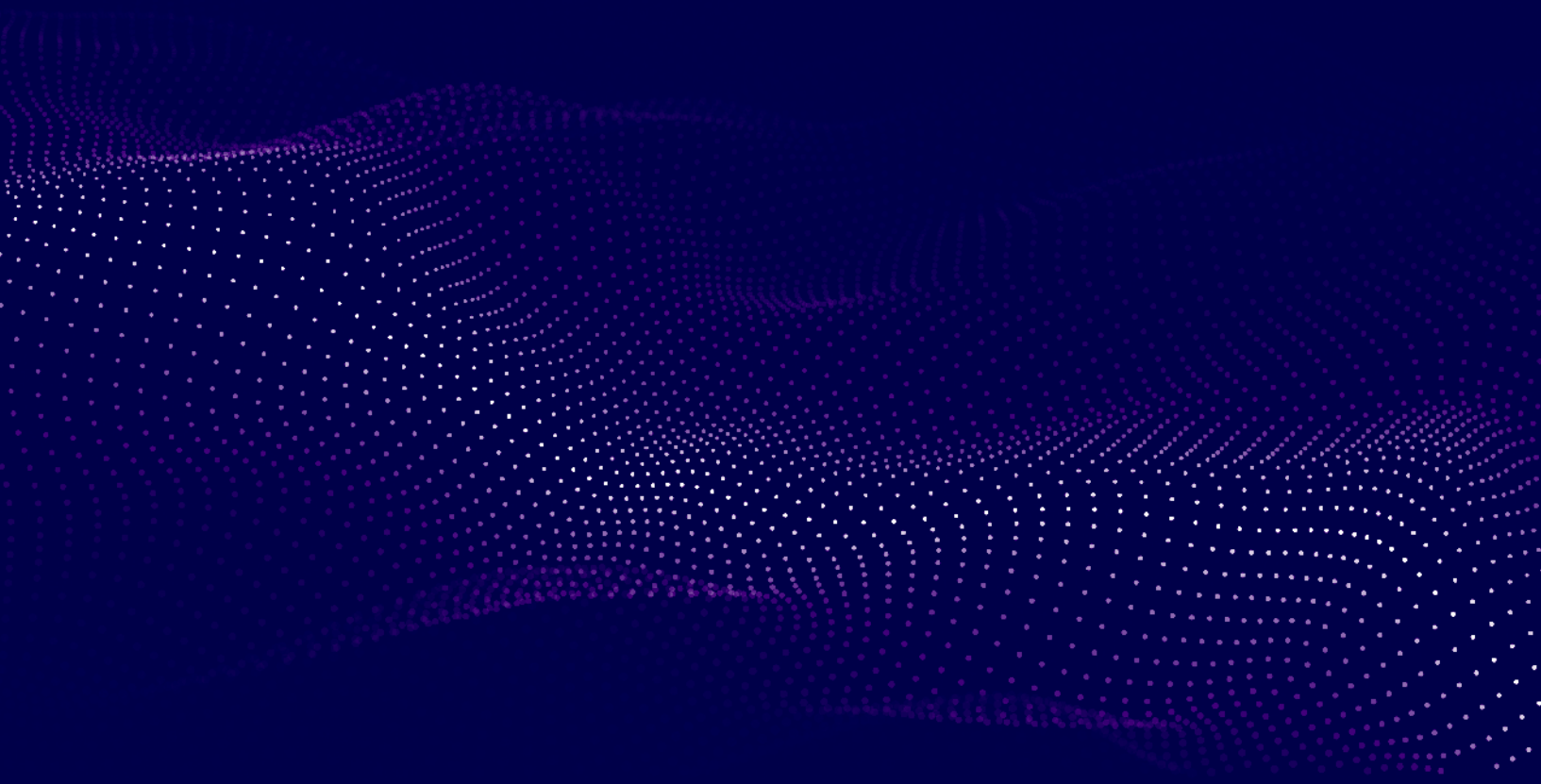


Specialists in Ion Channel Research



Key facts



Projects completed
across 20 countries and
5 continents



Over £1m invested in
new equipment in the
last 2 years



51% staff trained to PhD
level and over 75% of our
team trained to Master's
degree level and above



250 years combined
experience managing
ion channel research
programmes



Laboratory facilities
doubled in size in 2021



80 different clients worked
with in last 2 years

Metrion Biosciences is a sector-leading contract research organisation specialising in preclinical ion channel drug discovery research services.

We deliver comprehensive drug discovery outsourcing solutions to pharmaceutical and bioscience customers worldwide; all from our single, state of the art UK-based research hub.

World Class

Metrion was founded in 2015 as a preclinical ion channel focused contract research organisation. Our passion for ion channels remains at the core of the company today.

Our highly experienced management team has over 250 years' experience within ion channel drug discovery covering target areas including cardiac safety, pain, autoimmune disease, psychiatry, migraine, cardiology, renal, epilepsy, neurodegeneration and cough.

