

# Mutagenesis, biochemical and x-ray crystallographic studies of the nitrite reductase from alcaligenes xylosoxidans

De Montfort University - X



## Description: -

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## Copper

Note that the amount of pseudoazurin present 100  $\mu\text{M}$  was only 4 times that of variant 8 25  $\mu\text{M}$  but ~30 times that of wt NiR 3  $\mu\text{M}$ . X-ray structure and site directed mutagenesis of a nitrite reductase from alcaligenes faecalis-S6 - roles of 2 copper atoms in nitrite reduction. Molecular characterization of the Alcaligenes eutrophusnickel permease J Inorg Biochem

## Atomic Resolution Structures of Resting

Briefly, 375  $\mu\text{l}$  protein samples containing approximately 25  $\mu\text{M}$  Cu were denatured with 250  $\mu\text{l}$  1. Pinter, Aniruddha Deb, James E.

## Evolution of copper

We have also investigated the effects of solvent viscosity on observed rates of PCET reactions catalysed by AxNiR.

## Solvent

In Biophysics and Synchrotron Radiation Hasnain, S.

## Evolution of copper

Several structural perturbations occur at the active site as a result of the ligand loop truncation in variant 2b.

## Atomic Resolution Structures of Resting

The primary methods used in this thesis work were EPR spectroscopy, x-ray crystallography, and enzyme kinetics. A topological model for the high-affinity nickel transporter of *Alcaligenes eutrophus*. Scans thereafter showed a uniform decrease in absorbance, compared to the red scan not shown.

## Copper

The structural basis for the control of specificity between partner proteins is lacking because these weak transient complexes have remained largely intractable for crystallographic studies . In mercury-substituted MCO, Solomon et al observed a two-electron reduced intermediate, which they predicted to be a peroxide-level intermediate bridged between the reduced type-2 Cu and an oxidized type-3 Cu.

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