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## Modulating the activity of CRISPR/Cas9 genome editing by small molecules

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DOI:  
[10.33612/diss.183126910](https://doi.org/10.33612/diss.183126910)

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*Document Version*  
Publisher's PDF, also known as Version of record

*Publication date:*  
2021

[Link to publication in University of Groningen/UMCG research database](#)

*Citation for published version (APA):*  
Chen, S. (2021). *Modulating the activity of CRISPR/Cas9 genome editing by small molecules*. University of Groningen. <https://doi.org/10.33612/diss.183126910>

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# APPENDICES **A**

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**Acknowledgement**

**List of Publications**

**About the author**



## Acknowledgment

I think the most correct decision I made four years ago was to seize the opportunity to pursue my PhD study in this lovely city and leading international university, where I have met so many wonderful people. I am grateful to everyone who came into my life, supported me in different ways through all this time. I would also like to appreciate those who contributed to this thesis and assisted me during my PhD journey. All experiences become valuable memories forever.

First and foremost, I would like to express my sincere gratitude to my supervisor **Prof. Hidde J. Haisma**, who gives me the most support, guidance, and trust not only for my study but also my daily life. Dear **Hidde**, I will always remember that the first time we met online. You are so sure, direct, and ebullient to invite me to join your group, even I could not communicate with you smoothly at that time. I benefit a lot from you through the discussions in your office, where you always propose great ideas for our projects. I also learned a lot from the way you are thinking to solve scientific problems. Visiting your house to celebrate Sinterklaas together is a treasured memory for me. I felt warm at that moment when my parents are thousands of miles away from me. I had a tough time in the last two years due to the worldwide COVID-19 crisis. You are always available to support me when I need help, your encouragement helped my projects went well during the time. All these experiences with you have assisted me to be a better person with independent thinking and an open mind, which will benefit my future life and career.

I would also like to thank my second supervisor **Prof. Frank J. Dekker**. Dear **Frank**, thank you for your helpful suggestions during my PhD journey. Your remarks for my projects, especially for the chemistry part, enlightening me come up with some novel thoughts. I appreciate you for holding Wednesday lunch meetings, which I benefit a lot. I wish you and your family a happy life. Many thanks also go to **Prof. Wim J. Quax** and **Prof. Gerrit J. Poelarends** for your great comments in our Thursday meetings during my PhD period. Dear **Wim**, thank you for your kind suggestions on our *Bacillus subtilis* paper, which we have a nice collaboration. Dear **Gerrit**, you always find the key points and problems of our research, thank you for your helpful and critical remarks on my projects. I also would like

to thank **Prof. A.S.S. Dömling** for providing wonderful chemical database for us. We had great collaborations in several projects. My thanks also go to **Dr. Kristina Haslinger** and **Dr. Sandy Schmidt** for joining our super great family and making our department better for performing scientific research. I also would like to thank **Dr. Robbert Cool** for giving helpful suggestions for my projects in our Wednesday and Thursday meetings.

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

Many thanks to our technicians and secretaries; Dear **Petra**, you are always ready to help others. Thank you for helping me with technical issues and ordering biomaterials for me, which ensured my projects to go well. Dear **Rita**, you are enthusiastic and always glad to help others. I will always remember you helped me to generate cell lines which stable express specific gene during the COVID-19 crisis. You also helped me a lot with techniques, such as flow cytometry when I was new in the lab. I wish all the best to you and your family. **Pieter** and **Ronald**, thank you for organizing our chemistry lab well and equipment maintenance in our group. **Yvonne**, **Janita**, **Gillian**, and **Elsemiek**, thank you for your professional documentary work.

Big thanks to my most closed colleagues, **Bin**, **Olivia** and **Ali**. **Bin**, I feel lucky and happy to work together with you. Your deep thinking and superior technical skills make great contributions to our projects. I wish you and **Lin** have a nice time in the U.S.A together with **Mengmeng**. **Olivia**, I feel happy for being your office mate. You are kind and willing to help. I wish you have a good future. **Ali**, I am happy to work together with you. You are organized and hard-working. Many thanks also go to our “Wednesday lunch meeting” group, **Martijn**, **Hao**, **Fangyuan**, **Zhangping**, **Deng**, **Angelina**, and **Chunlong**. **Martijn**, you are kind and easy-going. You did a great job in histone inheritance. I wish you success in your business. **Hao**, thank you for organizing and inviting me to join the great tours, I wish you and **Yu** and your lovely baby boy **Ranran** have a great time in Shanghai. **Fangyuan**, I missed you so much, we had a lot of valuable memories together during my PhD journey. I wish all the best to you and **Guangcai** in U.K. **Zhangping**, you are brilliant and hardworking,

