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Titolo	Correlative imaging : focusing on the future // edited by Paul Verkade, Lucy Collinson
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ISBN	1-119-08643-4 1-119-08644-2 1-119-08642-6
Descrizione fisica	1 online resource (248 pages)
Collana	Royal Microscopical Society - John Wiley series
Disciplina	578
Soggetti	Microscopy - Technique
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	It's a small, small world : a brief history of biological correlative microscopy -- Challenges for CLEM from a Light Microscopy Perspective -- The importance of sample processing for correlative imaging (or, rubbish in, rubbish out) -- 3D CLEM : Correlating Volume Light and Electron Microscopy -- Can correlative microscopy ever be easy? An array tomography viewpoint -- Correlative microscopy using scanning probe microscopes -- Future of CLEM - Integrated Light and Electron Microscopy -- Cryo-correlative light and electron microscopy : Towards in situ structural biology -- Correlative cryo soft X-ray imaging. -- Correlative light- and liquid-phase scanning transmission electron microscopy for studies of protein function in whole cells -- Correlating data from different imaging modalities -- Big data in correlative imaging -- The Future of CLEM : Summary.
Sommario/riassunto	"Correlative Microscopy (CM), or more broadly Correlative Imaging (CI), aims to analyse a single sample by two or more distinct imaging modalities. By doing so, one should be able to extract more scientific insight than would have otherwise been possible using each imaging modality as a stand-alone technique. We have thus coined the term '1 1 = 3' to explain the principle of CI. It should be noted that CI is NOT the process of imaging biological replicates with a variety of imaging

techniques, which would be more properly referred to as comparative imaging"--
