Universiteit Leiden
The Netherlands

Evolutionary adaptability of β-lactamase: a study of inhibitor susceptibility in various model systems
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Citation

Alen, I. van. (2023, September 20). *Evolutionary adaptability of β-lactamase: a study of inhibitor susceptibility in various model systems*. Retrieved from https://hdl.handle.net/1887/3641470

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A study of inhibitor susceptibility in various model systems

Ilona van Alen

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Proefschrift

ter verkrijging van
de graad van doctor aan de Universiteit Leiden,
op gezag van rector magnificus prof.dr.ir. H. Bijl,
volgens het besluit van het college voor promoties
te verdedigen op woensdag 20 september 2023
klokke 15:00 uur

door

Ilona van Alen
Geboren te Ede, Nederland
in 1993

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Nothing in life is to be feared, it is only to be understood.
Now is the time to understand more, so that we may fear less.

- Marie Skłodowska-Curie

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List of abbreviations

BMRB	Biological Magnetic Resonance Data Bank
BPER	Bacterial Protein Extraction Reagent
BSA	Bovine serum albumin
CD	Circular dichroism
CSP	Chemical shift perturbation
DBO	Diazabicyclooctane
Dpi	Days post-infection
ESBL	Extended-spectrum β-lactamase
FDA	Food and Drug Administration
Hpf	Hours post-fertilization
HSQC	Heteronuclear single quantum coherence
IPTG	Isopropyl β-D-1-thiogalactopyranoside
MD	Molecular dynamics
MIC	Minimum inhibitory concentration
Mmar	*Mycobacterium marinum*
Mtb	*Mycobacterium tuberculosis*
NMR	Nuclear magnetic resonance
OD	Optical density
PBP	Penicillin-binding protein
PBS	Phosphate-buffered saline
PCR	Polymerase chain reaction
PDB	Protein Data Bank
RMSD	Root-mean-square deviation
SDS-PAGE	Sodium dodecyl sulfate-polyacrylamide gel electrophoresis
sgRNA	Single guide RNA
Tat	Twin-arginine translocation
TB	Tuberculosis
TEV	Tobacco etch virus
TROSY	Transverse relaxation optimized spectroscopy
TSA	Thermal shift assay
WT	Wild type