

Author Index

- Akita, H., see Kinoshita, M. 161
Aktaş, N. and Tanyolaç, A.
Kinetics of laccase-catalyzed oxidative polymerization of catechol 61
Antonia Busquets, M., see Cajal, Y. 315
Arensdor, J., see Holland, H.L. 219
Asano, Y. and Nakamura, K.
Selected abstracts from the 6th Japanese Symposium on the Chemistry of Biocatalysis 225
Asunción Alsina, M., see Cajal, Y. 315
- Baptista, R.P., see Melo, E.P. 299
Bhuiyan, S.H., Kitaoka, M. and Hayashi, K.
A cycloamylose-forming hyperthermostable 4- α -glucanotransferase of *Aquifex aeolicus* expressed in *Escherichia coli* 45
Bhuiyan, S.H., Rus'd, A.A., Kitaoka, M. and Hayashi, K.
Characterization of a hyperthermostable glycogen phosphorylase from *Aquifex aeolicus* expressed in *Escherichia coli* 173
Bitter, W., see El Khattabi, M. 329
Bornscheuer, U.T., see Persson, M. 21
Brown, F.M., see Holland, H.L. 219
- Cabral, J.M.S., see Melo, E.P. 299
Cajal, Y., Antonia Busquets, M., Carvajal, H., Girona, V. and Asunción Alsina, M.
Effects of a fungal lipase on membrane organization evaluated by fluorescence polarization 315
Cantarella, G., Galli, C. and Gentili, P.
Free radical versus electron-transfer routes of oxidation of hydrocarbons by laccase/mediator systems. Catalytic or stoichiometric procedures 135
Carvajal, H., see Cajal, Y. 315
Castro, A.I.R.P., Evtuguin, D.V. and Xavier, A.M.B.
Degradation of biphenyl lignin model compounds by laccase of *Trametes versicolor* in the presence of 1-hydroxybenzotriazole and heteropolyanion [SiW₁₁VO₄₀]⁵⁻ 13
Choi, G.S., see Kim, G.J. 29
Chung, B.H., see Kim, G.J. 29
Cogan, U., see Fishman, A. 193
- D'Ambrosio, A., Rossano, R., Ungaro, N. and Riccio, P.
Proteolytic and milk clotting activities in extracts obtained from the crustaceans *Munida* 145
Derekova, A., see Kambourova, M. 307
Diaz, P., see Prim, N. 339
- Dumitriu, E., Secundo, F., Patarin, J. and Fechete, I.
Preparation and properties of lipase immobilized on MCM-36 support 119
- El Khattabi, M., Van Gelder, P., Bitter, W. and Tommassen, J.
Role of the calcium ion and the disulfide bond in the *Burkholderia glumae* lipase 329
Ellmer, U., see Kosjek, B. 1
Ema, T., Yamaguchi, K., Wakasa, Y., Yabe, A., Okada, R., Fukumoto, M., Yano, F., Korenaga, T., Utaka, M. and Sakai, T.
Transition-state models are useful for versatile biocatalysts: kinetics and thermodynamics of enantioselective acylations of secondary alcohols catalyzed by lipase and subtilisin 181
Esaki, N., see Kulakova, L. 113
Evtuguin, D.V., see Castro, A.I.R.P. 13
- Faber, K., see Kosjek, B. 1
Fechete, I., see Dumitriu, E. 119
Fishman, A. and Cogan, U.
Bio-imprinting of lipases with fatty acids 193
Fujiwara, N., see Kinoshita, M. 161
Fukumoto, M., see Ema, T. 181
- Galkin, A., see Kulakova, L. 113
Galli, C., see Cantarella, G. 135
Gentili, P., see Cantarella, G. 135
Girona, V., see Cajal, Y. 315
Glueck, S.M., see Kosjek, B. 1
Gokul, B., see Kim, G.J. 29
Guo, D., see Ye, M. 89
Guo, H., see Ye, M. 89
- Hahm, M.S., see Kim, G.J. 29
Hayashi, K., see Bhuiyan, S.H. 45, 173
Hayashi, Y., see Talukder, M.M.R. 203
Heisel, R., see Speicher, A. 71
Higaki, S.
Lipase inhibitors for the treatment of acne 377
Hirata, A., see Murakami, Y. 79
Holland, H.L., Brown, F.M., Kerridge, A., Pienkos, P. and Arensdor, J.
Biotransformation of sulfides by *Rhodococcus erythropolis* 219
Hoshi, R., see Murakami, Y. 79
Hube, B., see Stehr, F. 347

- Ito, S., see Nagaki, M. 97
- Ivanovska, N.
Phospholipases as a factor of pathogenicity in microorganisms 357
- Iwaki, H., see Wang, S. 211
- Javier Pastor, F.I., see Prim, N. 339
- Ji, L.-N., see Song, H.-Y. 37
- Joly, S. and Nair, M.S.
