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Beyond iGEM: a pH-based biosensor for detection of arsenic in drinking water

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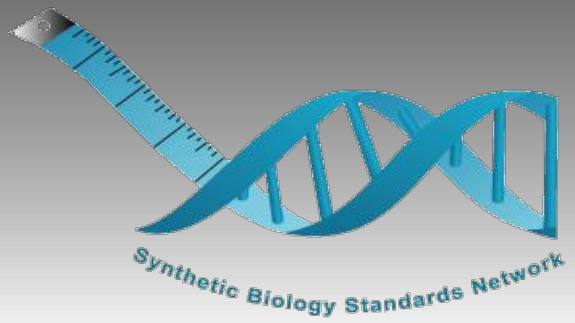
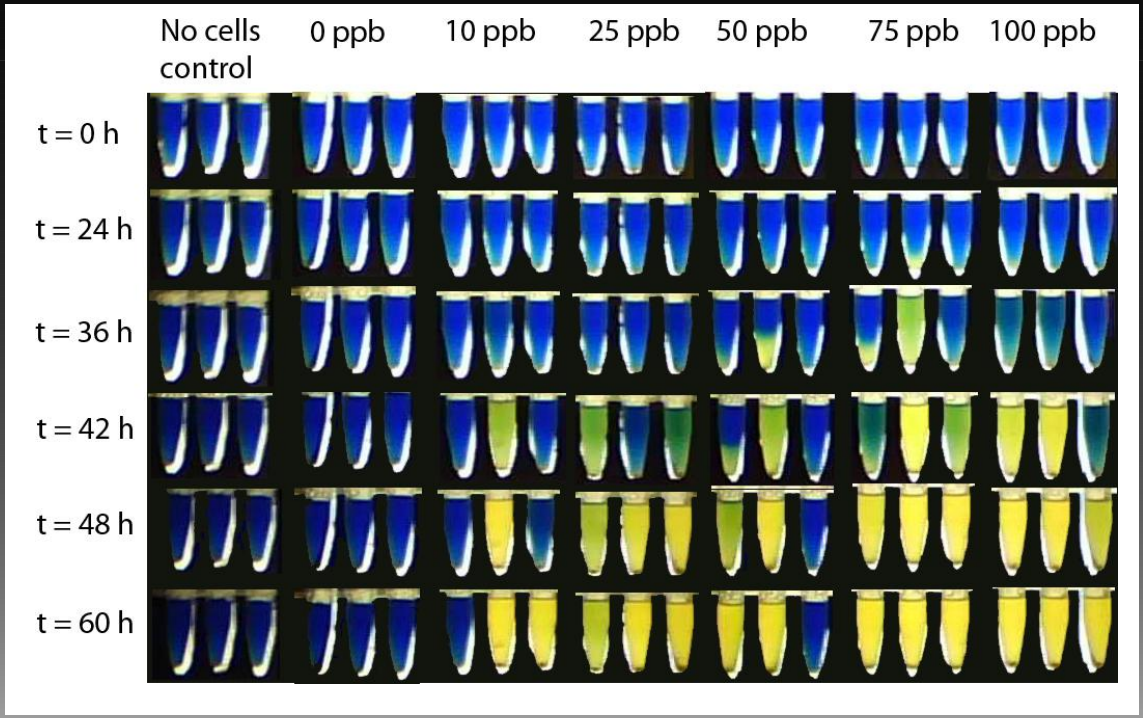


