In a highly competitive marketplace, with reducing returns from R&D and average costs of bringing a drug to market of $2bn, alongside business models such as ‘pay-for-performance’ pricing or post-licensing adoption and evaluation, developing effective products in an efficient, patient-focused way is a growing challenge.

In particular, bringing together the right stakeholders, across function and expertise, represents one of the areas where research and development can falter or fail.

The Birmingham Precision Medicine Centre (BPMC) is a unique, state-of-the-art centre, providing access to the expertise of key opinion leaders on clinical trial design and biological sample investigation, designed to deliver a flexible and comprehensive service to address industry needs for translational medicine.

The team offers a comprehensive trials diagnostic platform that can provide the highest levels of clinical quality management in regulatory-standard delivery and analysis. By integrating expertise, services and stakeholders, we can significantly shorten development and delivery timescales and hence reduce the cost of drug development.

BPMC represents a unique integration of clinical and scientific expertise, facilitated by Birmingham Health Partners (BHP).

The BPMC will soon be located in the new Birmingham Life Sciences Park at the heart of the BHP campus, and is uniquely placed to engage world-class, clinical expertise across a range of pathologies and scientific disciplines with access to a large, stable and diverse patient population across the West Midlands region.

Supported by a unique integrated data platform to interrogate clinical data and integrate analytic data generated, we use the latest analytical platforms to provide regulatory-standard reports.

**Complete life-cycle academic overview**

Whether co-designing trials, performing complex ‘omics’ analysis or developing companion diagnostic tools – BPMC is able to support, enable and facilitate every step of the drug development pipeline, with complete life-cycle academic overview and study design support to address specific needs and requests.

Focus areas include: cancer and haemato-oncology, immunology, inflammation, liver diseases and rare diseases across all ages.

**Best-in-class expertise and location**

BPMC is a unique, state-of-the-art centre, providing access to the expertise of key opinion leaders on clinical trial design and biological sample investigation, designed to deliver a flexible and comprehensive service to address industry needs for translational medicine.

The combined expertise of the BPMC board of experts will provide a unique opportunity for colleagues from industry, biotech and SME to access, in a single unit, academic and clinical services often fragmented across several vendors, minimizing timing and costs associated with the clinical translation of drug development.

**Of the city, for the region, with reach beyond**

**UK and beyond**

**Midlands region**

**City**

1m City of Birmingham

2m UHB Trust

6m WM Genomic Medicine Centre

11m HDR-UK Midlands

16m Genomic Laboratory Hub

20m BHP-led National Trials Programmes

BHP is a strategic alliance between the University of Birmingham (UoB), and two co-located NHS Foundation Trusts – University Hospitals Birmingham (UHB) and Birmingham Women’s and Children’s (BWC). This vibrant, integrated health sciences community forms one of the largest healthcare campuses in the UK, providing an unrivalled clinical-academic accelerator for translation.
One of six national Health Data Research UK Sites – the only one with a core NHS partner

Access to curated electronic records and clinical data from a population affected by diverse pathologies and relative co-morbidities

Connected electronic healthcare records covering over 2 million patients, with full prescription and procedural data, for accelerated patient stratification and recruitment

Well-established facilities for deep immune phenotyping through Human Next Generation Sequencing facility (transcriptomics); Clinical Immunology Service and ITM Stratified Medicine Laboratory (immune phenotyping and molecular pathology); plus microbesNG (microbiomics) and Phenome Centre Birmingham (metabolomics)

One of three national Advanced Therapy Treatment Centres

One of the most significant clusters of clinical trials expertise in Europe, including UK’s largest academic cancer Clinical Trials Unit and leadership of national paediatric cancer trials portfolio

Recognised global leaders in novel trial design and clinical trials networks accelerating trial delivery

Novel ‘basket’, ‘umbrella’ and platform trial methodologies, even in small patient cohorts

Development of customised companion diagnostics

Comprehensive trial design and delivery using latest design methodologies at industry standard

Access to internationally-leading expertise in patient-reported outcomes

Evolving design and evaluation methodologies to support outcomes-based approvals

**BPMC supporting tailored patient solutions**

The Birmingham Precision Medical Centre offers:

- Bespoke retrospective and prospective sample collection and release systems with cutting-edge molecular pathology
- Comprehensive patient immune-phenotyping with access to CyTOF, digital imaging, metabolomics and transcriptomic analysis

Contact

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