



Session	Start-ups/SMEs looking for Finance: Pre-seed/Angel/Seed
Title	Promecens Chitosan & Melanin Circular Bio Innovation
Company	Promcens Limited
Speaker	Raghav Bhola
TRL	TRL 8 - 9
Keywords feedstock (max 2)	Fungal Insect
Keywords technology (max 2)	Extraction
Keywords End-Product (max 2)	Melanin Chitosan
Abstract:	
Promecens is pioneering a circular biomanufacturing platform that produces high-purity chitosan and melanin through fungal fermentation, replacing conventional crustacean-derived and animal-extraction methods. Using proprietary, patent-pending technology, Promecens achieves 99.5%+ purity levels across multiple derivatives of both biopolymers with a level of consistency difficult to match through traditional production routes. The process is circular by design: fungal cultivation uses low-value organic substrates, requires no seasonal harvesting or live animal inputs, and residual biomass streams are valorised into secondary products such as biofertilisers, minimising waste across the value chain. Promecens' technology is currently validated at pilot scale in India, with Ireland serving as the HQ base for R&D, IP development, and European market strategy. The high-purity chitosan and melanin derivatives target applications across pharmaceuticals, biomedical devices, cosmetics, agriculture, and emerging bioelectronics. Having demonstrated pilot-scale feasibility, Promecens is now seeking to engage with the European bioeconomy ecosystem, including pilot and demonstration infrastructure networks, industrial partners, and investors, to support scale-up, European market entry, and further technology validation under EU regulatory conditions.	