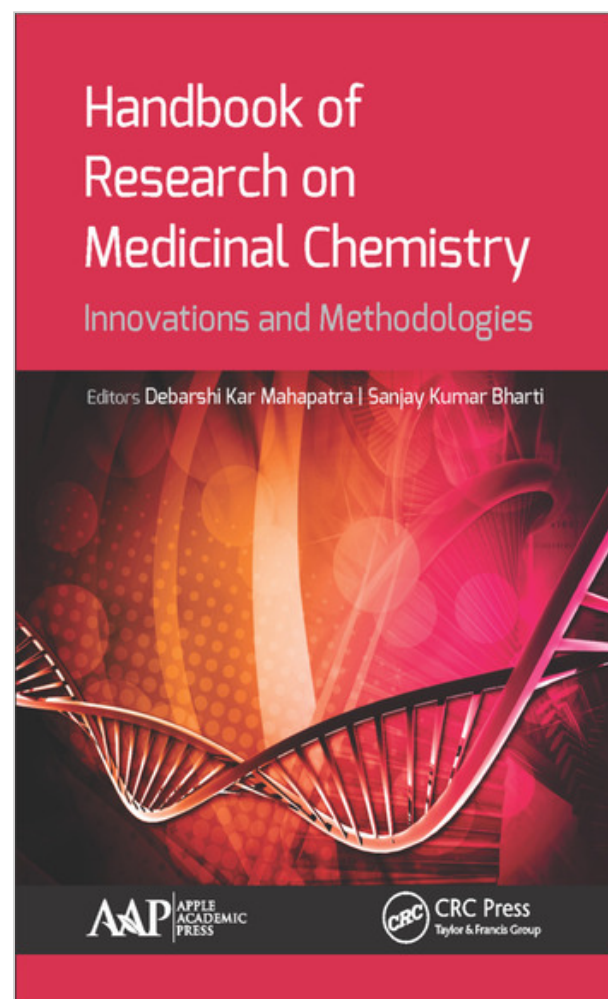


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# Handbook of Research on Medicinal Chemistry

Innovations and Methodologies

*Edited By* [Debarshi Kar Mahapatra](#), [Sanjay Kumar Bharti](#)

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## Book Description

This valuable new book, **Handbook of Research on Medicinal Chemistry: Innovations and Methodologies**, presents some of the latest advancements in the various fields of combinatorial chemistry, drug discovery, biochemical aspects, pharmacology of medicinal agents, current practical problems, and nutraceuticals.

The editors keep the drug molecule as the central component of the volume and aim to explain the associated features essential to exhibiting pharmacological activity. With a unique combination of chapters in biology, clinical aspects, biochemistry, synthetic chemistry, medicine and technology, the volume provides broad exposure to the essential aspect of pharmaceuticals.

The volume many important aspects of medicinal chemistry, including

- techniques in drug discovery
- pharmacological aspects of natural products
- chemical mediators: druggable targets
- advances in medicinal chemistry

The field of medicinal chemistry is growing at an unprecedented pace, and this volume takes an interdisciplinary approach, covering a range of new research and new practices in the field. The volume takes into account the latest therapeutic guidelines put forward by the World Health Organization and the U.S Food and Drug Administration..

Topics include:

- drug design
- drug discovery
- natural products and supplements and nutraceuticals
- pharmaceutical approaches to sexual dysfunction
- drug resistance parasites

- new natural compounds and identification of new targets
- stereochemistry aspects in medicinal chemistry
- common drug interactions in daily practices

**Handbook of Research on Medicinal Chemistry: Innovations and Methodologies** will be a valuable addition to the bookshelves of pharmaceutical scientists and faculty as well as for industry professionals.

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## Editor(s)

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### Biography

**Debarshi Kar Mahapatra, PhD**, is currently an Assistant Professor at Department of Pharmaceutical Chemistry, Kamla Nehru College of Pharmacy, RTM Nagpur University, Nagpur, India. He taught medicinal and computational chemistry at both the undergraduate and postgraduate levels and has mentored students in their various research projects. His area of interest includes computer-assisted rational designing and synthesis of low molecular weight ligands against druggable targets, drug delivery systems, and optimization of unconventional formulations. He has published research, book chapters, reviews, and case studies in various reputed journals and has presented his works at several international platforms, for which he received several awards by a number of bodies. He has also authored a book titled Drug Design. Presently, he is serving as reviewer and editorial board member for several journals of international repute. He is a member of a number of professional and scientific societies, such as the International Society for Infectious Diseases (ISID), the International Science Congress Association (ISCA), and ISEI.

**Sanjay Kumar Bharti, PhD**, is an Assistant Professor in Institute of Pharmaceutical Sciences, Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur. He has working experience in several organizations, such as Win-Medicare Pvt. Ltd, Meerut, India (as a chemist) and the National Institute of Pharmaceutical Education and Research (NIPER), Hajipur (as a lecturer). He has published several research papers, one book, several book chapters and review articles in various reputed journals. His research interest includes synthesis of Schiff's base, heterocyclic compounds, and metallopharmaceuticals for therapeutics. He is an active member of various scientific and pharmaceutical organizations like IPA, IPGA, ISCA, etc. Dr. Bharti has completed a BPharm from IT-BHU, Varanasi, India, in 2003, an M.Pharm from RGPV, Bhopal, India, in 2004, and a PhD from IIT-BHU, Varanasi, India, in 2011.

