

Author Index

- Aguedo, M., Waché, Y., Coste, F., Husson, F. and Belin, J.-M.
 Impact of surfactants on the biotransformation of methyl ricinoleate into γ -decalactone by *Yarrowia lipolytica* 31
- Alexandre, V., Ladril, S., Maurs, M. and Azerad, R.
 Microbial models of animal drug metabolism. Part 5. Microbial preparation of human hydroxylated metabolites of irbesartan 173
- Alfani, F., see Cantarella, M. 105
- Andrade, L.H., Omori, Á.T., Porto, A.L.M. and Comasseto, J.V.
 Asymmetric synthesis of arylselenoalcohols by means of the reduction of organoseleno acetophenones by whole fungal cells 47
- Andrade, L.H., see Comasseto, J.V. 55
- Antczak, T., Patura, J., Szczesna-Antczak, M., Hiler, D. and Bielecki, S.
 Sugar ester synthesis by a mycelium-bound *Mucor circinelloides* lipase in a micro-reactor equipped with water activity sensor 155
- Antczak, T., see Szczesna-Antczak, M. 163
- Ardhaoui, M., Falcimaigne, A., Engasser, J.-M., Moussou, P., Pauly, G. and Ghoul, M.
 Acylation of natural flavonoids using lipase of *candida antarctica* as biocatalyst 63
- Assis, L.F., see Comasseto, J.V. 55
- Augusto, J., see Fardelone, L.C. 41
- Azerad, R., see Alexandre, V. 173
- Baldessari, A., see Bruttomesso, A.C. 149
- Báleš, V., see Malík, F. 81
- Bava, A., see Intra, A. 95
- Belin, J.-M., see Aguedo, M. 31
- Bentancor, L., Treilles, J.A., Nobile, M., Lewkowicz, E.S. and Iribarren, A.M.
 Benzimidazole as deazapurine analogue for microbial transglycosylation 3
- Bernasconi, S., see Sello, G. 181
- Bestetti, G., see Sello, G. 181
- Bezouška, K., see Šnajdrová, R. 227
- Bielecki, S., see Szczesna-Antczak, M. 163
- Bielecki, S., see Antczak, T. 155
- Birincsik, L., see Erdélyi, B. 195
- Bolte, J., see Šnajdrová, R. 227
- Bona, R., see Weis, R. 211
- Broxterman, Q.B., see Sonke, T. 265
- Bruttomesso, A.C. and Baldessari, A.
 Lipase-catalysed deacetylation of androstane and pregnane derivatives: influence of ring D substitution 149
- Buisson, P., see Maury, S. 133
- Cabral, J.M.S., see Staebler, A. 19
- Cantarella, L., see Cantarella, M. 105
- Cantarella, M., Cantarella, L., Gallifuoco, A., Frezzini, R., Spera, A. and Alfani, F.
 A study in UF-membrane reactor on activity and stability of nitrile hydratase from *Microbacterium imperiale* CBS 498-74 resting cells for propionamide production 105
- Chadha, A., see Padhi, S.K. 25
- Chrysina, E.D., see Skouridou, V. 9
- Comasseto, J.V., Andrade, L.H., Omori, Á.T., Assis, L.F. and Porto, A.L.M.
 Deracemization of aryl ethanols and reduction of acetophenones by whole fungal cells of *Aspergillus terreus* CCT 4083, *A. terreus* CCT 3320 and *Rhizopus oryzae* CCT 4964 55
- Comasseto, J.V., see Andrade, L.H. 47
- Coste, F., see Aguedo, M. 31
- Crestia, D., see Šnajdrová, R. 227
- Cruz, A., see Staebler, A. 19
- de Castro, H.F., see Soares, C.M.F. 69
- de Moraes, F.F., see Soares, C.M.F. 69
- Di Gennaro, P., see Sello, G. 181
- dos Santos, O.A., see Soares, C.M.F. 69
- Engasser, J.-M., see Ardhaoui, M. 63
- Erdélyi, B., Szabó, A., Birincsik, L. and Hoschke, Á.
 Process development of methylenedioxyphenyl-acetone chiral bioreduction 195
- Ernste, S., see Sonke, T. 265
- Etschmann, M.M.W., Sell, D. and Schrader, J.