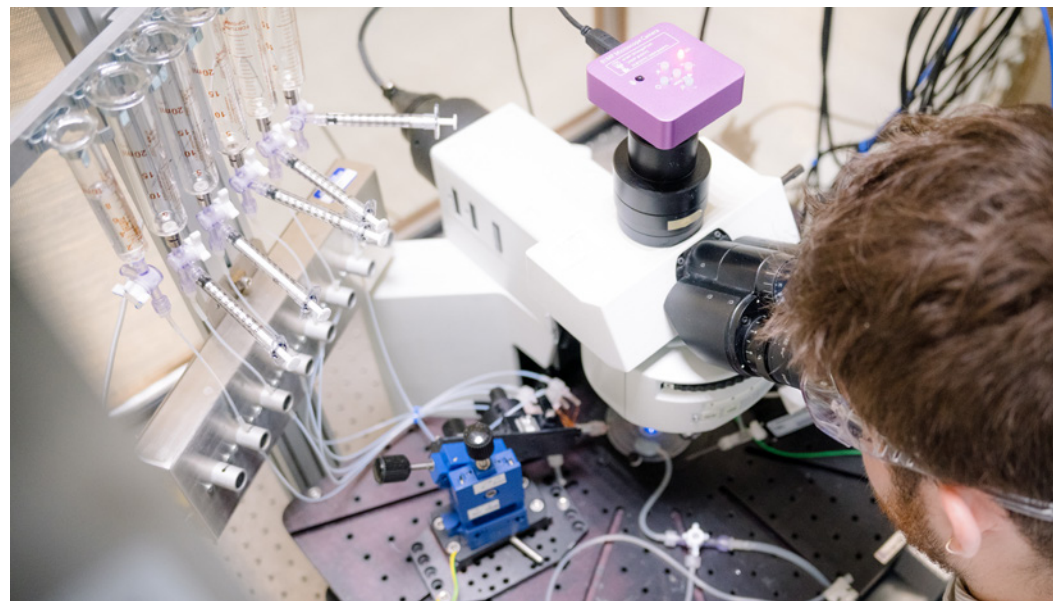
Therapeutic area experience is enhanced by a laboratory team recruited from pharma and the leading Universities across Europe with over 75% of our staff having gained either a Masters degree or higher (51% of our staff are trained to PhD level). This means our clients consistently receive high quality data with knowledgeable interpretation, all within their defined timelines.

Our breadth of experience means we are able to support our clients with assay development, high throughput screening, primary target screening, hit confirmation, lead development and SAR, mechanistic and phenotypic translational studies.

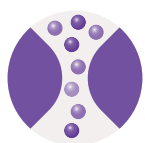
From our headquarters in Cambridge UK, with support teams based in the USA and EU, we work with clients from biotech and pharmaceutical companies, academic and not-for-profits organisations in over 20 countries. Many of these projects have run since the formation of Metrion and our clients are available to provide testimonials.



Metrion's global client list ranges from large pharmaceutical companies to biotech's and virtual companies, looking to validate, develop or de-risk ion channel modulators as they progress towards clinical development. We also work with not-for-profit organisations, academics and start-ups to explore the potential of small molecules and novel modalities using pre-validated, industry-leading assays for ion channels.



Problems Solved



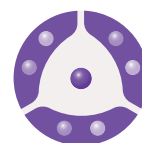
Ion Channel Screening

Metrion has extensive expertise in ion channel electrophysiology and drug discovery. Our broad range of services include validated assays against an extensive panel of ion channel cells lines, high-throughput and customised screening and reagent preparation.



Cardiac Safety

We deliver screening services against a premium panel of validated Comprehensive *in vitro* Proarrhythmia Assay (CiPA) compliant human cardiac ion channel screening assays, including hERG.



Neuroscience

Substantial expertise across multiple therapeutics areas enables us to support neuroscience research projects utilising native tissue and species-selectivity testing.



Translational Research

Metrion has a range of phenotypic assays to aid the translation of *in vitro* data to the pre-clinical stage. These include studies using human iPSC derived cardiomyocytes and neuronal assays and platforms using native rodent and human iPSCs from the peripheral and central nervous systems.



Integrated Drug Discovery

Our highly experienced interdisciplinary team provides a fully integrated drug discovery service by bringing together experts in Ion channel biology, medicinal chemistry, translational biology and DMPK.

Our dedicated focus, and passion, for ion channel research and drug discovery has enabled us to contribute key scientific knowledge and experience to our client's projects.

Highlighted by our consistently successful track record of progressing research programmes across a broad spectrum of therapeutic areas.

