



Session	Start-ups/SMEs looking for Finance: Series A and Series B/C Funding – Proteins & Food Ingredients
Title	Resilient bacterial single-cell protein from CH ₄ for feed and food - moving to our 5000L loop fermenter
Company	CIRCE Biotechnologie GmbH
Speaker	Maximilian Lackner
TRL	TRL 4-7
Keywords feedstock (max 2)	Biogas, power-2-gas
Keywords technology (max 2)	Gas fermentation
Keywords End-Product (max 2)	Single-cell protein(SCP)
Abstract:	
We have scaled up our methane-to-protein process to TRL = 5, reaching 150L fermentation scale. Our penultimate step now is 5000L fermentation, after which we will have derisked the technology sufficiently to move to our first commercial factory. CH₄ is a widely available feedstock, and at scale our single-cell protein (SCP) is at par with fish meal, providing a resilient, microplastics-free and sustainable alternative protein source for pets, aquatic species and poultry (EU feed approval in place). After additional purification, the protein isolate can be used for food, e.g. in hybrid meat products (novel food approval pending). Through our innovative, patented mixing technology, we have double the productivity vs. state-of-the art. Strains are proprietary and non-GMO. Our target is bulk protein to feed the world.	