

Cytometry

Part A

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Technical Note

- 174 Reliability of Confocal Microscopy Spectral Imaging Systems: Use of Multispectral Beads**
Robert M. Zucker, Paul Rigby, Ian Clements, Wendy Salmon, and Michael Chua
Published online 31 January 2007

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On the cover: Emission spectra of four pairs of FocalCheck™ beads (Invitrogen/Molecular Probes) between the 500–800 nm ranges were measured using a PARISS® hyperspectral imaging system. All beads were excited with a mercury arc 436 nm line. The spectrum of each bead in a pair is separated by approximately 10 nm; assigned a pseudo-color, and inserted into a library. This library was then used to identify a field of mixed beads (right panel). Any bead which emits a spectrum that is consistent with a library spectrum is "painted" with the corresponding pseudo-color. See the accompanying article by Zucker et al. on pages 174–189 in this issue.