

PUBLICATIONS OF COST FP0602 PARTNERS

Joint articles:

2007

1. Kangas, H., Suurnäkki, A., Kleen, M. (2007) Modification of the surface chemistry of TMP with enzymes. *Nord. Pulp Paper Res. J.* 22, 415-423.
2. Puchart V., Vrsanska M., Mastihubova M., Topakas E., Vafiadi C., Faulds C.B., Tenkanen M., Christakopoulos P., Biely P. (2007) Substrate and positional specificity of feruloyl esterases for monoferuloylated and monoacetylated 4-nitrophenyl glycosides *J. Biotechnology* 127, 235-243
3. Schroeder, M., Aichernig, N., Gübitz, GM., Kokol, V. (2007) Enzymatic coating of lignocellulosic surfaces with polyphenols. *Biotechnol. J.* vol. 2, iss. 3, str. 334-341. <http://dx.doi.org/10.1002/biot.200600209>.
4. Suurnäkki, A., Oksanen, T., Orlandi, M., Zoia, L., Canevali, C., and Viikari, L. (2010) Factors affecting the activation of pulps with laccase. *Enzyme Microb. Technol.* 46(3 - 4), 153 - 158. doi: [10.1016/j.enzmictec.2009.11.009](https://doi.org/10.1016/j.enzmictec.2009.11.009)
5. Vanhulle, S., Enaud, E., Trovaslet, M., Nouaimeh, N., Bols, C-M., Keshavarz, T., Tron, T., Sannia, G., Corbisier, A-M. (2007) Overlap of laccases/cellobiose dehydrogenase activities during the decolourisation of anthraquinonic dyes with close chemical structures by *Pycnoporus* strains. *Enzyme Microb. Technol.*, 40, 1723-1731.
6. Vanhulle, S., Radman, R., Parra, R., Cui, T., Bols, C-M., Tron, T., Sannia, G., Keshavarz, T. (2007) Effect of mannan oligosaccharide elicitor and ferulic acid on enhancement of laccases production in liquid cultures of basidiomycetes. *Enzyme Microb. Technol.*, 40, 1712-1718.

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7. Benkő, Z., Siika-aho, M., Viikari, L. & Réczey, K. (2008). Evaluation of the role of xyloglucanase in the enzymatic hydrolysis of lignocellulosic substrates. *Enzyme Microb. Technol.* 43, 109-114. [10.1016/j.enzmictec.2008.03.005](https://doi.org/10.1016/j.enzmictec.2008.03.005)
8. Maijala, P., Kleen, M., Westin, C., Poppius-Levlin, K., Herranen, K., Lehto, J.H., Reponen, P., Mäentausta, O., Mettälä, A., Hatakka, A. (2008) Biomechanical pulping of softwood with enzymes and white-rot fungus *Physisporinus rivulosus*. *Enzyme Microb. Technol.* 43, 169-177.
9. Panagiotou G., Topakas E., Olsson L., Christakopoulos P. Identification of NADH kinase activity in filamentous fungi and structural modelling of the novel enzyme from *Fusarium oxysporum*. *Process Biochemistry*, 43, 1114-1120. 2008

10. Panagiotou G., Pachidou F., Petroustos D., Olsson L., Christakopoulos P. (2008) Fermentation characteristics of *Fusarium oxysporum* grown on acetate. *Bioresource Technology*, 99, 7397-7401.
11. Szijártó, N., Siika-aho, M., Tenkanen, M., Alapuranen, M., Vehmaanperä, J., Réczey, K. & Viikari, L. (2008). Hydrolysis of amorphous and crystalline cellulose by heterologously produced cellulases of *Melanocarpus albomyces*. *J. Biotechnol.* 136 (3-4), 140-147. [10.1016/j.jbiotec.2008.05.010](https://doi.org/10.1016/j.jbiotec.2008.05.010)
12. Vafiadi C, Topakas E, Alissandratos A, Faulds CB, Christakopoulos P. (2008) Enzymatic synthesis of butyl hydroxycinnamates and their inhibitory effects on LDL-oxidation *J Biotechnol*, 133:497-504.
13. Vardakou M, Palop CN, Christakopoulos P, Faulds C, Gasson M, Narbad A. (2008) Evaluation of the prebiotic properties of wheat arabinoxylan fractions and induction of hydrolase activity in gut microflora. *International Journal of Food Microbiology*, 123:166-170.

