

## Quinolone Antibacterials

Editors  
J. Kuhlmann, A. Dalhoff  
and H.-J. Zeiler



Springer

1st  
edition

Softcover reprint of the  
original 1st ed. 1998, XVIII,  
491 p.

### Printed book

Softcover

### Printed book

Softcover

ISBN 978-3-642-80366-6

\$ 159,00

Available

### Discount group

Professional Books (2)

### Product category

Handbook

### Series

Handbook of Experimental Pharmacology

### Other renditions

Softcover

ISBN 978-3-642-80365-9

Biomedicine : Pharmacology / Toxicology

Kuhlmann, J., Dalhoff, A., Zeiler, H.-J. (Eds.)

## Quinolone Antibacterials

It has been over 30 years since the first clinically important member of the quinolone class, nalidixic acid, was introduced into medical practice. The modification produced in the quinolone nucleus by introducing a fluorine at the 6-position led to the discovery of the newer fluoroquinolones with enhanced antibacterial activities as compared to nalidixic acid. By now a great deal of preclinical and clinical experience has been obtained with these agents. The intense interest in this class of antibacterial agents by chemists, microbiologists, toxicologists, pharmacologists, clinical pharmacologists, and clinicians in various disciplines encouraged us to summarize the information on the history, chemistry, mode of action and in vitro properties, kinetics and efficacy in animals, mechanisms of resistance, toxicity, clinical pharmacology, clinical experience, and future prospects in one volume of the Handbook of Experimental Pharmacology. As this series deals predominantly with "experimental" characteristics of drugs, our volume is dedicated specifically to quinolones and emphasizes principally their preclinical and clinical pharmacological characteristics, despite the existence of several summaries on quinolones. The chemistry of the quinolones is described in detail. The chapter on the mode of action of quinolones reports the conclusive evidence that gyrase is the intracellular target of the quinolones; however, another enzyme, topoisomerase IV, may also be a target for quinolones, and the exact mechanisms by which quinolones act bactericidally are far from being understood.

Order online at [springer.com/booksellers](http://springer.com/booksellers)

Springer Nature Customer Service Center LLC

233 Spring Street

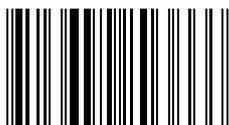
New York, NY 10013

USA

T: +1-800-SPRINGER NATURE

(777-4643) or 212-460-1500

[customerservice@springernature.com](mailto:customerservice@springernature.com)



ISBN 978-3-642-80366-6 / BIC: MMG / SPRINGER NATURE: SCB21007

Prices and other details are subject to change without notice. All errors and omissions excepted. Americas: Tax will be added where applicable. Canadian residents please add PST, QST or GST. Please add \$5.00 for shipping one book and \$ 1.00 for each additional book. Outside the US and Canada add \$ 10.00 for first book, \$5.00 for each additional book. If an order cannot be fulfilled within 90 days, payment will be refunded upon request. Prices are payable in US currency or its equivalent.

Part of **SPRINGER NATURE**