

Contents

Special Issue: Contributions by COST Action D25: Applied Biocatalysis. Stereoselective and environmentally friendly reactions catalysed by enzymes.

Guest Editor: Thorleif Anthonsen

Applied biocatalysis: Stereoselective and environmentally-friendly reactions catalysed by enzymes, COST Action D25	51
T. Anthonsen (Trondheim, Norway)	51
Naphthalene-dioxygenase-catalysed <i>cis</i> -dihydroxylation of azaarene derivatives. Part 1: 2-Pyridones and 2-quinolones	53
C. Chopard, R. Azerad and T. Prangé (Paris, France)	53
Biocatalyst assessment of recombinant whole-cells expressing the Baeyer-Villiger monooxygenase from <i>Xanthobacter</i> sp. ZL5	61
D.V. Rial, P. Cernuchova (Vienna, Austria), J.B. van Beilen (Zürich, Switzerland) and M.D. Mihovilovic (Vienna, Austria)	61
<i>N</i> -Acetylhexosamine triad in one molecule: Chemoenzymatic introduction of 2-acetamido-2-deoxy- β -D-galactopyranosyluronic acid residue into a complex oligosaccharide	69
P. Bojarová, K. Křenek, M. Kuzma, L. Petrásková, K. Bezouška (Prague, Czech Republic), D.-J. Namdjou, L. Elling (Aachen, Germany) and V. Křen (Prague, Czech Republic)	69
Combination of stereospecific dihydroxylation and enzyme catalyzed enantioselective resolution for synthesis of enantiopure vicinal diols	74
A.R. Moen, K. Ruud and T. Anthonsen (Trondheim, Norway)	74
Sol-gels and cross-linked aggregates of lipase PS from <i>Burkholderia cepacia</i> and their application in dry organic solvents	80
P. Hara (Turku, Finland and Delft, The Netherlands), U. Hanefeld (Delft, The Netherlands) and L.T. Kanerva (Turku, Finland)	80
Laccase-mediated dimerization of the flavonolignan silybin	87
R. Gažák, P. Sedmera (Prague, Czech Republic), M. Marzorati, S. Riva (Milano, Italy) and V. Křen (Prague, Czech Republic)	87
Activity of yeast D-amino acid oxidase on aromatic unnatural amino acids	93
A. Caligiuri, P. D'Arrigo (Milano, Italy), E. Rosini (Varese, Italy), G. Pedrocchi-Fantoni, D. Tessaro (Milano, Italy), G. Molla (Varese, Italy), S. Servi (Milano, Italy) and L. Pollegioni (Varese, Italy)	93
Purification and characterization of a nitrilase from <i>Fusarium solani</i> O1	99
V. Vejvoda, O. Kaplan, K. Bezouška, P. Pompach, M. Šulc (Prague, Czech Republic), M. Cantarella (L'Aquila, Italy), O. Benada, B. Uhnáková, A. Rinágelová (Prague, Czech Republic), S. Lutz-Wahl, L. Fischer (Stuttgart, Germany), V. Křen and L. Martíková (Prague, Czech Republic)	99
Biotransformation of nitriles to amides using soluble and immobilized nitrile hydratase from <i>Rhodococcus erythropolis</i> A4	107
D. Kubáč, O. Kaplan, V. Elišáková, M. Pátek, V. Vejvoda, K. Slámová, A. Tóthová (Prague, Czech Republic), M. Lemaire, E. Gallienne (Aubière, France), S. Lutz-Wahl, L. Fischer (Stuttgart, Germany), M. Kuzma, H. Pelantová (Prague, Czech Republic), S. van Pelt (Delft, The Netherlands), J. Bolte (Aubière, France), V. Křen and L. Martíková (Prague, Czech Republic)	107
Optimisation of β -glucuronidase production from a newly isolated <i>Ganoderma applanatum</i>	114
R. Chouiter, I. Roy and C. Bucke (London, UK)	114
A <i>p</i> -nitrothiophenolate screening system for the directed evolution of a two-component epoxygenase (StyAB)	121
K.L. Tee, O. Dmytrenko (Bremen, Germany), K. Otto, A. Schmid (Dortmund, Germany) and U. Schwaneberg (Bremen, Germany)	121
Characterization of recombinant fusion constructs of human β 1,4-galactosyltransferase 1 and the lipase pre-propeptide from <i>Staphylococcus hyicus</i>	128
B. Sauerzapfe, D.-J. Namdjou, T. Schumacher, N. Linden (Aachen, Germany), K. Křenek, V. Křen (Prague, Czech Republic) and L. Elling (Aachen, Germany)	128
Subject Index	1