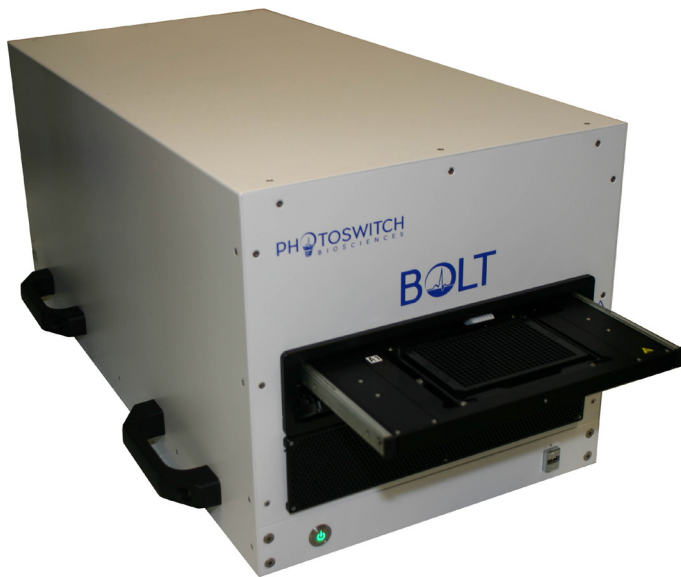
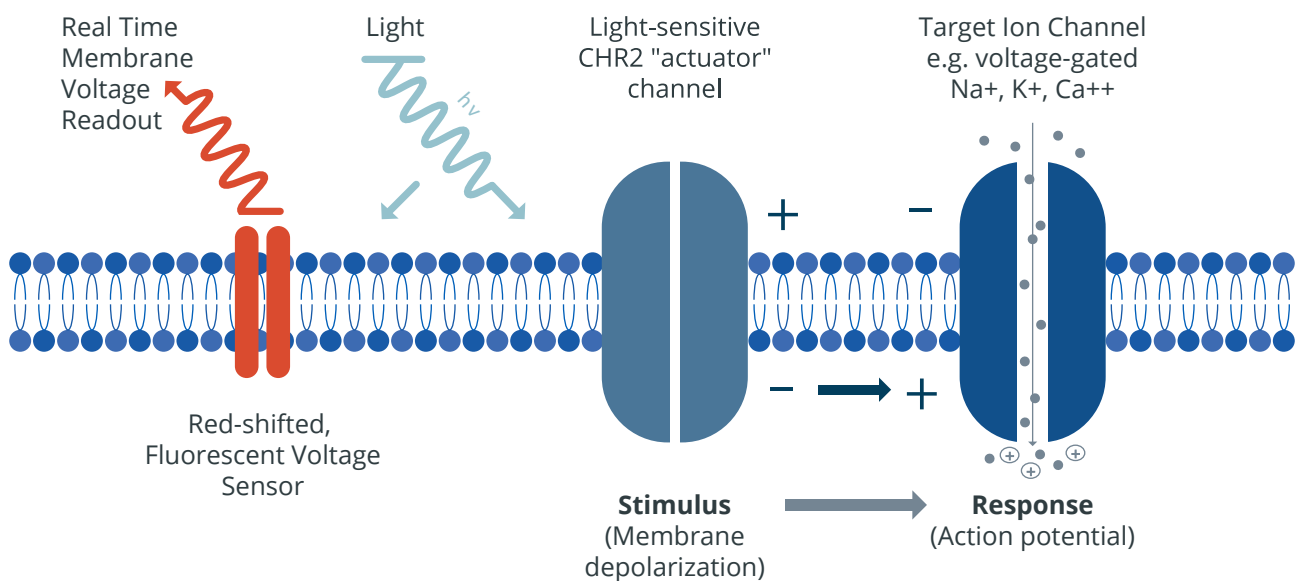


