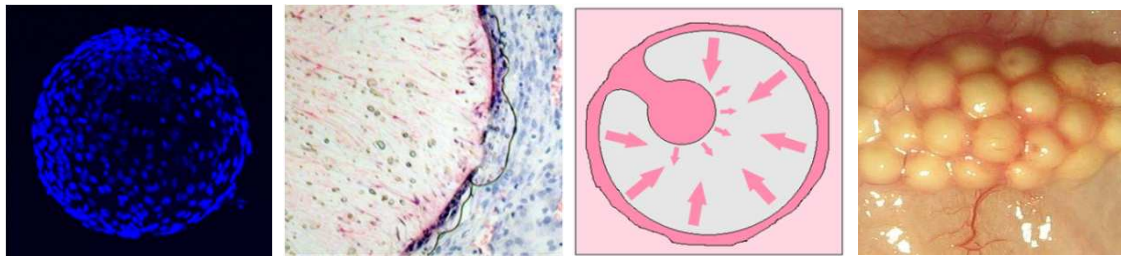
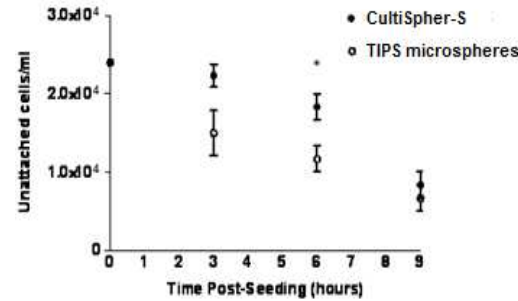
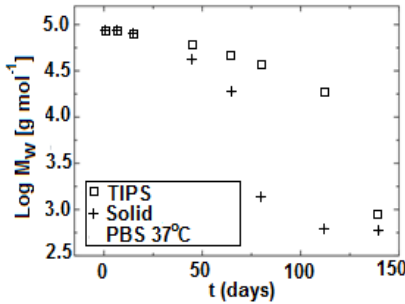
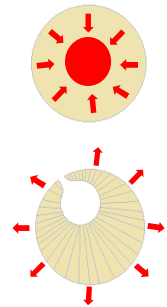
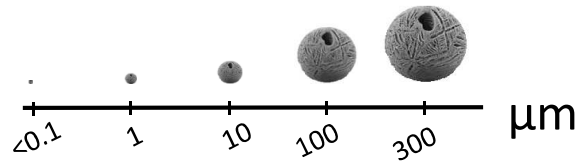
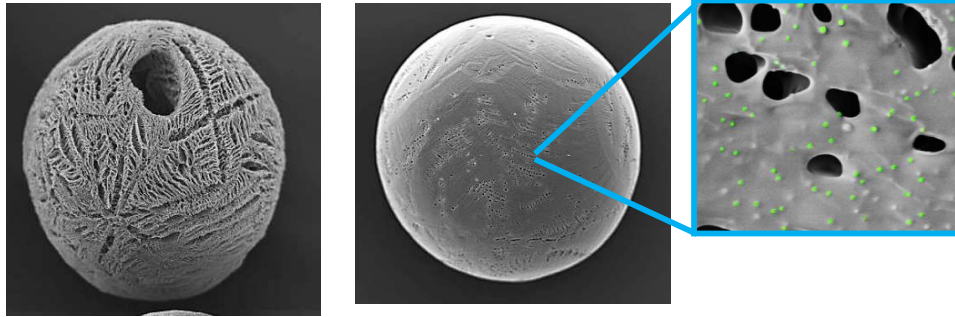


TIPS Particles

Richard Day, Division of Medicine, University College London



UK Regenerative
Medicine Platform



What is it?

Porous particle platform technology

Strengths

Robust & scalable manufacturing process - GMP

High encapsulation efficiency & loading

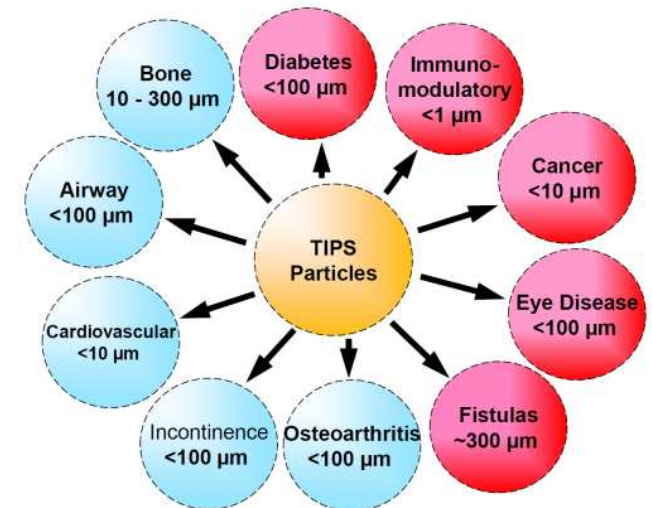
Controlled degradation

Rapid cell attachment & tissue integration

Weaknesses

Handling due to static charging

Potential Applications





UK Regenerative
Medicine Platform

TIPS Microparticles for Combined Drug-Cell Delivery Systems

Richard Day, University College London; Kevin Shakesheff & Morgan Alexander, University of Nottingham



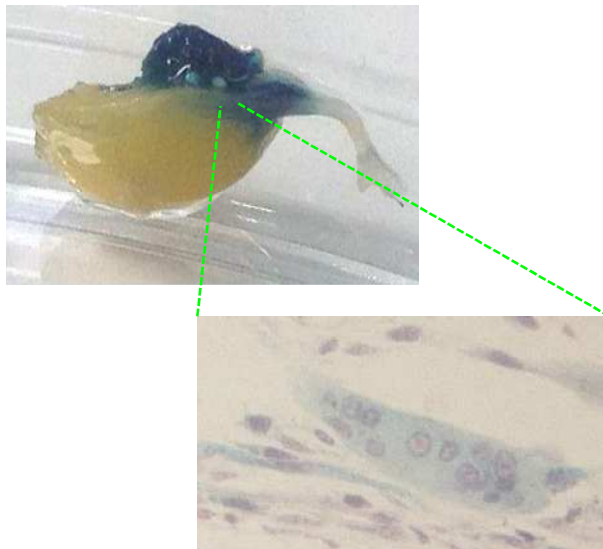
Clinical Problem: Incontinence

UI 3 – 6 m

FI 0.5 – 5 m

Obstetric sphincter injury:

FI + no neurological disease $\sim 4.4\% = \sim 5.9$ m WW



Project Deliverables

- Verify structural and chemical characterization of TIPS microparticles
- Correlate protein adsorption and drug distribution with cell attachment and drug release
- Validate methodology for manufacture, storage and delivery of finished clinical product

Other Potential Applications

- Cell therapy & drug delivery to other organs