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Bio-inspired redox-cycling antimicrobial film for sustained generation of reactive oxygen species

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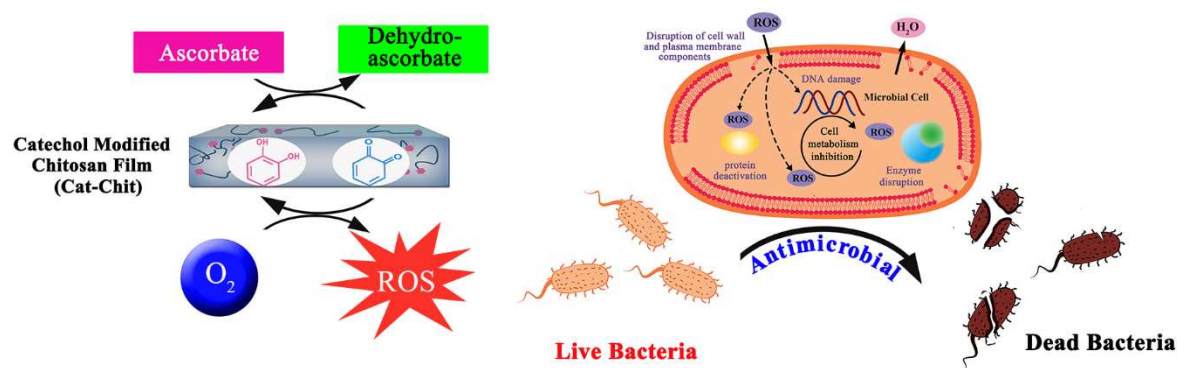
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Biology generates reactive oxygen species (ROS) to defend against pathogens. Here a bio-inspired chitosan film with grafted catechols is fabricated to catalyze the transfer of electrons from physiological reducing equivalents (e.g., ascorbate) to O_2 to generate antimicrobial ROS.



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