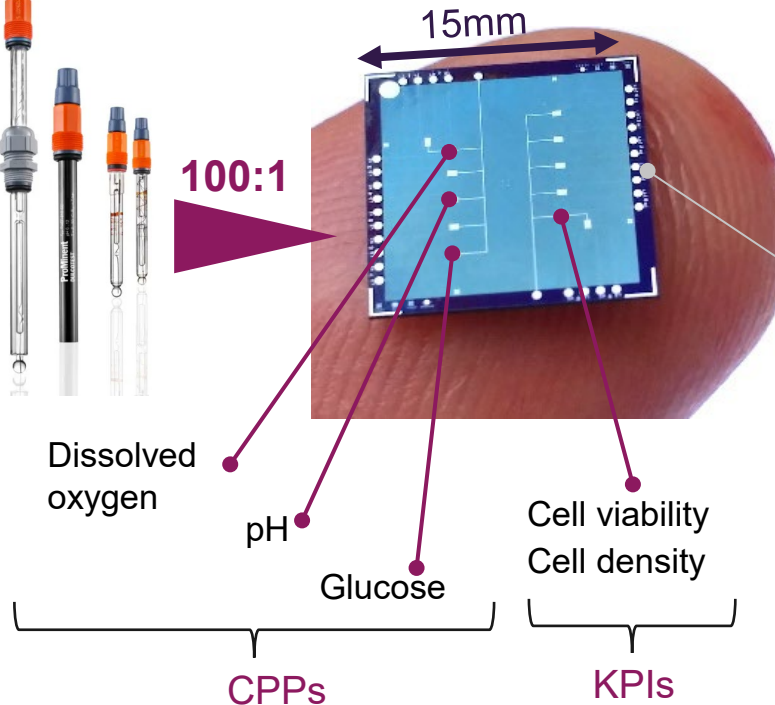


Microchip-based process analytical technologies (PAT) for miniature bioreactors

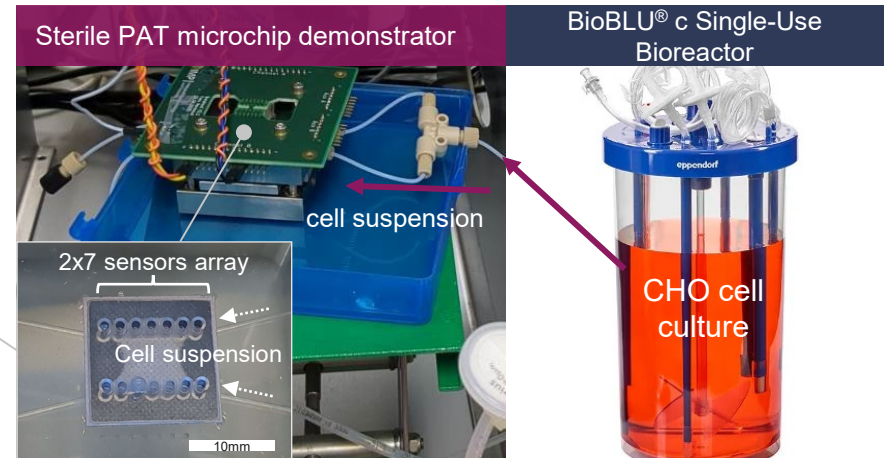
Conventional probes



OST's PAT microchip



Proof of concept in 300ml bioreactor



- 100x sensor miniaturization achieved via MEMS microfabrication
- Most critical CPPs and KPIs on a single 15x15mm microchip
- Proof of concept being tested at-line on CHO and stem cell cultures

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