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Research Theme

Biomedical and Biological Materials and Manufacturing (BBMM)

Research Areas

- Urology and urinary materials
- Bladder (Foley) catheters and ureteral stents
- Novel biomaterials and coatings to reduce biofilm production.
- Drug-eluting biomaterials to combat infection, inflammation and cancer in urinary bioaterials
- Biodegradable biomaterials for ureteral stents (therefore precluding the need for endoscopic removal)
- Urinary stone prevention

Research Facilities/Tools

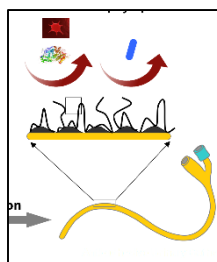
- Close collaboration with Dirk Lange, PhD (Dept of Urologic Sciences)
- Cell and tissue culture to examine biomarkers of inflammation
- Large and small animal, pre-clinical testing of biomaterials and biocompatibility (including infection prevention)
- Clinical trials involving patients in urological applications
- Pathology facilities



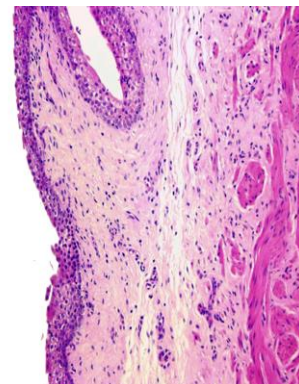
Degradable ureteral stent



Degradable ureteral stent
Clinical trial



Polymer coatings Foley Catheters
(with Dirk Lange, PhD and
Jay Kizhakkedathu, PhD)



Biocompatibility of urinary
Biomaterials in the urinary
system