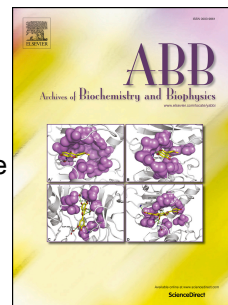


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Thioredoxin and redox signaling: Roles of the thioredoxin system in control of cell fate

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1 Review

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4 Thioredoxin and redox signaling: roles of the thioredoxin system in control of cell fate

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20 ¹ Abbreviations used: ROS, reactive oxygen species; Trx, thioredoxin; TrxR,
21 thioredoxin reductase, TXNIP, thioredoxin-interacting protein; LPS, lipopolysaccharide;
22 Prx, peroxiredoxin; Grx, glutaredoxin; ASK1, apoptosis signal-regulating kinase 1; JNK,
23 c-Jun N-terminal kinase; TNF- α , tumor necrosis factor- α ; AD, Alzheimer's disease; A β ,
24 amyloid- β ; ER, endoplasmic reticulum; ALS, amyotrophic lateral sclerosis; SOD1,
25 Cu/Zn-superoxide dismutase; IRS-1, insulin receptor substrate-1; TRP, transient
26 receptor potential; AMPK, 5'-AMP-activated protein kinase

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29 Keywords: Thioredoxin, Redox, Oxidative stress, Signal transduction, ASK1, Cell fate

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