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14. Faraco, V., Pezzella, C., Giardina, P., Piscitelli, A., Vanhulle, S., Sannia, G. (2009) Decolourization of textile dyes by the white-rot fungi *Phanerochaete chrysosporium* and *Pleurotus ostreatus*. *J. Chem. Technol. Biotechnol.* 84, 414-419.
15. Miele, A., Faraco, V., Piscitelli, A., Del Vecchio, C., Giardina, P., Sannia, G. (2009) Selection of 'better performing' laccases through directed evolution. *FEBS J.* 276, 377-378.
16. Ravalason, H., Herpoël-Gimbert, I., Record, E., Bertaud, F., Grisel, S., de Weert, S., van den Hondel, C.A.M.J.J., Asther, M., Petit-Conil, M., Sigoillot, J.-C. (2009) Fusion of a family 1 carbohydrate binding module of *Aspergillus niger* to the *Pycnoporus cinnabarinus* laccase for efficient softwood kraft pulp biobleaching. *J. Biotechnol.* 142, 220-226.
17. Suchy, M., Hakala, T., Kangas, H., Kontturi, E., Tammelin, T., Pursula, T., Vuorinen T., (2009) Effects of commercial cellobiohydrolase treatment on fiber strength and morphology of bleached hardwood pulp. *Holzforschung*, 63, 731-736.
18. Treimo, J, Westereng, B, Horn, S.J., Forssell, P., Robertson, J.A., Faulds, C.B., Waldron, K.W., Buchert, J., Eijsink, V.G.H. (2009) Enzymatic solubilization of brewers' spent grain by combined action of carbohydrases and peptidases. *Agric. Food Chem.* 57, 3316-3324.
19. Vafiadi C., Topakas E., Nahmias V.R., Faulds C.B., Christakopoulos P. (2009) Feruloyl esterase-catalysed synthesis of glycerol sinapate using ionic liquids mixtures. *J. Biotechnol.* 139, 124-129

