



Session	Start-ups/SMEs looking for Finance: pre-seed/angel/seed funding
Title	Real-Time Bioprocess Monitoring and Control with Chip-Scale Raman Sensors
Company	Perceptra Technologies
Speaker	Amir Atabaki
Keywords feedstock (max. 2)	N/A
Keywords technology (max 2)	Chip-scale Raman , AI-enabled
Keywords End-Product (max 2)	Process Monitoring, Process Control
Abstract:	
Perceptra is an MIT spin-out based in San Francisco developing the first scalable Raman analyzers for continuous chemical monitoring in process industries. Perceptra's integrated hardware–software platform tackles both cost and usability barriers: a proprietary on-chip sensor technology cuts the six-figure price of existing systems, while pre-trained AI inference models remove the need for specialists and lengthy model development. The initial focus is on a bioreactor analyzer that enhances process insight by more than 100× through continuous measurement of nutrients, metabolites, and product titer. Perceptra's long-term mission is to make chemical analysis universally accessible across all process industries. The company has recently established a subsidiary in the Netherlands to serve the growing biomanufacturing sector in the EU.	