



27th Session of the International Commission on Poplars and Other Fast Growing Trees Sustaining People and the Environment (IPC) of the Food and Agriculture Organization of the United Nations (UN FAO), 22-25 October 2024 | Bordeaux, France

“Poplars and other fast-growing trees for climate change mitigation and adaptation - pathways to climate resilience and carbon neutral societies”

Working Party on Genetic Resources (WP-GEN)

Technical Program

Wednesday, 23 October 2024

8:30 - 10:00

Oral presentations | Key Talks | Breeding I

Moderator: Raju Soolanayakanahally - Agriculture and Agri-Food Canada, Indian Head Research Farm, Canada

Breeding strategies for improving poplar resistance to Woolly Poplar Aphid
Chiara Biselli, CREA-FL, Council for Agricultural Research and Economics – Forestry and Wood, Italy

Accelerating Willow Breeding and Deployment (AWBD)
William Macalpine, Rothamsted Research, UK

ICFRE Research Programme on Poplar and Willow Culture in North India
Dinesh Kumar, ICFRE, India
(pre-recorded video)

10:00 - 10:30

Coffee

10:30 - 12:00

Oral presentations | Breeding II

Moderator: Raju Soolanayakanahally

Hybrid Poplar Research Program in Minnesota: A Brief History
Andrej Pilipovic, Natural Resources Research Institute (NRRI), University of Minnesota Duluth, USA

Performance of experimental and commercial poplar clones in a wide-spaced field trial assessed at age 6-8 years and at 19-21 years.
Ian McIvor, Plant & Food Research, New Zealand



Endophytes for increasing plant resilience to climate change

Morgan Raimondo, University of Washington, USA

What are Fast growing species? Some inputs from REINFFORCE Network

Christophe Orazio, IEFC, France

12:00 - 13:00

Lunch

13:00 - 13:30

Posters Session

13:30 - 13:50

Poster presentations in the WP | Breeding II (5-minute oral presentations)

Moderator: Ian McIvor - Plant & Food Research, New Zealand

Upper cut application of IBA powder formulation improve white poplar rooted cuttings' survival and growth

Branislav Kovačević, Institute of Lowland Forestry and Environment (ILFE), Serbia

Study on the genotype × spacing of large-diameter *Populus × canadensis* in northern China

Ning Liu, Chinese Academy of Forestry, Research Institute of Forestry, China

Bouturage horticole des *Eucalyptus* sp. en République du Congo : acquis et perspectives de recherche.

François Mankessi, Université Marien NGOUABI, République du Congo

Multiplexed genetic markers to identify black poplar (*Populus nigra* L.)

Kateřina Podrábská, Silva Tarouca Research Institute for Landscape and Ornamental Gardening, Publ. Res. Inst., Czech Republic

13:50 - 15:00

Oral presentations | Breeding III

Moderator: Andrej Pilipovic - NRRI, University of Minnesota Duluth., USA

Black poplar and its current state in the Czech Republic

Petra Štochlová, Silva Tarouca Research Institute for Landscape and Ornamental Gardening, Publ. Res. Inst., Czech Republic

Genetic variation and genotypic selection for low-nitrogen tolerance in poplar varieties and hybrid offspring

Li Jinhua, Research Institute of Forestry, Chinese Academy of Forestry
(pre-recorded video)

Exploring wood anatomy plasticity in selected willow clones with differential critical flood tolerance in the Paraná Delta, Argentina

Sabrina Loyal, National Institute for Agricultural Technology (INTA), Argentina)
(pre-recorded video)



Behavior of different clones of *Populus deltoides* in Rivadavia, Mendoza, Argentina.

Silvina Pérez, National University of Cuyo, Argentina
(pre-recorded video)

Breeding of willows in Argentina, focused on growth, adaptation and multiple uses.

Teresa Cerrillo, National Institute for Agricultural Technology (INTA), Argentina
(pre-recorded video)

15:00 - 15:30

Coffee

15:30 - 17:00

Oral presentations | Key Talks | Genomics

Moderator: Raju Soolanayakanahally - Agriculture and Agri-Food Canada, Canada

Genome-wide methylome stability and parental effects in the worldwide distributed Lombardy poplar

An Vanden Broeck, Research Institute for Nature and Forest, Belgium

Poplar Genomics: Unlocking the Potential of a Versatile Tree

Ilga Porth, Université Laval, Canada

Karyotype analysis of native and exotic male and female clones from various Poplar species in the Karaj Arboretum, IRAN.

Seyed Mohsen Hesamzadeh Hejazi, Research Institute of Forests and Rangelands (RIFR), Iran

17:00 - 18:00

WP GEN Business Meeting

Moderators: Ian McIvor - Raju Soolanayakanahally

Thursday, 24 October 2024

8:30 - 10:00

Oral presentations | Key Talks | Health I

Moderator: William Macalpine, Rothamsted Research

Unlocking the secrets of survival: Pioneering strategies to conquer phenological mismatch and climate maladaptation

Raju Soolanayakanahally, Agriculture and Agri-Food Canada, Indian Head Research Farm, Indian Head, Saskatchewan, Canada



Impact of stress on the response of male and female trembling aspen in North America

Barb Thomas, University of Alberta, Canada

Poplars facing drought: synthesis and future opportunities

Régis Fichot, Université d'Orléans, France

10:00 - 10:30 Coffee

10:30 - 11:45 Oral presentations | Health II

Moderator: Ian McIvor - Plant & Food Research, New Zealand

Integrated assessment of late frosts and summer drought risk under climate change: Novel framework in provenance selection applied to balsam poplar in Central Canada

Raju Soolanayakanahally, Agriculture and Agri-Food Canada, Indian Head Research Farm, Indian Head, Saskatchewan, Canada

Content of eight heavy metals in poplar and willow clones cultivated in pots using soil from a landfill sites.

Lazar Kesić, Institute of Lowland Forestry and Environment (ILFE), Serbia

Black alder genotypes with high level of resistance against *Phytophthora ×alni*

Marek Štochl, Silva Tarouca Research Institute for Landscape and Ornamental Gardening, Publ. Res. Inst., Czech Republic

Analyse de la stabilité en plantation contrastée des performances de l'hybride *Eucalyptus urophylla* × *E. grandis* issues du programme d'amélioration des eucalyptus du Congo

Chrissy Garel Makouanzi Ekomono, ENSAF, CRDPI, IRF, Institut National de Recherche Forestière, République du Congo.

11:45 - 12:00 Poster presentations in the WP Session | Health II (5-minute oral presentations)

Moderator: Julia Kuzovkina, University of Connecticut, USA

Nitrogen and starch stock in poplar unrooted poles

Alain Berthelot, INRAE, France

Aphid colonization and the physiological reactions of several poplar clones

Leopold Poljakovic-Pajnik, Institute of Lowland Forestry and Environment (ILFE), Serbia



12:00 - 13:00 **Lunch**

13:00 - 13:30 **Posters Session**

13:30 - 15:00 **Oral presentation | Key Talk | Taxonomy, nomenclature and registration**

Moderator: Raju Soolanayakanahally - Agriculture and Agri-Food Canada, Indian Head Research Farm, Canada

An update on the cultivar registration of *Populus*, *Salix* and other fast-growing trees

Julia Kuzovkina, University of Connecticut, USA

Question and discussion on Taxonomy and Registration

15:00-15:30 **Coffee**

15:30 – 17:00

17:00 - 18:00 **WP GEN Business Meeting**

Moderators: Moderators: Raju Soolanayakanahally - William Macalpine

*Teresa Cerrillo
Chairperson WP-GEN
27 IPC*