I wish you a happy life with **Shanshan. Deng**, thank you for your contributions to our projects and daily discussions. You also did a great job on your research. I wish you and **Yi** and your cute baby girl **Dengdeng** have a happy life. **Angelina**, thank you for being my paranymp. It is nice to talk and work together with you. I wish good luck with your PhD study. **Chunlong**, our new group member, I wish you have a good time in our department. My sincere thanks to all the colleagues in our department, who came and left, **Abel, Alex, Andreas, Baojie, Bo, Chao, Eleonora, Fabiola, Faizan, Fengzhi, Feyza, Haigen, Hangyu, Ingy, Jan, Jeilin, Joko, Laura, Lieuwe, Marie, Magda, Michael, Michele, Nika, Putri, Saif, Sandy, Sara, Saravanan, Siqi, Ting, Tjie, and Zainal.**

I also would like to express my grateful thanks to my collaborators, without your help, I could not finish my thesis. **Xin**, thank you for synthesizing great compounds for our projects. I wish you have a good future. **Yafeng**, thank you for establishing nice prokaryotic CRISPR/Cas9-based gene editing system. I wish you have a happy life with your husband in Guangzhou. **Wenjia** and **Kai**, thank you for sharing your technology with me. Many thanks also go to the technicians **Eduard** and **Catharina** who come from the Department of Pharmacokinetics, Toxicology and Targeting for your kindly help. I also would like to thank my Scientific Writing Course instructor **Prof. Eliana R. Popa** for giving me great help and useful tips on scientific writing.

I would continue my thanks to the student I supervised, **Soraya**. You are talented and hard-working. I am happy to talk and work together with you. And thank you for showing me the attractive Dutch culture. I wish you have a bright future.

Great thanks to my Chinese friends I met in Groningen. **Xiang** and **Xiaocui**, thank you for your support and accompany in the initial time in Groningen. You are trustworthy friends who give me the sense of security. Many thanks go to our Zhengzhou University group, **Fan, Xiaotian, Yangyang**, and **Yuru**. Thank you for the accompany in traditional Chinese festivals. **Yizhou** and **Xinyu**, many thanks for being with me in the lab and life. I will always remember you are accompanied with me in the hospital when I had the accident. I wish all the best to you and your families. I also would like to thank **Dan, Qi, Yanmei, Yanfang**

## APPENDICES

**Zheng** and **Zhiwen** for being together in the travels. I would like to thank **Jingyao**, **Xiaoxiang**, **Qian**, **Li**, **Zefeng**, **Bidong**, **Chao**, **Daozheng** and **Shipeng** for great lunch time in Eriba as well. Thanks also go to **Keni**, **Yana**, and **Yixin** for the wonderful time we spent together. Special thanks to my “online” Chinese friends, **Zhen**, **Rui**, and **Mengjia** who give me great supports during the COVID-19 pandemics.

Last but not least, I would express my deep gratitude to my beloved family. My dear Mom and Dad, I cannot complete my PhD study without your unconditional support. Thank you for answering my call all the time, thank you for enduring my temper, thank you for always being with me, thank you for everything you did for me. I love you.

亲爱的爸爸妈妈，谢谢你们对我无条件的支持和无私的爱，我永远爱你们！

Siwei

August 2021

Groningen

## List of Publications

1. Bin Liu\*, **Siwei Chen\***, Anouk La Rose, Deng Chen, Fangyuan Cao, Martijn Zwinderman, Dominik Kiemel, Manon Aissi, Frank J. Dekker, Hidde J. Haisma. Inhibition of Histone deacetylase 1 (HDAC1) and HDAC2 enhances CRISPR/Cas9-mediated gene editing. *Nucleic Acids Res.* **2020** Jan 24; 48(2): 517–532. doi: 10.1093/nar/gkz1136
2. Bin Liu\*, **Siwei Chen\***, Xin Li, Deng Chen, Frank J. Dekker, Alexander Dömling, Hidde J. Haisma. Potent Small molecular inhibitors for CRISPR/Cas9 genome editing. **2021** (Under Review, *Nature Communications*)
3. **Siwei Chen\***, Xin Li\*, Bin Liu, Deng Chen, Frank J. Dekker, Alexander Dömling, Hidde J. Haisma. A Potent Small Molecular Enhancer for CRISPR/Cas9-mediated Genome Editing. **2021** (Under Revision, *Molecular Therapy Nucleic Acids*)
4. **Siwei Chen**, Yafeng Song, Xin Li, Alexander Dömling, Wim J. Quax, Hidde J. Haisma. Modulating CRISPR/Cas9-mediated Genome Editing by Small Molecules in *Bacillus Subtilis*. **2021** (Submitted)
5. **Siwei Chen**, Deng Chen, Bin Liu, Hidde J. Haisma. Modulating the CRISPR/Cas9 Genome Editing Activity by Small Molecules. **2021** (Under Review, *Drug Discovery Today*)
6. Bin Liu, Shanshan Song, Rita Setroikromo, **Siwei Chen**, Wenteng Hu, Deng Chen, Anthonie J van der Wekken, Barbro N. Melgert, Wim Timens, Anke van den Berg, Ali Saber, Hidde J. Haisma. Cx chemokine receptor 7 contributes to survival of kras-mutant non-small cell lung cancer upon loss of epidermal growth factor receptor. *Cancers (Basel)*. **2019** Apr; 11(4): 455. doi: 10.3390/cancers11040455
7. 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. *PLoS One*. **2020**; 15(5): e0232985. doi: 10.1371/journal.pone.0232985



