Contents

1 Modeling Tumor Growth in Oncology .......................... 1
   Peter L. Bonate

2 Drug–Drug Interactions: Designing Development Programs
   and Appropriate Product Labeling ............................ 21
   J. Matthew Hutzler, Jack Cook, and Joseph C. Fleishaker

3 Modeling the Progression of Disease .......................... 57
   Diane R. Mould

4 The Use of Dried Blood Spots for Concentration Assessment
   in Pharmacokinetic Evaluations ............................... 91
   Tapan K. Majumdar and Danny R. Howard

5 Microdosing: Pharmacokinetic and Metabolism Data Early
   in the Drug Development Process .............................. 115
   Graham Lappin

6 Metabolite Testing in Drug Development ........................ 131
   Angus N.R. Nedderman and Don K. Walker

7 The -Omics in Drug Development ................................ 145
   Majid Y. Moridani, Robyn P. Araujo, Caroline H. Johnson,
   and John C. Lindon

8 Optimal Design of Pharmacokinetic–Pharmacodynamic
   Studies .............................................................. 175
   Lee-Kien Foo and Stephen B. Duffull

9 Pharmacokinetic Studies in Pregnant Women ................... 195
   Jamie L. Renbarger and David M. Haas

10 Design, Conduct and Analysis of Thorough QT Studies ....... 211
    Tanya Russell, Daniel S. Stein, and David J. Kazierad

11 Contribution of Quantitative Whole-Body
    Autoradioluminography to the Early Selection
    and Development of Drug Candidates .......................... 243
    Alain Schweitzer
<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>Pharmacokinetics, Modeling, and Simulation in the Development of Sunitinib Malate: A Case Study</td>
<td>261</td>
</tr>
<tr>
<td></td>
<td>Brett E. Houk and Carlo L. Bello</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>The Clinical Significance of Drug Transporters in Drug Disposition and Drug Interactions</td>
<td>285</td>
</tr>
<tr>
<td></td>
<td>Thomas N. Thompson</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Index</td>
<td>315</td>
</tr>
</tbody>
</table>
Pharmacokinetics in Drug Development
Advances and Applications, Volume 3
Bonate, P.L.; Howard, D.R. (Eds.)
2011, XII, 319 p. 6 illus. in color., Hardcover
ISBN: 978-1-4419-7936-0