

RESEARCH INTERESTS

Surfactants
Biomaterials
Polymers
Hydrogels

Semi-Interpenetrating Polymer Networks
Implant-Related Bacterial Infections
Catheters
Microbiology

PROFESSIONAL QUALIFICATIONS

MPharm from Queen's University Belfast (2012)

RESEARCH SUMMARY

Johann Trotter obtained a 1st class (honours) MPharm degree from Queen's University Belfast in 2012. She carried out her pharmacist pre-registration year in 2012/13 with Gordons Chemist. She began her PhD studies in the area of medical devices in October 2013 under her supervisor, Professor Colin McCoy and secondary supervisor, Dr Louise Carson. Johann's research involves the development of infection-responsive biomaterials for use in urinary catheters. Particularly, her aim is to develop a urinary biomaterial that will exploit the urease-producing bacteria present in the majority of catheter-associated urinary tract infections. Her work involves organic synthesis, synthesis and characterisation of polymeric materials, drug release studies and performing microbiological assays. She is a member of the European Society of Biomaterials (ESB) and is involved in mentoring and volunteering with STEMnet.