**Automation of functional assays by flow injection fluorescence microscopy**

Louis D. Scampavia, Peter S. Hodder, Ilkka Lähdesmäki and Jaromir Ruzicka

Bead-injection spectroscopy is a novel technique that uses immobilized eukaryotic cells on microbeads as a renewable biosensor for fluorescence microscopy. The use of a flow injection instrument allows fast functional assays that generate full kinetic characterization of a drug. Because the cell population is automatically replaced for each assay, variability is minimized, thus allowing greater accuracy.

*L. D. Scampavia (scamp@u.washington.edu), P. S. Hodder,*

1. *Lähdesmäki and J. Ruzicka (ruzicka@chem.washington.edu) are at the Department of Chemistry, University of Washington, Box 351700, Seattle, WA 98195-1700, USA.*