



Session 8	Microbial protein transition players
Pitch Title	Advancing Cultured Meat Production: Cost-Effective Growth Factor Development through Precision Fermentation and Synthetic Biology
Company	Alagene LTD
Speaker	Dr. Neta Agmon, VP R&D
Keywords feedstock	Serum-free growth medium, yeast strains, bacterial strains, cell engineering
Keywords technology	Growth factors, strain development, synthetic biology, bio-manufacturing, precision fermentation, high-throughput screening, automation, fermentation process optimization, downstream processing, biotechnology
Keywords End-Product	Cultured meat, affordable growth hormones, sustainable protein
Abstract:	
<p>Abstract: Alagene, as part of a pioneering consortium, has developed a serum-free growth medium to advance cultured meat production, focusing on optimizing growth factor components through advanced strain development, cell engineering, and synthetic biology. Our approach integrates precision fermentation, high-throughput screening, automation, and bio-manufacturing, allowing us to refine yeast and bacterial strains for improved growth factor production. By enhancing fermentation and downstream processing techniques, we achieved a three-figure cost reduction in growth hormones, marking a significant step toward economically viable and environmentally sustainable cultured meat.</p>	