

Call for Book Chapters for Edited Book (To be published with ISBN)

Elements of Plant Breeding



Aim & Scope of the Book:

Plant breeding is critical for the genetic improvement of crop plants in relation to their economic value to humans. The primary goal of this text book is to provide systematic theoretical knowledge on the use of numerous plant breeding techniques in a straightforward manner that students can understand easily. This book is prepared with a primary focus on the undergraduate and postgraduate courses offered by major Indian agricultural universities recognised by ICAR. All of these principles are covered in the current book, "Elements of Plant Breeding." We hope that students, instructors, and researchers interested in plant breeding and genetics will find this book informative.

Editorial Board



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Chapter Submission Procedure

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Important Dates

Call for Chapters
Start Date: 01 August 2022
Last Date of Chapter Submission: 31 August 2022

Content

1. Plant Breeding: Aims, Scope & Importance
2. Domestication, Introduction and Acclimatization of Plants
3. Modes of Reproduction and Pollination Control
4. Oligogenic & Polygenic Characters
5. Biometrical Techniques in Plant Breeding
6. Selection in Self Pollinated Crops
7. Genetic Composition of Cross Pollinated Crops
8. Selection in Cross Pollinated Crops
9. Techniques & Consequences of Hybridization
10. Heterosis and Inbreeding Depression
11. Mass & Pureline Selection
12. Pedigree & Bulk Method
13. Backcross Breeding: Conventional & Molecular Approach
14. Population Improvement Approaches
15. Breeding for Biotic Stress Resistance
16. Breeding for Abiotic Stress Resistance
17. Mutation Breeding in Crop Improvement
18. Polyploidy Breeding in Plant Breeding
19. Distant Hybridization in Plant Breeding
20. Transgenic Breeding
21. Ideotype Breeding
22. Invitro Techniques in Plant Breeding
23. Hybrid Seed Production
24. Release of New Varieties
25. Maintenance Breeding
26. Intellectual Property Rights
27. Glossary
28. Appendices
29. National & International Institutes / Organizations associated with Plant Breeding Research

GUIDELINES FOR AUTHORS

1. **Format & Style for Book Chapter:** All Book chapters must be typed on A4 size (font Times New Roman, size 12) in 1.5 spaces in a single column with at least one-inch margin on all sides. Authors should submit single word files that contain the following information.

- Title of the Book Chapter (Font size 14, Bold, middle alignment)
- Author Name & Designation, Phone Number, Email (Font size 12)
- Abstract
- Keywords (Should be arranged in chronological order)
- Introduction
- Chapter Content with suitable figures/illustration/photographs/charts (avoid directly copy pasting it from other authors because of copyrights and plagiarism)
- References
- Chapters should be within 10-25 pages.

2. **Language:** English

3. **Publication fee** is Rs.2000/- for Indian Authors & \$30 USD for the rest of the world.

4. **Plagiarism** should be below 25%

5. **References:** References to the literature cited in the manuscript should be numbered in order of appearance in the manuscript and cited in the text with superscript numbers. The reference number should follow the following format.

For Journals Format: Author(s) of article (surname initials). Title of the manuscript. Full name of the Journal (Avoid using shortforms). Year of publication; volume number (issue number): page numbers.

Standard journal article (If more than six authors, the first six shall be listed, followed by et al.)

Example: Gupta MP, Sharma K, Khan BU, Kapoor BC, Bajpai PK, Kumar A et al. Tissue specific esterase isozyme variation in *Clarias batrachus* and *C. gariepinus*. *Global Journal of Pharmacology*. 2009; 3(1):1-5.

For Books and other monograph Format: Author AB, Author BB, Author CC. Title of Book. Ed, Vol, Publisher, City, year, page numbers.

Example: Nadkarni KM. *Indian Materia Medica*. Edn 3, Vol. I, Popular Prakashan, Mumbai, 2000, 242-246.

For Patent Reference: Gupta PK, Garg M. Submicron emulsions as ocular drug delivery vehicles, U.S. Patent US 5496811; 1996.