

---

## Contents

<b>Modeling the Cell Division Cycle</b> <i>Baltazar D. Aguda</i> .....	1
<b>Angiogenesis-A Biochemical/Mathematical Perspective</b> <i>Howard A. Levine and Marit Nilsen-Hamilton</i> .....	23
<b>Mathematical Modelling of Proteolysis and Cancer Cell Invasion of Tissue</b> <i>Georgios Lolas</i> .....	77
<b>Mathematical Modelling of Spatio-temporal Phenomena in Tumour Immunology</b> <i>Mark Chaplain and Anastasios Matzavinos</i> .....	131
<b>Control Theory Approach to Cancer Chemotherapy: Benefiting from Phase Dependence and Overcoming Drug Resistance</b> <i>Marek Kimmel and Andrzej Swierniak</i> .....	185
<b>Cancer Models and Their Mathematical Analysis</b> <i>Avner Friedman</i> .....	223