



ELSEVIER

Journal of Molecular Catalysis B: Enzymatic 10 (2000) 639–642

JOURNAL OF
MOLECULAR
CATALYSIS
B: ENZYMATIC

www.elsevier.com/locate/molcatb

Author index

- Adachi, S., see Watanabe, Y. 241
- Aït-Abdelkader, N., see Kademi, A. 395
- Akatsuka, H., see Shibatani, T. 141
- Alvarez-Macarie, E. and Baratti, J.
Short chain flavour ester synthesis by a new esterase from *Bacillus licheniformis* 377
- Arimoto, K., see Iwazaki, I. 183
- Ashin, V. and Trotsenko, Y.
Alcohol oxidase of the methylotrophic yeasts: new findings 295
- Athawale, V. and Manjrekar, N.
Enzymatic synthesis of the acrylic esters: a comparative study 551
- Avalle, B., Friboulet, A. and Thomas, D.
Enzymes and abzymes relationships 39
- Bálint, J., see Egri, G. 583
- Balkus Jr., K.J., see Washmon-Kriel, L. 453
- Baratti, J., see Alvarez-Macarie, E. 377
- Baratti, J.C., see Kademi, A. 395
- Bonete, M.-J., see Pire, C. 409
- Bothe, H., see Poppe, L. 345
- Bröker, G., see Poppe, L. 345
- Brunella, A. and Ghisalba, O.
Recombinant *Lactobacillus leichmannii* ribonucleosidetriphosphate reductase as biocatalyst in the preparative synthesis of 2'-deoxyribonucleoside-5'-triphosphates 215
- Bucke, C., see Chitradon, L. 273
- Buckel, W., see Poppe, L. 345
- Budda, N., see Yongsmith, B. 263
- Cadenas, C., see Marhuenda-Egea, F.C. 555
- Cadenas, E., see Marhuenda-Egea, F.C. 555
- Camacho, M.L., see Pire, C. 409
- Chairisook, C., see Yongsmith, B. 263
- Chattopadhyay, S., see Sharma, A. 531
- Chen, C.-L., see Shiba, T. 605
- Chiappe, C., De Rubertis, A., Marioni, F. and Simonetti, A.
The anomalous course of the microsomal transformation of the *exo*-2,3-epoxides of norbornene and norbornadiene. The possible involvement of a general acid activation during the enzymatic hydrolysis of these oxides 539
- Chinachoti, N., see Sonomoto, K. 325
- Chitradon, L., Mahakhan, P. and Bucke, C.
Oligosaccharide synthesis by reversed catalysis using α -amylase from *Bacillus licheniformis* 273
- Chitradon, L., see Yongsmith, B. 263
- Crout, D.H.G., see Hernaiz, M.J. 403
- Dairi, T., see Liu, J.-Q. 107
- Das, M.L.M., see Rani, A.S. 471
- Demain, A.L., see Peng, Y. 151
- De Rubertis, A., see Chiappe, C. 539
- De Vroom, E., see Youshko, M.I. 509
- Ding, H., see Xia, G. 199
- Efremenko, E.N., see Pojitzkov, A.E. 47
- Efremenko, E.N., see Sergeeva, V.S. 571
- Egri, G., Bálint, J., Peredi, R., Fogassy, E., Novák, L. and Poppe, L.
Lipase-catalyzed enantioselective acetylation of 2-acyloxypropane-1,3-diols. Influence of the acyl moiety on the selectivity 583
- Endo, I. and Odaka, M.
What evidences were elucidated about photoreactive nitrile hydratase? 81
- Endo, N., see Sonomoto, K. 325
- Esaki, N., see Kurihara, T. 57
- Faber, K., see Pogorevc, M. 357
- Fakhreddine, L., see Kademi, A. 395
- Ferrer, J., see Pire, C. 409
- Fischer, M., see Pleiss, J. 491
- Fogassy, E., see Egri, G. 583
- Franke, D., see Schmitz, G. 313
- Friboulet, A., see Avalle, B. 39
- Fujino, T., see Hirata, T. 477
- Fujita, Y., see Watanabe, K. 257
- Ghisalba, O., see Brunella, A. 215
- Golovlev, E., see Golovleva, L. 5
- Golovleva, L. and Golovlev, E.
