Drugs
Photochemistry and Photostability

Edited by

A. Albini
Dell' Università Di Pavia, Italy

E. Fasani
Dell' Università Di Pavia, Italy
## Contents

**Photochemistry of Drugs: An Overview and Practical Problems**  
*A. Albini and E. Fasani*  
1

**Medicinal Photochemistry (An Introduction with Attention to Kinetic Aspects)**  
*G.M.J. Beijersbergen van Henegouwen*  
74

**Photoreactivity of Selected Antimalarial Compounds in Solution and in the Solid State**  
*H.H. Tønnesen, S. Kristensen and K. Nord*  
87

**Photochemistry of Diuretic Drugs in Solution**  
*D.E. Moore*  
100

**New Results in the Photoinstability of Antimycotics**  
*K. Thoma and N. Kübler*  
116

**Photoreactivity versus Activity of a Selected Class of Phenothiazines: A Comparative Study**  
*B.D. Glass, M.E. Brown and P.M. Drummond*  
134

**Photoprocesses in Photosensitising Drugs Containing a Benzophenone-like Chromophore**  
*S. Monti, S. Sortino, S. Encinas, G. Marconi, G. De Guidi and M.A. Miranda*  
150

**Photostability of Coumarin**  
*J.M. Lynch and A.M. Zobel*  
162

**Photostabilities of Several Chemical Compounds used as Active Ingredients in Sunscreens**  
*J.M. Allen, S.K. Allen and B. Lingg*  
171

**An Analytical and Structural Study of the Photostability of some Leukotriene B4 Antagonists**  
182
Molecular Mechanisms of Photosensitization Induced by Drugs on Biological Systems and Design of Photoprotective Systems

G. De Guidi, G. Condorelli, L.L. Costanzo, S. Giuffrida, S. Monti and S. Sortino

A Comparison between the Photochemical and Photosensitising Properties of Different Drugs


Photostability of Drug Substances and Drug Products: A Validated Reference Method for Implementing the ICH Photostability Study Guidelines

H.D. Drew

The Elaboration and Application of the ICH Guideline on Photostability: A European View

P. Helboe

Selecting the Right Source for Pharmaceutical Photostability Testing

J.T. Piechocki

Design and Validation Characteristics of Environmental Chambers for Photostability Testing

J. Boxhammer and C. Willwoldt

Design Limits and Qualification Issues for Room-size Solar Simulators in a GLP Environment

P.D. Forbes

Actinometry: Concepts and Experiements

G. Favaro

trans-2-Nitrocinnamaldehyde as Chemical Actinometer for the UV-A Range in Photostability Testing of Pharmaceuticals

E. Bovina, P. De Filippis, V. Cavrini and R. Ballardini

Subject Index