



## Multiwell Cardiac Screen

Our Multiwell Cardiac Screen is a reliable and rapid system to test for drug effects on cardiac function, including QT-interval prolongation and arrhythmia in vitro.

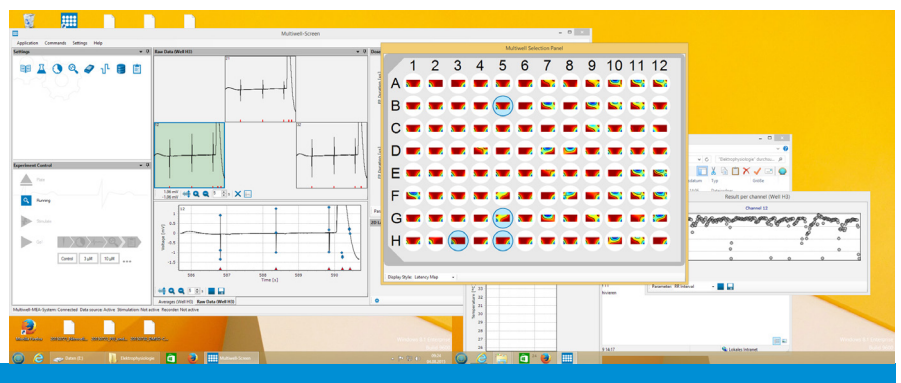
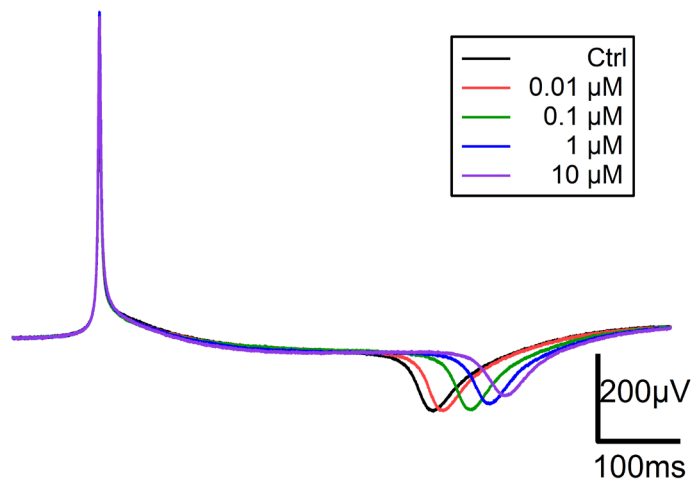
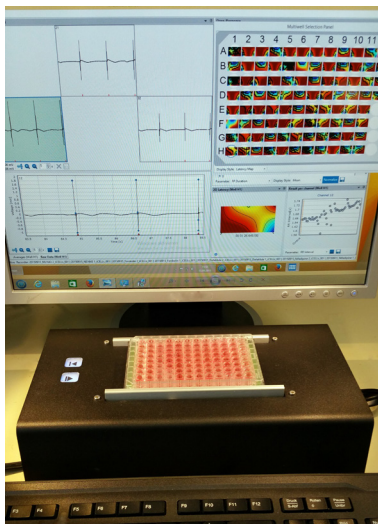
Featuring a 24-, 72- and 96-well plate format, it is especially suited for safety pharmacology and toxicity screenings.

### Cell systems available:

- Human IP stem-cell derived cardiomyocytes
- Primary cardiomyocytes from animal models

The assay is based on the extracellular recording of field action potentials (fAPs) of cardiomyocytes in culture with microelectrode arrays (MEAs). fAPs reflect the concerted activation and inactivation of cardiac ion channels, comparable to an electrocardiogram (ECG) in patients.

Drug-induced effects on cardiac function can be observed in our test system as a prolongation of the fAP duration ("QT-interval in vitro") and/or arrhythmic beating behaviour of the electrically coupled cardiomyocytes. Spontaneous beating behaviour can be recorded as well as beating activity after electrical stimulation.



**NMI TT Pharmaservices**  
Markwiesenstraße 55  
72770 Reutlingen,  
Germany  
Phone +49 7121 51530-0  
Fax +49 7121 51530-16  
[www.nmi-tt.de](http://www.nmi-tt.de)

**Contact**  
**Dr. Udo Kraushaar**  
Phone +49 7121 51530-851  
[kraushaar@nmi-tt.de](mailto:kraushaar@nmi-tt.de)  
**Dr. Timm Danker**  
Phone +49 7121 51530-896  
[danker@nmi-tt.de](mailto:danker@nmi-tt.de)

[www.nmi-tt.de/mea-cardio](http://www.nmi-tt.de/mea-cardio)