

# Contents

---

<i>List of contributors</i>	vii
<i>Preface</i>	xiii
Introduction: Inventing life: intellectual property and the New Biology <i>Alison McLennan and Matthew Rimmer</i>	1
PART I A HISTORY OF BIODISCOVERY	
1 Of plants, pills and patents: circulating knowledge <i>Eva Hemmungs Wirtén</i>	39
PART II MEDICINE, BIOTECHNOLOGY AND GENOMICS	
2 <i>Bilski v. Kappos</i> and biotechnology patents: back to the future? <i>Yann Joly and Francis Hemmings</i>	63
3 The current state of patent eligibility of medical and biotechnological inventions in the United States <i>Joshua D. Sarnoff</i>	84
4 Patent law, the emerging biotechnologies and the role of language in subject-matter expansionism <i>Graham Dutfield</i>	117
PART III BIOBANKS, BIOINFORMATICS AND BIOBRICKS	
5 Standards for biobank access and intellectual property <i>Dianne Nicol and Richard Gold</i>	133
6 The 1000 Genomes Project <i>Donna M. Gitter</i>	158
7 Building with BioBricks: constructing a commons for synthetic biology research <i>Alison McLennan</i>	176

**PART IV GENETICS, STEM CELLS AND  
NANOTECHNOLOGY**

- |    |   |     |
|----|---|-----|
| 8  | Regulating gene regulation: patenting small RNAs<br><i>Adam Bostanci, Jane Calvert and Pierre-Benoit Joly</i> | 205 |
| 9  | Stem cell patents: looking for serenity<br><i>Amina Agovic</i>  | 228 |
| 10 | Cosmo, Cosmolino: patent law and nanotechnology<br><i>Alison McLennan and Matthew Rimmer</i>                  | 255 |

**PART V BIODIVERSITY, FOOD SECURITY AND CLIMATE  
CHANGE**

- |    |   |     |
|----|---|-----|
| 11 | Patenting the Kakadu plum and the Marjarla tree: biodiscovery,<br>intellectual property and Indigenous knowledge<br><i>Sarah Holcombe and Terri Janke</i> | 293 |
| 12 | Climate-ready crops: intellectual property, agriculture and<br>climate change<br><i>Matthew Rimmer</i>  | 320 |
| 13 | The Doomsday Vault: seed banks, food security and climate<br>change<br><i>Matthew Rimmer</i>  | 361 |
|    | <i>Bibliography</i>   | 392 |
|    | <i>Index</i>  | 457 |