CELL Microsystems®

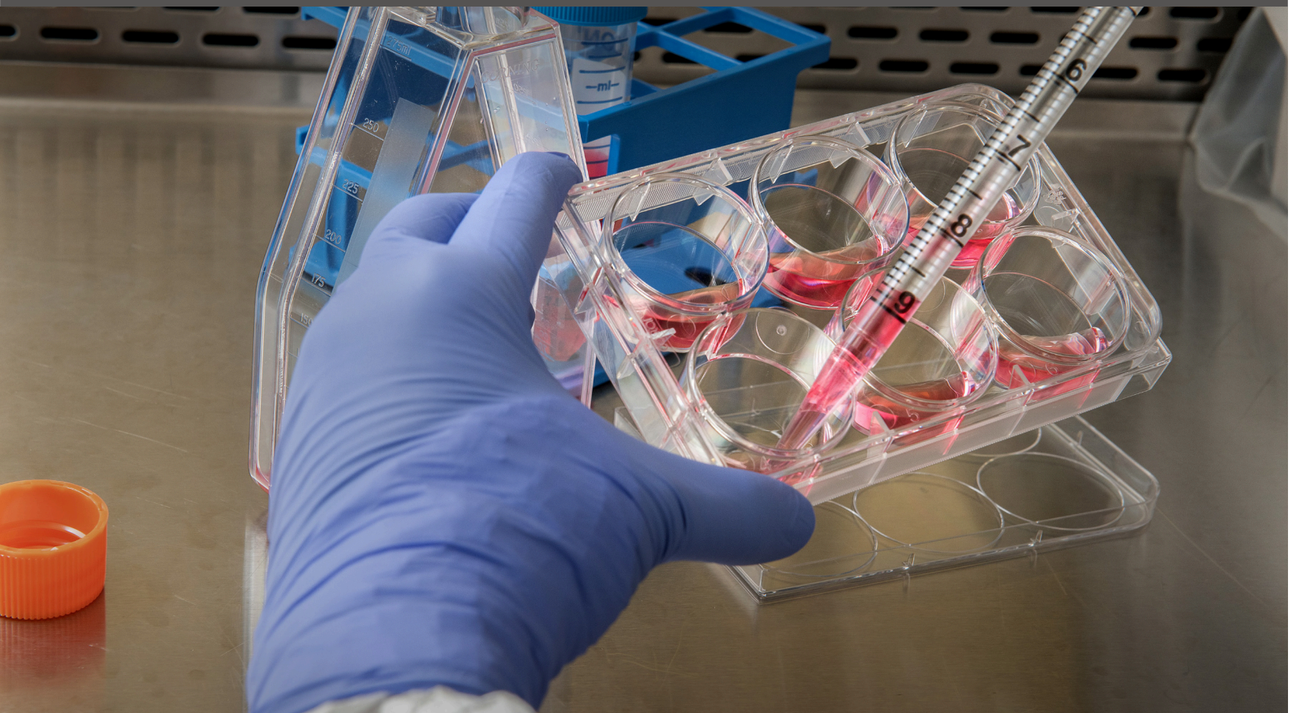
Ion Channels

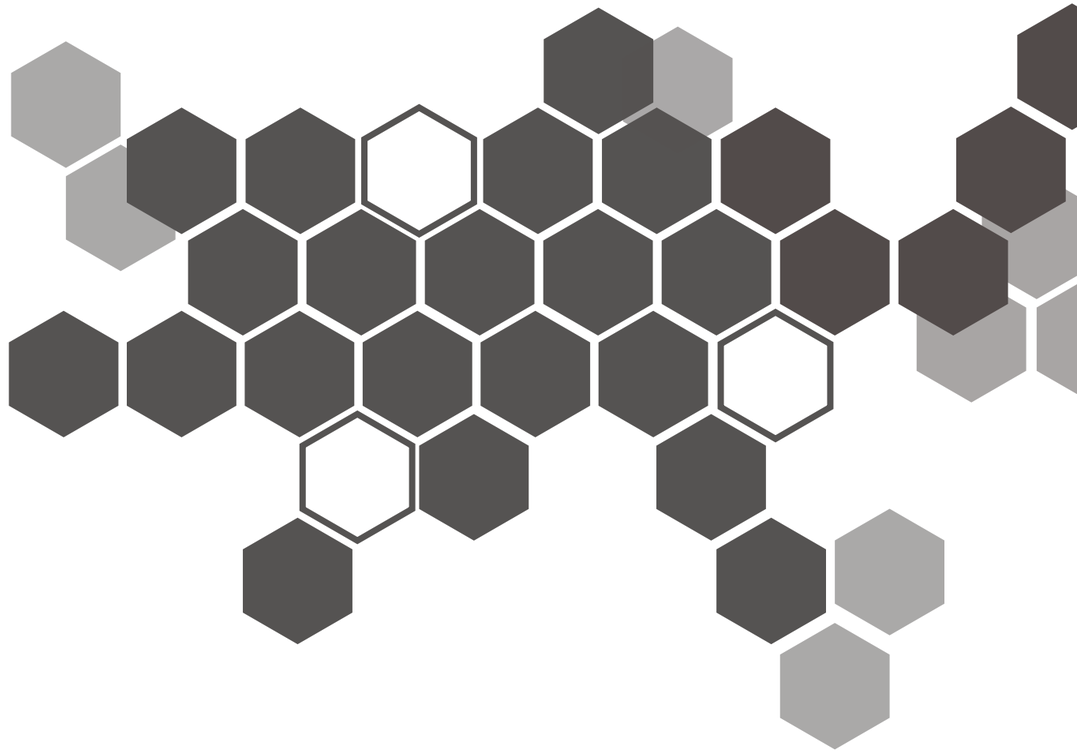
Optimized Cell Lines

Accelerate your automated patch clamp assays with our validated stable cell lines.

Whether you are starting a project or completing an existing one, our validated cell lines can help you get to your goal faster.

Optimized for use with IonFlux Mercury systems, m**Cells** are the fastest way to build stable IonFlux assays in the shortest amount of time. Whether you are purchasing them packaged with a new system or adding them to your exsiting IonFlux workflow, assay development support is availble for m**Cells**.





FLEXIBILITY & ACCESSIBILITY

Ion channels represent a significant target for drug discovery. They play critical roles in many disease conditions including pain, epilepsy, Alzheimer's, and cardiovascular conditions. Patch clamp measurements are essential to ion channel drug discovery.

mCells are stable Human Embryonic Kidney (HEK) cell lines expressing various ligand-gated and voltage-gated ion channels. They have been specially selected for their high ion channel expression, culturing ease, and their stable current production when analyzed using an automated patch clamp system.

Every cell line is delivered in two frozen flasks and comees with extensive information about cell culture and experiment preparation for use on IonFlux Systems.

TARGETS

GABA$_A$ Receptors

Host Cell: **HEK-293** Species: **Human**

α1β2γ2S	*α1β2γ2L*	*α2β2γ2S*	*α2β2γ2S*	*α2β2γ2L*	*α3β2γ2S*
α3β2γ2L	α1β3γ2	α3β2γ2	α4β2γ2	α5β2γ2	α6β2γ2

