

VU Research Portal

Molecular strategies to quantify and control dormant and active state of mycobacteria

Priyanka, Priyanka

2024

DOI (link to publisher)
[10.5463/thesis.770](https://doi.org/10.5463/thesis.770)

document version
Publisher's PDF, also known as Version of record

[Link to publication in VU Research Portal](#)

citation for published version (APA)

Priyanka, P. (2024). *Molecular strategies to quantify and control dormant and active state of mycobacteria*. [PhD-Thesis - Research and graduation internal, Vrije Universiteit Amsterdam].
<https://doi.org/10.5463/thesis.770>

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal

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.

E-mail address:
vuresearchportal.ub@vu.nl

TABLE OF CONTENTS

Chapter 1	General introduction	1
Chapter 2	Integrative biology of persister cell formation-molecular circuitry, phenotypic diversification and fitness effects	31
Chapter 3	Rapid and efficient labeling by a selective organic fluorophore probe highlights heterogeneity of mycobacterial populations and persister resuscitation	59
Chapter 4	Growth-rate dependent response of mycobacteria to relief of growth inhibition	96
Chapter 5	Growth-recovery time and delay-causing metabolic bottlenecks in mycobacterial nutrient transitions	117
Chapter 6	Response of <i>Mycobacterium smegmatis</i> to the cytochrome <i>bcc</i> inhibitor Q203	143
Chapter 7	General discussion and outlook	177
Appendices	Summary	192
	Nederlandse samenvatting	194
	Acknowledgements	197
	Curriculum vitae	198
	List of Publications	199