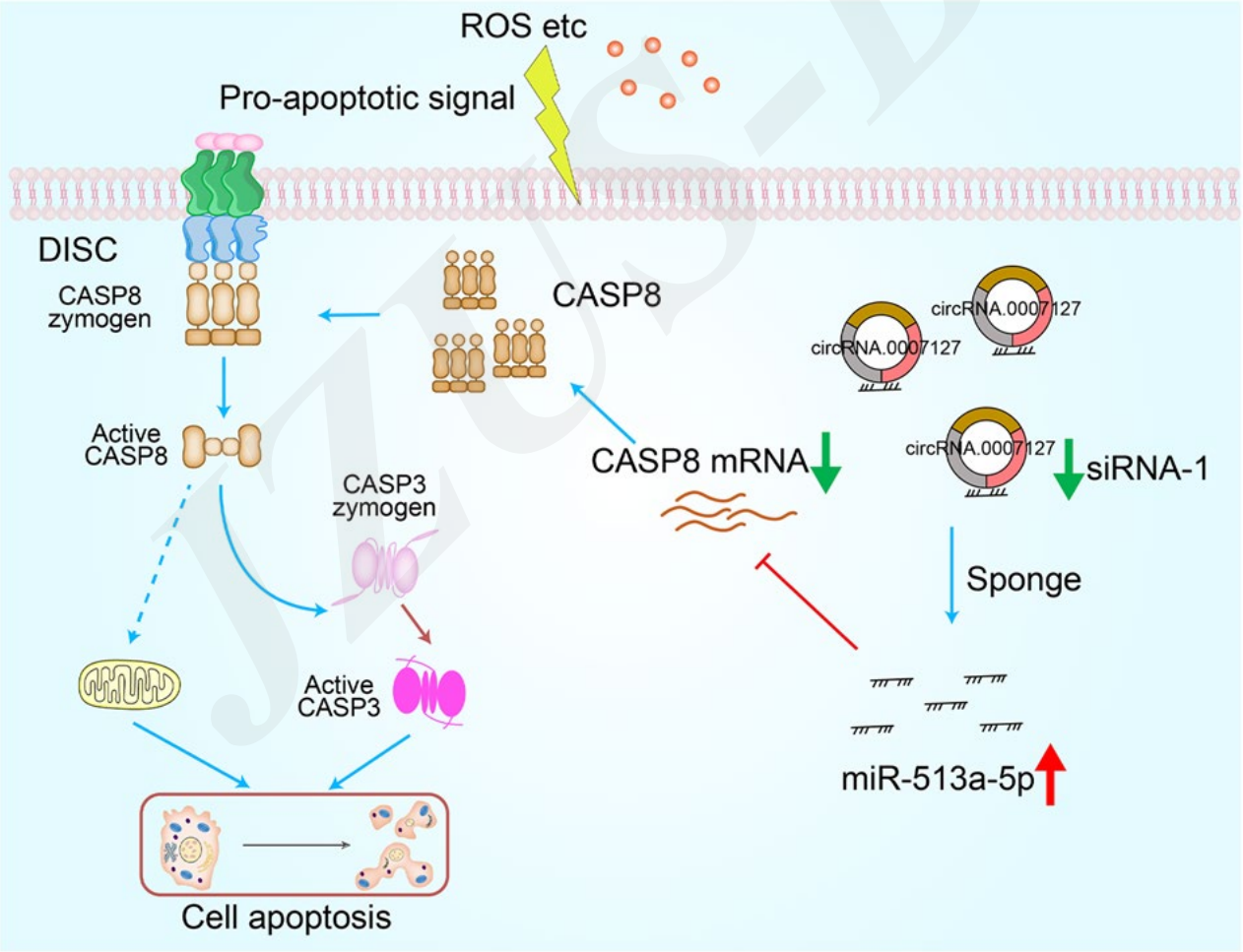
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CircRNA.0007127 triggers apoptosis through the miR-513a-5p/CASP8 axis in K-562 cells

Key words: CircRNA.0007127, miR-513a-5p, CASP8, apoptosis, K-562 cells

Research Summary

This study mainly verified that circrNa.0007127 regulates k-562 cell apoptosis through mir-513a-5p /CASP8 axis, and proved that circrNA.0007127 can be used as a new powerful molecular target of K-562 cells.



Innovation points

- **The predicted function of circRNA.0007127 was related to apoptosis.**
- **Silencing the expression of circRNA.0007127 in K-562 cell could reduce the apoptosis rate of cells.**
- **Mir-513a-5p can inhibit cell apoptosis by targeting apoptosis gene CASP8.**
- **The effect of circRNA.0007127 on cell apoptosis is mainly through the absorption of mir-513a-5p by sponge, promoting the expression of CASP8, and then regulating cell apoptosis.**

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Figure 4

Innovation points

circrNa.0007127 regulates k-562 cell apoptosis through mir-513a-5p /CASP8 axis

Fig 1 | Pathway prediction and identification of circRNA.00071272.

Fig 2 | The knockdown of circRNA.0007127 inhibited apoptosis in K-562 cells.

Fig 3 | CircRNA.0007127 regulated apoptosis by affecting the expression of CASP8.

Fig 4 | CircRNA.0007127 targeted hsa-miR-513a-5p.

Fig 5 | MiR-513a-5p inhibited apoptosis by binding to the 3' UTR region of CASP8.

Fig 6 | CircRNA.0007127 regulated apoptosis in H2O2-treated K-562 cells via the miR-513a-5p/CASP8 axis.

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