

Dr. R.H. Müller: Publications since 1996

Publications in scientific journals

- Müller, R.H., and W. Babel.** 1996. Measurement of growth at very low rates ($\mu \geq 0$), an approach to study the energy requirement for the survival of *Alcaligenes eutrophus* JMP134. Appl. Environ. Microbiol. 62: 147-151
- Müller, R.H., N. Loffhagen, and W. Babel.** 1996. Rapid extraction of (di)nucleotides from bacterial cells and determination by ion-pair reversed-phase HPLC. J. Microbiol. Methods 25: 29-35
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- Müller, R.H., and W. Babel.** 1996. Low energy gain from formate oxidation during bacterial growth on 2,4-dichlorophenoxyacetic acid. J. Basic Microbiol. 36: 107-111
- Hoffmann, D., R.H. Müller, B. Kiesel, and W. Babel.** 1996. Isolation and characterization of an alkaliphilic bacterium capable of growing on 2,4-dichlorophenoxyacetic acid and 4-chloro-2-methylphenoxyacetic acid. Acta Biotechnol. 16: 121-131
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- Merting, H., R.H. Müller, and W. Babel.** 1998. Etherolytic cleavage of 4-(2,4-dichlorophenoxy)butyric acid and 4-(4-chloro-2-methylphenoxy)butyric acid by species of *Rhodococcus* and *Aureobacterium* isolated from an alkaline environment. J. Basic Microbiol. 38: 257-267
- Müller, R. H., S. Jorke, S. Kleinstaub, and W. Babel.** 1998. Degradation of various chlorophenols under alkaline conditions by Gram-negative bacteria closely related to *Ochrobactrum anthropi*. J. Basic Microbiol. 38: 269-281
- Kleinstaub, S., D. Hoffmann, R.H. Müller, and W. Babel.** 1998. Detection of chlorocatechol 1,2-dioxygenase genes in proteobacteria by PCR and gene probes. Acta Biotechnol. 18: 231-240
- Müller, R.H., S. Jorke, S. Kleinstaub, and W. Babel.** 1999. *Comamonas acidovorans* strain MC1: a new isolate capable of degrading the chiral herbicides dichlorprop and mecoprop and the herbicides 2,4-D and MCPA. Microbiol. Res. 154: 241-246
- Müller, R.H., and W. Babel.** 1999. Separation of two dichlorprop/ α -ketoglutarate dioxygenases with enantiospecific properties from *Comamonas acidovorans* MC1. Acta Biotechnol. 19: 349-355
- Müller, R.H., and W. Babel.** 2000. A theoretical study on the metabolic requirements resulting from α -ketoglutarate-dependent cleavage of phenoxyalkanoates. Appl. Environ. Microbiol. 66: 339-344
- Simon, D., R.H. Müller, H.J. Große, T. Bley, and W. Babel.** 2000. Growth response of *Ralstonia eutropha* JMP 134 to long-term exposure to toxic substrates in nutristat cultivation as indicated by on-line fluorescence measurement. Bioprocess Engin. 23: 1-10
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Müller, R.H., and W. Babel. 1995. Mikrobiologische Grundlagen zur Dekontamination Herbizid belasteten Gebäudematerials. In: H.L. Jessberger (ed.). Sanierung von Altlasten. A.A. Balkema, Rotterdam, Brookfield, pp. 147-153

Müller, R.H., R.A. Müller, and W. Babel. 1996. Degradation von Phenoxyalkansäure-Herbiziden durch alkaliphile Mikroorganismen - Dekontamination von belastetem Bauschutt. In: R. Stegmann (ed.) Neue Techniken der Bodenreinigung. Economica Verlag, Bonn, pp. 373-384

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Müller, R.H., R.A. Müller, Y. Jahn, and W. Babel. 2000. Bioremediation of herbicide-contaminated building rubble by a defined microbial mixed culture. In: 5th International Symposium and Exhibition on Environmental Contamination in Central and Eastern Europe. Prague 2000, www.iicer.fsu.edu/Prague2000

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