

Preface

This is the seventh volume in the popular fluorescence series, *Reviews in Fluorescence*. To date, six volumes have been both published and well received by the scientific community.

In this volume, we are pleased again with the broad and timely fluorescence content. We subsequently thank the authors for their very timely and exciting contributions again this year. We hope you will find this volume as useful as past volumes.

In closing, I would like to thank Caroleann Aitken, The Institute of Fluorescence manager, for help in coordinating content with authors and Michael Weston at Springer for help in publishing this current volume, thank you all.

Baltimore, MD, USA

Professor Chris D. Geddes

Contents

How Does Tobacco Etch Viral mRNA Get Translated? A Fluorescence Study of Competition, Stability and Kinetics	1
Dixie J. Goss	
Novel Metal-Based Luminophores for Biological Imaging	15
David Lloyd, Michael P. Coogan, and Simon J.A. Pope	
Fluorescence Correlation Spectroscopy: The Measurement of Molecular Binding	45
Trinh T. Nguyen, Jody L. Swift, and David T. Cramb	
Membrane Fluidity in Yeast Adaptation: Insights from Fluorescence Spectroscopy and Microscopy	67
Robert P. Learmonth	
Synchronous Fluorescence Spectroscopy and Its Applications in Clinical Analysis and Food Safety Evaluation	95
Yao-Qun Li, Xiu-Ying Li, Ali Abbas Falih Shindi, Zhe-Xiang Zou, Qian Liu, Li-Rong Lin, and Na Li	
Modulation of Dye Fluorescence by Photoinduced Intramolecular Charge Transfer with Resonance-Assisted Hydrogen Bond	119
Marcelo H. Gehlen, Emanuelle R. Simas, Robson V. Pereira, and Carolina A. Sabatini	
Hydration Dynamics of Probes and Peptides in Captivity	155
Sourav Haldar and Amitabha Chattopadhyay	
Quantitative Molecular Imaging in Living Cells via FLIM.....	173
Ching-Wei Chang and Mary-Ann Mycek	

Reviews in Fluorescence 2010

Geddes, C.D. (Ed.)

2012, XII, 380 p.,

ISBN: 978-1-4419-9828-6