



## FACILITY OVERVIEW

# Cleveland, Ohio

Our research facility in Cleveland, Ohio, offers the world's most complete library of validated human ion channel-expressing cell lines. Services range from early functional screens for profiling drug candidates to a complete set of *in vitro* GLP service products for cardiac risk assessment.

### Background

- Founded in 1998 as ChanTest
- Acquired by Charles River in 2014

### Laboratories and Facilities

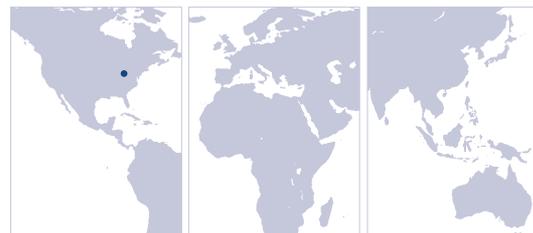
- GLP and non-GLP study conduct
- GMP study conduct
- 21,300 combined square feet.
- 24-hour security and fire monitoring
- Laboratories
  - Cell biology and cell culture
  - Chemistry
  - Electrophysiology
  - Test article formulation
  - GMP testing facility

### Staff

- Approximately 60 employees (with degrees including MSc, PhD and MD)
- Approximately 30 % of staff are PhD-level scientists

### Service Areas/Study Types

- Cell Biology & Cell Culture
  - Custom cell line development and validation
  - Transient transfection
  - Large-scale cryopreservation
  - Cell membrane preparation
  - Cell-based assay development
- Ion Channel Screening & Profiling
  - High-throughput screening
  - Trafficking assays
  - Selectivity profiling channel panels
    - Cancer
    - Cardiac
    - Cardiovascular
    - Genitourinary
    - Metabolic and gastrointestinal
    - Neurodegeneration-stroke
    - Pain-inflammation
    - Psychiatric disorder
    - Pulmonary-respiratory
    - Seizure-convulsion



EVERY STEP OF THE WAY

### Service Areas/Study Types (Continued)

- Ion Channel Screening & Profiling (Continued)
  - Epithelial short-circuit current assays
    - Ussing chamber assays
    - GMP bioassay
  - Ion channel cell lines
  - GPCR cell lines
- Safety Profiling
  - hERG Channel (ICH S7B)
    - GLP and non-GLP
  - Cardiac ion channels
    - GLP and non-GLP
    - SaVety Assessment™ risk profiling
  - Dose formulation analysis
  - hERG trafficking assay
  - Cardiac action potential duration (APD) assays
    - Purkinje fiber action potential
    - Stem cell-derived human cardiomyocytes
  - Integrative stem cell-derived human cardiomyocyte assays
    - Impedance and field potential duration (FPD)
  - Serum shift hERG assay

### Compliance, Certifications, Accreditations and Professional Affiliations

Charles River's Cleveland facility operates in compliance with the following regulatory agencies or accredited organizations:

- Food and Drug Administration (FDA)
- Drug Enforcement Agency (DEA)