



Jan Masák, Ph.D.
Professor of Biotechnology

1988 – 2003 Assistant Professor, Department of Fermentation Chemistry and Bioengineering, ICT Prague
2003 – 2009 Associated Professor, Department of Fermentation Chemistry and Bioengineering, ICT Prague
2009 – Professor of Biotechnology, Department of Fermentation Chemistry and Bioengineering, ICT Prague
2010 – Vice Dean of the Faculty of Food and Biochemical Technology, ICT Prague
2012 – Head of Department of Biotechnology, ICT Prague

Main research topics to date:

microbial biotechnology processes; biodegradation of xenobiotics; interaction of microorganisms and physiology of biofilm populations, biosynthesis of biological active compounds.

Research activities

WOS publications: 74

Sum of Times Cited without self-citations: 236

H-index: 10

Selected publications:

Vesely, M; Patek, M; Nesvera, J; Cejkova, A; Masak, J; Jirku, V; Host-vector system for phenol-degrading *Rhodococcus erythropolis* based on *Corynebacterium* plasmids. APPLIED MICROBIOLOGY AND BIOTECHNOLOGY; 2003, 61, 523-527

number of citations 24, IF 3,337

Kubac, D; Cejkova, A; Masak, J; Jirku, V; Lemaire, M; Gallienne, E; Bolte, J; Stloukal, R; Martinkova, L; Biotransformation of nitriles by *Rhodococcus equi* A4 immobilized in LentiKats (R). Conference: 7th International Symposium on Biocatalysis and Biotransformations, Location: Delft, NETHERLANDS Date: JUL 03-08, 2005; JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC; 2006, 39, 59-61

number of citations 22, IF 2,128

Vejvoda, V; Kaplan, O; Klozova, J; Masak, J; Cejkova, A; Jirku, V ; Stloukal, R; Martinkova, L; Mild hydrolysis of nitriles by *Fusarium solani* strain O1. FOLIA MICROBIOLOGICA, 2006, 51, 251-256

number of citations 19, IF 1,000

Cejkova, A; Masak, J; Jirku, V; Vesely, M; Patek, M; Nesvera, J; Potential of *Rhodococcus erythropolis* as a bioremediation organism. WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY, 2005, 21, 317-321

number of citations 17, IF 1,779

Hoskova, M; Schreiberova, O ; Jezdik, R; Chudoba, J; Masak, J; Sigler, K; Rezanka, T; Characterization of rhamnolipids produced by non-pathogenic *Acinetobacter* and *Enterobacter* bacteria. BIORESOURCE TECHNOLOGY, 2013, 130, 510-516

number of citations 12, IF 4,494

Rezanka, T; Schreiberova, O; Krulikovska, T; Masak, J; Sigler, K; RP-HPLC/MS-APCI analysis of odd-chain TAGs from *Rhodococcus erythropolis* including some regioisomers. CHEMISTRY AND PHYSICS OF LIPIDS, 2010, 163, 373-380

number of citations 10, IF 2,422

Masak, J; Cejkova, A; Schreiberova, O; Rezanka, T; *Pseudomonas* biofilms: possibilities of their control. FEMS MICROBIOLOGY ECOLOGY, 2014, 89, 1-14

number of citations 9, IF 3,568

Jirku, V., Cejkova, A., Schreiberova, O., Jezdik, R., Masak, J.; Multicomponent biosurfactants - A "Green Toolbox" extension. BIOTECHNOLOGY ADVANCES, 2015, 33(6), 1272-1276

number of citations 0, IF 9,015