



Review article

Resistance in *Staphylococcus Aureus*: The Never-Ending Story

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SUMMARY

Combating *Staphylococcus aureus* (*S. aureus*) infections using antibacterial drugs is actually an ongoing effort to overcome resistance mechanism of this microorganism. In this paper, we discussed (1) the mechanisms of resistance to some of the most commonly used antimicrobial agents in the treatment of *S. aureus*: methicillin, vancomycin and quinolones. In addition, (2) efflux pump mechanisms involved in maintaining homeostasis in the presence of compounds that inhibit *S. aureus* growth and reproduction, as well as mechanisms of resistance to a number of antibiotics, have been reviewed.

Key words: Staphylococcus aureus, resistance mechanisms, antimicrobials

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