



Kristýna Slámová (short CV)

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Education: 2002 – 2007 General and Applied Biochemistry
University of Chemistry and Technology, Prague
Graduated with honors

2007 – 2012 Postgradual study of Microbiology,
University of Chemistry and Technology, Prague and Institute of Microbiology
of the Czech Academy of Sciences

Employed: Since 2005 member of the **Laboratory of Biotransformation** at the Institute of
Microbiology of the Czech Academy of Sciences
Current position: **research fellow.**

Research: Glycosidases from filamentous fungi, their biochemical and catalytic
properties, isolation and heterologous expression, enzyme engineering of
glycosidases, enzymatic synthesis of novel bioactive oligosaccharides and
glycomimetics

Recent publications:

- Bojarová P., Kulik N., Hovorková M., **Slámová K.**, Pelantová H., Křen V.: The β -*N*-acetylhexosaminidase in the synthesis of bioactive glycans: Protein and reaction engineering. *Molecules* (2019) 24, 599.
- Bojarová P., Kulik N., **Slámová K.**, Hubálek M., Kotik M., Cvačka J., Pelantová H., Křen V.: Selective β -*N*-acetylhexosaminidase from *Aspergillus versicolor* – a tool for producing bioactive carbohydrates. *Appl. Microbiol. Biotechnol.* (2019) 103, 1737-1753.
- **Slámová K.**, Kapešová J., Valentová K.: “Sweet flavonoids”: Glycosidase-catalyzed modifications. *Int. J. Mol. Sci.* (2018) 19, 2126.
- **Slámová K.**, Bojarová P.: Engineered *N*-acetylhexosamine-active enzymes in glycoscience. *BBA Gen. Subj.* (2017) 1861, 2070-2087.
- Bojarová P., Chytil P., Mikulová B., Bumba L., Konefal R., Pelantová H., Krejzová J., **Slámová K.**, Petrásková L., Kotrčová L., Cvačka J., Etrych T., Křen V.: Glycan-decorated HPMA copolymers as high-affinity lectin ligands. *Polym. Chem.* (2017) 8, 2647-2658.
- Krejzová J., Kulik N., **Slámová K.**^{*}, Křen, V.: Expression of human β -*N*-acetylhexosaminidase B in yeast eases the search for selective inhibitors. *Enzyme Microb. Technol.* (2016) 89, 1-6.
- **Slámová K.**^{*}, Krejzová J., Marhol P., Kalachova L., Kulik N., Pelantová H., Cvačka J., Křen V.: Synthesis of derivatized chitooligomers using transglycosidases engineered from the fungal GH20 β -*N*-acetylhexosaminidase. *Adv. Synth. Catal.* (2015) 357, 1941-1950.