

Pressrelease

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Fluxion Launches Automated, High-Throughput Patch Clamp Systems for Ion Channel Drug Discovery: IonFlux™ Systems Deliver Tens of Thousands of Data Points per Day

Fluxion Biosciences, a leading provider of functional cell biology platforms, introduces the IonFlux-HT and IonFlux-16 Automated Patch Clamp Systems, bringing significant gains in throughput, workflow simplicity and affordability to ion channel research. These new systems combine Fluxion's proprietary microfluidic technology with integrated electronics to automate the traditional patch clamp assay, the "gold standard" in ion channel research. Ideal applications include primary/secondary screening, lead optimization and toxicology screening.



Ion channels play important roles in cell physiology and are ideal drug targets, but their potential has been largely untapped. Traditional manual approaches to patch clamp assays are time-consuming and skill-sensitive.

The IonFlux-16 is equipped with 16 amplifiers and utilizes a 96-well plate format. Delivering 2,000 data points per day, the IonFlux-16 system is offered at a cost that addresses the unmet needs of many researchers who cannot afford the high price tag of current automated patch clamp systems.

The IonFlux-16 system utilizes standard well-plate formats with integrated microfluidic channels for cell patching and compound addition. The systems employ a familiar plate reader format for simplicity and integration with existing automated liquid handlers. The IonFlux technology automates cell manipulation, trapping, sealing, whole-cell formation and precise voltage protocols. Voltage clamping occurs continuously during all fluidic operations. Automated compound addition during the voltage protocol provides delivery to the cells in 50 milliseconds, making the system ideal for ligand-gated channels.

In order to discuss your specific requirements, simply give us a call or send us an email.

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