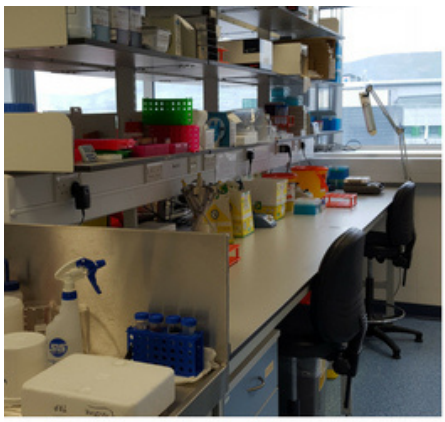

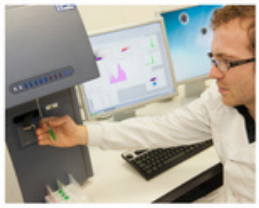

Evolve

Clinical & Translational Research

About us

The Evolve GCLP Lab is a highly integrated infrastructure along with expert academic and clinical staff, and purpose built laboratory facilities delivering the very best clinical research. Evolve Lab collaborates with sponsors to develop, validate, improve analytical methods, and provide technical consultation for protocol design. Our clinical trial support services and laboratory testing services are customized on a project specific basis which allows Evolve Lab to be more flexible to meet the needs of our clients.

Traditionally our main therapeutic focus has been in respiratory diseases, such as asthma, CF, COPD, IPF. Today we have evolved to meet the needs of our clients, providing laboratory services across a range of therapeutic areas.

Facility

A purpose-built laboratory and office spaces are conveniently located within the Belfast City Hospital site and Queens University's Belfast's Health Sciences campus which enables close collaborative working with clinical and academic colleagues.

Embedded within the Centre for Experimental Medicine, Queens University Belfast which provides academic expertise and support dedicated to facilitating clinical and translational research

Features of the laboratory

The laboratory operates to the principles of GCLP in order to ensure sample analysis for clinical trials is carried out in accordance with the current regulations providing reliable analytical data that stands up to the most rigorous regulatory and scientific scrutiny.

- Dedicated GCLP compliant laboratory equipped with the latest technology
- All samples ethically collected and stored in accordance with HTA & GCP/GCLP regulations and guidelines
- All databases are compliant with the Code of Federal Regulations Title 21 Part 11
- Comprehensive quality system: regular audits/inspections and QA schedules, staff training & proficiency programmes
- Specimen management according to standardized procedures, including remote temperature monitoring to ensure sample integrity and reduce pre-analytic variability
- Sample tracking system adhering to MHRA requirements and GCP compliance
- All equipment is quality controlled on installation (IQ), Operational Quality (OQ) certified and Performance Quality (PQ) control certified

Licenced to store tissue under the Human Tissue Authority and handle Schedule I-IV controlled substances

Clinical Trial Support Services

- Study Management
- Protocol development
- Analytical Plans & Reports
- Data & Sample Management
- Central Laboratory Services

Laboratory & Testing Services

All testing is performed, on site in a state-of-the-art clinical laboratory facility, by an experienced scientific team. Our scientists can advise on the selection of appropriate tests, the correct sample type and collection conditions, appropriate analytical methods to meet specific clinical trial needs and interpretation of the analytical results.

BIOSPECIMEN HANDLING

- Ambient, 4oC, -20oC, -80oC, liquid nitrogen and cryogenic (-150oC) storage conditions
- Long and Short Term Storage
- Processing, Shipping, and Sample Handling – Sputum, Lung Biopsies and Brushes, Nasal Biopsies and Brushes, Blood, Bronchoalveolar Lavage and Washes, Peripheral blood mononuclear cells (PBMCs), Urine, Exhaled Breath Condensate

BIOANALYTICAL ANALYSIS

- Validated soluble biomarker testing using single/multiplex array analysis
- Biomarker Development and Validation
- Protein Quantification
- Differential cell counting
- Signaling Pathway Analysis
- Sputum rheology
- Antigen and antibody (vaccine & natural infection) testing to SARS-CoV-2

FLOW CYTOMETRY

Blood cells, sputum cells, broncholaveolar cells and primary cells and immortalized cells

- Cell Cycle/Proliferation/Apoptosis
- Cell Signaling
- Detection of Cell Surface and Intracellular Proteins
- Immunophenotyping
- Mammalian Cell and Cell-line Antigen/Receptor Analysis
- Multi-color Flow Cytometry
- Cell sorting

MOLECULAR BIOLOGY

- cDNA synthesis
- Genotyping
- Lightcycler Data Collection and Analysis
- qRT-PCR
- DNA/RNA Isolation

MICROBIOLOGY

- Bacterial Cell Culture
- Quantification
- Identification (PCR)
- Susceptibility Testing
- Next Generation Sequencing

IMMUNOFLUORESCENCE MICROSSCOPY

- Immunocytochemistry/Immunofluorescence
- Multi-color Immunocytochemistry
- Protein Colocalization
- Staining Optimization

Central Laboratory Services

Evolve Lab offers a flexible service for customized central laboratory services based upon the specific needs of the clinical trial, including bespoke labelling and contents.

- Site training, support and organisation of investigator meetings
- Dedicated Project Coordinator for laboratory and site/sponsor for efficient handling of queries
- Translation of study requirements into a Laboratory Manual.
- Study-specific labels and kits are customized to meet the needs of each study and include all items necessary for specimen collection and processing.
- Generation of randomisation codes and kit lists.
- Shipping materials tailored to study requirements.
- Extensive knowledge in import/export and movement of clinical samples and lab supplies worldwide.
- Biorepository services, handling a wide variety of biospecimens, providing comprehensive sample life cycle management.

Colloborators & Clients

Evolve

Our Location

Medical Biology Centre
97 Lisburn Road
Belfast
BT9 7BL
N. Ireland

Contact Us

Dr. Vanessa Brown

Centre for Experimental Medicine
School of Medicine, Dentistry &
Biomedical Sciences
Queen's University Belfast.

t: +44 (0) 28 90972064
m: +44 (0) 7580 677315
e: v.brown@qub.ac.uk