Studies on the enzymatic kinetic resolution of β -hydroxy ketones 151
- Kambourova, M., Kirilova, N., Mandeva, R. and Dereková, A.
Purification and properties of thermostable lipase from a thermophilic *Bacillus stearothermophilus* MC 7 307
- Kawakami, J., see Nagaki, M. 97
- Kawanishi, T., see Talukder, M.M.R. 203
- Kayser, M.M., see Wang, S. 211
- Kerridge, A., see Holland, H.L. 219
- Kim, G.J., Lee, E.G., Gokul, B., Hahm, M.S., Prerna, D., Choi, G.S., Ryu, Y.W., Ro, H.-S. and Chung, B.H.
Identification, molecular cloning and expression of a new esterase from *Pseudomonas* sp. KCTC 10122BP with enantioselectivity towards racemic ketoprofen ethyl ester 29
- Kimura, K., see Nagaki, M. 97
- Kinoshita, M., Nakamura, D., Fujiwara, N. and Akita, H.
Total synthesis of (-)-(8*R*, 10*S*)- and (+)-(8*S*, 10*R*)-8-hydroxypolyoda-13,17,21-triene based on enzymatic resolution 161
- Kirilova, N., see Kambourova, M. 307
- Kitaoka, M., see Bhuiyan, S.H. 45, 173
- Koegl, M.F., see Kosjek, B. 1
- Kokotos, G.
Inhibition of digestive lipases by 2-oxo amide triacylglycerol analogues 255
- Korenaga, T., see Ema, T. 181
- Kosjek, B., Stampfer, W., Glueck, S.M., Pogorevc, M., Ellmer, U., Wallner, S.R., Koegl, M.F., Poessl, T.M., Mayer, S.F., Ueberbacher, B., Faber, K. and Kroutil, W.
Optimization of the organic solvent-stable asymmetric hydrogen transfer system of *Rhodococcus ruber* DSM 44541: an activity-growth study 1
- Koyama, T., see Nagaki, M. 97
- Kretschmar, M., see Stehr, F. 347
- Kröger, C., see Stehr, F. 347
- Kroutil, W., see Kosjek, B. 1
- Kulakova, L., Galkin, A., Nakayama, T., Nishino, T. and Esaki, N.
Improvement of thermostability of cold-active serine alkaline protease from the psychrotrophic bacterium *Shewanella* sp. strain Ac10 by rational mutagenesis 113
- Kuwahara, K., see Nagaki, M. 97
- Lalonde, J.J., see Yao, Y. 55
- Lambusta, D., Nicolosi, G., Patti, A. and Sanfilippo, C.
Application of lipase catalysis in organic solvents for selective protection-deprotection of bioactive compounds 271
- Lau, P.C.K., see Wang, S. 211
- Lee, E.G., see Kim, G.J. 29
- Li, N., Zong, M.-H., Peng, H.-S., Wu, H.-C. and Liu, C.
(*R*)-Oxynitrilase-catalyzed synthesis of (*R*)-2-trimethylsilyl-2-hydroxyl-ethylcyanide 7
- Li, Z.-Y., see Wu, Z.-L. 105
- Lille, Ü., see Vallikivi, I. 279
- Liu, C., see Li, N. 7
- Liu, J.-Z., see Song, H.-Y. 37
- Lookene, A., see Vallikivi, I. 279
- Maki, Y., see Nagaki, M. 97
- Mandeva, R., see Kambourova, M. 307
- Mayer, S.F., see Kosjek, B. 1
- Melo, E.P., Baptista, R.P. and Cabral, J.M.S.
Improving cutinase stability in aqueous solution and in reverse micelles by media engineering 299
- Metsala, A., see Vallikivi, I. 279
- Morita, N., see Nagaki, M. 97
- Mukherjee, M.
Human digestive and metabolic lipases—a brief review 369
- Murakami, Y., Hoshi, R. and Hirata, A.
Characterization of polymer-enzyme complex as a novel biocatalyst for nonaqueous enzymology 79
- Nagaki, M., Kuwahara, K., Kimura, K., Kawakami, J., Maki, Y., Ito, S., Morita, N., Nishino, T. and Koyama, T.
Substrate specificities of medium-prenylchain elongating enzymes, hexaprenyl- and heptaprenyl diphosphate synthases 97
- Nair, M.S., see Joly, S. 151
- Nakamura, D., see Kinoshita, M. 161
- Nakamura, K., see Asano, Y. 225
- Nakayama, T., see Kulakova, L. 113
- Nicolosi, G., see Lambusta, D. 271
- Ning, L., see Ye, M. 89
- Nishino, T., see Kulakova, L. 113
- Nishino, T., see Nagaki, M. 97
- Okada, R., see Ema, T. 181
- Parve, O., see Vallikivi, I. 279
- Patarin, J., see Dumitriu, E. 119
- Patti, A., see Lambusta, D. 271
- Peng, H.-S., see Li, N. 7
- Persson, M. and Bornscheuer, U.T.
