graduate colloquium

... invites speakers

Tuesday, June 16, 2026
17:00, H 53

Dr. Che Julius Ngwa

Fraunhofer Institute for Molecular Biology and Applied Ecology, Aachen

Cultured Meat: Towards sustainable meat production

The rising global demand for meat, together with the environmental, ethical, and public health concerns associated with conventional livestock farming, has intensified the search for sustainable alternative protein sources. Cultured meat, produced through the in vitro cultivation of animal cells, has emerged as a promising and innovative technology with the potential to transform future food systems. By reducing dependence on traditional animal agriculture, cultured meat offers opportunities to lower greenhouse gas emissions, decrease land and water usage, and improve animal welfare while ensuring food security for a growing global population.

This lecture will provide an overview of the scientific and technological foundations of cultured meat production, including cell sourcing, cell line development, tissue engineering, scaffold design, and bioprocessing strategies for scalable production.

Furthermore, Dr. Che Julius Ngwa will highlight the ongoing research activities of the Cultured Meat Group at the Fraunhofer Institute for Molecular Biology and Applied Ecology, Aachen focusing on innovative approaches to cultivated meat production and translational research aimed at industrial scalability.

Host: RIGeL Graduate Colloquium
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