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Born 22th january 1960 at Annaba (Algeria), French

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Academic Qualifications: Habilitation Degree (HDR), 1995/ PhD Thesis in Pant Physiology, 1985- University Toulouse, France

Appointments: Sept 04 to Sept 05, Invited Professor at Laval University (Québec, Canada)/1997- present, Research Director CNRS (DR2), Toulouse/1988-1996 CNRS scientist/1987-1988 EEC Postdoctoral fellowship Imperial Chemical Industries (Runcorn, UK)

Research Projects

J Grima-Pettenati (JGP) has a long-standing experience in molecular biology of lignin biosynthesis in woody species (Eucalyptus, poplar). She participated in pioneer work aimed at modifying lignin content in plants of economic importance by genetic engineering in the frame of two European projects (OPLIGE & TIMBER). The current objective of her team is to get a better understanding of the genetic control of wood formation and quality in Eucalyptus. Functional genomic approaches are being developed to identify and characterise major players involved in wood formation with a particular emphasis on transcriptional and post-transcriptional regulators. This on going work has great relevance to the current proposal and the team has all necessary expertise to complete the project objectives. JGP participated in more than **20** projects (European, National, bi-tri lateral…), is currently involved in the FP7 project RENEWALL "Improving plant cell walls for use as renewable industrial feedstock". She is the **coordinator** of the running ERAPG project **EUCANET** [2007-2010], "Eucalyptus genomics research network for improved wood properties and adaptation to drought" (8 partners, 3 countries). JGP has already successfully collaborated/published with several partners involved in TreeforJoules (P2, P3, P4, P8, P9, P10). JGP has supervised **11** PhD theses including **2** in co-supervision with Laval University (Canada), has more than **70** publications including **55** in peer-reviewed international journals, one patent based on biotechnical applications of improved plant biomass production for pulp and paper industry, one public database **EUCAWOOD** (eucalyptus xylem unigenes: http://polebio.scsv.ups-tlse.fr/eucalyptus/eucawood/). She is member of the scientific committee of the 2011 IUFRO meeting in Brazil.

List of 5 publications relevant to the proposal

Foucart C, Jauneau A, Gion JM, Amelot N, Martinez Y, Panegos P, **Grima-Pettenati J**, Sivadon P
(2009) Overexpression of EgROP1, a Eucalyptus vascular-expressed Rac-like small GTPase affects secondary xylem formation in Arabidopsis thaliana.
New Phytol
183: 1014-1029 (IF =5.25)

Rengel D, San Clémente H, Servant F, Ladouce N, Paux E, Wincker P, Couloux A, Sivadon P, **Grima-Pettenati J**
(2009). A new genomic resource dedicated to wood formation in Eucalyptus. BMC Plant Biology 9:36 (IF=4.03)

Leplé JC, Dauwe R, Morreel K, Storme V, Lapierre C, Pollet B, Naumann A, Kang KY, Kim H, Ruel K, Lefèbvre A, Joseleau JP, **Grima-Pettenati J**, De Rycke I, Andersson-Gunnerås S, Erban J, Fehrle I, Petit-Conil M, Kopka J, Polle A, Messens E, Sundberg B, Mansfield S, Ralph J, Pilate G, Boerjan W (2007) Down-regulation of cinnamoyl-coenzyme A reductase in poplar (Populus tremula x P.alba); multiple level phenotyping reveals effects on cell wall polymer metabolism and structure. Plant Cell 19:3669-3691 (IF =9.653)

Goicoechea M, Lacombe E, Legay S, Milhaevic S, Rech P, Jauneau A, Lapierre C, Pollet B., Verhaegen D, Chaubet-Gigot N, **Grima-Pettenati J** (2005) EgMYB2, a new transcriptional activator from Eucalyptus xylem, regulates secondary cell wall formation and lignin biosynthesis. Plant J 43:553-567(IF = 6.75)

Paux E, Carocha V, Marques C, Mendes de Sousa A., Borralho N, Sivadon P, **Grima-Pettenati** J (2005) Transcript profiling of Eucalyptus xylem genes during tension wood formation. New Phytol 167:89-100