



FACILITY OVERVIEW

Cambridge and Harlow, UK

Charles River Discovery's sites in Chesterford Park and Harlow UK believe in an integrated approach to drug discovery. Our partners can draw on experienced medicinal and synthetic chemists, biologists, structural biologists, DMPK experts, *in vivo* pharmacologists, and formulation specialists, operating from state-of-the-art laboratories in multidisciplinary teams.

We provide drug discovery services covering a spectrum from small, single discipline projects to fully integrated programs involving biology, medicinal chemistry, pharmaceuticals, structural biology, and DMPK. Continued scientific leadership during the transition from discovery to development ensures the deployment of our expert teams for optimal impact, and reduces downtime for partners as their programs progress.

Location

Charles River has two centers of excellence for integrated drug discovery located at Chesterford Research Park (founded as BioFocus in 1997 and acquired by Charles River in 2014) and at Harlow (founded as Argenta Discovery in 2000 and also acquired in 2014). Both sites are in the South Cambridgeshire Biotech Cluster, within easy reach of each other, close to Stansted airport and less than an hour away from both London and Cambridge.

Staff

- Approximately 400 scientific staff with an average of over 15 years of industry experience

Laboratories and Facilities

- Approximately 112,000 square feet between the Cambridge and Harlow sites, UK

Typical Projects

- Target elucidation
- [Target validation](#)
- [Assay development](#)
- [Biomarker development](#)
- [Hit identification](#)
- Hit validation
- [Hit-to-lead](#)
- [Lead optimization](#)
- Late stage optimization to candidate nomination
- [Proteomics](#)
- [Bioinformatics](#)

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EVERY STEP OF THE WAY

Integrated Drug Discovery Service Areas

- [ADME/DMPK](#)
- [Analytical chemistry and automated purification](#)
- Automated purification
- [Biochemical and cellular assay development and screening](#)
- Blood work - immunology
- [Capture compound mass spectrometry](#)
- CAT II containment
- [Cell line generation](#)
- [Compound libraries](#)
- [Computational chemistry - CADD](#)
- [CRISPR](#)
- [Electrophysiology, automated and manual](#)
- Formulation sciences, including inhaled delivery
- [Fragment library screening](#)
- [High-throughput screening \(HTS\)](#)
- [Human blood donor panel and immunology](#)
- [Human primary cell biology](#) (over 120 human primary cell assays across all therapeutic areas)
- [In Vitro drug discovery](#)
- [Medicinal chemistry](#)
- Molecular biology
- Pharmaceuticals and solid state chemistry
- Pharmacodynamic biomarker analysis
- [Proteomics](#)
- [Scale-up chemistry](#)
- [Stem cell/iPSC](#)
- Structural biology and biophysical screening
- [Synthetic chemistry, including kilo scale-up](#)
- [Target validation](#)

Proven Track Record in Drug Discovery

We have identified over 80 candidates for partner organizations covering a wide variety of therapeutic areas:

- Anti-bacterial
- [Anti-viral](#)
- [Cardiovascular disease](#)
- [CNS](#)
- Gastrointestinal
- [Inflammation](#)
- [Metabolic disease](#)
- [Oncology](#)
- [Rare and orphan disease](#)
- [Respiratory disease](#)

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