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Structural characterization of bacterial proteins involved in antibiotic resistance and peptidoglycan biosynthesis

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*A mia nonna,
che mi insegnò come si fanno le capriole
e molto altro.*

Index

List of abbreviations	1
1. <i>Introduction</i>	2
2. Crystallographic studies of wild type β -lactamase BlaC from <i>Mycobacterium tuberculosis</i>	18
3. Crystal structures of BlaC from <i>Mycobacterium tuberculosis</i> in complex with covalent adducts derived from β -lactamase inhibitors clavulanic acid, sulbactam, tazobactam, and avibactam.	32
4. Crystallographic studies of pre-acylation interactions of β -lactamase BlaC from <i>Mycobacterium tuberculosis</i>	53
5. Structural and Functional Characterization of the Alanine Racemase from <i>Streptomyces coelicolor</i> A3(2).	67
6. X-ray crystal structure of the COG0325 protein YlmE from <i>Streptomyces coelicolor</i> A3(2).	82
7. The cell division-related protein YlmE of <i>Streptomyces coelicolor</i> A3(2) binds to tRNA-like molecules.	101
8. General conclusions	130
Summary and Samenvatting	133
Appendix	139
1. Nucleotide sequences of <i>ylmE</i>	139
2. Nucleotide sequences of <i>ftsZ</i>	140
3. YlmE biochemical characterization	141
4. Full list of identified proteins from pull-down experiments	143
References	152
Curriculum vitae	164
Publications	165

List of abbreviations

Alr	Alanine racemase
AU	Asymmetric unit
BlaC	B-lactamase from Mtb
DCS	D-cycloserine
EMSA	Electrophoretic Mobility Shift Assay
ESBL	Extended Spectrum β -lactamase
ESRF	European Synchrotron Radiation Facility
HSQC	Heteronuclear Single Quantum Coherence spectroscopy
ITC	Isothermal Titration Calorimetry
MDR	Multidrug Resistant
MS	Mass spectrometry
Mtb	<i>Mycobacterium tuberculosis</i>
NMR	Nuclear Magnetic Resonance
PAGE	Polyacrylamide Gel Electrophoresis
PBP	Penicillin Binding Protein
PG	Peptidoglycan
PLP	Pyridoxal phosphate
Rmsd	Root-mean-square deviation
SDS	Sodium Dodecyl Sulfate
SEC	Size exclusion chromatography
TB	Tuberculosis
UN	United Nations
WHO	World Health Organization
XDR	Extensively Drug Resistant