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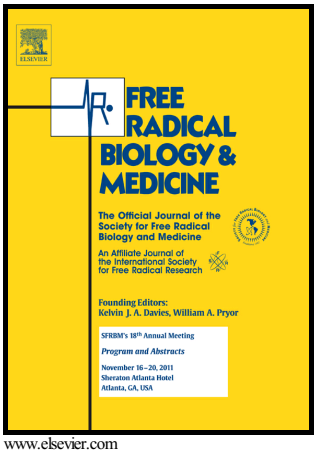

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Atomic structure and enzymatic insights into the vancomycin-resistant *Enterococcus faecalis* (V583) alkylhydroperoxide reductase subunit C

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Abstract

The *Enterococcus faecalis* alkyl hydroperoxide reductase complex (AhpR) with its subunits AhpC (*Ef*AhpC) and AhpF (*Ef*AhpF) are of paramount importance to restore redox homeostasis. Recently, the novel phenomenon of swapping of the catalytic domains of *Ef*AhpF was uncovered. Here, we visualized its counterpart *Ef*AhpC (187 residues) from the vancomycin-resistant *E. faecalis* (V583) bacterium by electron microscopy and demonstrate, that in contrast to other bacterial AhpCs, *Ef*AhpC forms a stable decamer-ring irrespective of the redox state.

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