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20. Barta, Zs., Réczey, K., Zacchi, G. (2010) Techno-economic evaluation of stillage treatment with anaerobic digestion in a softwood-to-ethanol process. *Biotechnology for Biofuels*. 2010, 3:21, doi: 10.1186/1754-6834-3-21
21. Barta, Zs., Kovács, K., Réczey, K., Zacchi, G. (2010) Process design and economics of on-site cellulase production on various carbon sources in a softwood-based ethanol plant. *Enzyme Research*. Volume 2010, Article ID 734182, doi:10.4061/2010/734182.
22. Barta, Zs., Oliva, J.M., Ballesteros, I., Dienes, D., Ballesteros, M., Réczey, K. (2010) Refining hemp hurds into fermentable sugars or ethanol. *Chemical and Biochemical Engineering Quarterly* 24, (3), 331-339. IF: 0.35
23. Ciolacu, D., Kovač, J., Kokol, V. (2010). The effect of the cellulose-binding domain from *Clostridium cellulovorans* on the supramolecular structure of cellulose fibres. *Carbohydr. Res.* [Print ed.], vol. 345, iss. 5, str. 621-630, doi: [10.1016/j.carres.2009.12.023](https://doi.org/10.1016/j.carres.2009.12.023).
24. Da Silva Perez, D., Guillemain, A., Berthelot, A., N'Guyen-The, N., de Morogues, F., Gomes, C., (2010) Evaluation of forestry biomass quality for the production of second-generation biofuels", *Cellulose Chemistry and Technology* 44,1-14.
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27. Giardina, P., Faraco, V., Pezzella, C., Piscitelli, A., Vanhulle, S., Sannia, G. (2010) Laccase: a neverending story. *Cell. Mol. Life Sci.* 67, 369-385.
28. Forssell, P., Treimo, J., Eijsink, VGH., Faulds, CB., Schols, HA., Hinz, S., Myllymäki, O., Tamminen, T., Zoldners, J., Viljanen, K., Waldron, K. and Buchert, J. (2011) Enzyme-aided fractionation of brewers' spent grain in pilot scale; *J American Soc of Brewing Chemists*, 69, 91-99.
29. Gyalai-Korpos, M., Mangel, R., Alvira, P., Dienes, D., Ballesteros, M., Réczey, K. (2010) Cellulase production using different streams of wheat grain and wheat straw based ethanol processes. *Journal of Industrial Microbiology and Biotechnology* DOI: 10.1007/s10295-010-0811-9
30. Gyalai-Korpos, M., Nagy, G., Mareczky, Z., Schuster, A., Réczey, K., Schmoll, M. (2010) Relevance of the light signaling machinery for cellulase production in *Trichoderma reesei* (*Hypocrea jecorina*). *BMC Research Notes* 3:330.
31. Moilanen, U., Osma, J.F., Winqvist, E., Leisola, M. and Rodríguez Couto (2010) S., Decolorization of simulated textile dye baths by crude laccases from *Trametes hirsuta* and *Cerrena unicolor*, *Eng. Life Sci.* 10, 242-247.

32. Panagiotou, G., Topakas, E., Olivares, R., Christakopoulos, P., and L. Olsson (2010) Feruloyl esterases as biosynthetic tools for the organic synthesis of nutraceutical compounds, *Encyclopedia of Biotechnology in Agriculture and Food*, *in press* DOI: 10.1081/E-EBAF-9780849359504
33. Penttilä PA, Varnai A, Leppänen K, Peura M, Kallonen A, Jääskeläinen P, Lucenius J, Ruokolainen J, Siika-aho M, Viikari L, Serimaa R. (2010). Changes in Submicrometer Structure of Enzymatically Hydrolyzed Microcrystalline Cellulose. *Biomacromolecules*, 11 (4), 1111–1117.
34. Robertson, JA., Ianson, K., Treimo, J.R., Faulds, C.B., Brocklehurst, T., Eijsink, VGH. and Waldron KW. (2010) Profiling brewers' spent grain for composition and microbial ecology at the site of production. *LWT - Food Science and Technology*, 43, 890-896.
35. Sasso, C., Zeno, E., Chaussy, D., Beneventi, D., Belgacem, N., Petit-Conil, M. (2010), "Highly conducting polypyrrole/cellulose nanocomposite films with enhanced mechanical properties", *Macromolecular materials & engineering*, vol. 295, pp. xx-xx, 2010 (Doc CTP n°2533).
36. Sipos, B., Benkő, Z., Dienes, D., Réczey, K., Viikari, L., Siika-aho, M. (2010) Characterisation of specific activities and hydrolytic properties of cell-wall-degrading enzymes produced by *Trichoderma reesei* Rut C30 on different carbon sources. *Appl. Biochem. Biotechnol.* 161, 347-364
37. Sipos, B., Dienes, D., Schleicher, Á., Perazzini, R., Crestini, C., Siika-aho, M., Réczey, K. (2010). Hydrolysis efficiency and enzyme adsorption on steam pretreated spruce in the presence of poly(ethylene glycol). *Enzyme and Microbial Technology*, DOI:10.1016/j.enzmictec.2010.05.010
38. Sipos B., Szilágyi M., Sebestyén Z., Dienes D., Jakab E., Várhegyi G., Crestini C., Réczey K. Mechanism of the positive effect of poly(ethylene glycol) addition on conversion and enzyme adsorption in enzymatic hydrolysis of lignocelluloses (accepted)
39. Siqueira, G., Tapin-Lingua, S., Bras, J., da Silva Perez, D., Dufresne, A. (2010) Morphological investigation of nanoparticles obtained from combined mechanical shearing, and enzymatic and acid hydrolysis of sisal fibers, *Cellulose*, 17, 1147-1158.
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41. Topakas, E., Kyriakopoulos, S., Biely, P., Hirsch, J., Vafiadi, C., Christakopoulos, P. (2010) Carbohydrate esterases of family 2 are 6-O-deacetylases. *FEBS Lett.* 584, 543-548.
42. Vanderghem, C., Boquel, P., Blecker, C., Paquot, M. (2010). A multistage process to enhance cellobiose production from cellulosic materials. *Appl. Biochem. Biotechnol.* 160, 2300-2307.

