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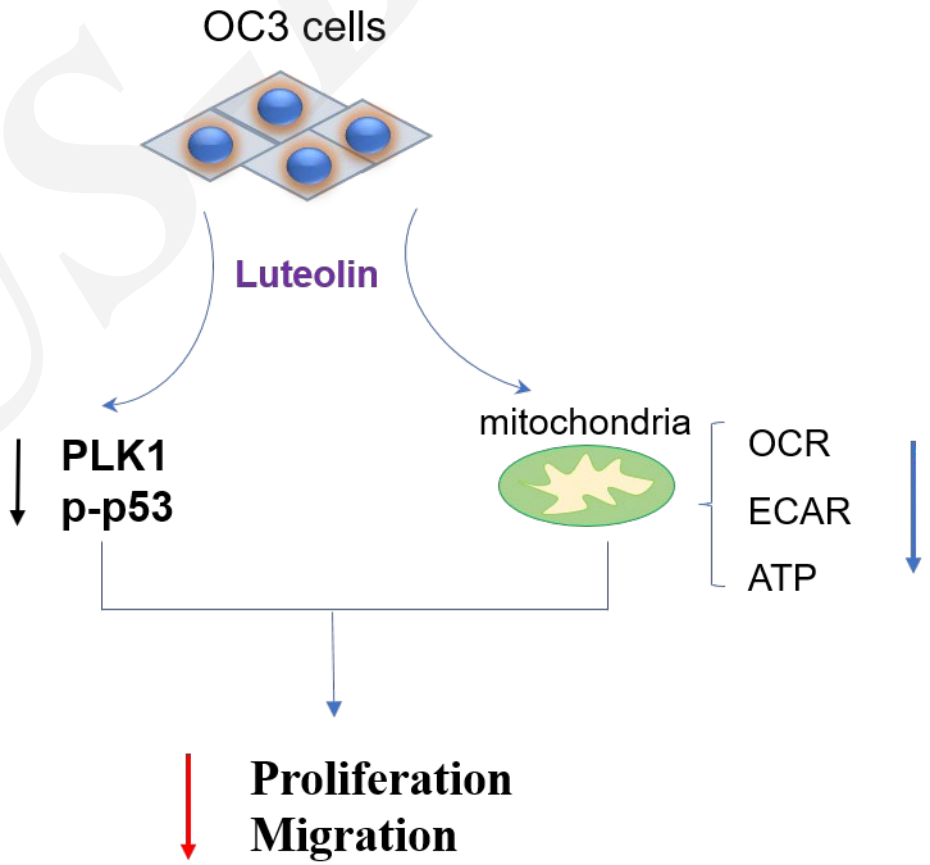
Luteolin suppresses oral carcinoma 3 (OC3) cell growth and migration via modulating polo-like kinase 1 (PLK1) expression and cellular energy metabolism

Key Words: Luteolin, oral cancer, proliferation, P53-PLK1 signaling, energy metabolism, anti-cancer

Research Summary

This correspondence mainly focused on the effects and mechanisms of luteolin on oral cancer 3 (OC3) cell growth and migration.

It was found that luteolin can inhibit the proliferation and migration of OC3 oral cancer cells, and its mechanism may be related to the down-regulation of P53-PLK1 signaling and reduced cellular energy metabolism.



Innovation points

1. **Luteolin can inhibit the proliferation of OC3 oral cancer, which appears to be a promising candidate for ancillary therapy of oral cancer.**

2. The underlying mechanisms may be related to the down-regulation of P53-PLK1 signaling and reduced cellular energy metabolism by luteolin.