 Medium optimization for the production of the aroma compound 2-phenylethanol using a genetic algorithm 187
- Falcimaigne, A., see Ardhaoui, M. 63
- Fardelone, L.C., Augusto, J., Rodrigues, R. and Moran, P.J.S.
 Baker's yeast mediated asymmetric reduction of cinnamaldehyde derivatives 41
- Fernandes, P., see Staebler, A. 19
- Fialová, P., see Rauvolfová, J. 233
- Frezzini, R., see Cantarella, M. 105
- Fuhshuku, K.-I., see Kashiwagi, M. 249
- Galli, E., see Sello, G. 181
- Gallienne, E., see Šnajdrová, R. 227
- Gallifuoco, A., see Cantarella, M. 105
- Ganesh Pandian, N., see Padhi, S.K. 25
- Gargouri, M., Smaali, I., Maugard, T., Legoy, M.D. and Marzouki, N.
 Fungus β -glycosidases: immobilization and use in alkyl- β -glycoside synthesis 89
- Ghoul, M., see Ardhaoui, M. 63
- Gładkowski, W., Grabarczyk, M., Konopka, M. and Wawrzefičzyk, C.
 Lactones 20 [1]: Biohydroxylation of saturated bicyclic γ -lactones with the substituted cyclohexane system 13
- Glieder, A., see Weis, R. 211
- Grabarczyk, M., see Gładkowski, W. 13
- Griessler, R., see Nidetzky, B. 241
- Hall, C.E., Husson, F. and Kermasha, S.
 Characterization of an enriched lipoxygenase extract from *Aspergillus niger* in terms of specificity and nature of flavor precursors production 201
- Hiler, D., see Antczak, T. 155
- Hirata, T., see Shimoda, K. 123
- Hönig, H., see Preiml, M. 115

- Hoschke, Á., see Erdélyi, B. 195
 Husson, F., see Aguedo, M. 31
 Husson, F., see Hall, C.E. 201
- Iglesias, L.E., see Zinni, M.A. 129
 Intra, A., Bava, A., Nasini, G. and Riva, S.
 Regioselective enzymatic acylation of polyhydroxylated sesquiterpenoids 95
- Iribarren, A.M., see Bentancor, L. 3
 Iribarren, A.M., see Zinni, M.A. 129
- Kafarski, P. and Lejczak, B.
 Application of bacteria and fungi as biocatalysts for the preparation of optically active hydroxyphosphonates 99
- Kalinowska, H., see Szczesna-Antczak, M. 163
 Kaptein, B., see Sonke, T. 265
 Kashiwagi, M., Fuhshuku, K.-I. and Sugai, T.
 Control of the nitrile-hydrolyzing enzyme activity in *Rhodococcus rhodochrous* IFO 15564: preferential action of nitrile hydratase and amidase depending on the reaction condition factors and its application to the one-pot preparation of amides from aldehydes 249
- Kawano, T., see Shimoda, K. 123
 Kermasha, S., see Hall, C.E. 201
 Klempier, N., see Preiml, M. 115
 Kolisis, F.N., see Skouridou, V. 9
 Konopka, M., see Gładkowski, W. 13
 Křen, V. and Šimánek, V.
 Proceedings of the Sixth International Symposium on Biocatalysis and Biotransformations (BIOTRANS'03), Olomouc, Czech Republic, 28 June–3 July 2003 1
- Křen, V., see Rauvolfová, J. 233
 Křen, V., see Rauvolfová, J. 259
 Křen, V., see Simerská, P. 219
 Křen, V., see Šnajdrová, R. 227
 Kristová-Mylerová, V., see Šnajdrová, R. 227
 Kubota, N., see Shimoda, K. 123
 Kuzma, M., see Rauvolfová, J. 233
 Kuzma, M., see Rauvolfová, J. 259
 Kuzma, M., see Simerská, P. 219
 Kuzma, M., see Šnajdrová, R. 227
- Ladril, S., see Alexandre, V. 173
 Legoy, M.D., see Gargouri, M. 89
 Lejczak, B., see Kafarski, P. 99
 Lemaire, M., see Šnajdrová, R. 227
 Lewkowicz, E.S., see Bentancor, L. 3
 Lourenço, E., Rodrigues, J.A.R. and Moran, P.J.S.