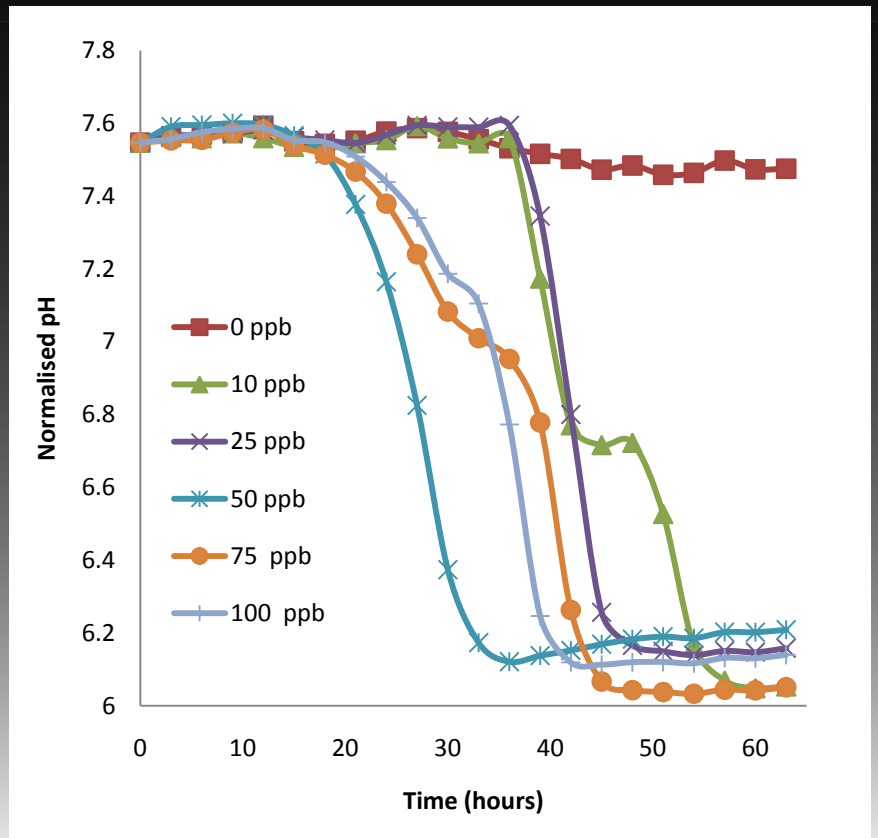
A high-throughput colorimetric method for the detection of arsenic using GM *E. coli*

- Colorimetric pH assay using arsenic sensing *E. coli* and bromothymol blue based media
- Blue = not contaminated
- Yellow = contaminated

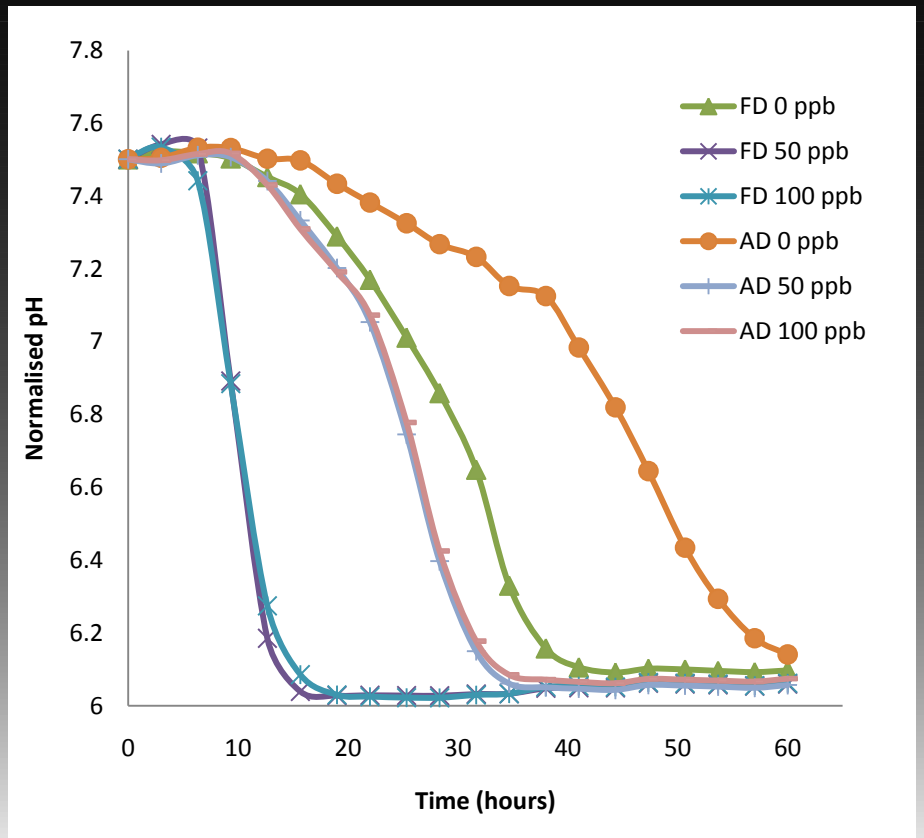


Accurate quantification of sensor performance allows for fine tuning of media compositions

