Breathing in thin air: structure, function and therapeutic opportunities of bd type oxidases

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Breathing in Thin Air

Structure, Function and Therapeutic Opportunities of *bd* type Oxidases

Cover illustration: Tijn van der Velden using Adobe Firefly
Layout: Tijn van der Velden
Printing: Ipskamp Printing, The Netherlands

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Proefschrift

ter verkrijging van

de graad van doctor aan de Universiteit Leiden,

op gezag van rector magnificus prof.dr. S. de Rijcke,

volgens besluit van het college voor promoties

te verdedigen op woensdag 2 september 2026

klokke 10:00 uur

door

Tijn Tomas van der Velden

geboren te Zoetermeer, Nederland

in 1997

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List of Abbreviations

Abbreviation	Definition
2-me	2-mercaptoethanol
ABC	ATP binding casette
ACN	Acetonitrile
ADP	Adenosine diphosphate
AFIS	Aberration-free image shift
ATP	Adenosine triphosphate
AurD	Aurachin D
Auto-ox	Auto-oxidation
BDQ	Bedaquiline
Cryo-EM	Cryo electron microscopy
CTF	Contrast transfer function
CV	Cyclic voltammetry
CydADC	CydA -CydDC complex
Cyt *bd*	Cytochrome *bd*
DDA	Data-dependent acquisition
DDM	Dodecyl beta-d-maltoside
DMK	Demethylmenaquinone
Ecbd	*E. coli* cytochrome *bd*
EIS	Electrica impedance spectroscopy
EMDB	Electron Microscopy Data Bank
HDX	Hydrogen deuterium exchange
LC-MS	Liquid Chromatography – Mass Spectrometry
LMNG	Lauryl maltose neopentyl glycol
MDR	Multi drug resistant
MK	Menaquinone
Mtbd	*M. tuberculosis* cytochrome *bd*
NDH2	Type 2 NADH dehydrogenase

PA	Phosphatidic acid
PDB	Protein databank
PE	Phosphatidylethanolamine
PEP	Phosphoenolpyruvate
PG	Phosphatidylglycerol
PMF	Proton motive force
RMSD	Root mean square deviation
ROS	Reactive oxygen species
SAM	Self assembled monolayer
SEC	Size exclusion chromatography
SHE	Standard hydrogen electrode
SMF	Sodium motive force
TB	Tuberculosis
tBLM	Tethered bilayer lipid membrane
TCEP	Tris(2-carboxyethyl)phosphine
TDR	Total drug resistant
TEA	Triethylamine
THF	Tetrahydrofuran
TLC	Thin layer chromatography
TMS	Tetramethylsilane
TSG	Template stripped gold
UQ	Ubiquinone
XDR	Extensively drug resistant