

## Lecture Series on Biotechnology Advances

生物技術新知系列講座

### ECIS Z-Quantifying Cell Behavior

The ECIS® Z instrument provides researchers with an advanced, automated, non-invasive instrument capable of monitoring cell behavior in real-time without the use of labels. The ECIS® Z measures the simple impedance spectrum (Z) of adherent cells growing on gold electrodes. The ECIS® Z can be configured to address 16 or 96 independent electrodes patterned in various 1, 2, 8 and 96 well cultureware. The instrument consists of a Z system controller, 16 and/or 96 channel array station, computer and integrated software running on Windows 7 or Mac OS. The ECIS® Z includes the elevated field module to carry out automated wound-healing and electroporation experiments. Optional accessories include:

- The ECIS® flow module consisting of a pump controller and up to 8 peristaltic pumps for specialized cell applications under flow conditions.
- A CO<sub>2</sub> stage incubator to allow simultaneous ECIS® and optical measurements.
- A specially adapted hypoxia chamber to conduct ECIS® experiments in a controlled gas environment.

Date : 2017.06.08 (Thu.)

Time : 11:00 ~12:30

Place : Room 206, 理學院教學館

Speaker : Yu-Teng Hsu



Organizers: Core Facilities for High Throughput Experimental Analysis  
Co-organizers: 1. Institute of Systems Biology and Bioinformatics  
2. Research Center for Adaptive Data Analysis.

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