

1 **Supplementary materials for Choline protects heart from doxorubicin-induced**
2 **cardiotoxicity through vagal activation and Nrf2/HO-1 pathway**

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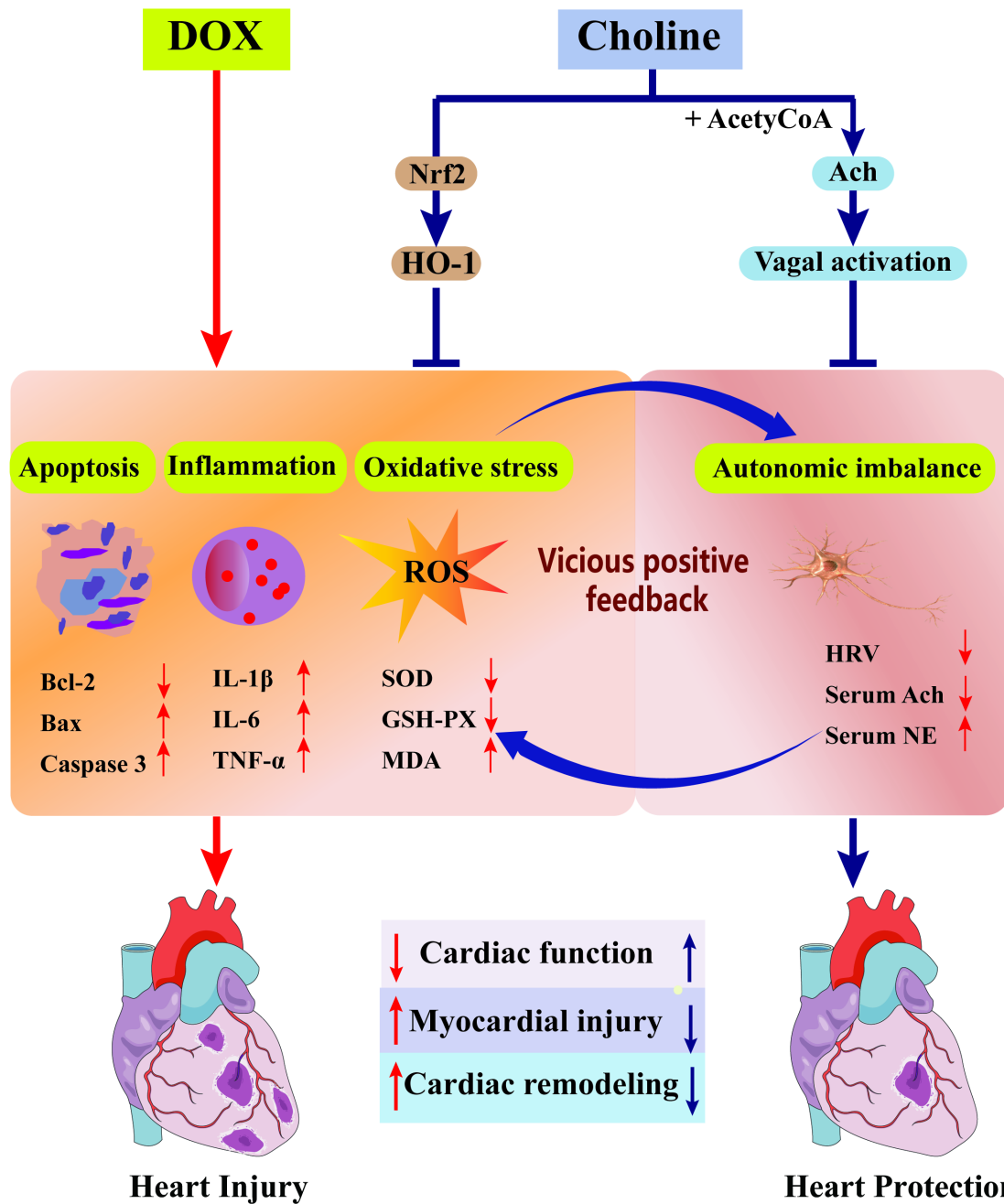
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31 Supplemental Material includes:

32 Graphical Abstract

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35 Central illustration of related mechanisms of choline in preventing DOX-induced
36 cardiotoxicity. The protective effect of choline may be associated with the enhancement
37 of vagal activity and the activation of the Nrf2/HO-1 signaling pathway in DOX-treated
38 rats. A simple and non-invasive pharmacological treatment with oral choline may
39 represent a valuable adjunct therapeutic approach for the alleviation of DOX-induced
40 cardiotoxicity in clinic.