BOLT: High-Throughput Optical Electrophysiology



- Fast (**10 kHz**) sampling of the most advanced voltage probe responses
- **Ultra-bright illumination** sources for fast optical voltage control and extraordinary S/N
- **Simultaneous 96-channel acquisition** for uniform exposures and high throughput
- Compatible with standard **96 or 384** well microtiter plates
- Temperature control from **ambient to +40°C**



iPSC Cardiomyocytes

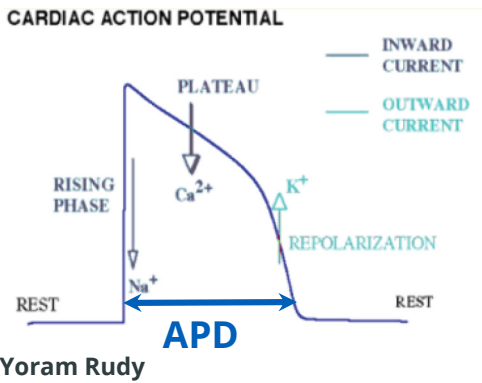
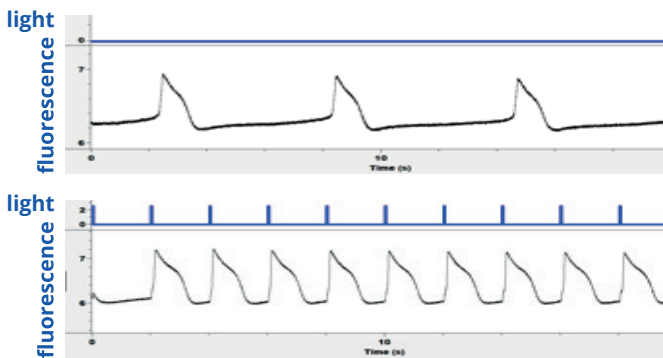
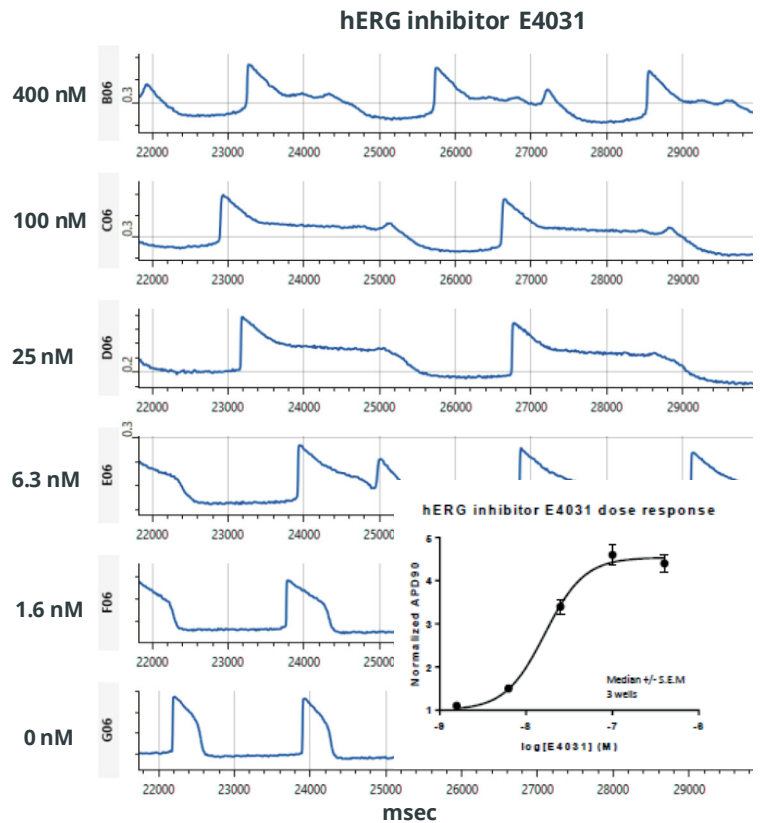
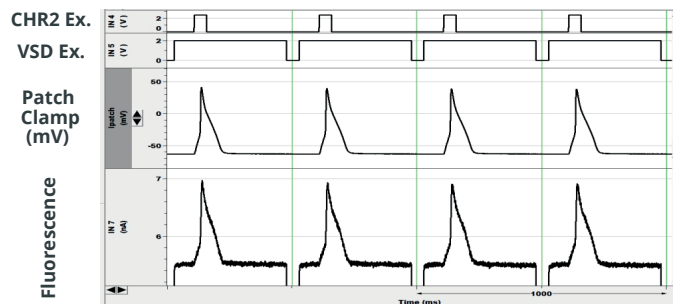


Plate reader simplicity combined with a direct measure of the Action Potential results in a significant cost reduction, both in dollars spent as well as time at the bench and the computer.



