



**A Novel and Efficient
Synthesis of Cadaverine**

S A Scoggin

A Novel And Efficient Synthesis Of Cadaverine

Jose M. Palomo, Cesar Mateo



A Novel And Efficient Synthesis Of Cadaverine:

A Novel and Efficient Synthesis of Cadaverine S. A. Scoggin, 2009-11-18 Graduation week should be an exciting time for the Chemistry Department of Allston University as they prepare to move from their shabby haunted laboratories into a brand new building Happily oblivious they don't know that the President of the University a candidate for an empty Senate seat and hungry for good publicity is scheming to trade away their building to poach a Professor of Physics on the Nobel short list The week might turn out to be more exciting than anyone had reckoned what with the two different infernal devices stashed in the basement and the assassination scheduled for the dedication ceremony

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Enzyme or Whole Cell Immobilization for Efficient

Biocatalysis: Focusing on Novel Supporting Platforms and Immobilization Techniques Wen-Yong Lou, Jun

Ge, Changzhu Wu, Jesús Fernández Lucas, 2021-04-21 *Canadian Journal of Chemistry*, 1987 **Index Medicus**, 2001-05

Vols for 1963 include as pt 2 of the Jan issue Medical subject headings *Asymmetric and Selective Biocatalysis* Jose M. Palomo, Cesar Mateo, 2019-04-12 This Issue contains one communication six articles and two reviews The communication from Paola Vitale et al represents a work where whole cells were used as biocatalysts for the reduction of optically active chloroalkyl arylketones followed by a chemical cyclization to give the desired heterocycles Among the various whole cells screened baker's yeast *Kluyveromyces marxianus* CBS 6556 *Saccharomyces cerevisiae* CBS 7336 *Lactobacillus reuteri* DSM 20016 baker's yeast provided the best yields and the highest enantiomeric ratios 95:5 in the bioreduction of the above ketones In this respect valuable chiral non racemic functionalized oxygen containing heterocycles e.g. S styrene oxide S 2 phenyloxetane S 2 phenyltetrahydrofuran amenable to be further elaborated on can be smoothly and successfully generated from their prochiral precursors Studies about pure biocatalysts with mechanistical studies application in different reactions and new immobilization methods for improving their stability were reported in five different articles The article by Su Yan Wang et al describes the cloning expression purification and characterization of an N acetylglucosamine 2 epimerase from *Pedobacter heparinus* PhGn2E For this several N acylated glucosamine derivatives were chemically synthesized and used to test the substrate specificity of the enzyme The mechanism of the enzyme was studied by hydrogen deuterium NMR The study at the anomeric hydroxyl group and C 2 position of the substrate in the reaction mixture confirmed the epimerization reaction via ring opening enolate formation Site directed mutagenesis was also used to confirm the proposed mechanism of this interesting enzyme The article by Forest H Andrews et al studies two enzymes benzoylformate decarboxylase BFDC and pyruvate decarboxylase PDC which catalyze the non oxidative decarboxylation of 2 keto acids with different specificity BFDC from *Pseudomonas putida* exhibited very limited activity with pyruvate whereas the PDCs from *S cerevisiae* or from *Zymomonas mobilis* showed virtually no activity with benzoylformate phenylglyoxylate After studies using saturation

mutagenesis the BFDC T377L A460Y variant was obtained with 10 000 fold increase in pyruvate benzoylformate The change was attributed to an improvement in the K_m value for pyruvate and a decrease in the k_{cat} value for benzoylformate The characterization of the new catalyst was performed providing context for the observed changes in the specificity The article by Xin Wang et al compares two types of biocatalysts to produce D lysine L lysine in a cascade process catalyzed by two enzymes racemase from microorganisms that racemize L lysine to give D L lysine and decarboxylase that can be in cells permeabilized cells and the isolated enzyme The comparison between the different forms demonstrated that the isolated enzyme showed the higher decarboxylase activity Under optimal conditions 750 7 mmol L D lysine was finally obtained from 1710 mmol L L lysine after 1 h of racemization reaction and 0 5 h of decarboxylation reaction D lysine yield could reach 48 8% with enantiomeric excess ee of 99% In the article by Rivero and Palomo lipase from *Candida rugosa* CRL was highly stabilized at alkaline pH in the presence of PEG which permitted its immobilization for the first time by multipoint covalent attachment on different aldehyde activated matrices Different covalent immobilized preparation of the enzyme was successfully obtained The thermal and solvent stability was highly increased by this treatment and the novel catalysts showed high regioselectivity in the deprotection of per O acetylated nucleosides The article by Robson Carlos Alnoch et al describes the protocol and use of a new generation of tailor made bifunctional supports activated with alkyl groups that allow the immobilization of proteins through the most hydrophobic region of the protein surface and aldehyde groups that allows the covalent immobilization of the previously adsorbed proteins These supports were especially used in the case of lipase immobilization The immobilization of a new metagenomic lipase LipC12 yielded a biocatalyst 3 5 fold more active and 5000 fold more stable than the soluble enzyme The PEGylated immobilized lipase showed high regioselectivity producing high yields of the C 3 monodeacetylated product at pH 5 0 and 4 C Hybrid catalysts composed of an enzyme and metallic complex are also treated in this Special Issue The article by Christian Herrero et al describes the development of the Mn TpCPP Xln10A artificial metalloenzyme obtained by non covalent insertion of Mn III meso tetrakis p carboxyphenyl porphyrin Mn TpCPP 1 Mn into xylanase 10A from *Streptomyces lividans* Xln10A The complex was found able to catalyze the selective photo induced oxidation of organic substrates in the presence of RuII bpy 3 2 as a photosensitizer and CoIII NH₃ 5Cl 2 as a sacrificial electron acceptor using water as oxygen atom source The two published reviews describe different subjects with interest in the fields of biocatalysis and mix metallic biocatalysis respectively The review by Anika Scholtissek et al describes the state of the art regarding ene reductases from the old yellow enzyme family OYEs to catalyze the asymmetric hydrogenation of activated alkenes to produce chiral products with industrial interest The dependence of OYEs on pyridine nucleotide coenzyme can be avoided by using nicotinamide coenzyme mimetics In the review three main classes of OYEs are described and characterized The review by Yajie Wang and Huimin Zhao highlights some of the recent examples in the past three years that combine transition metal catalysis with enzymatic catalysis With recent advances in protein engineering

catalyst synthesis artificial metalloenzymes and supramolecular assembly there is great potential to develop more sophisticated tandem chemoenzymatic processes for the synthesis of structurally complex chemicals In conclusion these nine publications give an overview of the possibilities of different catalysts both traditional biocatalysts and hybrids with metals or organometallic complexes to be used in different processes particularly in synthetic reactions under very mild reaction conditions

Progress in Botany / Fortschritte der Botanik Heinz Ellenberg, Karl Esser, Klaus Kubitzki, Eberhard Schnepf, Hubert Ziegler, 2012-12-06

Biosynthesis of Amino Acids and their Derived Chemicals from Renewable Feedstock Liming Liu, Yi-Rui Wu, Congqiang Zhang, K. Madhavan Nampoothiri, 2022-01-24

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will help you test your understanding of photosynthesis the practice

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