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Transient complexes of haem proteins

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Transient Complexes of Haem Proteins

PROEFSCHRIFT

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Моей маме

Cover image: Structural representation of the protein complex between cytochrome *c* peroxidase (green ribbon) and cytochrome *c* (red ribbon). The blue and gold "clouds" indicate the areas avoided and visited, respectively, by cytochrome *c* in the dynamic state of the complex. Image courtesy of Dr. A. W. J. W. Tepper (Phantatomix Molecular Graphics, Leiden University, Leiden, The Netherlands).

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Abbreviations

AIR	ambiguity-driven intermolecular restraints
Amp	ampicillin
Cyt <i>b</i> ₅	soluble part of the bovine liver microsomal cytochrome <i>b</i> ₅
Cyt <i>c</i>	<i>iso</i> -1-cytochrome <i>c</i> from yeast, unless mentioned otherwise
CcP	yeast cytochrome <i>c</i> peroxidase
EDTA	N,N,N',N'-ethylenediaminetetraacetic acid disodium salt
EPR	electron paramagnetic resonance
ET	electron transfer
FPLC	fast protein liquid chromatography
HSQC	heteronuclear single-quantum coherence
IPTG	isopropyl- β -D-thiogalactopyranoside
ITC	isothermal titration calorimetry
LB	Luria – Bertani medium
MTS	(1-acetyl-2,2,5,5-tetramethyl-3-pyrroline-3-methyl)-methanethiosulfonate
MTSL	(1-oxyl-2,2,5,5-tetramethyl-3-pyrroline-3-methyl)-methanethiosulfonate
NMR	nuclear magnetic resonance
NOESY	nuclear Overhauser enhancement spectroscopy
P _i	inorganic phosphate
Pr	haem propionate
PRE	paramagnetic relaxation enhancement
rmsd	root-mean-square deviation
RT	room temperature
SB	Super Broth
TB	Terrific Broth
TSP	3-(trimethylsilyl)-propionic acid-D ₄ , sodium salt
TOCSY	total correlation spectroscopy
Tris-HCl	tris(hydroxymethyl)aminomethane hydrochloride
UV-vis	ultra-violet – visible spectroscopy
wt	wild type