High Definition Cyclic Voltammetry Software

Technology #20-0028

To accommodate recent and future advances in fast-scan cyclic voltammetry applications, researchers at UNC have developed High Definition Cyclic Voltammetry (HDCV). HDCV is an electrochemical software suite that includes data acquisition and analysis programs. The data collection program delivers greater experimental flexibility and better user feedback through live displays. It supports experiments involving multiple electrodes with customized waveforms. It is compatible with transistor–transistor logic-based systems that are used for monitoring animal behavior, and it enables simultaneous recording of electrochemical and electrophysiological data. HDCV analysis streamlines data processing with superior filtering options, seamlessly manages behavioral events, and integrates chemometric processing. Furthermore, analysis is capable of handling single files collected over extended periods of time, allowing the user to consider biological events on both sub-second and multi-minute time scales.

Related Publications:
• Flexible Software Platform for Fast-Scan Cyclic Voltammetry Data Acquisition and Analysis
  Anal. Chem. 2013, 85, 21, 10344-10353

Inventors

R. Wightman

For additional information, contact

John Rainwater
Commercialization Manager
chance.rainwater@unc.edu
919.445.9371