Sponsor 4 pitch – Tom Pope (CPI)	
<b>13:00 – 14:00</b>	<b>LUNCH, Posters and Exhibitors (60 min)</b>	
<b>14:00 – 14:25</b>	<b>Session 3: Quick fire presentations</b>	<b>Session chair:</b> Vaughan Thomas (UCL)
14:00 – 14:05	Poster flash 1: Ferdinando Radice (Naturbeads) - Performance comparison of Naturbeads and commercial microcarriers for cultured meat applications	
14:05 – 14:10	Poster flash 2: Hélder Bandarra-Tavares (IST, Lisbon University) - Harnessing the potential of chicken Feather Follicle Cells as a source of fat for cultivated meat	
14:10 – 14:15	Poster flash 3: Ben Dages (Aston University) - Novel Nanofibrous Edible Microcarriers for the Scalable Production of Cultivated Meat	
14:15 – 14:20	Sponsor 5 pitch – Lisa Mansell (Alta Bioscience)	
14:20 – 14:25	Sponsor 6 pitch (TCS Bioscience)	
<b>14:25 – 15:30</b>	<b>Session 4: Cell-cultured products</b>	<b>Session chair:</b> Akin Odeleye (Ivy Farm)
14:25 – 14:45	Emily Telford (3D Biotissues) – cultured leather	
14:45 – 15:05	Ellen Parker (Extracellular) – Process Intensification Learnings from Cultured Meat – very high cell density perfusion strategies	
15:05 – 15:25	Dr Wilco Meijer (Quorn) – The amazing world of mycroproteins – from discovery to application	

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15:25 – 15:30	Sponsor 7 pitch (Pfaudler)	
<b>15:30 – 16:10</b>	<b>Coffee / Tea Break, Posters and Exhibitors (40 min)</b>	
<b>16:10 – 17:10</b>	<b>Session 5: Tools and novel technologies</b>	<b>Session chair:</b> Williams Olughu (Ipsen)
16:10 -16:30	Sandesh Meyler (Multus) – Cell growth media optimisation using automation and machine learning	
16:30 – 16:50	Risto Martin (KalvoTech) – Prokitein edible hollow fibre membranes enable the single-step production of structured cultivated meat	
16:50 – 17:10	James Henstock (Newcastle University) – cultivated meat for Space	
<b>17:10 – 17:20</b>	<b>ECR prizes (poster and poster flashes) and closing remarks</b>	Petra Hanga (UCL)