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45. Akarayonye, E., Keshavarz, T., Roy, I. Production of polyhydroxyalkanoates; the future green materials of choice. Manuscript.

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46. Alexandre F. Leitaó, Ana Cristina Rodrigues, Susana Moreira, Claus Felby and Miguel Gama (2011) Biomass saccharification: development of strategies for enzyme recycling, *conditionally accepted at Bioresource Technology*.
47. Moya R, Saastamoinen P, Hernández M, Suurnäkki A, Arias E, Mattinen M-L (2011). Reactivity of bacterial and fungal laccases with lignin under alkaline conditions. *Bioresources Technology*. In Press.
48. Panagiotou G., Topakas E., Moukouli M., Christakopoulos P., Olsson L. (2011). Studying the ability of *Fusarium oxysporum* and recombinant *Saccharomyces cerevisiae* to efficiently cooperate in decomposition and ethanolic fermentation of wheat straw. *Biomass and Bioenergy*, 35, 3727-3732.
49. Szijarto, N., Horan, E., Zhang, J., Puranen, T., Siika-aho, M. & Viikari, L. 2011. Thermostable endoglucanases in the liquefaction of hydrothermally pretreated wheat straw. *Biotechnology for Biofuels*. 4, 2. doi:10.1186/1754-6834-4-2.
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51. Várnai, A., Viikari, L., Marjamaa, K. & Siika-aho, M. 2011. Adsorption of monocomponent enzymes in enzyme mixture analyzed quantitatively during hydrolysis of lignocellulose substrates, *Bioresource Technology*. 102, 2, p. 1220-1227. doi:10.1016/j.biortech.2010.07.120
52. Várnai, A.; Huikko, L.; Pere, J.; Siika-aho, M., and Viikari, L. (2011) Synergistic action of xylanase and mannanase improves the total hydrolysis of softwood. *Bioresource Technology*. In Press. doi: [10.1016/j.biortech.2011.06.059](https://doi.org/10.1016/j.biortech.2011.06.059)
53. Zoia L, Perazzini, R., Crestini, C., Argyropoulos, DS. (2011) Understanding the radical mechanism of lipoxygenases using ³¹P NMR spin trapping. *Bioorganic & Medicinal Chemistry* 19, 3022–3028

54. Alexandre F. Leitao, Ana Cristina Rodrigues, Susana Moreira, Claus Felby and Miguel Gama (2011) Biomass saccharification: development of strategies for enzyme recycling, *conditionally accepted at Bioresource Technology*.