8. Fangyuan Cao, Zhangping Xiao, **Siwei Chen**, Deng Chen, Hidde J. Haisma, Frank J. Dekker. HDAC/MIF dual inhibitor inhibits NSCLC cell survival and proliferation by blocking the AKT pathway. **2021** (Under Review, *Bioorganic Chemistry*)
9. Olivia A. Diaz Arguello, Petra E. van der Wouden, **Siwei Chen**, Hidde J. Haisma. Enhanced apoptosis in cancer cells by simultaneous targeting of Epidermal Growth Factor Receptor (EGFR) and TRAIL death receptors (DR4 and DR5) by adenoviral expressed fusion proteins. **2021** (Submitted)
10. Ting Wang\*, **Siwei Chen**\*, Shihui Wang, Liang Shi, Chenggong Wang, Jingxin Zhang, Yanfeng Gao, Guodong Li, Yuanming Qi, Xiuli An, Lixiang Chen. Targeting neurokinin-3 receptor: a novel anti-angiogenesis strategy for cancer treatment. *Oncotarget*. **2017** Jun 20; 8(25): 40713–40723. doi: 10.18632/oncotarget.17250  
\*Authors contributed equally

### Patents

1. Ting Wang, **Siwei Chen**, Liang Shi, Lixiang Chen, Chenggong Wang, Xiuli An, Yuanming Qi, Yanfeng Gao, Guodong Li. Synthetic peptide NK3R-A1 based on NK3 receptor and application thereof. Publication No.: CN106008673B
2. Lixiang Chen, **Siwei Chen**, Liang Shi, Ting Wang, Chenggong Wang, Yuanming Qi, Xiuli An, Yanfeng Gao, Guodong Li. Synthetic peptide NK3R-A2 based on NK3 receptor and application thereof. Publication No.: CN106008672B
3. Lixiang Chen, Yajuan Wang, Ting Wang, **Siwei Chen**, Xiuli An, Yuanming Qi, Yanfeng Gao, Guodong Li. FAP-targeted anti-angiogenesis peptide Z-GP-V1 and application thereof. Publication No.: CN106046121B
4. Ting Wang, Yajuan Wang, Lixiang Chen, **Siwei Chen**, Xiuli An, Yuanming Qi, Yanfeng Gao, Guodong Li. FAP-targeted anti-angiogenesis peptide Z-GP-V2 and application thereof. Publication No.: CN105949282B

### About the author

Siwei Chen was born on 3<sup>rd</sup> November 1990 in Zhengzhou city, Henan province, China. She obtained her Bachelor's degree in Computer Science and Technology from Zhengzhou University (ZZU) in June 2014. In the same year, she started her master study in the Department of Life Sciences, ZZU under the supervision of Prof. Lixiang Chen. During the first one and a half years, she mainly focused on taking courses as well as investigating anti-tumor effects of synthesized peptides targeting to the tumor blood vessels at Henan Immunology Key Laboratory, ZZU. In the last one and a half years, she started to study the role and mechanism of DNMT1 in regulating specific stages of human erythropoiesis at the Institute of Systems Biology of Erythrocyte Development, ZZU. In June 2017, she gained her Master's degree in Cellular Biology. Then she moved to Groningen to start her PhD study in the Department of Chemical and Pharmaceutical Biology under the supervision of Prof. Hidde J. Haisma and Prof. Frank J. Dekker. Her research was aiming to modulate the activity of CRISPR/Cas9 genome editing by small molecules, of which the results are described in this thesis.