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Appendices

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About the author
Acknowledgements

Today is exactly the same day when I came to Groningen four years ago, time flies. Full of memorable experiences are far beyond words. This moment I feel grateful to all of the people I met in Groningen.

First and foremost I would like to express my sincere gratitude to my supervisor Prof. dr. H. J. Haisma. Hidde, I will never forget it's you who gives me the most support, guidance, motivation, and trust in my PhD. I don't know how many times I directly went to your office to ask questions, every time you stopped working in hand to solve my problem with patience. The start of my PhD project was not easy, your continuous encouragement helped my project move forward. Your ability to find positive aspects from the questions and challenges inspired me for now and for my future life and career.

I would like to thank my second supervisor Prof. dr. F. J. Dekker. Frank, I will remember the several meetings, formal or informal talks with you. You are willing to help people. You teach me “focused” and “work efficiently”. I realized this is such important for research. I will definitely keep focused and try my best to work efficiently for my future study.

I would also like to thank the members of reading committee, Prof. M. Schmidt, Prof. V. W. van Beusechem, and Prof. F. Foijer for reading and evaluating my thesis.

Special thanks to my most closed colleagues, Olivia, Siwei, and Ali.

Olivia, I am very happy for being office mate with you for my completed PhD. You are kind and willing to help. I wish you happy every day!

Siwei, I feel lucky to be working together with you. You are organized and smart. I wish you have a good future.

Ali, thanks for your contribution to our project. You are self-disciplined, hardworking and organized. Also, my former office mate Maria-Eleni, thanks for bringing a lot of fun to me at the beginning of my PhD, those great moments will live in my memory. The former colleagues, Nick, Niek, Hanah, and Thea, I wish you all good future.
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Bin Liu

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2. Bin Liu,*, Siwei Chen,*, Anouk La Rose, Deng Chen, Dominik Kiemel, Manuel Goncalves, Dekker F.J, Haisma H.J. Inhibition of Histone deacetylase 1 (HDAC1) and HDAC2 enhances CRISPR/Cas9-mediated gene editing. preprint in *BioRxiv* doi: http://dx.doi.org/10.1101/670554 (revision in *Nucleic Acids Research*).


List of Publications


2. **Bin Liu,* Siwei Chen,* Anouk La Rose, Deng Chen, Dominik Kiemel, Manuel Goncalves, Dekker FJ, Haisma HJ.** Inhibition of Histone deacetylase 1 (HDAC1) and HDAC2 enhances CRISPR/Cas9-mediated gene editing. preprint in *BioRxiv* doi: http://dx.doi.org/10.1101/670554 (revision in *Nucleic Acids Research*)


6. **Bin Liu, Olivia Adaly Diaz Arguello‡, Deng Chen‡, Siwei Chen, Ali Saber, Hidde J. Haisma* CRISPR-mediated ablation of overexpressed EGFR in combination with sunitinib significantly suppresses renal cell carcinoma proliferation. 2019 (under review)

7. **Bin Liu, Deng Chen, Saber, A, Haisma HJ.** Transcriptional activation of cyclin D1 via HER2/HER3 contributes to cell survival and tyrosine kinase inhibitor resistance in non-small cell lung carcinoma. 2019 (under review)
8. Shanshan Song, Bin Liu, Hidde J. Haïisma, Reinoud Gosens, Gerrit Poelarends, Barbro Melgert. DDT contributes to lung epithelial regeneration via CXCR7. 2019 (in submitting)


10. Bin Liu, Deng Chen, et al. EGF is a ligand of CX Chemokine Receptor 7. (in preparing)

Before PhD study


Book Chapter

Conferences

7. The 2019 Lectures in Biology and Chemistry: Genome Editing by Foundation for Research and Technology – Hellas, Heraklion, Crete, Greece (2019, financial support)
Bin Liu was born on June 6, 1989, in Jiangsu, China. In October 2015, he moved to University of Groningen to pursue his PhD in the Department of Chemical and Pharmaceutical Biology under the supervision of Prof. H.J. (Hidde) Haisma. His doctoral research focuses on CRISPR/Cas9 and its application in cancer research and therapy, especially in cancer molecular therapy based on adenovirus, CRISPR/Cas9, and targeted drugs. Before that, he studied Medicine in Soochow University in his home province. At that time, he knew and was becoming interested in CRISPR/Cas9. He is a member of Dutch Society of Gene and Cell Therapy.