

PROFILE

NAME SURNAME, Dr.Lise JOUANIN

Nationality: French

Date of birth (Optional): 01/06/1946

Participation in COST Action FP0905:

Chose the one is applicable for you: Member of WP2, STSM Coordinator

ESR at the time of starting the Action: Yes

Contact data:

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Personal webpage (if available)

Institute web page: <http://www-ijpb.versailles.inra.fr/>

Research area and species (key words): genetic engineering, *secondary cell wall*, *poplar*, lignin, *poplar*, *Arabidopsis thaliana*, *Brachypodium distachyon*

CURRICULUM VITAE (Max 2 pages)

Present position

CNRS Research Director

Education/Professional Career

Year 1986	PhD .
1986:	Chargé de recherché CNRS 1ère cjasse
1991	Directeur de recherche CNRS 2ème classe
2004	Directeru de recherche CNRS 1ère classe

Others

Year	Responsible for..., or member of etc..
	Editor Plant Cell Report
2008-2011	Presidente of the CSS2 "Plante-santé" at IRD
2008-	Presidente of the engineer evaluation commitee at INRA

Research Projects (relevant to Action)

	<i>Title: RENEWALL</i>
Year (Start-	<i>EU/national/Regional EU</i>
2008-End 2012)	Role: Scientific Responsible or participant : Participant
	The main objective of the project is: " Improving plant cell walls for use as a renewable industrial feedstock" (www.renewall.eu)

Selected Publications and Communications (relevant to Action)

Van Doorselaere J, Baucher M, Chognot E, Chabbert B, Tollier MT, Petit-Conil M, Leplé JC, Pilate G, Cornu D, Monties B, Van Montagu M, Inzé D, Boerjan W, Jouanin L (1995) A novel lignin in poplar trees with reduced caffeic acid/5 hydroxyferulic acid O-methyltransferase. *Plant J* 8 : 855-864.

Baucher M, Chabbert B, Pilate G, Van Doorselaere J, Tollier MT, Petit-Conil M, Cornu D, Monties B, Van Montagu M, Inzé D, Jouanin L, Boerjan W (1996) Red xylem and higher extractability by down-regulating cinnamyl alcohol dehydrogenase in poplar (*Populus tremula x P. alba*) and effect on lignin structure and lignin extractability. *Plant Physiol* 112 : 1478-1490.

Pilate G, Guiney E, Holt E, Petit-Conil M, Lapierre C, Leplé J-C, Pollet B, Mila I, Webster E, Marstorp H, Hopkins DW, Jouanin L, Boerjan W, Schuch W, Cornu D, Halpin C (2002) Field performance of transgenic trees with altered lignin metabolism. *Nature Biotech* 20: 607-612.

Jouanin L, Goujon T, de Nadaï V, Martin MT, Mila I, Vallet C, Pollet B, Yoshinaga A, Chabbert B, Petit-Conil M, Lapierre C (2000) Lignification in transgenic poplars with extremely reduced caffeic acid O-methyltransferase. *Plant Physiol* 123 : 1363-1374.

Arisi A-C M, Mocquot B, Lagriffoul A, Mench M, Foyer CH, Jouanin L (2000) Responses to cadmium in leaves of poplars overexpressing γ -glutamylcysteine synthetase. *Physiologia Plantarum* 109 :1432-149.

Ralph J, Lapierre C, Fachuang L, Marita J, Boerjan W, Pilate G, Jouanin L (2001) Benzodioxanes from incorporation of 5-hydroxyconiferyl alcohol into lignins of O-methyltransferase deficient poplars. *J Agric Food Chem* 49: 86-91.

Sibout R, Eudes A, Pollet B, Goujon T, Mila I, Granier F, Séguin A, Lapierre C, Jouanin L (2003) Expression pattern of two paralogues encoding cinnamyl alcohol dehydrogenase in *Arabidopsis thaliana*: Isolation and characterization of the corresponding mutants. *Plant Physiol* 132 : 848-860.

Mir Derikvand M, Berrio-Sierra J, Ruel K, Pollet B, Do C-T, Thévenin J, Buffard D, Jouanin L, Lapierre C (2008) Redirection of the phenylpropanoid pathway to feruloyl malate in *Arabidopsis* mutants deficient in cinnamoyl-CoA reductase. *Planta* 227 : 943-956.

Ralph J, Kim H, Lu F, Grabber J, Leplé JC, Berrio-Sierra J, Mir Derikvand M, Jouanin L, Boerjan W, Lapierre C (2008) Identification and origin of a thioacidolysis marker compound for ferulic acid incorporation in angiosperm lignins (and a pseudo-marker compound for cinnamoyl-CoA reductase deficiency). *Plant J* 55 : 368-379.

Ruel K, Berrio-Sierra J, Pollet B, Thévenin J, Lapierre C, Jouanin L, Joseleau JP (2009) Impact of CCF1 silencing on the assembly of lignified secondary walls in *Arabidopsis thaliana*. *New Phytol* 184: 99-113.

Lu F, Marita JM, Lapierre C, Jouanin L, Morreel K, Boerjan W, Ralph J (2010) Sequencing around 5-hydroxyconiferyl alcohol-derived units in caffeic acid O-methyl transferase-deficient poplar lignins. *Plant Physiol* 153 : 569-579.

RESEARCH INSTITUTE (Max 1 page)

Description

INRA (Institut national de la Recherche Agronomique) research is guided by developments in scientific fields and focuses on worldwide challenges related to food and nutrition, the environment and land use facing the world of agriculture and agronomics today. Challenges such as climate change, human nutrition, competition between food and non-food crops, the exhaustion of fossil resources and appropriate land management put agronomists in a position to generate compatible economic, social and environmental development. INRA produces fundamental knowledge that leads to innovation and know-how for society. INRA lends its expertise to public decision-making.

Infrastructure

The Jean-Pierre Bourgin Institute (IJPB) at the INRA Versailles-Grignon Center is dedicated to research in Plant Biology. The institute is composed of the fusion five INRA laboratories: cell biology, genetics and plant breeding, plant nitrogen nutrition, seed biology and biological chemistry. The IJPB, located in the Paris area, represents a unique concentration of expertise and resources for plants in France.