Brings a fresh point of view to the current state of correlative imaging and the future of the field

This book provides contributions from international experts on correlative imaging, describing their vision of future developments in the field based on where it is today. Starting with a brief historical overview of how the field evolved, it presents the latest developments in microscopy that facilitate the correlative workflow. It also discusses the need for an ideal correlative probe, applications in proteomic and elemental analysis, interpretation methods, and how correlative imaging can incorporate force microscopy, soft x-ray tomography, and volume electron microscopy techniques. Work on placing individual molecules within cells is also featured.

Correlative Imaging: Focusing on the Future offers in-depth chapters on: correlative imaging from an LM perspective; the importance of sample processing for correlative imaging; correlative light and volume EM; correlation with scanning probe microscopies; and integrated microscopy. It looks at: cryo-correlative microscopy; correlative cryo soft X-ray imaging; and array tomography. Hydrated-state correlative imaging in vacuo, correlating data from different imaging modalities, and big data in correlative imaging are also considered.

- Brings a fresh view to one of the hottest topics within the imaging community: the correlative imaging field
- Discusses current research and offers expert thoughts on the field’s future developments
- Presented by internationally-recognized editors and contributors with extensive experience in research and applications
• Of interest to scientists working in the fields of imaging, structural biology, cell biology, developmental biology, neurobiology, cancer biology, infection and immunity, biomaterials and biomedicine

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*Correlative Imaging: Focusing on the Future* will appeal to those working in the expanding field of the biosciences, correlative microscopy and related microscopic areas. It will also benefit graduate students working in microscopy, as well as anyone working in the microscopy imaging field in biomedical research.

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