

## Solutions for Cell-based and Biochemical Assays

Over the last several years, the demand for cell-based assays has increased significantly. To meet these requirements, Aurora Biomed has developed Versa series for automating cell based / biochemical assays. It is an ideal solution for researchers looking to improve assay quality with scalable, customizable and affordable laboratory automation.

The key step in doing these assays is the preparation of drug dilutions to allow the determination of an  $IC_{50}$ . To prepare for an  $IC_{50}$ , a drug solution needs to be diluted to different concentrations. The workstation has been validated for  $IC_{50}$  dilutions and for a cell-based assay (Fig. 1). Reliable  $IC_{50}$  values were determined for different compounds (Fig. 2).

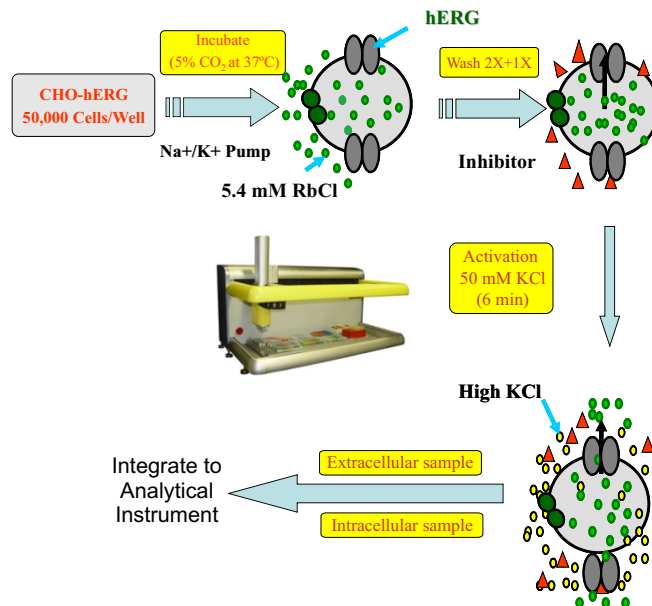


Fig 1. Automation of a hERG ion channel flux assay with VERSA 1000

### APPLICATIONS

- $IC_{50}$  preparation
- Hit picking
- Sample preparation
- Parallel dilution
  - Plate replication and reformatting
  - Array printing
  - Cell-based assays
- Biochemical assays

VERSA 3000, a high throughput version of the workstation features three robotic arms:

- Two for liquid handling and
- One for plate transport

This platform can be used to automate a variety of assays and may be integrated with various instruments

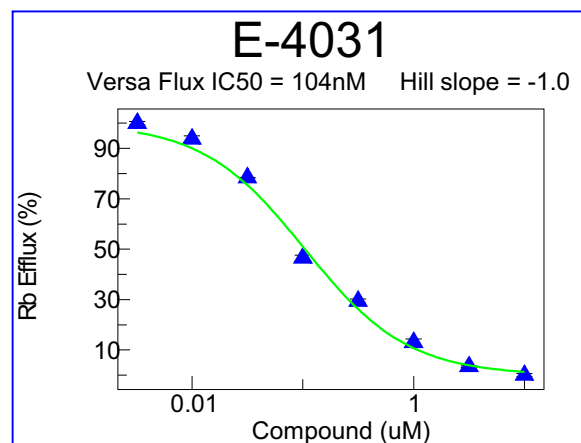


Fig 2.  $IC_{50}$  curve fit of hERG blocker from cell based flux assay automated on VERSA

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