Session	Start-ups/SMEs looking for Finance: pre-seed/angel/seed funding
Title	Accelerating Alternative Proteins Production with AI Bioprocess Optimisation Software for Scalable and Sustainable Bioprocessing
Company	New Wave Biotech
Speaker	Mariana Gentilhomem (Product and Strategic Partnerships Manager)
Keywords feedstock (max. 2)	yeast, algae
Keywords technology (max 2)	AI, process optimisation
Keywords End-Product (max 2)	Software, sustainable proteins

Abstract:

Taking alternative proteins from the lab to large-scale production is one of the hardest challenges in biotech. More than 90% of innovations fail to progress during development because R&D is slow, expensive, and resource-heavy, often taking 3–10 years and costing thousands of dollars per experiment. For many start-ups, this means running out of resources before their processes are ready for market.

Artificial intelligence offers a new way forward. By virtually testing thousands of process scenarios, AI tools can predict yield, cost, and environmental performance, highlight the most useful experiments to run, and keep improving as new data comes in. This approach cuts down development time, reduces costs, and makes the step to scale-up much more predictable.

At New Wave Biotech, we are building AI-powered bioprocess optimisation software designed specifically for alternative proteins. Our platform combines simulation, process modelling, and scale-up insights to help companies create production systems that are efficient, commercially viable, and sustainable from the start.

In this session, we will show how AI can change bioprocess development for alternative proteins, cutting wasted effort, speeding up the journey to industrial scale, and enabling more affordable and sustainable products to reach the market.