Other publications by the partners in the research area:

2007

1. Berrin, J-G., Ajandouz, el H., Georis, J., Arnaut, P., & Juge N. (2007) Substrate and product hydrolysis specificity in family 11 glycoside hydrolases : an analysis of *Penicillium funiculosum* and *Penicillium griseofulvum* xylanases. *Applied Microbiology and Biotechnology* 74(5), 1001-1010.
2. Camarero, S., D. Ibarra, A. T. Martínez, J. Romero, A. Gutiérrez, and J. C. del Río. (2007). Paper pulp delignification using laccase and natural mediators. *Enzyme Microb. Technol.* 40:1264-1271.
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4. Hildén K, Hakala TK, Maijala P, Lundell T, Hatakka A (2007) Novel thermotolerant laccases produced by the white-rot fungus *Physisporinus rivulosus*. *Appl. Microbiol. Biotechnol.* 77:301-309.
5. Ibarra, D., M. I. Chávez, J. Rencoret, J. C. del Río, A. Gutiérrez, J. Romero, S. Camarero, M. J. Martínez, J. Jiménez-Barbero, and A. T. Martínez. (2007). Structural modification of eucalypt pulp lignin in a totally chlorine free bleaching sequence including a laccase-mediator stage. *Holzforschung* 61:634-646.
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measurement of CBDs adsorbed onto cellulose fibers. *Biotechnology Progress* 23(6), 1492-1497.

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15. Schurink, M.J.T., van Berkel, W.J.H., Wichers, H.J., Boeriu, C.G. (2007) Novel peptides with potential tyrosinase inhibitory activity. *Peptides* 28, 485-495.
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17. Schurink, M.J.T., van Berkel, W.J.H., Wichers, H.J., Boeriu, C.G. (2007) Novel peptides with potential tyrosinase inhibitory activity. *Peptides* 28, 485-495.
18. Suumäkki, A., Buchert, J., Niku-Paavola, M-L., Pere, J., and Viikari, L. Enzymes in pulp and paper processing. In: *Enzymes in Industry* (Aehle, W. (ed.). Third, completely revised version. Wiley-VCH. Weinheim (2007), 231 – 244
19. Van den Berg, P.A.W., Grever, K., van Hoek, A., van Berkel, W.J.H., Visser, A.J.W.G. (2007) Time-resolved fluorescence analysis of the mobile flavin cofactor in *p*-hydroxybenzoate hydroxylase. *J. Chem. Sci.* 119, 123-133.
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1. André-Leroux, G., Berrin, J-G., Georis, J., Arnaut, F. & Juge, N. (2008) Structure-based mutagenesis of *Penicillium griseofulvum* xylanase using computational design. *Proteins* 72(4), 1298-1307.
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5. Katapodis P, Christakopoulos P. (2008) Enzymic production of feruloyl xylo-oligosaccharides from corn cobs by a family 10 xylanase from *Thermoascus aurantiacus*. *LWT - Food Science and Technology*, 41, 1239-1243.
6. Kourtoglou E., Mamma D., Topakas E., Christakopoulos P. (2008) Purification, characterization and mass spectrometric sequencing of transaldolase from *Fusarium oxysporum* involved in xylose metabolism. *Process Biochem*, 43, 1094-1101.
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10. Mattinen, M-L., Suortti, T., Gosseling, R., Argyropoulos, D. S., Evtuguin, D., Suurnäkki, A., de Jong, E., and Tamminen, T. Polymerization of different lignins by laccase, *BioResources* 3(2) (2008), 549 – 565.
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12. Moonen, M.J.H., Kamerbeek N.M., Westphal, A.H., Boeren, J.A., Janssen, D.B., Fraaije, M.W., van Berkel, W.J.H. (2008) Elucidation of the 4-hydroxyacetophenone catabolic pathway in *Pseudomonas fluorescens* ACB. *J. Bacteriol.* 190, 5190-5198.
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18. Valchev I., Nenkova S., Tzekova P., Lasheva V. (2009) Use of enzymes in hydrolysis of maize stalks, *BioResources*, 4 (1), 285-291.
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20. Voutilainen, S., Puranen, T., Siika-aho, M., Lappalainen, A., Alapuranen, M., Kallio, J., Hooman, S., Viikari, L., Vehmaanperä, J. & Koivula, A. (2008). Cloning, expression, and characterization of novel thermostable family 7 cellobiohydrolases. *Biotechnol. Bioeng.* 101, 515-528. [10.1002/bit.21940](https://doi.org/10.1002/bit.21940)
21. Xiros C., Topakas E., Katapodis P., Christakopoulos P. (2008) Hydrolysis and fermentation of brewer's spent grain from *Neurospora crassa*. *Bioresource Technol.* 99, 5427-5435
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45. Van Berkel, W.J.H., Leferink, N.G.H., Fraaije, M.W., Mattevi, A. (2010) Oxygen reactivity of flavoenzymes. Abstract/Poster *5th European meeting on Oxizymes*, Leipzig, June 14-16.
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48. Van Berkel, W.J.H. (2010) Enzymes with taste. Invited lecture *4th Conference on biocatalysis in the food and drink industries*, Toulouse, April 11-14.
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64. Westereng, B; A missing link in the enzymatic conversion of recalcitrant polysaccharides. Foredrag; Workshop in the NordForsk Network in Food and Bioresource Enzyme Technology; Dec 6 & 7, Lyngby, Danmark.

