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get to the download link at the  
bottom right. A lateral flow  
biosensor platform for direct  
detection of  $\text{N}_2\text{O}_5^{2-}$  ions by  
specific binding to immobilized

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DNA aptamers. Perturbation of the chemical environment of a metal ion is of considerable interest to many areas of chemistry and biology and could be of particular value in the study of the biological functions of certain metal ions in the body. We have developed a simple lateral flow biosensor for detection of the chemical reactivity of  $\text{N}_2\text{O}_5^{2-}$  ions by a specific interaction with immobilized DNA aptamers. In

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contrast to existing gas sensors, the sensitivity of the biosensor is high and an inexpensive detection reagent can be used to obtain quantitative data within 4 min at room temperature. The aptamer-metal ion association constants determined were  $1 \times 10^4 \text{ M}^{-1}$  for [Ti(IV)],  $2 \times 10^4 \text{ M}^{-1}$  for [Sn(IV)],  $1 \times 10^5 \text{ M}^{-1}$  for [Cr(III)],  $1 \times 10^5 \text{ M}^{-1}$  for [Fe(II)],  $3 \times 10^5 \text{ M}^{-1}$  for [Zn(II)], and  $1 \times 10^7 \text{ M}^{-1}$  for [Cd(II)]. The

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reactivity of chromium and zinc ions with biomolecules has been associated with oxidative damage in living cells, indicating that the aptamer has the potential to be used as a tool for monitoring environmental levels of these metal ions.

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