



Session	Start-ups/SMEs looking for Finance: Pre-seed/Angel/Seed
Title	Algae biorefinery platform: turning biomass into sustainable colours, proteins, and food ingredients.
Company	Brilliant Dyes
Speaker	Redwan Rahman
TRL	TRL 4 - 7
Keywords feedstock (max 2)	Algae
Keywords technology (max 2)	Extraction, fixations
Keywords End-Product (max 2)	Pigments, proteins
Abstract:	
Brilliant Dyes is developing an algae biorefinery platform that transforms naturally abundant algae biomass into sustainable, high-value colourants, proteins and food ingredients. Our approach combines downstream extraction, purification and formulation to fractionate algae into multiple valuable product streams rather than treating the biomass as a single-product feedstock. Our initial focus is on natural colourants for textiles, food and cosmetics, with further opportunities in protein-rich ingredients, animal feed and agricultural biostimulants. The platform is designed around resource efficiency and valorisation of the whole biomass, creating additional revenue streams while reducing residual waste and improving the economics of bio-based production. Brilliant Dyes is an Imperial College London spinout that filed 3 patents on dye extraction, sustainable fixation in textiles, and chromophore separation. We are currently progressing from pre-pilot development towards commercial validation. We have secured six Letters of Intent, generated interest from 60+ global brands and organisations, and completed 3 laboratory validation with global industry partners. We are now preparing for paid pilot trials and scale-up. We are looking to connect with industrial partners, investors, scale-up facilities, and strategic customers who can help us accelerate downstream processing, product validation and commercial deployment of our algae biorefinery platform across Europe and beyond.	