

University of Groningen

Seek and Destroy

Hoorens, Mark Wilhelmus Henricus

DOI:
[10.33612/diss.123015896](https://doi.org/10.33612/diss.123015896)

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):
Hoorens, M. W. H. (2020). *Seek and Destroy: Light-Controlled Cancer Therapeutics for Local Treatment*. University of Groningen. <https://doi.org/10.33612/diss.123015896>

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

1. Light-controlled bio-active molecules can alter protein activity with spatial and temporal resolution in a reversible fashion, something which no other chemical or genetic tool can do.

Chapter 2

2. Introducing a photocleavable protecting group into the structure of a kinase inhibitor is a more fruitful approach to acquire photo-control over the biological activity, when compared to introducing a photoswitch.

Chapter 4 vs. Hobert, R et al., ACS Chem. Biol. 2015, 10, 2099-2107

3. Aqueous solubility of most photochromic molecules is low. In order to increase aqueous solubility of photochromic molecules, one should not only focus on reducing their lipophilicity.

J. Med. Chem. 2011, 54, 1539-1554

Expert Opin. Drug Discov. 2014, 9, 1421-1433

4. In the development of photo-caged drugs, one should not forget to photo-cage the same functional group on a biologically inactive model compound and test it as a control in the biological experiment: upon irradiation more photo-products than only the uncaged drug can be formed.

Chem. Sci. 2017, 8, 1450-1453

5. In the development of molecular photoswitches for photopharmacology, one should take Lipinski's rule into consideration.

6. Molecular biology is supramolecular chemistry that you grow, instead of synthesize.

7. The educational system in The Netherlands should no longer educate Biology, Chemistry and Physics as separate disciplines.

8. The danger of interdisciplinary research is developing tricks instead of actual skills.

9. Going off-stage before an encore is a waste of everyone's time: just use that time to play an extra song.

10. Love for Feyenoord does not fade away by moving far from Rotterdam.