Nicotonic Receptors

Host Cell: **HEK-293** Species: **Human**

α1/β1/δ/ε	α3/β4	α4/β2	α7/ric3

Voltage-Gated Sodium Channels

Host Cell: **HEK-293** Species: **Human / Rat (Nav 1.8)**

Nav1.1	Nav1.2	Nav1.3	Nav1.4	Nav1.5	Nav1.6
Nav1.7	Nav1.8/β1	Nav1.8			

Voltage-Gated Calcium Channels

Host Cell: **HEK-293** Species: **Human**

Cav2.2 α1B/β3/α2δ1	Cav3.2

TRP Channels

Host Cell: **HEK-293** Species: **Human**

TRPA1	TRPV1	TRPV3	TRPV4

Hyperpolarization-Activated Channels

Host Cell: **HEK-293** Species: **Human**

HCN1	HCN2	HCN3	HCN4

Acid Sensing Channels

Host Cell: **HEK-293** Species: **Human**

ASIC3

TARGETS

Voltage-Gates Poatssium Channels

Host Cell: **HEK-293** Species: **Human**

Kv1.1	Kv1.2	Kv1.3	Kv1.4	Kv1.5	Kv1.6
Kv1.7	Kv1.8	Kv12.2	Kv2.1	Kv2.1/Kv9.2	
Kv3.1	Kv3.2	Kv3.3	Kv4.2/KChIP2		Kv4.3/KChIP1
Kv4.3/KChIP2		Kv7.1/minK		Kv7.2/Kv7.3	
Kv7.3/Kv7.5		Kv7.4	Kv7.4/Kv7.5		Kv11.1 (hERG)

Inward Rectifying Potassium Channels

Host Cell: **HEK-293** Species: **Human**

Kir2.1	Kir6.2/SUR2A

Glutamate Receptors

Host Cell: **HEK-293** Species: **Human**

GluR6

Glycine Receptors

Host Cell: **HEK-293** Species: **Human**

GlyRA1

CFTR

Host Cell: **HEK-293** Species: **Human**

CFTR

All cell lines provided by Eurofins DiscoverX (except of the ones in *italics*)

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SUPPORT

m**Cells** have available support by Cell Microsystems. Assay optimization is available to match your experiment needs. Just contact our team for details.

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