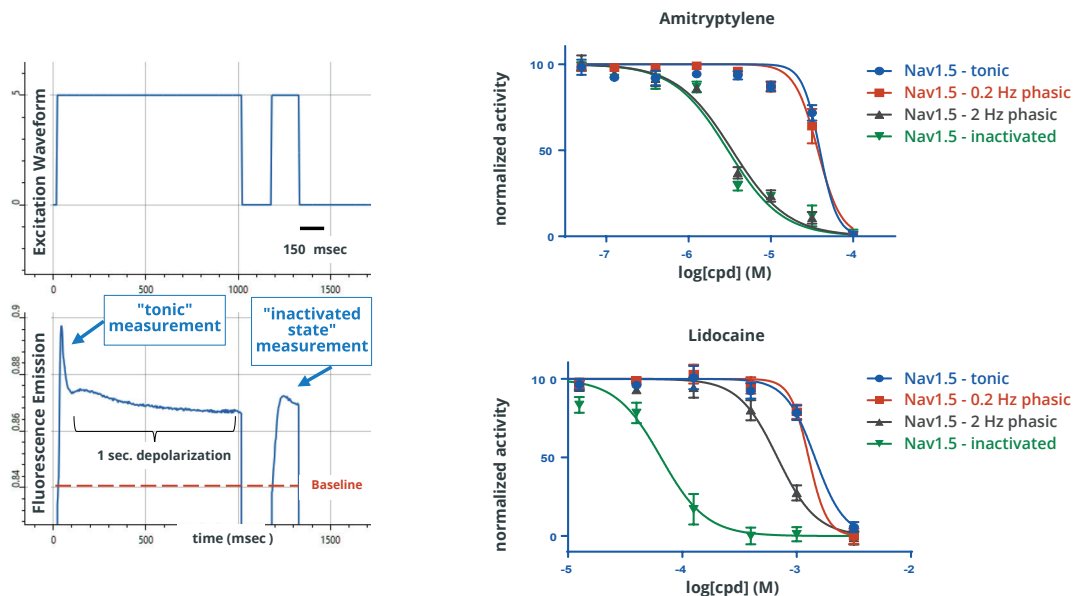
Introduction of the light-activated Channelrhodopsin-2 makes it possible to pace the iPSC cardiomyocytes with 460nm light.

The Photoswitch BOLT system uses a fast, red-shifted voltage sensor, PhoS, that responds instantaneously to membrane potential changes.

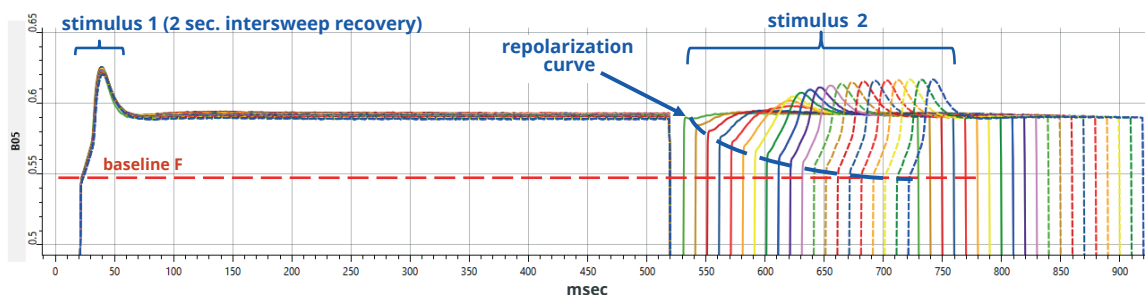


Ion Channel Screening

Precise optical voltage control supports detailed pharmacologic characterization. State-dependent dose response shifts for Nav1.5



Measurement of repolarization or recovery kinetics



Measurement of slow inactivated state

