

IPS VII Poster Presentations

Genetics, Breeding and Conservation of Genetics Resources

Genetic Improvement of Poplar and Prospects for Poplar Cultivation in Belgium	Steenackers Marijke, Michiels Boudewijn, De Clercq Wim and Schamp Kurt
Phenological adaptation of poplars to Nordic climate conditions	Karacic Almir, Adler Anneli.
Results from clonal trials with poplars bred for climates in Sweden and Baltic Sea region	Adler Anneli, Karacic Almir, Christersson Lars, Johansson Ulf
Evolution origin of a substantial fraction of plant regulatory sequences from pseudogenes	Xie Jianbo and Zhang Deqiang
Performances of poplar clones grown in marginal environments of Southern Italy with Short Rotation Coppice model	Facciotto Gianni, Bergante Sara, Nervo Giuseppe, D'Andrea Laura, Mastrorilli Marcello
Collection and characterization of the native species <i>Salix humboldtiana</i> Willd in the Delta of Paraná, towards their conservation and improvement.	Cerrillo Teresa; Torales Susana; Pomponio Florencia; Loyal Sabrina and Victorio Dieta
Populations genetic diversity analysis as support for native willow rescue in Argentina	Pomponio Florencia; Cerrillo Teresa; Gallo Leonardo; López Micaela; Torales Susana
Selection of autochthonous white poplar (<i>Populus alba</i> L.) for the production of biomass in short rotation	González, I; González-González, B; Oliveira, N; de la Iglesia, JP; Parras, A; Peñuelas, JL; Cañellas, I; Sixto, H
Promotion of <i>Populus</i> outside customary cultivation zone for livelihood improvement in India	Tomar Anita, Srivastav Anubha, Pandey Abhijeet and Kumar Dinesh
Breeding of <i>Populus deltoides</i> in Argentina: first results of the network of comparative trials planted in 2017	Monteverde, María Silvana and Cortizo, Silvia
The International Cultivar Registration Authorities (ICRAs) for <i>Populus</i> L. and <i>Salix</i> L.	Kuzovkina Julia A., Vietto Lorenzo
<i>Trichomes</i> and glands of Russian <i>Populus</i> species and their significance for diagnostics and systematics	Feodorova T.A, Ipatova D.A., Alexandrov O.S.
Poplar clones obtained through hybridizations by the Institute of Agricultural Technology of Argentina are consolidating as an alternative for future plantations of the Paraná Delta.	Cortizo Silvia, Monteverde María Silvana and Abbiati Nora.

Molecular Biology

BSA-Seq: An efficient tool to characterize loci involved in the Poplar leaf rust resistance.	Canaguier Aurélie and Jorge Véronique, Guérin Vanina, Rogier Odile, Le Clainche Isabelle, Chauveau Aurélie, Marquand Elodie, Bérard Aurélie, Le Paslier Marie-Christine, Bastien Catherine, Segura Vincent and Faivre-Rampant Patricia.
RNA editing in <i>Populus</i> mitochondrial transcripts	Kersten Birgit, Georg Brenner Wolfram, Mader Malte, Hönicka Hans, Schroeder Hilke, Müller Niels Andreas and Fladung Matthias.
Chito-Pop: Improvement of mycorrhiza symbiosis and <i>Melampsora</i> spp. resistance by CRISPR/Cas9 modification of LysM-RLK proteins	Heier Khira and Hoffmann Petra and Fladung Matthias.
JAZ proteins in Poplar: Exploring the comparative phylogenetic, molecular evolutionary and functional analysis in <i>Populus trichocarpa</i> and <i>Arabidopsis thaliana</i>	Caliri-Ortiz Maria Emilia, Fontboté Marta, Dawei Ma, Ballaré Carlos L., Constabel Peter.
Variation in Growth and DNA Methylation Patterns of a Full-sib Alloheteroploid Population in Poplar	Wang Jun, Zheng Yunfei, Cui Xiaotong, Wang Lvji

Genetic architecture underlying the lignin biosynthesis pathway involves non-coding RNAs and transcription factors for growth and wood

Quan Mingyang and Zhang Deqiang

Alkaline/Neutral invertase gene family in *Populus tremula*.

Briones María V., Kolman María A., Battaglia Marina, Sharry Sandra E. and Salerno Graciela L.

PtoWRKY40 direct regulate lignin biosynthesis and negative regulate lignin biosynthetic pathway in *Populus tomentosa*.

Li Shaofeng, Zhao Shutang, Wen Jialong, Zhang Jianhui, Zhang Raoxiang, Zhang Yongan, Liu Xue, Li Quanzi, Hu Jianjun, He Chaoying, Su Xiaohua and Lu Mengzhu.

Physiology

Morphological and physiological responses during the post-flooding period of *Salix matsudana* Koidz.

Mozo Irina, Rodríguez María Emilia; Monteoliva Silvia¹ and Luquez Virginia M.C.

Root-system characteristics of plantation-grown *Populus tomentosa* adapted to seasonal fluctuation in the groundwater table

Di Nan, Liu Yang, Mead Donald J., Xie Yuqi, Jia Liming, Xi Benye, Chen Zhong.

Plant Pathology

Preliminary assays in the selection of *Populus deltoides*, *Enterolobium contortisiliquum* and *Peltophorum dubium* by leafcutter ants

Gorosito Norma Beatriz, Caccia Fernando Daniel, Lois Marcelo, Garau Ana María

Hemiptera Pests of Salicaceae present in Mendoza, Argentina

Holgado Miriam, Quiroga Viviana, Navas Florencia, Luque Carolina, López Plantey Rodrigo, Riquelme Andrés, Calderón Alberto, Coscarón María del Carmen

Use of a push-pull strategy for management of leaf cutting ants in Salicaceae plantations of the Delta del Paraná wetland.

