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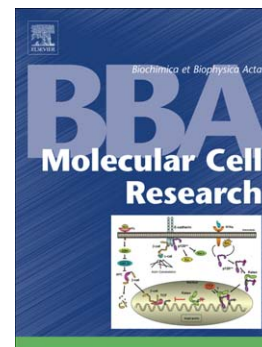
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Activating transcription factor 6-dependent sestrin 2 induction ameliorates ER stress-mediated liver injury

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Abbreviations: Ad, adenovirus; ALT, alanine aminotransferase; AST, aspartate aminotransferase; ATF6, activating transcription factor 6; ChIP, chromatin immunoprecipitation; CHOP, C/EBP homologous protein; DMEM, Dulbecco's modified Eagle's medium; DMSO, dimethyl sulfoxide; DN, dominant negative; ER, endoplasmic reticulum; FBS, fetal bovine serum; IRE1, inositol-requiring enzyme 1; JNK, c-jun N-terminal kinase; LDH, lactate dehydrogenase; MTT, 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyl-tetrazolium bromide; mTOR, mammalian target of rapamycin; PARP, poly(ADP-ribose) polymerase; PERK, protein kinase RNA-like endoplasmic reticulum kinase; p38, p38 mitogen-activated protein kinase; ROS, reactive oxygen species; SESN, sestrin; sXBP1, spliced X-box binding protein 1; Tg, thapsigargin; Tm, tunicamycin; UPR, unfolded protein response; UPRE, unfolded protein response element; UPRE-LE, UPRE-like element

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