

Prof Bill Keevil, Environmental Healthcare:

Pathogens, Biofilms, AMR, Infection Control



What we offer:

CL2; CL3 Labs (HSE, SAPO, ATA): Schedule 5 Pathogens,
SARS-CoV-2, CJD prions

EDIC: advanced light microscopy of biofilms; physiology fluorophore toolbox
e.g. antimicrobial mechanisms of complex surfaces & coatings (Cu, Ag); biocides

Chemostats: model complex community environmental and clinical biofilms

Dry surface models: biofilms – hospitals, plant leaves

Soil models: microbiomes, AMR horizontal transfer (Marc Dumont)

Cell culture models: neuroblastoma, stem cells (prion), VERO-E6 (SARS-CoV-2)
3D skin model (wounds)

Relevant growth media: saliva, urine, sweat

Aerobiology: aerosol detection (Tom Secker, Tim Leighton; Sandra Wilks)

Decontamination models: teeth, catheters, surgical instruments & endoscopes

Collaborations: CAP (Minkwan Kim; Michael Kong (Norfolk, Virginia);

Starstream (Tim Leighton); **AMR Rapid Detection** (Collin Sones)

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