Publications

Below is a selection of scientific publications listed according to application area.

Seedling growth and vigor

Öhlund J, Näsholm T. (2004) Regulation of organic and inorganic nitrogen uptake in Scots pine (Pinus sylvestris) seedlings. Tree Physiology 21: 1397-1402

Öhlund J, Näsholm T. (2002) Low Nitrogen Losses with a New Source of Nitrogen for Cultivation of Conifer Seedlings. Environ. Sci. Technol. 36: 4854-4859

Öhlund J, Näsholm T. (2001) Growth of conifer seedlings on organic and inorganic nitrogen sources. Tree Physiology 21: 1319-1326

Erikson O, Hertzberg M, Näsholm T. (2005) The dsdA gene from Escherichia coli provides a novel selectable marker for plant transformation. Plant Mol. Bio. 57(3): 425-433

Erikson O, Hertzberg M, Näsholm T. (2004) A conditional marker gene allowing both positive and negative selection in plants. Nat. Biotechnol. 22(4): 455-458

Fiber modification

Brumer H, Zhou Q, Baumann M J, Carlsson K, Teeri T T. (2004) Activation of crystalline cellulose surfaces through the chemoenzymatic modification of xyloglucan. J. Am. Chem. Soc. 126: 5715-5721

dx.doi.org/10.1021/ja0316770

Zhou Q, Greffe L, Baumann M J, Malmstr?m E, Teeri T T, Brumer,H. (2005). The use of xyloglucan as a molecular anchor for the elaboration of polymers from cellulose surfaces: a general route for the design of biocomposites. Macromolecules. 38: 3547-3549

dx.doi.org/10.1021/ma047712k

Zhou Q, Baumann M J, Brumer H, Teeri T T. (2006). The influence of surface chemical composition on the adsorption of xyloglucan to chemical and mechanical pulps. Carbohydr. Polym. 63, 449-458

dx.doi.org/10.1016/j.carbpol.2005.09.015

Zhou Q, Baumann M J, Piispanen P S, Teeri T T, Brumer H. (2006). Xyloglucan and xyloglucan endo-transglycosylases (XET): Tools for ex vivo cellulose surface modification. Biocatal. Biotransform. 24, 107-120.

dx.doi.org/10.1080/10242420500538217