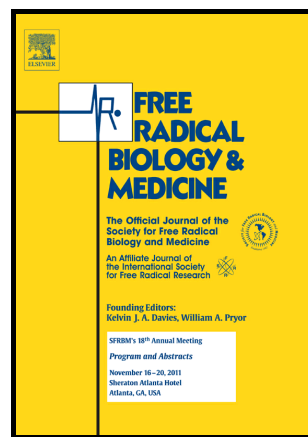


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Atomic structure and enzymatic insights into the vancomycin-resistant *Enterococcus faecalis* (V583) alkylhydroperoxide reductase subunit C

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Abstract

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

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