

University of Groningen

siRNA in precision-cut lung slices: knocking down fibrosis?

Ruigrok, Mitchel

DOI:
[10.33612/diss.102801030](https://doi.org/10.33612/diss.102801030)

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:
2019

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

Citation for published version (APA):
Ruigrok, M. (2019). *siRNA in precision-cut lung slices: knocking down fibrosis?* [Thesis fully internal (DIV), University of Groningen]. Rijksuniversiteit Groningen. <https://doi.org/10.33612/diss.102801030>

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.

STELLINGEN

behorende bij het proefschrift

siRNA IN PRECISION-CUT LUNG SLICES: KNOCKING DOWN FIBROSIS

1. Pulmonary administration of small interfering RNA (siRNA) holds great promise for the treatment of lung diseases, such as cancer, fibrosis, and viral infections. (this thesis)
2. Precision-cut lung slices can be successfully transfected with selfdeliverable (Accell) siRNA to achieve protein knockdown without affecting their viability. (this thesis)
3. Challenging established practices, also known as traditions, not only benefits our society but also considerably improves the viability of precision-cut lung slices. (this thesis)
4. Though collagen maturation in precision-cut lung slices remained unchanged upon knockdown of heat shock protein 47 (HSP47), HSP47 remains an attractive therapeutic target to treat idiopathic pulmonary fibrosis. (this thesis).
5. Despite being frequently used, precision-cut lung slices are not fully utilized; emerging technologies should be exploited to reveal phenotypic changes in specific cell types.
6. Solely attenuating myofibroblast activity is unlikely to cure idiopathic pulmonary fibrosis. Scientists should also focus on developing drugs that promote degradation of fibrotic extracellular matrix.
7. We are all different, and that's totally fine. Don't be afraid to leave your mark on society, one sparkly glitter at a time.
8. Scientific innovations should not be acclaimed based on their complexity, but rather the extent to which they are used in practice.
9. Medical scientists sometimes focus too much on building careers. We should not forget our ultimate aim: to improve and extend patients' lives.
10. Cleanliness should be considered as an important virtue. Whenever your environment is clean and tidy, you feel so much better!

Mitchel Ruigrok