

Marines Marli Gniech Karasawa *Editor*

Reproductive Diversity of Plants

An Evolutionary Perspective and
Genetic Basis

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ISBN 978-3-319-21253-1 ISBN 978-3-319-21254-8 (eBook)

DOI 10.1007/978-3-319-21254-8

Library of Congress Control Number: 2015947777

Springer Cham Heidelberg New York Dordrecht London

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Printed on acid-free paper

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(www.springer.com)

I DEDICATE

To God for all the inspiration and strength granted.

*To my parents Albano and Teresinha for the
life lessons.*

To my teachers for the valuable lessons.

*To my beloved daughter Eliane for all the
encouragement and dedication.*

Marines Marli Gniech Karasawa

Preface

The evolution of biology, and the genetics of the diversity of reproductive system in plants is important to understand, conserve, and manage plant genetic resources where the reproductive system plays the major tool in the maintenance of the structure and genetic diversity in natural plant populations.

The *Reproductive Diversity of Plants: An Evolutionary Perspective and Genetic Basis* is divided into two topics. In the first chapter, we present a comprehensive approach of the most important steps on the evolution of plant reproductive systems considering the earth condition at that time. In the second chapter, we discussed about the biology and genetics of the asexual and sexual plant reproductive system.

The book has several unique components, including the treatment of the succession of earth's environmental conditions over the Phanerogamic as well as the biology and the genetics mechanisms underlying plant reproductive systems.

Piracicaba, SP, Brazil

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Acknowledgments

The organizer expresses her gratitude to the professionals who collaborated in this project, reviewing the chapters. Gratitude and appreciation are extended also to the co-authors, to the Department of Genetics of “Luiz de Queiroz” College of Agriculture, University of São Paulo, Brazil, and to Prof. Roland Vencovsky for the ideas and encouragement given to construct this book.