

Contents

Preface	vii
Developmental Biology and Mathematics: The Rules of an Embryo BERTA ALSINA, ADRIÁN L. GARCÍA DE LOMANA, JORDI VILLÀ-FREIXA AND FERNANDO GIRÁLDEZ	1
From Lineage to Shape: Modeling Dorsal-Ventral Specification in the Developing Mouse Limb CARLOS G. ARQUES AND MIGUEL TORRES	13
Notch-Mathics RITA FIOR AND DOMINGOS HENRIQUE	27
Modelling Tumour-Induced Angiogenesis: A Review of Individual-Based Models and Multiscale Approaches TOMÁS ALARCÓN	45
Tumour Radiotherapy and Its Mathematical Modelling ANTONIO CAPPUCCIO, MIGUEL A. HERRERO AND LUIS NUÑEZ	77
Multiphase and Individual Cell-Based Models of Tumour Growth J. GALLE AND L. PREZIOSI	103