



A Comprehensive Guide to Toxicology in Preclinical Drug Development

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A Comprehensive Guide to Toxicology in Preclinical Drug Development is a resource for toxicologists in industry and regulatory settings, as well as directors working in contract resource organizations, who need a thorough understanding of the drug development process. Incorporating real-life case studies and examples, the book is a practical guide that outlines day-to-day activities and experiences in preclinical toxicology. This multi-contributed reference provides a detailed picture of the complex and highly interrelated activities of preclinical toxicology in both small molecules and biologics. The book discusses discovery toxicology and the international guidelines for safety evaluation, and presents traditional and nontraditional toxicology models. Chapters cover development of vaccines, oncology drugs, botanic drugs, monoclonal antibodies, and more, as well as study development and personnel, the role of imaging in preclinical evaluation, and supporting materials for IND applications.

By incorporating the latest research in this area and featuring practical scenarios, this reference is a complete and actionable guide to all aspects of preclinical drug testing.

- Chapters written by world-renowned contributors who are experts in their fields
- Includes the latest research in preclinical drug testing and international guidelines
- Covers preclinical toxicology in small molecules and biologics in one single source

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Editorial Review

Review

"...a wide-ranging overview of various areas of toxicology, covering a relatively novel selection of subject areas that are not normally seen together...This book is reasonably priced...it would be a good addition to a toxicologist's bookshelf or an Institution's library."--**BTS Newsletter, Summer 2013** *"This book will be an important addition to the libraries of researchers in toxicology and related disciplines, and with its comprehensive approach to preclinical toxicology, it will be a key reference for any medical professional interested in drug development."*--**Journal of the American Veterinary Medicine Association, December 15, 2013** *"The first new toxicology text to address both small and large molecules within the drug development process with contributions from leading scientists from around the globe is now available.* Published by Elsevier, *A Comprehensive Guide to Toxicology in Preclinical Drug Development* covers the entire process of preclinical drug testing, beginning with investigative toxicology and includes the evaluation of the toxicologic and pharmacologic effects of new chemical entities, as well as in vitro and in vivo laboratory animal testing."--**Drug Discovery Online, March 29, 2013** *"Incorporating real-life case studies and examples, the book is a practical guide that outlines day-to-day activities and experiences in preclinical toxicology...By incorporating the latest research in this area and featuring practical scenarios, this reference is a complete and actionable guide to all aspects of preclinical drug testing."*--**VeterinaryWorld.org, April 17, 2013**

About the Author

Ali Said Faqi, DVM, PhD, DABT, ATS, is a Senior Director of Developmental and Reproductive Toxicology, a Senior Principal Scientist at MPI Research and an Adjunct Associate Professor at Wayne State University, School of Medicine, Department of OBGYN in Detroit, MI. He received his Ph.D. from the University of Leipzig in Germany in 1995 and D.V.M. from Somali National University. Dr. Faqi earned a diploma of specialization in Experimental Pharmacology from the University of Milan in Italy.

He was a postdoctoral fellow at the Institute of Clinical Pharmacology and Toxicology at the Free University of Berlin-Germany from 1996 till 1998. He worked as a Research Associate at Morehouse School of Medicine in Atlanta, Georgia and at Thomas Jefferson University in Philadelphia, Pennsylvania. Before joining MPI Research, Dr. Faqi was a Senior Scientist at Allergan Pharmaceuticals in Irvine, California and a Research Toxicologist at IIT Research Institute in Chicago, Illinois. He is a Diplomate of American Board of Toxicology (D.A.B.T.) and a Fellow of Academy of Toxicological Sciences (A.T.S.). Dr. Faqi is a member of the Editorial Board of Reproductive Toxicology Journal and ISRN Toxicology. He served as a Board of Scientific Counselors (BOSC) Computational Toxicology at the United States Environmental Protection Agency (US EPA) from September, 2009-September, 2010. He is also a member of Scientific Advisory Board of the Alzheimer's Art Quilt Initiative (AAQI).

Dr. Ali Faqi is ad-hoc scientific reviewer for the scientific journals (Regulatory Pharmacology and Toxicology, Toxicology Journal, System Biology in Reproductive Medicine, Pesticide Biochemistry and Physiology, PLoS ONE and Birth Defects Research Part B: Developmental & Reproductive Toxicology). He is a Visiting Professor at the University of Palermo, Italy. In 2009, Dr. Faqi was a guest speaker at King Fahd Medical Research Center in King Abdiaziz University, Jeddah (Saudi Arabia) where he lectured on

Preclinical Toxicology.

He is a past chairman of the membership committee of the Teratology Society and a past President of Michigan Society of Toxicology. Currently, he is the chairman of the Education Committee of the Teratology Society (2012-2013) and the Vice President of Toxicologists of African Origin (2012-2013). He has published over 100 technical and scientific papers and authored and co-authored 7 book chapters.

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