 Preparation of an (−)-ephedrine intermediate through asymmetric reduction of 1-phenyl-1,2-propanedione by anaerobically pre-treated baker's yeast 37
- Luiten, R., see Weis, R. 211
- Maková, M., see Rauvolfová, J. 233
 Maková, M., see Rauvolfová, J. 259
 Malík, F., Štefuca, V. and Báleš, V.
 Investigation of kinetics of immobilized liver esterase by flow calorimetry 81
- Martíková, L., see Šnajdrová, R. 227
 Marzouki, N., see Gargouri, M. 89
 Maugard, T., see Gargouri, M. 89
 Maurs, M., see Alexandre, V. 173
 Maury, S., Buisson, P., Perrard, A. and Pierre, A.C.
 Influence of the sol–gel chemistry on the activity of a lipase encapsulated in a silica aerogel 133
- Modrzejewska, Z., see Szczesna-Antczak, M. 163
- Mommers, J.H.M., see Sonke, T. 265
 Montserrat, J.M., see Zinni, M.A. 129
 Moran, P.J.S., see Fardelone, L.C. 41
 Moran, P.J.S., see Lourenço, E. 37
 Moussou, P., see Ardhaoui, M. 63
- Nasini, G., see Intra, A. 95
 Nicotra, S., see Simerská, P. 219
 Nidetzky, B., Griessler, R., Schwarz, A. and Splechtna, B.
 Cellulbiose phosphorylase from *Cellulomonas uda*: gene cloning and expression in *Escherichia coli*, and application of the recombinant enzyme in a 'glycosynthase-type' reaction 241
- Nikolaou, K., see Šnajdrová, R. 227
 Nobile, M., see Bentancor, L. 3
- Oikonomakos, N.G., see Skouridou, V. 9
 Olivo, J.E., see Soares, C.M.F. 69
 Omori, Á.T., see Andrade, L.H. 47
 Omori, Á.T., see Comasseto, J.V. 55
 Orsini, F., see Sello, G. 181
- Padhi, S.K., Ganesh Pandian, N. and Chadha, A.
 Microbial deracemisation of aromatic β-hydroxy acid esters 25
- Patura, J., see Antczak, T. 155
 Patura, J., see Szczesna-Antczak, M. 163
 Pauly, G., see Ardhaoui, M. 63
 Perrard, A., see Maury, S. 133
 Pierre, A.C., see Maury, S. 133
 Pinheiro, H.M., see Staebler, A. 19
 Pišvejcová, A., see Rauvolfová, J. 233
 Pišvejcová, A., see Rauvolfová, J. 259
 Pišvejcová, A., see Simerská, P. 219
 Poehlauer, P., see Weis, R. 211
 Pontiggia, R.M., see Zinni, M.A. 129
 Porto, A.L.M., see Andrade, L.H. 47
 Porto, A.L.M., see Comasseto, J.V. 55
 Preiml, M., Höning, H. and Klempier, N.
 Biotransformation of β-amino nitriles: the role of the *N*-protecting group 115
- Příkrylová, V., see Rauvolfová, J. 233
 Příkrylová, V., see Rauvolfová, J. 259
- Quaedflieg, P.J.L.M., see Sonke, T. 265
- Rauvolfová, J., Kuzma, M., Weignerová, L., Fialová, P., Příkrylová, V., Pišvejcová, A., Macková, M. and Křen, V.
 β-*N*-Acetylhexosaminidase-catalysed synthesis of non-reducing oligosaccharides 233
- Rauvolfová, J., Weignerová, L., Kuzma, M., Příkrylová, V., Macková, M., Pišvejcová, A. and Křen, V.
