

University of Groningen

Mining and characterization of antimicrobials from plant growth-promoting rhizobacteria isolated from perennial ryegrass

Li, Zhibo

DOI:
[10.33612/diss.130530955](https://doi.org/10.33612/diss.130530955)

IMPORTANT NOTE: You are advised to consult the publisher's version (publisher's PDF) if you wish to cite from it. Please check the document version below.

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

Publication date:
2020

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

Citation for published version (APA):

Li, Z. (2020). *Mining and characterization of antimicrobials from plant growth-promoting rhizobacteria isolated from perennial ryegrass*. [Thesis fully internal (DIV), University of Groningen]. University of Groningen. <https://doi.org/10.33612/diss.130530955>

Copyright

Other than for strictly personal use, it is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), unless the work is under an open content license (like Creative Commons).

The publication may also be distributed here under the terms of Article 25fa of the Dutch Copyright Act, indicated by the "Taverne" license. More information can be found on the University of Groningen website: <https://www.rug.nl/library/open-access/self-archiving-pure/taverne-amendment>.

Take-down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

Downloaded from the University of Groningen/UMCG research database (Pure): <http://www.rug.nl/research/portal>. For technical reasons the number of authors shown on this cover page is limited to 10 maximum.

PROPOSITIONS

ASSOCIATED WITH THIS DISSERTATION

Mining and characterization of antimicrobials from plant growth-promoting rhizobacteria isolated from perennial ryegrass

By Zhibo Li

1. Perseverance does not necessarily pay off.
2. Bacteria bring many problems to eukaryotes, but they also provide solutions.
3. Plant growth-promoting rhizobacteria offer critical keys to sustainable agriculture (This thesis).
4. The biosynthetic potential of *Brevibacillus laterosporus* is comparable to that of the well-known biocontrol species *Bacillus velezensis* (This thesis).
5. *Brevibacillus* spp. are great producers of cationic lipopeptides (This thesis).
6. Unraveling the biosynthetic pathways and machinery of antimicrobials forms the basis for further engineering (This thesis).
7. Bacteria are very smart to adjust their lifestyle and metabolic strategy when encountering stress (This thesis).
8. All things are difficult at the start (万事开头难).