



Session	Start-ups/SMEs looking for Finance: Pre-seed/Angel/Seed
Title	From medical to agricultural use, a substance that could revolutionize crop protection
Company	AGREEN BIOSOLUTIONS
Speaker	Enrico Montanaro
TRL	TRL 4 - 7
Keywords feedstock (max 2)	Vegetable oils
Keywords technology (max 2)	Gas-liquid reaction
Keywords End-Product (max 2)	Ozonated oil
Abstract:	
Agreen is an Italian ag-biotech startup developing organic solutions to protect crops against fungal pathogens. We focus on a substance called ozonated oil, used primarily in the medical field to treat fungal skin conditions. This substance, obtained through a green chemistry process involving vegetable oils and ozone, has a selective mode of action against fungal pathogens without the risk of resistance. The reaction between vegetable oils and ozone forms ozonides, active molecules that act through physical contact on the cell walls of fungi, causing their death, and can potentially target 80% of plant fungal pathogens. What we are doing is applying this substance from the medical sector to the agricultural sector. The transition from production for the medical sector to large-scale industrial volumes was the bottleneck, which is why we developed our proprietary production process, shifting from batch production to large-scale continuous-flow production. This was made possible by our team's unique expertise in ozone processes and chemical engineering. After more than two years of joint field trials, we signed a co-development agreement with the leading agrochemical company Kwizda Agro. Together with them, we are proceeding with the registration of our active substance as a low-risk PPP in the EU to revolutionize the biofungicide industry. We are opening our seed fundraising round to move forward with registration and scale up our technology.	