Session	Start-ups/SMEs looking for Finance: Pre-seed/Angel/Seed
Title	BioHeme: Redefining the Future of Bioactive Nutrition
Company	Ironic Biotech
Speaker	Eskil Åhlin
TRL	TRL 4 - 7
Keywords feedstock (max 2)	Glucose
Keywords technology (max 2)	Fermentation
Keywords End-Product (max 2)	Bioactive nutrient

Abstract:

Bioheme™ is an animal-free heme iron protein produced by precision fermentation in a commercial fungus, designed to redefine iron nutrition through high bioactivity, improved tolerability, and clean-label performance. Iron deficiency remains one of the world's most persistent nutritional challenges, yet many supplements fail because of poor absorption, gastrointestinal discomfort, metallic taste, staining, and low adherence. Bioheme™ addresses these barriers by delivering heme iron as a stable protein, keeping iron securely bound while supporting efficient uptake.

In validated in-vitro mammalian cell studies, Bioheme™ demonstrated up to 65× higher bioavailability than other commercial iron ingredients. It is also engineered for consumer acceptance, with reduced risk of gastrointestinal irritation, one of the main reasons consumers discontinue iron supplements. Vegan, kosher/halal-friendly, and with no identified allergens, Bioheme™ offers a sustainable alternative to blood-extracted heme sources.

Bioheme™ is compatible with capsules, sachets, gummies, beverages, bars, bakery applications, and medical nutrition, and the protein has shown stability across heat, pH, and processing conditions.

Commercially, Bioheme™ targets premium supplements, functional foods, and medical nutrition and is moving toward GRAS approval in 2027 as well as a limited pilot partner program.