Microbial cellular biology and current problems of metabolic engineering 5
- Gómez, L., see Villalonga, R. 483
- Gowardhan, C., see Overbeeke, P.L.A. 385
- Hamada, H., see Ishihara, K. 419
- Hamada, H., see Ishihara, K. 429
- Han, X., see Xia, G. 199
- Heijnen, J.J., see Overbeeke, P.L.A. 385
- Hernaiz, M.J. and Crout, D.H.G.
A highly selective synthesis of *N*-acetyllactosamine catalyzed by immobilised β -galactosidase from *Bacillus circulans* 403
- Hirata, T., Shimoda, K., Fujino, T. and Ohta, S.
Biotransformation of hydroxycoumarins by the cultured cells of *Nicotiana tabacum* 477

- Hough, D.W., see Pire, C. 409
 Hu, Y., see Liu, Y.-Y. 523
 Hwang, B.-Y., Scheib, H., Pleiss, J., Kim, B.-G. and Schmid, R.D.
 Computer-aided molecular modeling of the enantioselectivity of *Pseudomonas cepacia* lipase toward γ - and δ -lactones 223
 Hwang, B.-Y., see Jeong, S. 597
 Iio, K., see Nakaishi, T. 351
 Inokuchi, Y., see Nakaishi, T. 351
 Ishibashi, J., see Nagaki, M. 517
 Ishihara, K., Yamaguchi, H., Hamada, H., Nakajima, N. and Nakamura, K.
 Stereoccontrolled reduction of α -keto esters with thermophilic actinomycete, *Streptomyces thermocyaneoviolaceus* IFO 14271 429
 Ishihara, K., Yamaguchi, H., Hamada, H., Nakamura, K. and Nakajima, N.
 Asymmetric reduction of α -keto esters with thermophilic actinomycete: purification and characterization of α -keto ester reductase from *Streptomyces thermocyaneoviolaceus* IFO 14271 419
 Ishizaki, A., see Sonomoto, K. 325
 Ishizuka, M., see Nakaishi, T. 351
 Itoh, N., Yachi, C. and Kudome, T.
 Determining a novel NAD⁺-dependent amine dehydrogenase with a broad substrate range from *Streptomyces virginiae* IFO 12827: purification and characterization 281
 Itoh, N., see Liu, J.-Q. 107
 Iwasaki, Y. and Yamane, T.
 Enzymatic synthesis of structured lipids 129
 Iwazaki, I., Yamashita, S., Arimoto, K., Takahashi, M., Kera, Y. and Yamada, R.-h.
 Apoenzyme from *Cryptococcus humicolus* UJ1 D-aspartate oxidase 183
 Janssen, A.E.M., see Mohy Eldin, M.S. 445
 Jeong, S., Hwang, B.-Y., Kim, J. and Kim, B.-G.
 Lipase-catalyzed reaction in the packed-bed reactor with continuous extraction column to overcome a product inhibition 597
 Jimenez, V.L., see Washmon-Kriel, L. 453
 Jin, C., see Xia, G. 199
 Jongejan, J.A., see Overbeeke, P.L.A. 385
 Kademi, A., Aït-Abdelkader, N., Fakhreddine, L. and Baratti, J.C.
 Characterization of a new thermostable esterase from the moderate thermophilic bacterium *Bacillus circulans* 395
 Kajitani, M., see Nakaishi, T. 351
 Karube, I. and Nomura, Y.
 Enzyme sensors for environmental analysis 177
 Kataoka, M., see Liu, J.-Q. 107
 Katchalski-Katzir, E. and Kraemer, D.M.
