

Get in touch to



Access to academic and clinical expertise



Use specialist facilities and technical services



Develop sponsored research collaborations



Establish tailored studentship agreements



Explore licensing and spin-out opportunities



*Interested in other research strengths or expertise areas? Get in touch at **bd-enquiries@qmul.ac.uk***



Dr Jemma Trick

j.trick@qmul.ac.uk



Dr Cecilia Boz

c.boz@qmul.ac.uk

▼ RESEARCH STRENGTHS

- Cancer Prevention and Risk Reduction
- Cancer Screening and Early Diagnosis
- Genetics and Evolution of Cancer
- Targeting Tumour Cells and Tumour Microenvironment

▼ THERAPEUTIC AREAS

- Blood Cancers
- Breast Cancer
- Lung Cancer
- Ovarian Cancer
- Pancreatic Cancer
- Prostate Cancer

▼ ACADEMICS



John F. Marshall

Prof of Tumour Biology

Integrin $\alpha\beta 6$ -directed imaging and therapy for cancer through antibodies and peptides



Jane Sosabowski

Prof of Radionuclide Imaging & Therapy

Development of **radiopharmaceuticals** for imaging and therapy of cancer



Nitzan Rosenfeld

Prof of Applied Cancer Research

Molecular diagnostic tools for cancer detection, characterisation and monitoring

▼ OPPORTUNITIES



Prof Peter Schmidt and Prof Thomas Powles

Global KOLs leading the **Centre for Experimental Cancer Medicine at the Barts Cancer Institute** supporting the **delivery of early-phase cancer studies**



Led by **Prof Tanja Crnogorac-Jurcevic**

Procyon DX utilises **advanced biomarker technologies with algorithmic and machine learning analysis** to detect pancreatic cancer early

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▼ RESEARCH STRENGTHS

- Therapeutics and mechanisms in skin disorders
- Epithelial signalling and barrier function
- Wound healing, ageing and senescence
- Cancer biology

▼ THERAPEUTIC AREAS

- Atopic Dermatitis (AD)
- Psoriasis (PsO)
- Epidermolysis Bullosa (EB)
- Melanoma
- Ichthyoses

▼ ACADEMICS



Cleo Bishop

Prof of Senescence

Senescence in ageing and rejuvenation

High-throughput screening and 2D/3D in vitro models



Edel O'Toole

Prof of Molecular Dermatology

Genetics and biology of skin barrier disorders

Specialist in **ichthyoses, AD, and steatocystoma multiplex**



John Connelly

Prof of Bioengineering

Mechano-sensing in **blistering skin and scarring**

3D bioprinting of next-gen human skin models

▼ OPPORTUNITIES



TREAT-EB

Led by **Dr Matthew Caley** and **Dr Emanuel Rognoni**

Therapeutics Research and Evaluation for **Advancing Treatments in Epidermolysis Bullosa**, through high-throughput screening in 3D in vitro models and inducible in vivo models



Keratify

Led by **Dr Ros Hannen**

Novel ex-vivo platform that maintains whole human skin tissue in the lab

- Enables more accurate and physiologically relevant testing for dermatology, cosmetic and pharmaceutical R&D

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▼ RESEARCH STRENGTHS

- Innovative therapies and diagnostics
- Breach of tolerance and autoimmunity
- Mechanisms of tissue damage and repair
- Development and resolution of inflammation

▼ THERAPEUTIC AREAS

- Rheumatoid Arthritis
- Psoriatic Arthritis
- Sjögren's disease
- Musculoskeletal injuries and healing

▼ ACADEMICS



Michele Bombardieri

Prof of Immuno-Rheumatology

Sjögren's clinical research
team within [EMR](#)



Magdalena Kaneva

*Regenerative Pharmacology
Lecturer*

Endogenous alpha-1-
antitrypsin in joint injury and
as a drug for **osteoarthritis**



Jesmond Dalli

*Prof of Molecular
Pharmacology*

**Specialized pro-resolving
mediators** as therapeutic
leads/targets and biomarkers

▼ OPPORTUNITIES



ReFleKs

Led by **Dr Suzanne
Eldridge** and **Prof
Francesco Dell'Accio**

Regenerative therapy **repairing joint
damage, treating osteoarthritis** and
providing **lasting pain relief**



EMR

Centre for **Experimental
Medicine & Rheumatology**



Led by **Prof
Costantino
Pitzalis**

Access to the HTA-registered EMR Biobank,
integrating **longitudinal biological samples,**
**deep clinical phenotyping and genomic
profiling** from patients with **arthritis and
Sjögren's syndrome**

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▼ RESEARCH STRENGTHS

- Immune–pathogen interactions
- Chronic inflammation and mucosal immunity
- Liver immunology
- Immune function and ageing

▼ THERAPEUTIC AREAS

- Tuberculosis and HIV
- Viral respiratory infections
- IBD and enteropathies
- Liver diseases
- Platelet diseases

