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Altri autori (Persone)	XuXiao-Hong Nancy
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Nota di contenuto	Is one enough? / Andrew C. Beveridge, James H. Jett, and Richard A. Keller -- Dissecting cellular activity from single genes to single mRNAs / Xavier Darzacq, Robert H. Singer, and Yaron Shav-Tal -- Probing membrane transport of single live cells using single-molecule detection and single nanoparticle assay / Xiao-Hong Nancy Xu, Yujun Song, and Prakash Nallathamby -- Nanoparticle probes for ultrasensitive biological detection and imaging / Amit Agrawal, Tushar Sathe, and Shuming Nie -- Tailoring nanoparticles for the recognition of biomacromolecule surfaces / Mrinmoy De ... [et al.] -- Nanoscale chemical analysis of individual subcellular compartments / Gina S. Fiorini and Daniel T. Chiu -- Ultra sensitive time-resolved near-IR fluorescence for multiplexed bioanalysis / Li Zhu and Steven A. Soper -- Ultrasensitive microarray detection of DNA using enzymatically

amplified SPR imaging / Hye Jin Lee, Alastair W. Wark, and Robert M. Corn -- Ultrasensitive analysis of metal ions and small molecules in living cells / Richard B. Thompson -- Electrochemistry inside and outside single nerve cells / Daniel J. Eves and Andrew G. Ewing -- Electrochemiluminescence detection in bioanalysis / Xiao-Hong Nancy Xu and Yanbing Zu -- Single-cell measurements with mass spectrometry / Eric B. Monroe ... [et al.] -- Outlooks of ultrasensitive detection in bioanalysis / Xiao-Hong Nancy Xu.

Sommario/riassunto

An overview of current research and developments in ultrasensitive bioanalysis New platforms of ultrasensitive analysis of biomolecules and single living cells using multiplexing, single nanoparticle sensing, nano-fluidics, and single-molecule detection are advancing every scientific discipline at an unprecedented pace. With chapters written by a diverse group of scientists working in the forefront of ultrasensitive bioanalysis, this book provides an overview of the current status and an in-depth understanding of the objectives and future research directions of ultrasensitive bioanaly