## Reviews

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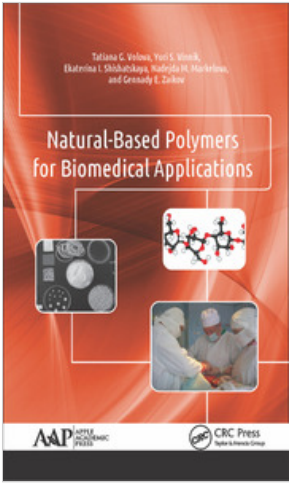
“An excellent resource for cultivating sound research acumen in the area of medicinal chemistry. Unlike most books in the field, this goes beyond purely theoretical knowledge and greatly focuses on experimental procedures and practical approaches to develop a nuance understanding in the field of drug discovery. I thoroughly enjoyed the clear and interesting presentation of the material. Great efforts have been invested to ensure that it is easily accessible to both students and teachers. The book shows promising potential in exploring the field of medicinal chemistry and will prove to be an important aid to the researchers.”

—Neelam Singla, PhD, Director, Accura Research Chemicals Pvt. Ltd., Hyderabad, India

"A valuable book that will deliver newer aspects and applications in the field of medicinal chemistry. . . . A very useful reference book that encompasses various principles and applications associated with medicinal chemistry. [It] integrates insights regarding drug discovery, pharmacological aspects of natural products, druggable targets of chemical mediators, and several classes of medicinal agents. . . . It is a good skillful blend of medicinal chemistry, chemical biology, chemical synthesis, pharmacology, formulation, and miscellaneous subjects."

—From the Foreword by Vivekananda Mandal, PhD, Former WERC Researcher, Government of Japan; Institute of Pharmaceutical Sciences, Guru Ghasidas University (Central University), India

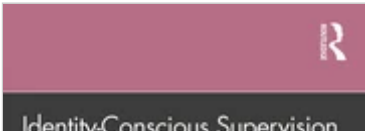
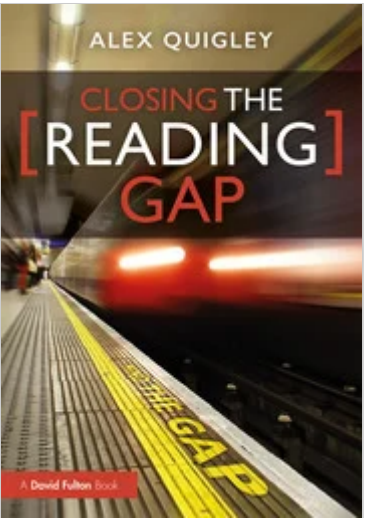
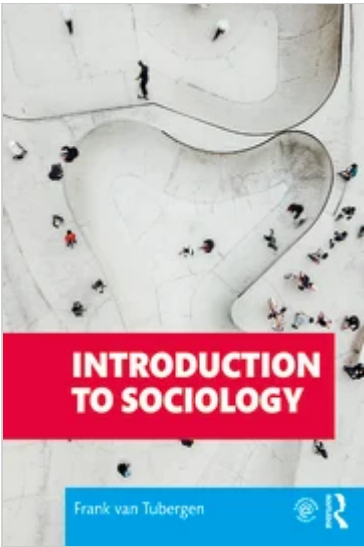
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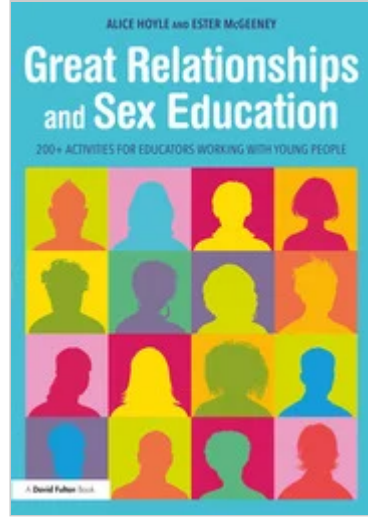
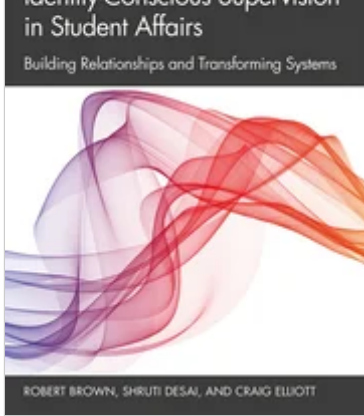
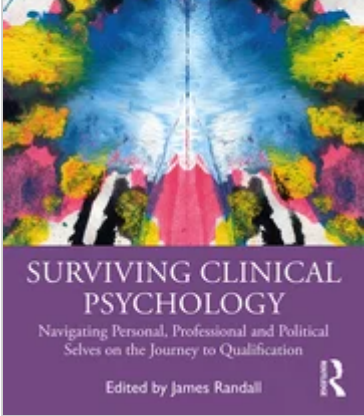


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