 Enzymatic synthesis of *N*-acetylglucosaminobioses by reverse hydrolysis: characterisation and application of the library of fungal β-*N*-acetylhexosaminidases 259
- Riva, S., see Intra, A. 95
 Riva, S., see Simerská, P. 219
 Rodríguez, S.D., see Zinni, M.A. 129
 Rodrigues, J.A.R., see Lourenço, E. 37
 Rodrigues, R., see Fardelone, L.C. 41
 Rzyska, M., see Szczesna-Antczak, M. 163
- Schepers, A., see Sonke, T. 265
 Schrader, J., see Etzschmann, M.M.W. 187
 Schultz, S., see Sonke, T. 265
 Schwab, H., see Weis, R. 211
 Schwarz, A., see Nidetzky, B. 241

- Sedmera, P., see Simerská, P. 219
Sell, D., see Etschmann, M.M.W. 187
Sello, G., Bernasconi, S., Orsini, F., Tansi, M., Galli, E., Di Gennaro, P. and Bestetti, G.
Organic phase effect in the biphasic bioconversion of substituted naphthalenes by engineered *E. coli* containing *P. fluorescens* N3 dioxygenase 181
Shimoda, K., Kubota, N., Hirata, T. and Kawano, T.
Asymmetric transformation of enol acetates with esterases from *Marchantia polymorpha* 123
Šimánek, V., see Křen, V. 1
Simerská, P., Pišvejcová, A., Kuzma, M., Sedmera, P., Křen, V., Nicotra, S. and Riva, S.
Regioselective enzymatic acylation of *N*-acetylhexosamines 219
Skouridou, V., Chrysina, E.D., Stamatidis, H., Oikonomakos, N.G. and Kolisis, F.N.
Kinetic and modelling studies on the lipase catalysed enantioselective esterification of (\pm)-perillyl alcohol 9
Skranc, W., see Weis, R. 211
Smaali, I., see Gargouri, M. 89
Šnajdrová, R., Kristová-Mylerová, V., Crestia, D., Nikolaou, K., Kuzma, M., Lemaire, M., Gallienne, E., Bolte, J., Bezouška, K., Křen, V. and Martíňková, L.
Nitrile biotransformation by *Aspergillus niger* 227
Soares, C.M.F., dos Santos, O.A., Olivo, J.E., de Castro, H.F., de Moraes, F.F. and Zanin, G.M.
Influence of the alkyl-substituted silane precursor on sol-gel encapsulated lipase activity 69
Sonke, T., Kaptein, B., Volker Wagner, A.F., Quaedflieg, P.J.L.M., Schultz, S., Ernste, S., Schepers, A., Mommers, J.H.M. and Broxterman, Q.B.
Peptide deformylase as biocatalyst for the synthesis of enantiomerically pure amino acid derivatives 265
Spera, A., see Cantarella, M. 105
Splechtna, B., see Nidetzky, B. 241
Staebler, A., Cruz, A., van der Goot, W., Pinheiro, H.M., Cabral, J.M.S. and Fernandes, P.
Optimization of androstanedione production in an organic-aqueous two-liquid phase system 19
Stamatidis, H., see Skouridou, V. 9
Štefúca, V., see Malík, F. 81
Sugai, T., see Kashiwagi, M. 249
Szabó, A., see Erdélyi, B. 195
Szczęsna-Antczak, M., Antczak, T., Rzyska, M., Modrzejewska, Z., Patura, J., Kalinowska, H. and Bielecki, S.
Stabilization of an intracellular *Mucor circinelloides* lipase for application in non-aqueous media 163
Szczęsna-Antczak, M., see Antczak, T. 155
Tansi, M., see Sello, G. 181
Trelles, J.A., see Bentancor, L. 3
van der Goot, W., see Staebler, A. 19
Volker Wagner, A.F., see Sonke, T. 265
Waché, Y., see Aguedo, M. 31
Wawrzefičyk, C., see Gładkowski, W. 13
Weignerová, L., see Rauvolfová, J. 233
Weignerová, L., see Rauvolfová, J. 259
Weis, R., Poechlauer, P., Bona, R., Skranc, W., Luiten, R., Wubbolts, M., Schwab, H. and Glieder, A.
Biocatalytic conversion of unnatural substrates by recombinant almond *R-HNL* isoenzyme 5 211
Wubbolts, M., see Weis, R. 211
Zanin, G.M., see Soares, C.M.F. 69
Zinni, M.A., Rodríguez, S.D., Pontiggia, R.M., Montserrat, J.M., Iglesias, L.E. and Iribarren, A.M.
Enzymatic alcoholysis of 3',5'-di-*O*-acetyl-2'-deoxynucleosides 129