 Eupergit® C, a carrier for immobilization of enzymes of industrial potential 157
 Kato, Y., see Nagaki, M. 517
 Kawai, E., see Shibatani, T. 141
 Kawamoto, S., Sonoda, T., Ohtake, A., Suzuki, Y., Okuda, K. and Tatibana, M.
 Alteration in arginine activation of *N*-acetylglutamate synthetase in vitro by disulfide or thiol compounds 191
 Kazankov, G.M., see Sergeeva, V.S. 571
 Kera, Y., see Iwazaki, I. 183
 Khalaf, N., see Overbeeke, P.L.A. 385
 Kharal, Y., see Zhang, Y.-W. 623
 Kim, B.-G., see Hwang, B.-Y. 223
 Kim, B.-G., see Jeong, S. 597
 Kim, J., see Jeong, S. 597
 Kitprechavanich, V., see Yongsmith, B. 263
 Kotormán, M., see Simon, L.M. 565
 Koyama, T., see Nagaki, M. 517
 Koyama, T., see Zhang, Y.-W. 623
 Kraemer, D.M., see Katchalski-Katzir, E. 157
 Králová, B., see Malá, Š. 617
 Kudome, T., see Itoh, N. 281
 Kurihara, T., Esaki, N. and Soda, K.
 Bacterial 2-haloacid dehalogenases: structures and reaction mechanisms 57
 László, K., see Simon, L.M. 565
 Liu, J.-Q., Dairi, T., Itoh, N., Kataoka, M., Shimizu, S. and Yamada, H.
 Diversity of microbial threonine aldolases and their application 107
 Liu, Y.-Y., Xu, J.-H. and Hu, Y.
 Enhancing effect of Tween-80 on lipase performance in enantioselective hydrolysis of ketoprofen ester 523
 Maeting, I., Schmidt, G., Sahm, H. and Stahmann, K.-P.
 Role of a peroxisomal NADP-specific isocitrate dehydrogenase in the metabolism of the riboflavin overproducer *Ashbya gossypii* 335
 Mahakhan, P., see Chitradon, L. 273
 Maki, Y., see Nagaki, M. 517
 Malá, Š. and Králová, B.
 Heterooligosaccharide synthesis catalyzed by α -glucosidase from *Bacillus stearothermophilus* 617
 Malashenko, Y., Sokolov, I. and Romanovskaya, V.
 Role of monooxygenase reaction during assimilation of non-growth substrates by methanotrophs 305
 Malnar, I. and Sih, C.J.
 Chloroperoxidase-catalyzed chlorination of didechloroaglucones and vancomycin 545
 Manjrekar, N., see Athawale, V. 551
 Maráczi, K., see Simon, L.M. 565
 Marhuenda-Egea, F.C., Piera-Velázquez, S., Cadenas, C. and Cadenas, E.
 Enzymatic activity of an extremely halophilic phosphatase from the Archaea *Halobacterium salinarum* in reversed micelles 555
 Marioni, F., see Chiappe, C. 539
 Matsumae, H., see Shibatani, T. 141
 Matsuno, R., see Watanabe, Y. 241
 Mita, D.G., see Mohy Eldin, M.S. 445
 Miyakoshi, T., see Shiba, T. 605
 Miyawaki, Y., see Watanabe, Y. 241
 Mohy Eldin, M.S., Schroën, C.G.P.H., Janssen, A.E.M., Mita, D.G. and Tramper, J.
 Immobilization of penicillin G acylase onto chemically grafted nylon particles 445

- Monsan, P., see Remaud-Simeon, M. 117
- Moody, H.M., see Youshko, M.I. 509
- Mori, K., see Okada, H. 249
- Morikawa, Y., see Okada, H. 249
- Nagaki, M., Takaya, A., Maki, Y., Ishibashi, J., Kato, Y., Nishino, T. and Koyama, T.
