Land Plants - Trees, Vol 74. Advances in Botanical Research

Description: Advances in Botanical Research publishes in-depth and up-to-date reviews on a wide range of topics in plant sciences. Currently in its 74th volume, the series features several reviews by recognized experts on all aspects of plant genetics, biochemistry, cell biology, molecular biology, physiology, and ecology. This volume features reviews on the advances in knowledge for the main traits important in fruit trees and forest trees, the advances in tools and resources for genetics and genomics in these species, and the knowledge developed in three rather separated communities of researchers: forest, fruit trees, and grapevines.

- Provides an update of the knowledge related to plant biology for the main traits for forest and fruit trees
- Provides an update about the tools available for the study of this category of plants
- Gives a general view of research results obtained in two separate research communities, fruit trees and forest trees

Contents: Whole Genome Sequencing of Fruit Tree Species
David Chagné
Forest Tree Genomics: Review of Progress
Geneviève J. Parent, Elie Raherison, Juliana Sena and John J. MacKay
Acceleration of Forest and Fruit Tree Domestication by Genomic Selection
Fikret Isik, Satish Kumar, Pedro J. Martínez-García, Hiroyoshi Iwata and Toshiya Yamamoto
Population and Conservation Genomics in Forest and Fruit Trees
Filippos A. Aravanopoulos, Ioannis Ganopoulos and Athanasios Tsafaratis
Genetics and Genomics of Tree Architecture
Evelyn Costes and Jean-Marc Gion
The Genetic Control of Bud-Break in Trees
Albert G. Abbott, Tatyana Zhebentyayeva, Abdelali Barakat and Zongrang Liu
Tree Responses to Environmental Cues
Ingo Ensminger, Christine Yao-Yun Chang and Katharina Bräutigam
Molecular Signatures of Adaptation and Selection in Forest Trees
Juan P. Jaramillo-Correa, Julien Prunier, Alejandra Vázquez-Lobo, Stephen R. Keller and Alejandra Moreno-Letelier

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