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3. Eijsink, V. Novel insights into the enzymatic conversion of recalcitrant polysaccharides; Kluyver symposium, Noordwijkerhout, The Netherlands; 26.01.2011
4. Eijsink, V. Novel insights into the enzymatic conversion of recalcitrant polysaccharides ("A missing link....."); Invited talk at Bio4Bio symposium, Copenhagen, Denmark; 24.3.2011.
5. Eijsink, V. Novel insights into the enzymatic degradation of recalcitrant polysaccharides: The role of processivity and discovery of oxidative enzymes boosting the conversion process; Invited talk at Genencor, Palo Alto, CA; 28.3.2011.
6. Eijsink, V. Novel insights into the enzymatic conversion of recalcitrant polysaccharides; invited talk at the Energy Bioscience Institute, Berkeley, CA; 29.3.2011.
7. Eijsink, V. Novel insights into the enzymatic degradation of recalcitrant polysaccharides: The role of processivity and discovery of oxidative enzymes boosting the conversion process; Invited talk at Novozymes, Davis, CA; 30.3.2011.
8. Eijsink, V. Novel insights into the enzymatic conversion of recalcitrant polysaccharides; 9th Carbohydrate Engineering Meeting, Lisboa, Portugal; Invited keynote lecture. 15.5-18.5.2011.
9. Forsberg, Z., B. Westereng, LA Bøhle, G. Mathiesen, M Sørli, Y Stenstrøm, A MacKenzie, SJ Horn, VGH Eijsink, G Vaaje-Kolstad; Insights into the enzymatic activity of family 33 carbohydrate binding modules (CBM33); 9th Carbohydrate Engineering Meeting, Lisboa, Portugal; poster. 15.5-18.5.2011.
10. Forsberg Z., Vaaje-Kolstad G., Westereng B., Sørli M., Stenstrøm Y., Mackenzie A., Horn S.J., and Eijsink V.G.H.; Characterization of the enzymatic activity of family 33 carbohydrate binding modules (CBM33); 2011 Gordon Conference on Cellulosomes, Cellulases & Other Carbohydrate Modifying Enzymes; Stonehill College, Easton, MA, USA; poster; 24.7-29.7.2011.
11. Horn, SJ, Gustav Vaaje-Kolstad, Bjorge Westereng, Zarah Forsberg, Morten Sorlie, Vincent G.H. Eijsink; A missing link in the enzymatic conversion of recalcitrant polysaccharides; 33rd Symposium on Biotechnology for fuels and chemicals, Seattle, USA, Invited lecture. 2.5-5.5.2011.
12. Karanaouri A., Topakas E., Christakopoulos P. Cloning, heterologous expression and characterization of a family 7 thermophilic endoglucanase from *Myceliophthora*

thermophila (StEG7.) 9th Carbohydrate Bioengineering Meeting, Poster Presentation, 15-18 May, Lisbon, Portugal, 2011.

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