

Multi-colour confocal microscopy with the new Hamamatsu MAICO

G.B. Bertholin¹

¹ Univ Rennes, CNRS, IGDR (Institute of Genetics and Development of Rennes), UMR 6290, Rennes, F- 35000 France; ² INSCOPER SAS - Cesson-Sévigné - F-35510 France.

Abstract

HAMAMATSU recently released an entry-level confocal unit that can be easily installed on the C-mount port of any inverted microscope. This bench-top microscopy module comes with 1-4 lasers (405, 488, 561, 638nm) and the most sensitive detectors (GaAsP-PMT).

HAMAMATSU chose INSCOPER to offer a complete solution including the control and acquisition software to equip any microscope configuration.

The purpose of this workshop is to demonstrate the high quality of the images obtained with the MAICO system, and its ease-of-use with Inscoper I.S.

Our guest Dr. Giulia Bertholin (Univ. Rennes, CNRS, Institute of Genetics and Development of Rennes) will show the quantification of mitochondrial protein abundance using dual-color confocal microscopy in cultured cells. Giulia uses a gold-standard paradigm relying on the overexpression of the Parkinson's disease-related protein Parkin in cells treated or not with the mitochondrial stressor Carbonyl Cyanide m-Chlorophenylhydrazone (CCCP). This paradigm is widely known to induce the selective degradation of mitochondrial proteins over time.

Inscoper I.S. is a multi-brand and full-featured image acquisition solution for fluorescence microscopy.

