



Session	Start-ups/SMEs looking for Finance: Pre-seed/Angel/Seed
Title	Programmable Metabolism for High-value Cosmetic Ingredients
Company	Lypo
Speaker	Rory Gordon
TRL	TRL 4 - 7
Keywords feedstock (max 2)	Waste Glycerol
Keywords technology (max 2)	Programmable Metabolism
Keywords End-Product (max 2)	Exfoliants Emollients
Abstract:	
Lypo is a Scottish deeptech startup using engineered biology to produce high-value specialty chemicals. Biotechnology can replace conventional chemical synthesis, providing a cheap and sustainable solution, whilst avoiding hazardous reagents. Lypo's aim is to make these molecules more accessible and enable broader applications. Lypo's initial target market is cosmetics, where our biomolecules can serve as high-performance exfoliants and emollients. EU policy is mandating cosmetics brands to remove intentionally added microplastics, accelerating demand for biodegradable alternatives, and forging an opportunity for new high-performance ingredients. Lypo's platform converts waste glycerol into tunable biomolecules using AI-designed enzymes that reprogram cellular metabolism. Its modular approach enables the development of a diverse range of chemistries from a common platform, with potential applications beyond cosmetics.	