▼ ACADEMICS



Greg Towers

Prof of Molecular Virology

Antivirals, immunotherapies, and gene-delivery strategies through immunomodulation



James Lindsay

Prof of Inflammatory Bowel Disease

Consultant gastroenterologist leading the **IBD service** as well as clinical research



Patrick Kennedy

Prof of Translational Hepatology

Chronic hepatitis B research and tools, looking at age-related T/NK-cell responses

▼ OPPORTUNITIES



Led by **Dr Pierre Maillard**
Project: Boosting self-amplifying RNA vaccine efficacy

Self-amplifying mRNA technology that enhances **RNA stability and function without disrupting the interferon response**, offering a powerful next-gen vaccine platform



VacV

Biotherapeutics

Led by **Prof Yaohe Wang**

Developing **oncolytic viruses as therapeutics for cancer** with a promising pipeline of easy-to-administer treatments



▼ RESEARCH STRENGTHS

- Vascular pharmacology & inflammation
- Cardiovascular genomics
- Systemic inflammation & organ dysfunction
- Clinical pharmacology & precision medicine

▼ THERAPEUTIC AREAS

- Pulmonary hypertension
- Heart failure and stroke
- Familial Glucocorticoid Deficiency
- Acute kidney injury
- Diabetes & Obesity

▼ ACADEMICS



Amrita Ahluwalia

Prof of Vascular Pharmacology

The **effects of nitrite** and the **roles of kinin B1 receptors and TRPV1** in cardiovascular disease



Adrian Hobbs

Prof of Cardiovascular Pharmacology

Design and development of **NPR-C agonists** and study of **NO-sensitive GC-activation**



Li Chan

Prof of Molecular Endocrinology and Metabolism

Role of MRAPs in adrenal function, and development of **MC2R antagonists**

▼ OPPORTUNITIES



elcella.

Led by **Dr Madusha Peiris** and **Dr Rubina Aktar**

The world's first pH-sensitive, colonic-release capsule proven to **release your body's own appetite-regulating hormones** by supporting gut-brain communication



 **NILOCAS**
Cardiac Diagnostics

Led by **Prof Steve Greenwald**

Nilocas AI uses a **chest patch to capture sounds and skin vibrations** generated by blood flow, with machine-learning algorithms leveraged to detect cardiac disease

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▼ ACADEMICS



Claudia Langenberg

*Prof of Medicine and
Population Health*

Discovery using **metabolic data from large-scale population** and clinical studies



David Van Heel

Prof of Genetics

Population genomic medicine with linked public health data and recall for further studies



Sarah Finer

Prof in Diabetes

Improving the care of diverse **populations living with, or at risk of, type 2 diabetes**

▼ OPPORTUNITIES

Join as a pharma partner to have exclusive access to



Led by **Prof David Van Heel** and **Prof Sarah Finer**

A uniquely diverse cohort of over >75,000 volunteers, combining **genomic, proteomic and longitudinal healthcare data** to uncover causal human biology



Target discovery

Analysis of a unique cohort to identify new targets for drug discovery



Therapeutic validation

Homozygous predicted loss-of-function genotypes are enriched in Genes & Health cohorts



Target safety assessment

Enabled through deep phenotypic characterisation of drug-target genes



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▼ RESEARCH STRENGTHS

Research focuses on:

- Neurotrauma and neurodegeneration
- Neuroimmunology
- Models of Alzheimer's and Parkinson's
- Trauma management and therapeutics

▼ THERAPEUTIC AREAS

- Alzheimer's disease
- Parkinson's disease
- Motor Neurone Disease
- Spinal Cord Injury
- Trauma and Pain
- Multiple Sclerosis

▼ ACADEMICS



Adina Michael-Titus

Prof of Neuroscience

Fatty acid emulsions for **acute neuroprotection in spinal cord injury** and biomarkers



Charles Marshall

Prof of Clinical Neurology

Early detection and diagnosis of dementia including blood and neuroimaging biomarkers



Alastair Noyce

Professor in Neurology and Neuroepidemiology

Early identification and epidemiological analysis for **Parkinson's disease**

▼ OPPORTUNITIES



Cara Croft

Senior Lecturer
in Neuroscience

- **Tau and alpha-synuclein aggregation in Alzheimer's and Parkinson's disease** using 4D imaging approaches

Methods

Human cerebral organoid slices



Rodent organotypic brain slices/primary cultures



Naked Mole Rats and No Mouse models of neurodegenerative proteinopathies



Approaches

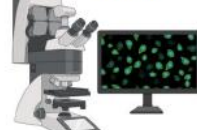
In vivo and *In vitro* CNS cell-specific targeting AAVs:
Overexpression
Knockdown
Imaging sensors



Spatial transcriptomics



Long-term live imaging of genetically encoded sensors



Classical pathology phenotyping



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