Increased stability of an esterase from *Bacillus stearothermophilus* in ionic liquids as compared to organic solvents 21
- Pienkos, P., see Holland, H.L. 219
- Pioruńska-Stolzmann, M.
Lipolytic enzymes in atherosclerosis as the potential target of inhibitors 363
- Poessl, T.M., see Kosjek, B. 1
- Pogorevc, M., see Kosjek, B. 1
- Prerna, D., see Kim, G.J. 29
- Prim, N., Sánchez, M., Ruiz, C., Javier Pastor, F.I. and Diaz, P.
Use of methylumbeliferol-derivative substrates for lipase activity characterization 339
- Riccio, P., see D'Ambrosio, A. 145
- Ro, H.-S., see Kim, G.J. 29

- Roeser, H., see Speicher, A. 71
Rossano, R., see D'Ambrosio, A. 145
Ruiz, C., see Prim, N. 339
Rus'd, A.A., see Bhuiyan, S.H. 173
Ryu, Y.W., see Kim, G.J. 29
- Sakai, T., see Ema, T. 181
Sánchez, M., see Prim, N. 339
Sanfilippo, C., see Lambusta, D. 271
Saso, L.
 Preface 253
Schäfer, W., see Stehr, F. 347
Secundo, F., see Dumitriu, E. 119
Shimizu, N., see Talukder, M.M.R. 203
Sikk, P., see Vallikivi, I. 279
Song, H.-Y., Liu, J.-Z., Xiong, Y.-H., Weng, L.-P. and Ji, L.-N.
 Treatment of aqueous chlorophenol by phthalic anhydride-modified horseradish peroxidase 37
Speicher, A., Roeser, H. and Heisel, R.
 Stereoselective oxidoreductase type bioconversions of exogenous substrates by cell suspension cultures of bryophytes 71
Stampfer, W., see Kosjek, B. 1
Stehr, F., Kretschmar, M., Kröger, C., Hube, B. and Schäfer, W.
 Microbial lipases as virulence factors 347
- Takeyama, T., see Talukder, M.M.R. 203
Talukder, M.M.R., Hayashi, Y., Takeyama, T., Zamam, M.M., Wu, J.C., Kawanishi, T. and Shimizu, N.
 Activity and stability of *Chromobacterium viscosum* lipase in modified AOT reverse micelles 203
Tanyolaç, A., see Aktaş, N. 61
Tomassen, J., see El Khattabi, M. 329
Tõugu, V., see Vallikivi, I. 279
- Ueberbacher, B., see Kosjek, B. 1
Ungaro, N., see D'Ambrosio, A. 145
Utaka, M., see Ema, T. 181
- Vallikivi, I., Lille, Ü., Lookene, A., Metsala, A., Sikk, P., Tõugu, V., Vija, H., Villo, L. and Parve, O.
 Lipase action on some non-triglyceride substrates 279
Van Gelder, P., see El Khattabi, M. 329
Vija, H., see Vallikivi, I. 279
Villo, L., see Vallikivi, I. 279
- Wakasa, Y., see Ema, T. 181
Wallner, S.R., see Kosjek, B. 1
Wang, S., Kayser, M.M., Iwaki, H. and Lau, P.C.K.
 Monooxygenase-catalyzed Baeyer–Villiger oxidations: CHMO versus CPMO 211
Weng, L.-P., see Song, H.-Y. 37
Wu, H.-C., see Li, N. 7
Wu, J.C., see Talukder, M.M.R. 203
Wu, Z.-L. and Li, Z.-Y.
 Biocatalytic asymmetric hydrolysis of (\pm)- β -hydroxy nitriles by *Rhodococcus* sp. CGMCC 0497 105
- Xavier, A.M.B., see Castro, A.I.R.P. 13
Xiong, Y.-H., see Song, H.-Y. 37
- Yabe, A., see Ema, T. 181
Yamaguchi, K., see Ema, T. 181
Yano, F., see Ema, T. 181
Yao, Y. and Lalonde, J.J.
 Unexpected enantioselectivity and activity of penicillin acylase in the resolution of methyl 2,2-dimethyl-1,3-dioxane-4-carboxylate 55
Ye, M., Ning, L., Zhan, J., Guo, H. and Guo, D.
 Biotransformation of cinobufagin by cell suspension cultures of *Catharanthus roseus* and *Platycodon grandiflorum* 89
- Zamam, M.M., see Talukder, M.M.R. 203
Zhan, J., see Ye, M. 89
Zong, M.-H., see Li, N. 7