CONTENTS

List of Figures x
List of Tables xiii
List of Contributors xvi
Foreword xxix
Hu Zhijian xxxi
Foreword xxxiii
Pippa Hall
Foreword xxxv
Bart Verspagen
Preface

PART I Setting the Context 1
1 The Evolving Role of Public R&D and Public Research Organizations in Innovation 3
Suma Athreye and Sacha Wunsch-Vincent
Comment 1.1 25
Fabio Montobbio
Comment 1.2 30
Lien Verbauwhede Koglin

Anthony Arundel and Sacha Wunsch-Vincent
Comment 2.1 68
Bhaven Sampat
Comment 2.2 73
Ragan Robertson
Comment 2.3 76
Rosemary Wolson

vii
# Table of Contents

3 Measuring Global Patenting of Universities and Public Research Institutes  
**Juan Yang, Intan Hamdan-Livramento, Bruno Le Feuvre, Sacha Wunsch-Vincent, and Hao Zhou**

**Part II**  
Selected Comparative Country Studies  139

4 United Kingdom  
**Federica Rossi and Suma Athreye**  
141

5 Germany  
**Dirk Czarnitzki and Georg Licht**  
182

6 Republic of Korea  
**Keun Lee and Hochul Shin**  
226

7 Brazil  
**Fernanda de Negri and Cristiane Vianna Rauen**  
263

8 China  
**Baoming Chen, Can Huang, Chunyan Peng, Minglei Ding, Ning Huang, Xia Liu, and Juan Yang**  
299

9 South Africa  
**Michael Kahn**  
328

**Part III**  
The Way Forward  359

10 Policies and Practices for Supporting Successful Knowledge Transfer from Public Research to Firms  
**Anthony Arundel**  
361

Comment 10.1  
**Henri J. M. Theunissen**  
386

Comment 10.2  
**Kerry Faul**  
389
<table>
<thead>
<tr>
<th>CONTENTS</th>
<th>ix</th>
</tr>
</thead>
<tbody>
<tr>
<td>11 Policy Recommendations: Aiming for Effective Knowledge Transfer Policies in High- and Middle-Income Countries</td>
<td>393</td>
</tr>
<tr>
<td>SUMA ATHREYE AND FEDERICA ROSSI</td>
<td></td>
</tr>
<tr>
<td>Comment 11.1</td>
<td>418</td>
</tr>
<tr>
<td>ANTONOR CESAR VANDERLEI CORRÊA AND FERNANDA MAGALHÃES</td>
<td></td>
</tr>
<tr>
<td>Comment 11.2</td>
<td>422</td>
</tr>
<tr>
<td>SI KYONG SUNG</td>
<td></td>
</tr>
<tr>
<td>12 Toward a Comprehensive Set of Metrics for Knowledge Transfer</td>
<td>425</td>
</tr>
<tr>
<td>ANTHONY ARUNDEL AND NORDINE ES-SADKI</td>
<td></td>
</tr>
<tr>
<td>Comment 12.1</td>
<td>452</td>
</tr>
<tr>
<td>PHILIPPE KUHUTAMA MAWOKO</td>
<td></td>
</tr>
<tr>
<td>Comment 12.2</td>
<td>457</td>
</tr>
<tr>
<td>GIANCARLO CARATTI</td>
<td></td>
</tr>
<tr>
<td>Comment 12.3</td>
<td>460</td>
</tr>
<tr>
<td>AMIT SHOVON RAY</td>
<td></td>
</tr>
<tr>
<td>Index</td>
<td>475</td>
</tr>
</tbody>
</table>