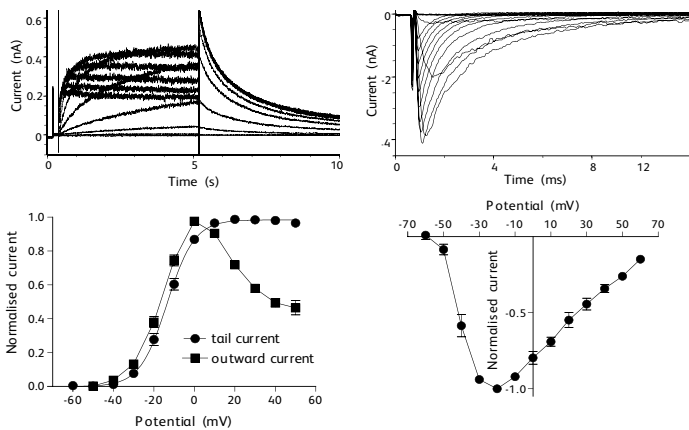




## Rapid Ion Channel Electrophysiology (ICE) Screening Service

- Automated patch-clamp recording using PatchXpress 7000A system (Molecular Devices)
- Allows rapid screening of compounds against cloned ion channels at reduced cost
- Allows direct measurement of potential compound effects on ion channels

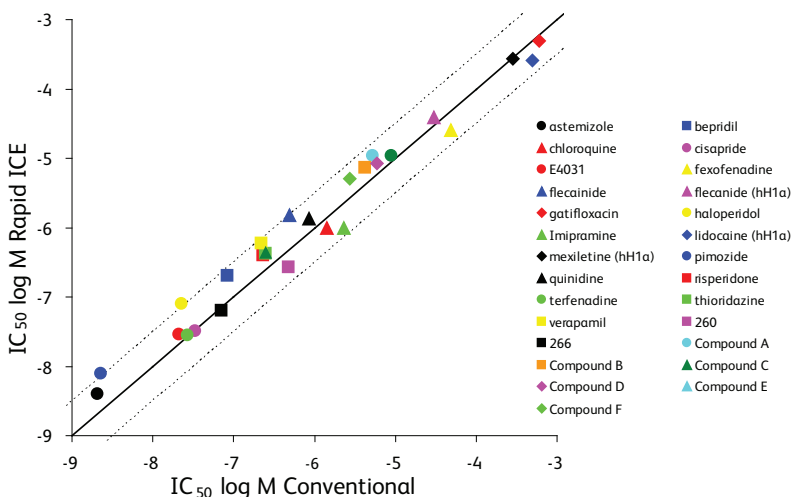
The advent of automated patch-clamp recording and subsequent launch of Rapid ICE has revolutionized the use of electrophysiology in drug discovery and development. Rapid ICE screening of compounds for activity at the hERG ion channel has proved to be an invaluable early safety assessment assay.



Above - Representative current traces (top) and respective current-voltage relationships (bottom) from hERG transfected HEK293 cell (left) and hH1a transfected HEK293 cell (right), recorded using Rapid ICE.

### Advantages of Rapid ICE

- Increased productivity at reduced cost
- High quality electrophysiological data
- Voltage and ligand-gated channels
- Minimal compound requirements
- Rapid data output



Correlation between conventional and Rapid ICE  $IC_{50}$  values. All values generated from hERG with the exception of (hH1a) which are generated in the hH1a Na cell line. 260, 266 and compounds A-F are Sponsor compounds tested blind at Aptuit. Line of unity and 3 fold difference are indicated

### Additional Aptuit Capabilities

Aptuit offers a comprehensive suite of drug development services that range from candidate selection through to market, including consultancy services, API development and manufacture, preclinical and clinical technologies, pharmaceutical services, large and small scale manufacturing, IVRS, and clinical packaging and logistics, across a wide range of compounds, dosage forms and delivery systems.

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**Engineering a better drug development process through scientific excellence.**