



Universiteit
Leiden
The Netherlands

Dynamic organization of bacterial chromatin by DNA bridging proteins

Qin, L.

Citation

Qin, L. (2020, September 22). *Dynamic organization of bacterial chromatin by DNA bridging proteins*. Retrieved from <https://hdl.handle.net/1887/136909>

Version: Publisher's Version

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/136909>

Note: To cite this publication please use the final published version (if applicable).

Cover Page



Universiteit Leiden



The handle <http://hdl.handle.net/1887/136909> holds various files of this Leiden University dissertation.

Author: Qin, L.

Title: Dynamic organization of bacterial chromatin by DNA bridging proteins

Issue Date: 2020-09-22

LIST OF PUBLICATIONS

1. [Qin, L.](#), Ben Bdira, F. & Dame, R. T. Mechanism of anti-repression of *Pseudomonas aeruginosa* H-NS family protein MvaT by the phage protein Mip. *Manuscript in preparation*.
2. [Qin, L.](#), Erkelens, A. M., Markus, D. & Dame, R. T. (2019). The *B. subtilis* Rok protein compacts and organizes DNA by bridging. *bioRxiv*, 769117.
3. [Qin, L.](#), Ben Bdira, F., Sterckx, Y. G., Volkov, A. N., Vreede, J., Giachin, G., van Schaik, P., Ubbink, M. & Dame, R. T. (2020). Structural basis for osmotic regulation of the DNA binding properties of H-NS proteins. *Nucleic Acids Research*, 48(4), 2156-2172.
4. [Qin, L.](#), Erkelens, A. M., Ben Bdira, F. & Dame, R. T. (2019). The architects of bacterial DNA bridges: a structurally and functionally conserved family of proteins. *Open Biology*, 9(12), 190223.
5. Paiva, A. M. O., Friggen, A. H., [Qin, L.](#), Douwes, R., Dame, R. T. & Smits, W. K. (2019). The bacterial chromatin protein HupA can remodel DNA and associates with the nucleoid in *Clostridium difficile*. *Journal of Molecular Biology*, 431(4), 653-672.
6. Lin, S. N.* , [Qin, L.*](#), Wuite, G. J. & Dame, R. T. (2018). Unraveling the Biophysical Properties of Chromatin Proteins and DNA Using Acoustic Force Spectroscopy. In *Bacterial Chromatin* (pp. 301-316). Humana Press, New York, NY. (Co-first author).
7. van der Valk, R. A., [Qin, L.](#), Moolenaar, G. F. & Dame, R. T. (2018). Quantitative Determination of DNA Bridging Efficiency of Chromatin Proteins. In *Bacterial Chromatin* (pp. 199-209). Humana Press, New York, NY.
8. Boudreau, B. A., Hron, D. R., [Qin, L.](#), van der Valk, R. A., Kotlajich, M. V., Dame, R. T. & Landick, R. (2018). StpA and Hha stimulate pausing by RNA polymerase by promoting DNA-DNA bridging of H-NS filaments. *Nucleic Acids Research*, 46(11), 5525-5546.
9. van der Valk, R. A., Vreede, J., [Qin, L.](#), Moolenaar, G. F., Hofmann, A., Goosen, N. & Dame, R. T. (2017). Mechanism of environmentally driven conformational changes that modulate H-NS DNA-bridging activity. *Elife*, 6, e27369.
10. [Qin, L.](#), Wu, Y., Liu, Y., Chen, Y. & Zhang, P. (2014) Dual Effects of Alpha-Arbutin on Monophenolase and Diphenolase Activities of Mushroom Tyrosinase. *PLOS ONE* 9(10): e109398.

CURRICULUM VITAE

Born in Liaoning province, China

24 March 1990

Bachelor of Science: Bioengineering and Technology

2008-2012

Dalian Polytechnic University - Liaoning, China

Master of Science: Chemical Engineering and Technology, Biochemistry 2012-2015

Beijing University of Chemical Technology - Beijing, China

Ph.D.: Molecular Biology and Biochemistry 2015-2019

Under supervision of Dr. Remus Th. Dame

Dynamic organization of bacterial chromatin by DNA bridging proteins

Leiden University – The Netherlands