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Iminosugars as glucosylceramide processing enzymes inhibitors: design, synthesis and evaluation

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List of Publications

1. Lahav, D.; Liu, B. (Joint first author); van den Berg, R.J.B.H.N.; van den Nieuwendijk, A.M.C.H.; Wennekes, T.; Ghisaidoobe, A.; Breen, I.; Ferraz, M.; Kuo, C. L.; Wu, L.; Geurink, P.; Ovaa, H.; van der Marel, G.; van der Stelt, M.; Boot, R.; Davies, G.; Aerts, J.; Overkleeft, H. A fluorescence polarization activity-based protein profiling assay in the discovery of potent, selective inhibitors for human non-lysosomal glucosylceramidase. *JACS*. accepted 22 Sept. **2017**.
2. Cao, S.; Liu, B.; Cheng, B. Z.; Lu, F. P.; Wang, Y. P.; Li, Y. Mechanisms of Zn(II) binded to collagen and its effect on the capacity of eco-friendly Zn-Cr combination tanning system. *J. Hazard. Mater.* **2017**, *321*, 203-209.
3. Cao, S.; Xin, Q.; Zhou, S.; Xue, B.; Liu, B.; Lu, F.; Wang, Y.; Li, Y. Amyloliqefaciens TCCC 11319, a new Cr(III)-tolerant bacterium for future chromium tanned leather shavings disposal. *RSC Adv.* 13 Jan **2017**, accepted.
4. Cao, S.; Zeng, Y. H.; Cheng, B. Z.; Zhang, W. H.; Liu, B. Effect of pH on Al/Zr-binding sites between collagen fibers in tanning process. *J. Am. Leather Chem. As.* **2016**, *111*, 242-249.
5. Cao, S.; Cheng, B. Z.; Liu, B.; He, X. Effect of mixed metal tanning using zinc and titanium with suitable masking agents. *J. Soc. Leath. Tech. Chem.* **2015**, *99*, 120-123.
6. Cao, S.; Cheng, B. Z.; Wang, Q. O.; Liu, B. Characterization and mechanism of zinc salts as tanning agents. *J. Am. Leather. Chem. As.* **2013**, *108*, 428-433.

Curriculum Vitae

Bing Liu was born on January 13th 1989 in Puyang, Henan, China. During her High School years, she got interested in Chemistry. After the College Entry Examinations, she enrolled at the College of Chemistry and Material Science at Shandong Agricultural University. Here she obtained her Bachelor's Degree in Applied Chemistry. During this time she also took on English Literature as a second major, which resulted in another Bachelor's Degree obtained in 2009.

After completing her bachelor studies, she entered the College of Life Science at Beijing Normal University. Here she followed a major in Biochemistry and Molecular Biology. She obtained her Master's Degree in 2012, under the supervision of Prof. Xiang Benqiong and Prof. Wei Qun.

Following this she applied for a PhD study at Leiden University in 2012. In December of that year she started her study in the Bio-Organic Synthesis Group under the supervision of Prof. Dr. Herman S. Overkleeft and Dr. Richard J. B. H. N. van den Berg. She was awarded a scholarship by the CSC (China Scholarship Council) in 2013, which lasted until 2016. Her PhD study was focussed on the iminosugars as inhibitors for glucosylceramide processing enzymes. Her research consisted of the synthesis and the evaluation of the activity of various iminosugar compound libraries.