Development for Sustainable Agriculture
The Brazilian Cerrado

Edited by

Akio Hosono
Senior Research Adviser, Japan International Cooperation Agency
Research Institute (JICA-RI), Japan

Carlos Magno Campos da Rocha
Former President, Brazilian Agricultural Research Corporation (EMBRAPA), Brazil

and

Yutaka Hongo
Former Senior Adviser, Japan International Cooperation Agency (JICA), Japan
Contents

List of Figures vii
List of Tables ix
Foreword x
Akihiko Tanaka
Foreword xii
Alysson Paulinelli
Acknowledgements xiv
Note on Cover Image xvii
Map of Cerrado xviii
Notes on Contributors xx
List of Abbreviations xxi

Introduction: Development of Cerrado Agriculture 1
Akio Hosono, Carlos Magno, and Yutaka Hongo

Part I Development of Cerrado Agriculture

1 Technological Innovations That Made Cerrado Agriculture Possible 11
Akio Hosono and Yutaka Hongo

2 Establishment and Early Development: PRODECER Sets Agricultural Development in the Cerrado on Track 35
Akio Hosono and Yutaka Hongo

3 Development of Cerrado Agriculture: The Path to Becoming a Major Global Breadbasket 61
Akio Hosono and Yutaka Hongo

4 The Impact of Cerrado Development: Stable Food Supply and Socially Inclusive Development with Value Chains 91
Akio Hosono and Yutaka Hongo
vi  Contents

5  Cerrado Agriculture and the Environment  114
   Akio Hosono and Yutaka Hongo

Part II  Technological and Institutional Innovations
   That Enabled Sustainable Cerrado Agriculture

6  EMBRAPA: Institutional Building and Technological
   Innovations Required for Cerrado Agriculture  139
   Eliseu Alves

7  CPAC: A Model for an R&D System for Tropical Agriculture  157
   Elmar Wagner, Wenceslau J. Goedert, and
   Carlos Magno Campos da Rocha

8  Environment-Friendly Land Use of the Cerrado  197
   Edson Eyji Sano

9  PRODECER: An Innovative International Cooperation
   Program  220
   Roberto Rodrigues

10 Role of CAMPO in PRODECER: A Successful
    "Coordination" Model for Agricultural Development  235
    Emiliano Pereira Botelho

Index  251