

1. Record Nr.	UNINA9910798726403321
Autore	Dawkins Richard
Titolo	The extended phenotype : the long reach of the gene // Richard Dawkins ; with a foreword by Daniel Dennett
Pubbl/distr/stampa	Oxford, England : , : Oxford University Press, , 2016 ©2016
ISBN	0-19-250623-4 0-19-250622-6
Descrizione fisica	1 online resource (486 pages)
Disciplina	576.53
Soggetti	Phenotype Evolution (Biology)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and indexes.

2. Record Nr.	UNINA9910298627503321
Titolo	Far-Field Optical Nanoscopy // edited by Philip Tinnefeld, Christian Eggeling, Stefan W. Hell
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2015
ISBN	3-662-45547-1
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (340 p.)
Collana	Springer Series on Fluorescence, Methods and Applications, , 1617-1306 ; ; 14
Disciplina	54 541.2 543.2-543.8 570.282 571.4 620115
Soggetti	Nanochemistry Microscopy Biophysics Nanotechnology Spectrum analysis Biological Microscopy Biological and Medical Physics, Biophysics Spectroscopy/Spectrometry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Christian Eggeling, Stefan W. Hell: STED Fluorescence Nanoscopy -- Ke Xu, Sang-Hee Shim, and Xiaowei Zhuang: Super-Resolution Imaging Through Stochastic Switching and Localization of Single Molecules: An Overview -- Markus Sauer: A Practical Guide to dSTORM: Super-Resolution Imaging with Standard Fluorescent Probes.- Matthew D. Lew, Steven F. Lee, Michael A. Thompson, Hsiao-lu D. Lee, and W. E. Moerner: Single-Molecule Photocontrol and Nanoscopy -- Susan Gayda, Per Niklas Hedde, Karin Nienhaus, and G. Ulrich Nienhaus: Probes for

Nanoscopy: Fluorescent Proteins.- Dmytro A. Yushchenko and Marcel P. Bruchez: Tailoring Fluorescent Labels for Far-Field Nanoscopy -- Pedro F. Aramendia and Mariano L. Bossi: Probes for Nanoscopy: Photoswitchable Fluorophores -- Thorben Cordes, Jan Vogelsang, Christian Steinhauer, Ingo H. Stein, Carsten Forthmann, Andreas Gietl, Jürgen J. Schmied, Guillermo P. Acuna, Sebastian Laurien, Birka Lalkens, and Philip Tinnefeld: Far-Field Nanoscopy with Conventional Fluorophores: Photostability, Photophysics, and Transient Binding -- Gert De Cremer, Bert F. Sels, Dirk E. De Vos, Johan Hofkens, and Maarten B.J. Roeflaers: NASCA Microscopy: Super-Resolution Mapping of Chemical Reaction Centers -- Maximilian H. Ulbrich: Counting Molecules: Toward Quantitative Imaging.- Mario Bramehuber and Gerhard J. Schütz: In Vivo Tracking of Single Biomolecules: What Trajectories Tell Us About the Acting Forces.

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### Sommario/riassunto

This book describes developments in the field of super-resolution fluorescence microscopy or nanoscopy. In 11 chapters, distinguished scientists and leaders in their respective fields describe different nanoscopy approaches, various labeling technologies, and concrete applications. The topics covered include the principles and applications of the most popular nanoscopy techniques STED and (f)PALM/STORM, along with advances brought about by fluorescent proteins and organic dyes optimized for fluorescence nanoscopy. Furthermore, the photophysics of fluorescent labels is addressed, specifically for improving their photoswitching capabilities. Important applications are also discussed, such as the tracking and counting of molecules to determine acting forces in cells, and quantitative cellular imaging, respectively, as well as the mapping of chemical reaction centers at the nano-scale. The 2014 Chemistry Nobel Prize® was awarded for the ground-breaking developments of super-resolved fluorescence microscopy. In this book, which was co-edited by one of the prize winners, readers will find the most recent developments in this field.

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