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Interferon-γ regulates cell malignant growth via the c-Abl/HDAC2 signaling pathway in mammary epithelial cells

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Key words: Interferon-γ, (IFN-γ), Cellular-abelsongene (c-Abl), Histone deacetylase 2 (HDAC2), Malignant cell growth

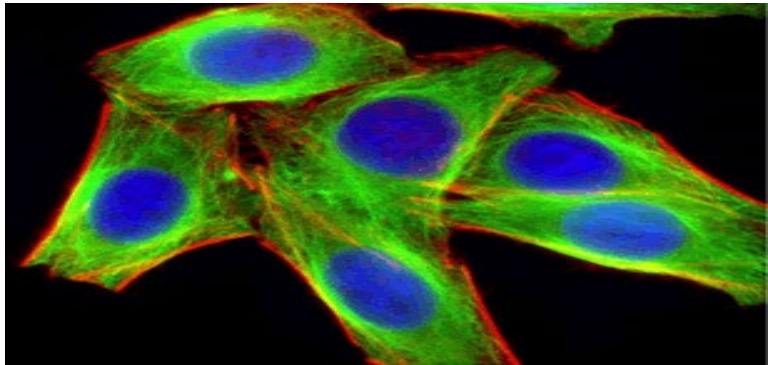
Research Summary

This article mainly focused on the molecular mechanism of IFN-γ regulating cell malignant growth and verifying the relationship between IFN-γ and breast cancer.



- IFN-γ promotes malignant cell growth.

- IFN-γ enhances the distribution of c-Abl in the nucleus, and then increasing the c-Abl acting on HDAC2.



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Innovation points

- The experimental object, γ-BMEC, can be better used for basic research on breast cancer, and it is a new research tool.

- In our experiment, the research that the mechanism of IFN-γ regulating malignant cell growth, provide direct evidence for the close relationship between IFN-γ, malignant cell transformation and even breast cancer.

