

**Call for Book Chapters/Research Papers for Edited Books**  
*To be published with ISBN under IIP International publishers,USA and India*

# **Advances in Plant Breeding Systems**



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### **Important dates:**

Chapter/paper submission starts on: 1<sup>st</sup> January 2024  
Last date for chapter/paper submission: 15<sup>th</sup> March 2024  
Acceptance notification: 30<sup>th</sup> March 2024  
Last date for registration: 25<sup>th</sup> February 2024

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## Call for Chapters Advances in Plant Breeding Systems

### Aims and Scope:

The book focuses on the advanced principles, plant breeding methodologies and procedures in developing a complex population; MAS for selecting qualitative and quantitative traits, Gene pyramiding, marker-based utilization of Germplasm and introgression lines/libraries. Advances in the reproductive biology of crops, advances in male sterility, self-incompatibility, apomixes, genetic and molecular bases and its application in plant breeding. The book will be useful for post graduate students, researchers and teachers engaged in Plant sciences.

**Aim:** Comprehensions on advances in plant breeding systems.

### List of topic:

- Advances in the reproductive biology of crop plants
- Advances in plant breeding methodologies
- Principles and procedures involved in the formation of a complex population
- Genetic resources and its utilization in crop improvement
- Genetic and molecular base of Self-incompatibility
- Incongruity: Factors influencing incongruity
- Genetic and molecular bases of male sterility
- Fertility restoration in male sterile lines and restorer diversification programs; Conversion of agronomically ideal genotypes into male sterile: Concepts and breeding strategies
- Self- incompatibility and male sterility: potential in plant breeding – case studies
- Genetic and molecular mechanism of apomixis
- Use of apomixis in heterosis breeding
- Breeding for bio-fortification
- Breeding for climate change
- Advances in genetic engineering technologies: Genome editing and its application in crop improvement.

### Author Benefits:

1. Selected chapters (not all) will be indexed in RSquareL and other indexing platforms including Amazon, Google Books etc.
2. Publication of chapter in book series with ISBN / ISSN
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