One-pot syntheses of the sex pheromone homologs of a codling moth, *Laspeyresia promonella* L. 517
- Nair, R.V., see Salunkhe, M.M. 535
- Nakaishi, T., Ishizuka, M., Iio, K., Yomo, T., Inokuchi, Y., Kajitani, M., Yamamoto, K., Shima, Y. and Urabe, I.
Purification and characterization of Q β replicase with a His-tag 351
- Nakajima, N., see Ishihara, K. 419
- Nakajima, N., see Ishihara, K. 429
- Nakamura, K., see Ishihara, K. 419
- Nakamura, K., see Ishihara, K. 429
- Nakanishi, K., see Watanabe, Y. 241
- Nam, D.-H., see Ryu, D.D.Y. 23
- Nicolosi, G., see Patti, A. 577
- Niku-Paavola, M.-L. and Viikari, L.
Enzymatic oxidation of alkenes 435
- Nishino, T., see Nagaki, M. 517
- Nogawa, M., see Okada, H. 249
- Nomura, Y., see Karube, I. 177
- Novák, L., see Egri, G. 583
- Odaka, M., see Endo, I. 81
- Ogasawara, T., see Ohishi, N. 291
- Ohishi, N., Suzuki, T., Ogasawara, T. and Yagi, K.
Xanthone derivatives as inhibitors for monoamine oxidase 291
- Ohta, S., see Hirata, T. 477
- Ohtake, A., see Kawamoto, S. 191
- Okada, H., Mori, K., Tada, K., Nogawa, M. and Morikawa, Y.
Identification of active site carboxylic residues in *Trichoderma reesei* endoglucanase Cel12A by site-directed mutagenesis 249
- Okuda, K., see Kawamoto, S. 191
- Omori, K., see Shibatani, T. 141
- Overbeeke, P.L.A., Govardhan, C., Khalaf, N., Jongejan, J.A. and Heijnen, J.J.
Influence of lid conformation on lipase enantioselectivity 385
- Patti, A., Piattelli, M. and Nicolosi, G.
Use of *Mucor miehei* lipase in the preparation of long chain 3-O-acylcatechins 577
- Peiker, M., see Pleiss, J. 491
- Peng, Y. and Demain, A.L.
Bioconversion of compactin to pravastatin by *Actinomadura* sp. ATCC 55678 151
- Peredi, R., see Egri, G. 583
- Piattelli, M., see Patti, A. 577
- Piera-Velázquez, S., see Marhuenda-Egea, F.C. 555
- Pire, C., Camacho, M.L., Ferrer, J., Hough, D.W. and Bonete, M.-J.
NAD(P) $^+$ -glucose dehydrogenase from *Haloferax mediterranei*: kinetic mechanism and metal content 409
- Pleiss, J., Fischer, M., Peiker, M., Thiele, C. and Schmid, R.D.
Lipase engineering database Understanding and exploiting sequence–structure–function relationships 491
- Pleiss, J., see Hwang, B.-Y. 223
- Pogorevc, M. and Faber, K.
Biocatalytic resolution of sterically hindered alcohols, carboxylic acids and esters containing fully substituted chiral centers by hydrolytic enzymes 357
- Pojitkov, A.E., Efremenko, E.N. and Varfolomeev, S.D.
Unnatural amino acids in enzymes and proteins 47
- Poppe, L., Bothe, H., Bröker, G., Buckel, W., Stupperich, E. and Rétey, J.
Elucidation of the coenzyme binding mode of further B₁₂-dependent enzymes using a base-off analogue of coenzyme B₁₂ 345
- Poppe, L., see Egri, G. 583
- Potocki de Montalk, G., see Remaud-Simeon, M. 117
- Rani, A.S., Das, M.L.M. and Satyanarayana, S.
Preparation and characterization of amyloglucosidase adsorbed on activated charcoal 471
- Remaud-Simeon, M., Willemot, R.-M., Sarçabal, P., Potocki de Montalk, G. and Monsan, P.
