



Session	Sensors, AI, Automation
Title	Run the best next experiment, every time: AI decision-making for bioprocess R&D
Company	Danu Insights
Speaker	Stefan Bostock
TRL	TRL 4 - 7
Keywords feedstock (max 2)	Feedstock agnostic
Keywords technology (max 2)	AI ML
Keywords End-Product (max 2)	Product agnostic
Abstract:	
Europe's bioeconomy has no shortage of brilliant ideas. Where it struggles is proving them out in R&D, inside tight time and budget constraints. Getting the next experiment right is what decides whether a promising technology reaches the market. Every non-optimal call costs months and money. Danu helps biotech teams identify the best possible experiment to run next to hit their goals. They reach better titres, yields, purity and cost in 2x to 10x fewer experiments, at up to half the budget. We put the sharpest tools in AI and information theory straight into scientists' hands, usable without a PhD in statistics. This has won us the £500k Agentic AI Pioneers Award, and grants to apply it across biotech and bioprocessing. We are already working with teams across the UK, EU and Singapore. For fermentation and process innovators, CDMOs and scale-up partners, Danu turns scarce runs and hard-won data into faster, cheaper, more certain routes to market. Let us make every experiment count.	