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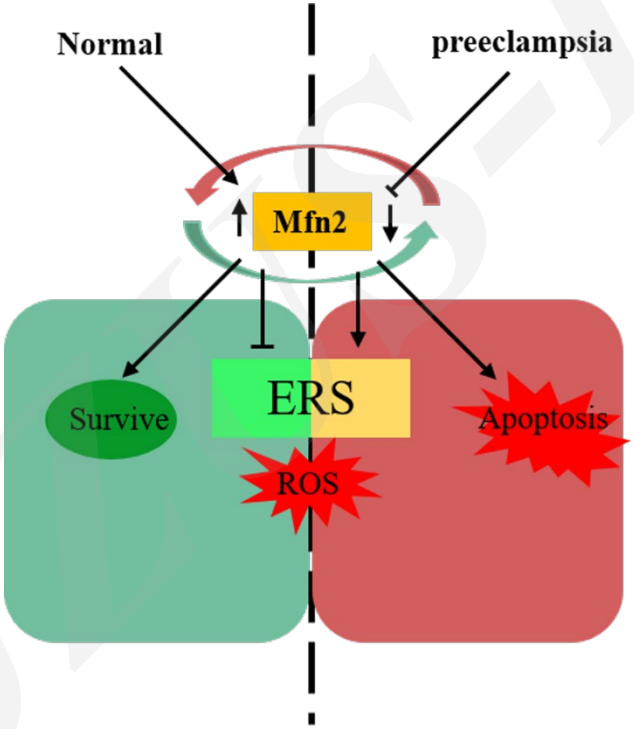
Mitochondrial fusion protein 2 regulates endoplasmic reticulum stress in preeclampsia

Key words: **Mitochondrial fusion protein 2 (Mfn2); Endoplasmic reticulum; Preeclampsia**

Research Summary

This paper mainly focused on: the expression of Mitochondrial fusion protein 2(Mfn2) in preeclampsia, and explore its relationship with endoplasmic reticulum stress, in order to provide reference for diagnosis and treatment in clinic.



Conclusion: Mfn2 is low-expression in trophoblast of preeclampsia placental and associated with endoplasmic reticulum stress. The decrease of Mfn2 expression may be related to the occurrence and development of preeclampsia.

Innovation points

-Compared with the placenta of the normal group control pregnant, the expression of Mfn2 in the placenta of the preeclampsia group were significantly down-regulated.

-Knocking down Mfn2 will significantly inhibited the proliferation, migration, and invasion of trophoblast cells.

-Overexpression of Mfn2 can reverse cell viability of trophoblast cells, inhibits cellular oxidative stress of trophoblast cells under endoplasmic reticulum stress.