Glucansucrases: molecular engineering and oligosaccharide synthesis 117
- Rétey, J., see Poppe, L. 345
- Romanovskaya, V., see Malashenko, Y. 305
- Ryu, D.D.Y. and Nam, D.-H.
Biomolecular engineering: a new frontier in biotechnology 23
- Sahm, H., see Maeting, I. 335
- Salunkhe, M.M. and Nair, R.V.
Mild and efficient enzymatic oximolysis by supported *Pseudomonas cepacia* lipases 535
- Sarçabal, P., see Remaud-Simeon, M. 117
- Satyanarayana, S., see Rani, A.S. 471
- Scheib, H., see Hwang, B.-Y. 223
- Schmid, R.D., see Hwang, B.-Y. 223
- Schmid, R.D., see Pleiss, J. 491
- Schmidt, G., see Maeting, I. 335
- Schmitz, G., Franke, D., Stevens, S., Takors, R., Weuster-Botz, D. and Wandrey, C.
Regioselective oxidation of terfenadine with *Cunninghamella blakesleiana* 313
- Schroën, C.G.P.H., see Mohy Eldin, M.S. 445
- Sergeeva, V.S., Efremenko, E.N., Kazankov, G.M. and Varfolomeyev, S.D.
Double effect of organic amines (activation and inhibition) on the phosphotriesterase 571
- Sharma, A. and Chattopadhyay, S.
Enantio-reversal in *Candida rugosa* lipase-catalyzed esterification of 3-hydroxybutyric acid 531
- Sheldon, R.A., see Youshko, M.I. 509
- Shiba, T., Xiao, L., Miyakoshi, T. and Chen, C.-L.
Oxidation of isoeugenol and coniferyl alcohol catalyzed by laccases isolated from *Rhus vernicifera* Stokes and *Pycnoporus coccineus* 605

- Shibatani, T., Omori, K., Akatsuka, H., Kawai, E. and Matsumae, H.
Enzymatic resolution of diltiazem intermediate by *Serratia marcescens* lipase: molecular mechanism of lipase secretion and its industrial application 141
- Shima, Y., see Nakaishi, T. 351
- Shimizu, S., see Liu, J.-Q. 107
- Shimoda, K., see Hirata, T. 477
- Sih, C.J., see Malnar, I. 545
- Simon, L.M., Kotormán, M., Maráczki, K. and László, K.
N-acetyl-L-arginine ethyl ester synthesis catalysed by bovine trypsin in organic media 565
- Simonetti, A., see Chiappe, C. 539
- Soda, K., see Kurihara, T. 57
- Sokolov, I., see Malashenko, Y. 305
- Sonoda, T., see Kawamoto, S. 191
- Sonomoto, K., Chinachoti, N., Endo, N. and Ishizaki, A.
Biosynthetic production of nisin Z by immobilized *Lactococcus lactis* IO-1 325
- Stahmann, K.-P., see Maeting, I. 335
- Stevens, S., see Schmitz, G. 313
- Stupperich, E., see Poppe, L. 345
- Suzuki, T., see Ohishi, N. 291
- Suzuki, Y., see Kawamoto, S. 191
- Suzuki, Y., see Watanabe, K. 257
- Švedas, V.K., see Youshko, M.I. 509
- Szczerak, J.
Hydrolysis of lactose in whey permeate by immobilized β -galactosidase from *Kluyveromyces fragilis* 631
- Tada, K., see Okada, H. 249
- Takahashi, M., see Iwazaki, I. 183
- Takahashi, S., Ueda, M. and Tanaka, A.
Effect of the truncation of the C-terminal region of Kex2 endoprotease on processing of the recombinant *Rhizopus oryzae* lipase precursor in the co-expression system in yeast 233
- Takaya, A., see Nagaki, M. 517
- Takimoto, A., see Watanabe, K. 257
- Takors, R., see Schmitz, G. 313
- Tanaka, A., see Takahashi, S. 233
- Tatibana, M., see Kawamoto, S. 191
- Thiele, C., see Pleiss, J. 491
- Thomas, D., see Avalle, B. 39
- Toraya, T.
