

CURRICULUM VITAE

Mgr. Jiří Holátko, PhD.

Surname, given name: Holátko, Jiří
Date and place of birth: 13th of May, 1979, Znojmo, Czech Republic



Education:

1993 – 1997 Gymnázium Dr. Polesného, Znojmo
1997 – 2002 Faculty of Science, **Charles University in Prague**, Microbiology programme, MSc.
2002 – 2009 Faculty of Science, **Charles University in Prague**, Microbiology programme, PhD.

Profession experience:

1999 – 2002 work on diploma thesis ‘Analysis of regulation of promoter activity of the *per* gene from the pGA1 plasmid in *Corynebacterium glutamicum*’ in the Institute of Microbiology, Academy of Sciences of the Czech Republic
2002 – 2009 work on PhD. thesis ‘Study of regulation of branched-chain amino acid biosynthesis in *C. glutamicum* and construction of valine producing strain’ in the Institute of Microbiology, Academy of Sciences of the Czech Republic
2009 – 2014 post-doc position, participation on the project ‘Transcriptional regulatory network(s) controlled by sigma factors in *C. glutamicum*’ in the Institute of Microbiology, Academy of Sciences of the Czech Republic

Stays abroad:

2003, 1 month Department of Biotechnology, **Research center Jülich, Germany**; supervisor: V. Wendisch
2003, 2 month Department of Microbiology and Biotechnology, **University of Ulm, Germany**; supervisor: prof. B. Eikmanns, topic: Transcription regulation of genes *aceE*, *aceF*, and *pqo* in *C. glutamicum*
2004–2005, 6 month Department of Microbiology and Biotechnology, **University of Ulm, Germany**; supervisor: prof. B. Eikmanns, work on PhD. thesis
2006, 2 weeks Institute of Microbiology and Biotechnology, **University of Latvia, Rīga**; supervisor: prof. M. Ruklisha
2007, 1 month Instit. of Microbiol. and Biotech., **University of Latvia, Rīga**; supervisor: prof. M. Ruklisha, topic: Role of stringent response in regulation of biosynthesis of valine in *C. glutamicum*

Participation on projects:

GAČR, 204/09/J015, Transcriptional regulatory network(s) controlled by sigma factors in *C. glutamicum*
MŠMT, 2B08062, Genetic and physiological manipulations in bacterial degraders of aromatic pollutants and their applications
GAČR, 525/01/0916, Genetic analysis of biosynthesis of essential amino acids valine, leucine and isoleucine in *Corynebacterium glutamicum*
GAČR, 525/04/0548, Metabolic design in *C. glutamicum* strains producing essential amino acids
EU, QLK3-2000-00497, Construction of *C. glutamicum* strains producing either L-valine or D-pantothenic acid
GAČR, 204/06/0330, Expression of *Corynebacterium glutamicum* genes in the stationary phase of growth
GAČR, 204/07/J12, Regulation of stress response in *Corynebacterium glutamicum*

Received projects:

GAČR, P302/12/P633: Vývoj systému in vitro transkripce pro *Corynebacterium glutamicum* a charakterizace aktivity RNA polymerasy

List of publications:

Patek, Miroslav; **Holatko, Jiri**; Busche, Tobias; et al. (2013): *Corynebacterium glutamicum* promoters: a practical approach. Microbial Biotechnology, Volume: 6, Issue: 2, Special Issue: SI, Pages: 103-117

Holatko, Jiri; Silar, Radoslav; Rabatinova, Alzbeta; et al. (2012): Construction of *in vitro* transcription system for *Corynebacterium glutamicum* and its use in the recognition of promoters of different classes. Applied Microbiology and Biotechnology, Volume: 96, Issue: 2, Pages: 521-529

Nesvera, Jan; **Holatko, Jiri**; Patek, Miroslav (2012): Analysis of *Corynebacterium glutamicum* Promoters and Their Applications. Sub-cellular biochemistry, Volume: 64, Pages: 203-21 (book chapter)

Denina, Ilze; Paegle, Longina; Prouza, Marek; **Holatko, Jiri**; et al. (2010): Factors enhancing L-valine production by the growth-limited L-isoleucine auxotrophic strain *Corynebacterium glutamicum* DeltailvA DeltapanB ilvNM13 (pECKAilvBNC). Journal of Industrial Microbiology & Biotechnology, Volume: 37, Issue: 7, Pages: 689-699

Holatko, Jiri; Elisakova, Veronika; Prouza, Marek; et al. (2009): Metabolic engineering of the L-valine biosynthesis pathway in *Corynebacterium glutamicum* using promoter activity modulation. Journal of Biotechnology, Volume: 139, Issue: 3, Pages: 203-210

Blombach, Bastian; Schreiner, Mark E.; **Holatko, Jiri**; et al. (2007): L-valine production with pyruvate dehydrogenase complex-deficient *Corynebacterium glutamicum*. Appl Environ Microbiol, Volume: 73, Issue: 7, Pages: 2079-2084

Schreiner, Mark E.; Riedel, Christian; **Holatko, Jiri**; et al. (2006): Pyruvate:quinone oxidoreductase in *Corynebacterium glutamicum*: molecular analysis of the *pqo* gene, significance of the enzyme, and phylogenetic aspects. J Bacteriol, Volume: 188; Issue: 4, Pages: 1341-1350

Elisakova, Veronika; Patek, Miroslav; **Holatko, Jiri**; et al. (2005): Feedback-resistant acetohydroxy acid synthase increases valine production in *Corynebacterium glutamicum*. Appl Environ Microbiol, Volume: 71, Issue: 1, Pages: 207-213

Schreiner, Mark E.; Fiur, Diana; **Holatko, Jiri**; et al. (2005): E1 enzyme of the pyruvate dehydrogenase complex in *Corynebacterium glutamicum*: molecular analysis of the gene and phylogenetic aspects. J Bacteriol, Volume: 187, Issue: 17, Pages: 6005-6018

Awards:

Young Microbiologist 2009 Award, Czechoslovak Society for Microbiology

Positions

Secretary of the Czechoslovak Society for Microbiology, 2013-2016

Skills:

Driving licence B, PC user skills (internet, e-mail), MS Office, software for molecular genetics

Hobbies:

aquarium, history, cooking, travelling, gardening, hiking