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Transcriptional control of pectin degrading enzymes in *Aspergillus niger* Niu, J.; Niu J.

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Curriculum Vitae

Jing Niu was born in Qujing, Yunan Province, China during the hot summer of 1986, on the 20th of June. In 2002, she attended senior middle school at Qujing NO. 1 Middle School. From 2005 to 2009 she studied Biological Sciences at the Minzu University of China. After graduation with a Bachelor degree, she went to the Chinese Academy of Agricultural Sciences (CAAS) to study Microbiology with Prof. Dr. Xiliang Jiang. In 2012, she graduated with a Master degree and was awarded a scholarship by the Chinese Scholarship Council (CSC) to study for her PhD at Leiden University, where she joined the Molecular Microbiology and Biotechnology research group and started her PhD under the supervision of Dr. A.F.J. Ram and Prof. Dr. P.J. Punt. The topic of her project was “Transcriptional control of pectin degrading enzymes in *Aspergillus niger*”, and the results are described in this thesis.

Publications

1. **Niu, J.**, Alazi, E., Reid, I.D., Arentshorst, M., Punt P.J., Visser, J., Tsang, A., and Ram, A.F.J., 2017 An evolutionarily conserved transcriptional activator-repressor module controls expression of genes for D-galacturonic acid utilization in *Aspergillus niger*. *Genetics* 205: 169-183.
2. Alazi, E.*, **Niu, J.***, Kowalczyk, J.E.*, Peng, M., Pontes, M.V.A., van Kan, J.A.L., Visser, J., de Vries, R.P., and Ram, A.F.J., 2016 The transcriptional activator GaaR of *Aspergillus niger* is required for release and utilization of D-galacturonic acid from pectin. *FEBS Letters* 590: 1804-1815. (*co-first author)
3. **Niu, J.**, Arentshorst, M., Seelinger, F., Ram, A.F.J, and Ouedraogo, J.P., 2016 A set of isogenic auxotrophic strains for constructing multiple gene deletion mutants and parasexual crossings in *Aspergillus niger*. *Arch Microbiol* 198: 861-868.
4. **Niu, J.**, Arentshorst, M., Nair, P.D.S., Dai, Z.Y., Baker, S.E., Frisvad, J.C., Nielsen, K.F., Punt, P.J., and Ram, A.F.J., 2016 Identification of a classical mutant in the industrial host *Aspergillus niger* by systems genetics: *LaeA* is required for citric acid production and regulates the formation of some secondary metabolites. *G3-Genes Genomes Genetics* 6: 193-204.
5. **Niu, J.**, Homan, T.G., Arentshorst, M., de Vries, R.P., Visser, J., and Ram, A.F.J., 2015 The interaction of induction and repression mechanisms in the regulation of galacturonic acid-induced genes in *Aspergillus niger*. *Fungal Genetics and Biology* 82: 32-42.
6. Arentshorst, M., **Niu, J.**, and Ram, A.F.J., 2015 Efficient generation of *Aspergillus niger* knock out strains by combining NHEJ mutants and a split marker approach, pp. 263-272 in *Genetic Transformation Systems in Fungi*, Volume 1, edited by M. A. van den Berg and K. Maruthachalam. Springer International Publishing, Cham.