

Designed to **inform** and **inspire** the next generation of **plant biotechnologists**

Plant *Biotechnology and Genetics* explores contemporary techniques and applications of plant biotechnology, illustrating the tremendous potential this technology has to change our world by improving the food supply. As an introductory text, its focus is on basic science and processes. It guides students from plant biology and genetics to breeding to principles and applications of plant biotechnology. Next, the text examines the critical issues of patents and intellectual property and then tackles the many controversies and consumer concerns over transgenic plants. The final chapter of the book provides an expert forecast of the future of plant biotechnology.

Each chapter has been written by one or more leading practitioners in the field and then carefully edited to ensure thoroughness and consistency. The chapters are organized so that each one progressively builds upon the previous chapters. Questions set forth in each chapter help students deepen their understanding and facilitate classroom discussions.

Inspirational autobiographical essays, written by pioneers and eminent scientists in the field today, are interspersed throughout the text. Authors explain how they became involved in the field and offer a personal perspective on their contributions and the future of the field. The text's accompanying CD-ROM offers full-color figures that can be used in classroom presentations with other teaching aids available online.

This text is recommended for junior- and senior-level courses in plant biotechnology or plant genetics and for courses devoted to special topics at both the undergraduate and graduate levels. It is also an ideal reference for practitioners.

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Cover image created by Jason Abercrombie, Blake Joyce, and Reggie Millwood at the University of Tennessee.

About the Cover: Agroinfiltration of a *Nicotiana glauca* leaf was performed in the shape of a P and B using *Agrobacterium* strain GV3850 harboring a 35S-mGFP5-ER construct under the control of the 35S promoter rendering green fluorescence that was photographed under a UV spotlight in an otherwise darkened room.

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