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# A novel strategy for improving amperometric biosensor sensitivity using dual-signal synergistic effect for ultrasensitive detection of matrix metalloproteinase-2

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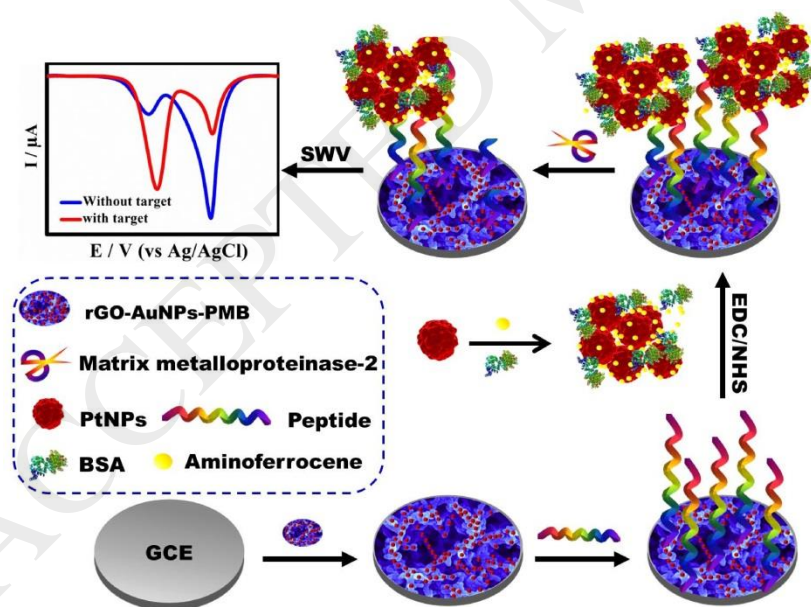
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## Graphical abstract

The dual-signal synergistic effect for improving sensitivity of amperometric biosensor has been developed, resulting in a significantly improved sensitivity  $43.86 \mu\text{A} \cdot (\text{Lg}C_{\text{MMP-2}})^{-1}$ , which was three-fold higher than those of previous works.



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