

Preface

The chemistry of drug discovery revolves primarily around the use of carbon, hydrogen, nitrogen, oxygen, sulfur, and phosphorus. Over time, nontraditional elements have been incorporated into drug-like compounds for a number of purposes, for instance to slow metabolism or to impart novelty. As a demonstration of the validity of this approach, several examples of compounds containing nontraditional elements have advanced into human clinical trials. This volume will survey three nontraditional elements (B, Si, Se), providing perspective not only on the general properties they impart to organic molecules but also on their utility in specific drug classes.

South San Francisco, CA, USA

Jacob Schwarz

Atypical Elements in Drug Design

Schwarz, J. (Ed.)

2016, VII, 158 p. 90 illus., 18 illus. in color., Hardcover

ISBN: 978-3-319-27740-0