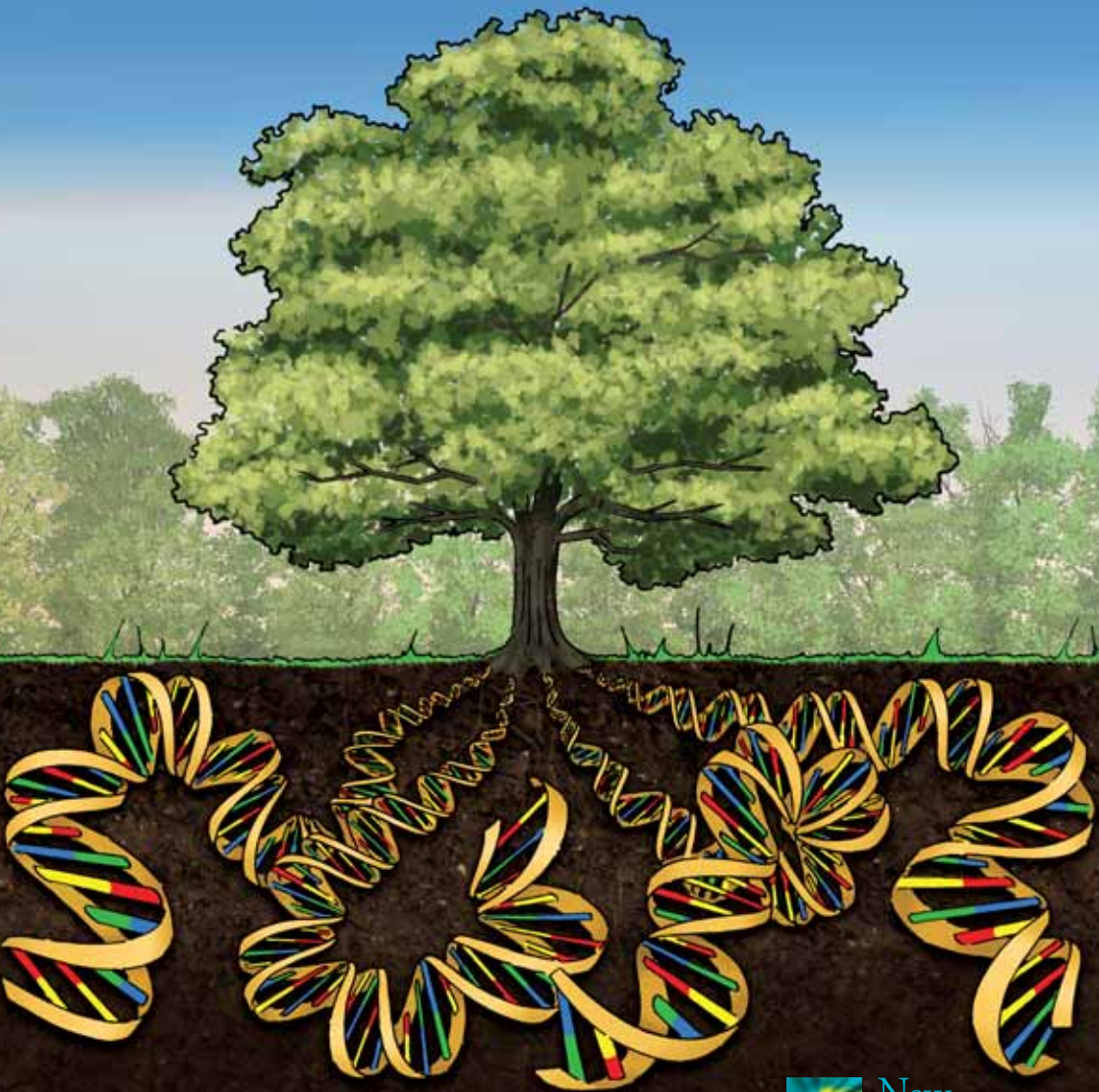


35th New Phytologist Symposium

The genomes of forest trees: new frontiers of forest biology

Arnold Arboretum of Harvard University, Boston, MA, USA

16–17 June 2015



www.newphytologist.org



New
Phytologist

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Scope

New genomic technologies are bringing previously intractable but fascinating aspects of forest tree biology to the forefront of plant biology. Completed and ongoing sequencing projects are providing extensive expressed gene and even full genome sequence resources for tree species from diverse taxa. At the same time, creative applications of genomic and sequencing technologies are producing tools capable of probing the fundamental processes responsible for woody growth and other unique biological processes in trees. Among the most promising but largely unexplored areas of research is the use of comparative evolutionary genomics approaches that can illuminate key regulatory processes and how they have evolved over macro- and micro-evolutionary history. For example, the evolutionary innovations leading to the vast array of woody growth forms in extant plants are almost entirely unknown at the genetic level, but could soon be elucidated using comparative genomics approaches.

We will bring together researchers who are exploring the frontiers of tree evolution, ecology, and development using next generation sequencing, genomics, and systems biology approaches. Together, we hope to inspire new ideas for collaborative research that will bring together currently disjoint research communities, and usher in a new era of genome-based forest biology. Ultimately, the approaches and insights from genome-based forest biology will inform us how to address problems ranging from forest conservation during climate change to tailoring of tree-based biofuels feedstocks.

Symposium format

The symposium will take place over two days at the Arnold Arboretum of Harvard University, Boston, MA, USA. There will be dedicated time for discussions, posters, selected poster talks, a conference dinner and a tour of the Arboretum's collections.



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Confirmed speakers and discussion leaders

Siobhan Brady University of California, Davis, USA

Peter Crane Yale University, New Haven, USA

Taku Demura Nara Institute of Science and Technology, Nara, Japan

Steve DiFazio West Virginia University, Morgantown, USA

Carl Douglas University of British Columbia, Vancouver, Canada

William Friedman Arnold Arboretum of Harvard University, Boston, USA

Ykä Helariutta University of Helsinki, Helsinki, Finland

Isabelle Henry University of California, Davis, USA

Nathalie Isabel Natural Resources Canada, Canadian Forest Service, Québec, Canada

Catherine Kidner University of Edinburgh, Edinburgh, UK

Francis Martin INRA, Nancy, France

David Neale University of California, Davis, USA

Steve Strauss Oregon State University, Corvallis, USA

Nathanial Street Umeå University, Umeå, Sweden

Jill Wegrzyn University of Connecticut, Storrs, USA

Matthew Zinkgraf USDA Forest Service, Davis, USA

Organisation

William Friedman Arnold Arboretum of Harvard University, Boston, USA

Andrew Groover USDA Forest Service and University of California, Davis, USA

Contact

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The New Phytologist Trust is a non-profit making organisation dedicated to the promotion of plant science.

Complete details and registration at
www.newphytologist.org