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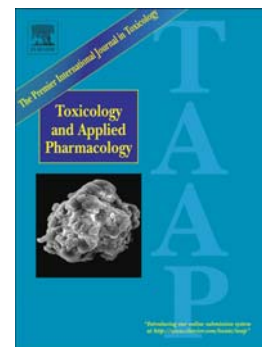
The regulation of cellular apoptosis by the ROS-triggered PERK/EIF2 $\alpha$ /chop pathway plays a vital role in bisphenol A-induced male reproductive toxicity

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**The regulation of cellular apoptosis by the ROS-triggered  
PERK/EIF2 $\alpha$ / Chop pathway plays a vital role in bisphenol  
A-induced male reproductive toxicity**

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**Abbreviations:** AIF, apoptosis-inducing factor; ATF6, activating transcription factor 6; BPA, bisphenol A; CHOP, CCAAT/enhancer-binding protein-homologous protein; Cyt-c, cytochrome complex; EDU, 5-ethynyl-2'-deoxyuridine; EIF2 $\alpha$ , eukaryotic initiation factor 2  $\alpha$ ; ER, endoplasmic reticulum; GRP78, glucose-regulated protein 78; IRE-1, inositol-requiring enzyme 1; PERK, protein kinase RNA-like endoplasmic reticulum kinase; ROS, reactive oxygen species; siRNA, small interfering RNA; UPR, unfolded protein response.

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