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## Unraveling substrate dynamics and identifying inhibitors in hydrolysates of lignocellulosic biomass by exometabolomics

Zha, Y.

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**Author:** Zha, Ying

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## LIST OF PUBLICATIONS

Zha Y, Slomp R, Groenestijn J, Punt PJ: Preparation and Evaluation of Lignocellulosic Biomass Hydrolysates for Growth by Ethanogenic Yeasts. In *Microbial Metabolic Engineering: Methods and Protocols*. Qiong C Ed., Humana Press: New York, USA, 2012, pp. 245-259.

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Zha Y, Punt PJ: Exometabolomics approaches in studying the application of lignocellulosic biomass as fermentation feedstock. *Metabolites* **2013**, 3, 119-143.

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Zha Y, Westerhuis JA, Muilwijk B, Overkamp KM, Nijmeijer BM, Coulier L, Amilde AK, Punt PJ: Identifying inhibitory compounds in lignocellulosic biomass hydrolysates using an exometabolomics approach. Submitted to *BMC Biotechnol.*



## CURRICULUM VITAE

Ying Zha was born on the 30th December 1983 in Yinchuan, the capital city of Ningxia province, China, where she attended Tanglai high school in the period of 1996 to 2002. In 2002, she entered Zhejiang University in Hangzhou, the capital city of Zhejiang province, and majored in Environmental Engineering. During her undergraduate education, she studied as an exchange student in The Hong Kong University of Science & Technology for a year, majored in Chemical Engineering. She obtained her bachelor degree in 2006 and moved to the Netherlands to follow the master program of Life Science & Technology in TUDelft. During her master education, she conducted an internship at DSM Food Specialties, studied the influence of media composition on morphology development of *Aspergillus niger*. Her master thesis was carried out in the Industrial Microbiology group of TUDelft, on the topic of the regulation of the *TIR1* gene under anaerobic conditions in *Saccharomyces cerevisiae*, and the involvement of the Rim101 pathway.

After obtaining her master diploma in July 2008, she started to work as a PhD candidate in TNO Quality of Life (the current department of Microbiology & Systems Biology), in Zeist, under the supervision of Professor Peter Punt. Her research project, which is within the framework of Netherlands Metabolomics Centre (NMC), is focused on identifying inhibitors in lignocellulosic biomass hydrolysates using an exometabolomics approach, as illustrated in detail in this thesis. Starting from August 2013, she is employed as assistant scientist at DSM Biotechnology Center, in Delft.