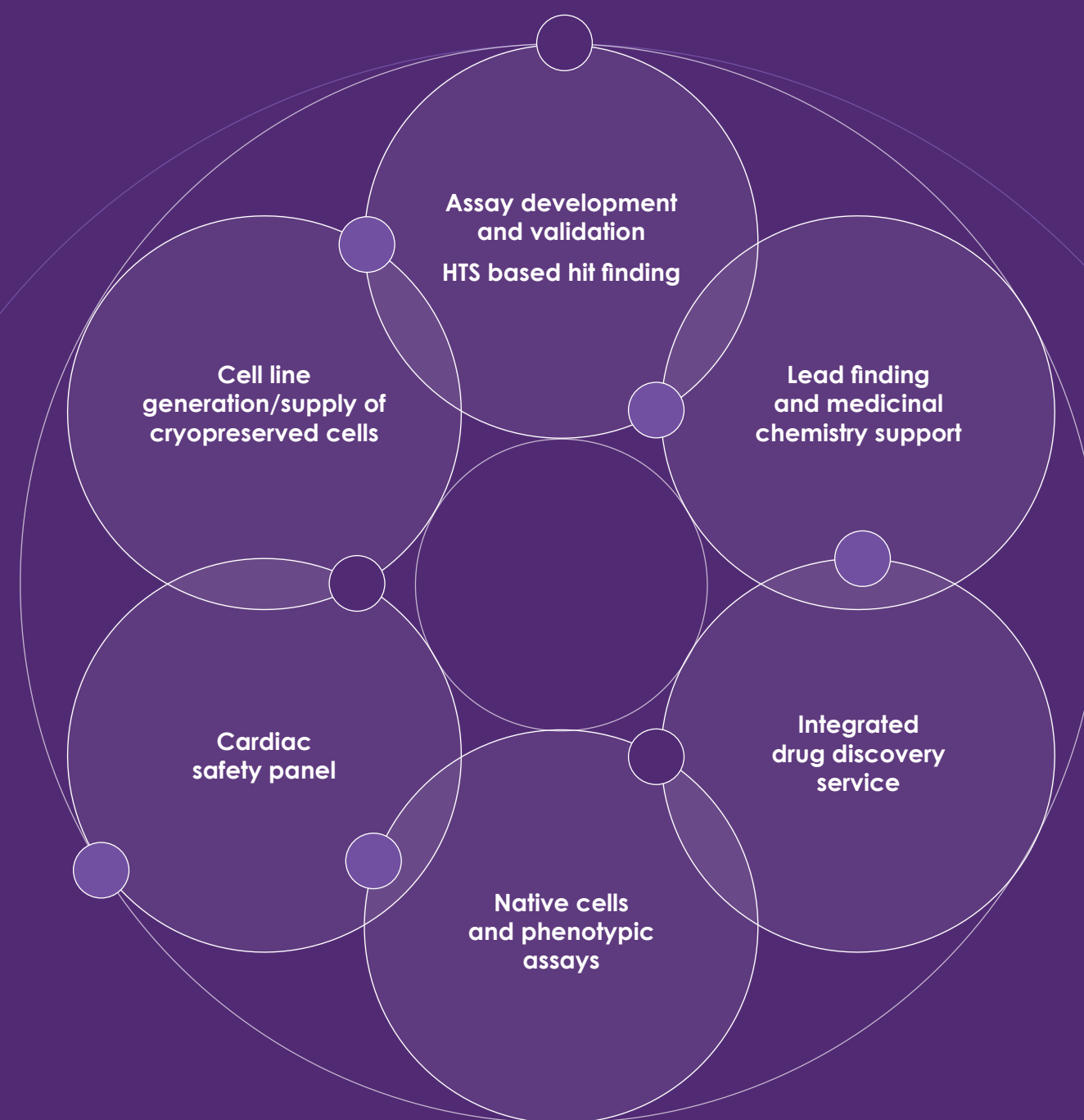
Better Together

Metrion Biosciences provides a dedicated, flexible service specifically tailored to each element of a programme. From the informed design of a study, to providing high-quality, cost effective screening, through to rapid reporting and data interpretation by our team.

To ensure our clients receive class leading support our research group employs highly trained staff, including dedicated cell culture and molecular biologists to work alongside our highly experienced electrophysiologists.

Our laboratory team is augmented by a comprehensive suite of screening platforms that enable us to support your projects from target validation to high-throughput screening and SAR support. These capabilities sit within a single, state of the art facility, where the Metrion team are driven by a culture of curiosity, service and support.

Metrion's customer centric approach focuses on delivering expertly interpreted data to quickly, clearly and efficiently progress our clients programmes.



State of the Art

Our state of the art laboratories at Granta Park house facilities for native and engineered cell lines, induced pluripotent stem cell culture, a comprehensive suite of automated patch clamp platforms, multiple manual patch clamp rigs, fluorescence-based screening capabilities and laboratory data management and reporting systems.

Metrion scientists have decades of accumulated experience utilising the sophisticated screening platforms that successful ion channel drug discovery is so reliant on.

We offer flexible support for assay development, high-throughput and primary target screening, hit confirmation, lead optimisation and SAR, mechanistic and phenotypic studies.

We can customise our industry standard electrophysiology and fluorescence assays for HTS campaigns, follow up compound profiling and mechanism of action studies.

Equipment specification:

Automated electrophysiology

- Qube 384
- QPatch-48 (x2) and QPatch-II

Characterisation of compound activity

- Manual Patch Clamp (x8)
- Multi-Electrode Array and Impedance Recording

Fluorescence and luminescence

- FLIPR Penta

Our liquid handling capabilities enable compound reformatting suitable for HTS campaigns and follow-up profiling:

- Tecan D300e
- Agilent Bravo and Bravo BenchCel Workstation



Get in touch

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