The structure and the mechanism of action of coenzyme B₁₂-dependent diol dehydratases 87
- Tramper, J., see Mohy Eldin, M.S. 445
- Trotsenko, Y., see Ashin, V. 295
- Tsuji, T., see Yokozeki, K. 207
- Ueda, M., see Takahashi, S. 233
- Ueno, H.
Enzymatic and structural aspects on glutamate decarboxylase 67
- Urabe, I., see Nakaishi, T. 351
- Usami, M., see Watanabe, K. 257
- Van Langen, L.M., see Youshko, M.I. 509
- Van Rantwijk, F., see Youshko, M.I. 509
- Varfolomeev, S.D., see Pojtkov, A.E. 47
- Varfolomeyev, S.D., see Sergeeva, V.S. 571
- Viikari, L., see Niku-Paavola, M.-L. 435
- Villalonga, M.L., see Villalonga, R. 483
- Villalonga, R., Villalonga, M.L. and Gómez, L.
Preparation and functional properties of trypsin modified by carboxymethylcellulose 483
- Wandrey, C., see Schmitz, G. 313
- Washmon-Kriel, L., Jimenez, V.L. and Balkus Jr., K.J.
Cytochrome c immobilization into mesoporous molecular sieves 453
- Watanabe, K., Fujita, Y., Usami, M., Takimoto, A. and Suzuki, Y.
Thermodynamic analysis of *Bacillus cereus* oligo-1,6-glucosidase and its cumulatively proline-introduced mutant proteins by differential scanning calorimetry 257
- Watanabe, Y., Miyawaki, Y., Adachi, S., Nakanishi, K. and Matsuno, R.
Synthesis of lauroyl saccharides through lipase-catalyzed condensation in microaqueous water-miscible solvents 241
- Weuster-Botz, D., see Schmitz, G. 313
- Willemot, R.-M., see Remaud-Simeon, M. 117
- Xia, G., Han, X., Ding, H., Yang, S., Zhang, S. and Jin, C.
Cloning and overexpression of a cytidine 5'-monophosphate N-acetylnuraminic acid synthetase from *Escherichia coli* 199
- Xiao, L., see Shiba, T. 605
- Xu, J.-H., see Liu, Y.-Y. 523
- Yachi, C., see Itoh, N. 281
- Yagi, K., see Ohishi, N. 291
- Yamada, H., see Liu, J.-Q. 107
- Yamada, R.-h., see Iwazaki, I. 183
- Yamaguchi, H., see Ishihara, K. 419
- Yamaguchi, H., see Ishihara, K. 429
- Yamamoto, K., see Nakaishi, T. 351
- Yamane, T., see Iwasaki, Y. 129
- Yamashita, S., see Iwazaki, I. 183
- Yang, S., see Xia, G. 199
- Yokozeki, K. and Tsuji, T.
A novel enzymatic method for the production of purine-2'-deoxyribonucleosides 207
- Yomo, T., see Nakaishi, T. 351
- Yongsmith, B., Kitprechavanich, V., Chitradon, L., Chaisrisook, C. and Budda, N.
Color mutants of *Monascus* sp. KB9 and their comparative glucoamylases on rice solid culture 263
- Youshko, M.I., Van Langen, L.M., De Vroom, E., Moody, H.M., Van Rantwijk, F., Sheldon, R.A. and Švedas, V.K.
Penicillin acylase-catalyzed synthesis of ampicillin in “aqueous solution–precipitate” systems. High substrate concentration and supersaturation effect 509
- Zhang, S., see Xia, G. 199
- Zhang, Y.-W., Kharel, Y. and Koyama, T.
Overexpression, purification, and characterization of se-lenomethionyl farnesyl diphosphate synthase of *Bacillus stearothermophilus* 623