Perri DV, Gorosito NB, Casaubon E, Schilman P, Fernández PC.

Environmental applications

Environmental applications of Poplar plantation in India

Sharma S. K.

Estimation of emissions and sinks of greenhouse gases by poplar plantations in forest ecosystems of Kyrgyzstan

Chyngozhoev Nurstan, Razhapbaev Muslim, Chyngozhoeva Bermet

Production potential of various wheat varieties and soil nutrient status under poplar based agroforestry system in Indo-gangetic plains of northern India

Sirohi Chhavi, Singh Bangarwa Kulvir, Dhillon Ravinder Singh and Chavan Sangram Bhanudas

Selection and performance of native willow clones for restoration of salt impacted sites in the Athabasca Oilsands of Alberta, Canada

Krygier Richard, Blank Martin, Startsev Natalia.

Development of products that reduce borate leaching in Poplar wood.

Ibañez Claudia M., Camargo Alvaro, Gherscovic Damian and Camera Ricardo

Conservation strategies application in forestry of the Delta of the Paraná River, Argentina.

Fracassi, Natalia Gabriela y Somma Daniel.

Management

A pilot study of poplar plantations optimal rotation period and its growth dynamics under different planting densities.

Hjelm Birger, Johansson Tord, Persson Per-Ove, Verwijst Theo

Above- and below-ground biomass allocation in poplar short rotation coppice under moderate maritime climate (non-irrigated) and Mediterranean climate (irrigated)	Oliveira Nerea, Berhongaray Gonzalo, Rodríguez-Soalleiro Roque, Pérez-Cruzado César, Cañellas Isabel, de la Iglesia Jose Pablo, Sixto Hortensia and Ceulemans Reinhart
Volume equations for plantation <i>Populus deltoides</i> and <i>Salix spp.</i> clones in Paraná Delta region, Argentina.	Achinelli Fabio, Cellini Juan Manuel, Fosco Ignacio, Nassar Gustavo, Carazzo Cristhian, Schapovaloff Juan
Poplar Outlook in Midst of Farmers of Eastern Uttar Pradesh in India-A Case Study	Tomar Anita and Srivastav Anubha
Relationship between leaf traits and growth in poplar clones: ¿large leaves, great number or longer vegetative period?	Garau Ana, Guarnaschelli Ana, Cortizo Silvia, Barrera Fernandez Evangelina.
Thermal treatment in poplar wood. Physical effects.	Cunha Ferré Alejandro, Arduini Emiliano, Ghercovic Damián, Riquelme Claudia
Germplasm conservation of Himalayan Poplar- <i>Populus ciliata</i> through conventional seed storage	Thapliyal Manisha
When the extension is a tool for forest development in the territories: Main lines of work INTA-UNNOBA	Signorelli Alejandro, Ferrere Paula, Clara Cobas Ana
Yield stability analysis of four poplar clones at the Paraná River Delta, Argentina	Alvarez, Javier A., Cortizo Silvia, Monteverde Silvana and Gyenge Javier
An evaluation of hybrid poplar clones productivity in high forest and short rotation coppice plantations	Tripathi Abhishek M., DesRochers Annie, Štochlová Petra, Fischer Milan, Orság Matěj, Novotná Kateřina, Trnka Miroslav, Klem Karel, Marek Michal V.
Nandi INTA and Pytá INTA: the last clones selected by the National Institute of Agricultural Technology of Argentina	Cortizo Silvia and Monteverde María Silvana

New Bioeconomies

New sulfated compounds from willow.	Noletto-Dias Clarice, Lomax Charlotte, Bellisai Alice, Ward Jane L., Beale Michael H.
Obtaining conversion factors in solid Salicaceae wood.	Carazzo Cristhian Pablo, Fosco Ignacio Raúl, Nassar Gustavo Cesar and Schapovaloff Juan Ramón
Heat treatment influence on poplar wood hardness	Spavento Eleana, Taraborelli Carla, Raffaeli Natalia, Refort Ma. Mercedes, Acuña Luis, Keil Gabriel
Potential of poplar wood for use as biofuel.	Raffaeli Natalia, Spavento Eleana, Taraborelli Carla, Tonello María Laura, Keil Gabriel.
Initiative Bio-economy Argentina: the importance of poplars culture.	Sharry Sandra and Galarco Sebastián.
An integrated lignocellulosic bioenergy and bioproduct platform from sustainable bioremediation opportunities.	Pitre Frédéric E., Brereton Nicholas J.B., Jerbi Ahmed, Sas Eszter, Krygier Richard, Blank Martin, Johnston Chris, Sarrazin Mathieu, Adjallé Koukou, Boumghar Yacine, Labrecque Michel and Barnabé Simon.
<i>Populus deltoides</i> -based agroforestry system under semi-arid condition in north-western India: an economic analysis.	Chavan Sangram Bhnaudas, Dhillon Ravinder Singh, Bangarwa Kulvir Singh, Kumari Susheel, Bharadwaj Krishan and Sirohi Chhavi
Poplar and other fast-growing tree culture in India	Srivastav Anubha and Tomar Anita
Evolution of biomass production with poplar hybrids in southern Europe	Sixto H, Grau JM, Eugenio, ME, Ibarra D, Hernandez JJ, Monedero E, Oliveira N, Otero, JM3; Cañellas, I.