Media changes & cell preparation protocols can speed up color change



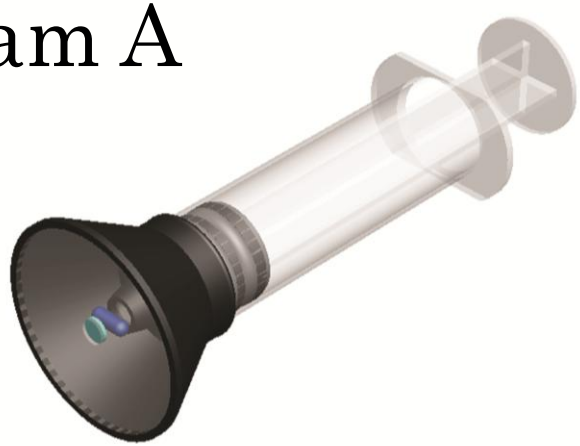
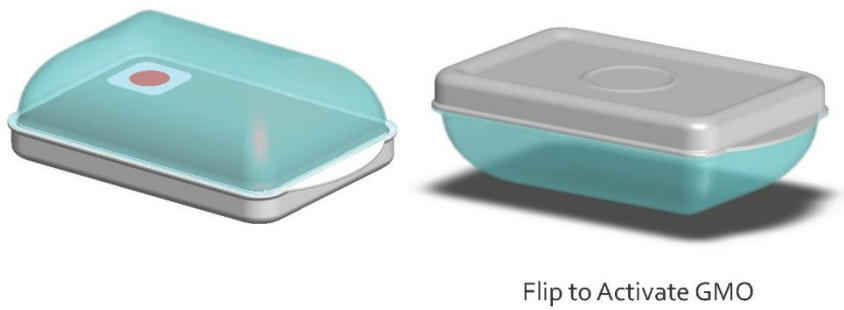
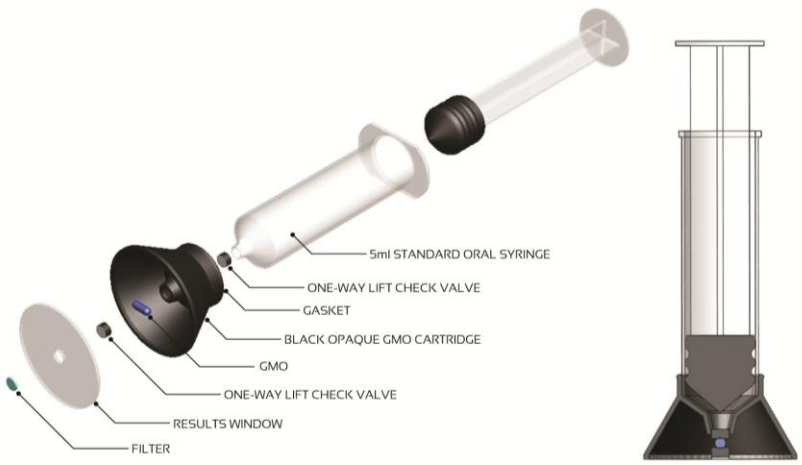
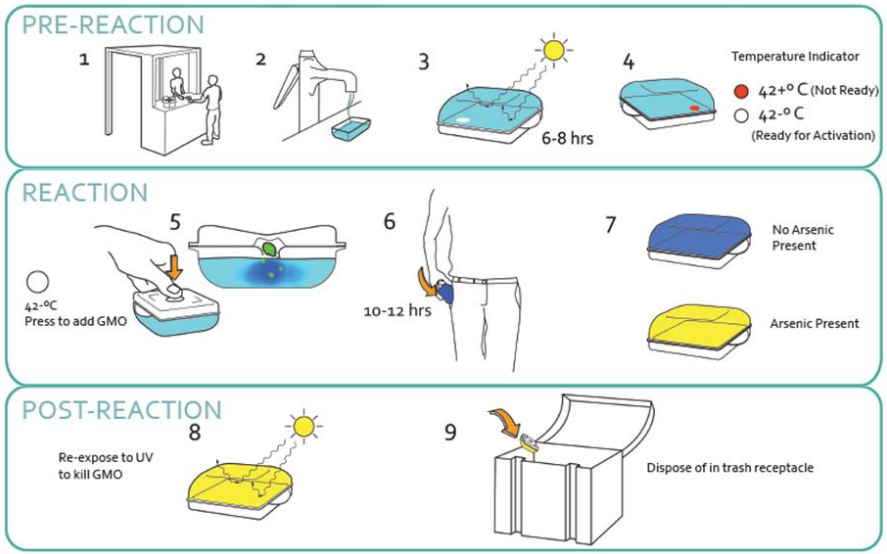
Air dried cells



Freeze dried cells

RISD Enclosure Concepts

Team A



Team C