

Name: **Wout Boerjan, PhD**

Nationality and date of birth: *Belgium, 21/12/1963*

**Participation in COST Action FP0905:**

Member of MC; Member of WG2

*ESR at the time of starting the Action:* Not

**Contact data:**

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**Research area and species (key words):**

Lignin biosynthesis, genetic engineering for chemical pulping and bio-ethanol, field trials, poplar

**CURRICULUM VITAE****Present position****Professor; Group leader****Education/Professional Career**

9/1993: PhD in Plant Biotechnology

09.1993 PhD in Plant Biotechnology at Ghent University (Laboratorium voor Genetica, Universiteit Gent, Belgium) (Prof. M. Van Montagu)

01.01.1994-31.05.1996 Group leader full-time (Laboratorium voor Genetica, Universiteit Gent, Belgium) (Prof. M. Van Montagu)

01.06.1996- Group leader full-time (Department of Plant Systems Biology, Flanders Interuniversity Institute for Biotechnology, Gent, Belgium)

01.10.2001-31.09.2003 Guest Professor at Universiteit Gent, Belgium

01.10.2003- Tenure Academic Staff - Professor at Ghent University, Ghent, Belgium

**Others**-  
-  
-**Research Projects (relevant to Action)**

OPLIGE, EDEN, TIMBER, ENERGYPOPLAR, NOVELTREE, RENEWALL, SUNLIBB see the respective websites for more information

**Selected Publications and Communications (relevant to Action)**

WALTER, C., FLADUNG, M., and BOERJAN, W. (2010). The 20-year environmental safety records of GM trees. *Nat. Biotechnol.*, in press.

STRAUSS, S., TAN, H., BOERJAN, W and SEDJO, R (2009). Strangled at birth – forest biotech and the Convention on Biological Diversity. *Nat. Biotechnol.*, 27, 519-527.

LEPLÉ, J.-C., DAUWE, R., MORREEL, K., STORME, V., LAPIERRE, C., POLLET, B., NAUMANN, A., KANG, K.-Y., KIM, H., RUEL, K., LEFÈBVRE, A., JOSELEAU, J.-P., GRIMA-PETTENATI, J., DE RYCKE, R., ANDERSSON-GUNNERÅS, ERBAN, A., FEHRLE, I., PETIT-CONIL, M., KOPKA, J., POLLE, A., MESSENS, E., SUNDBERG, B., MANSFIELD, S., RALPH, J., PILATE, G., and BOERJAN, W. (2007). Downregulation of cinnamoyl-coenzyme A reductase in poplar: multiple-level phenotyping reveals effects on cell wall polymer metabolism and structure. *Plant Cell* 19, 3669-3691 (2007).

HOPKINS, D.W., WEBSTER, E.A., BOERJAN, W., PILATE, G., and HALPIN, C. Genetically modified lignin below ground. *Nat. Biotechnol.* 25, 168-169. [PMID 17287744] (2007)

BOERJAN, W. Biotechnology and the domestication of forest trees. *Curr. Opin. Biotechnol.* 16, 159-166 (2005).

HALPIN, C., and BOERJAN, W. Stacking transgenes in forest trees. *Trends Plant Sci.* 8, 363-365 (2003).

BAUCHER, M., PETIT-CONIL, M., and BOERJAN, W. Lignin: genetic engineering and impact on pulping. *Crit. Rev. Biochem. Mol. Biol.* 38, 305-350 (2003).

PILATE, G., GUINEY, E., HOLT, K., PETIT-CONIL, M., LAPIERRE, C., LEPLÉ, J.-C., POLLET, B., MILA, I., WEBSTER, E.A., MARSTORP, H.G., HOPKINS, D.W., JOUANIN, L., BOERJAN, W., SCHUCH, W., CORNU, D., and HALPIN, C. Field and pulping performances of transgenic trees with altered lignification. *Nature Biotechnol.* 20, 607-612 (2002).

STRAUSS, S., BOERJAN, W., CAIRNEY, J., CAMPBELL, M., DEAN, J., ELLIS, D., JOUANIN, L., and SUNDBERG, B. Forest biotechnology makes its position known. *Nature Biotechnol.* 17, p. 1145 (1999).

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### Description

<http://www.psb.ugent.be>

### Infrastructure

<http://www.psb.ugent.be/department/infrastructure>