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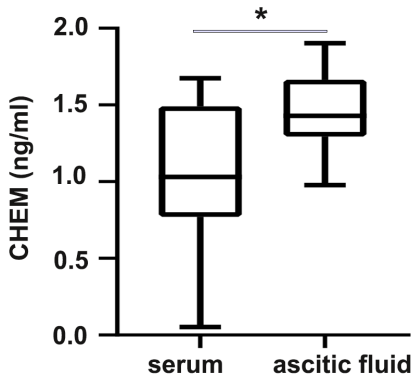
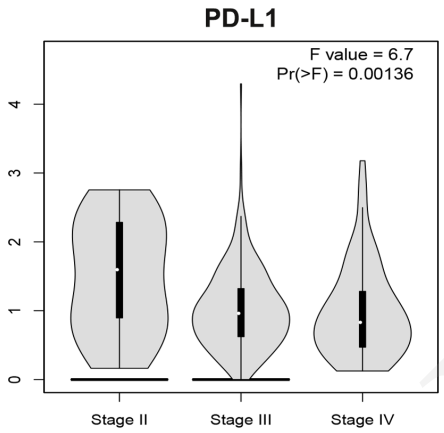
Chemerin promotes proliferation and migration of ovarian cancer cells by upregulating expression of PD-L1

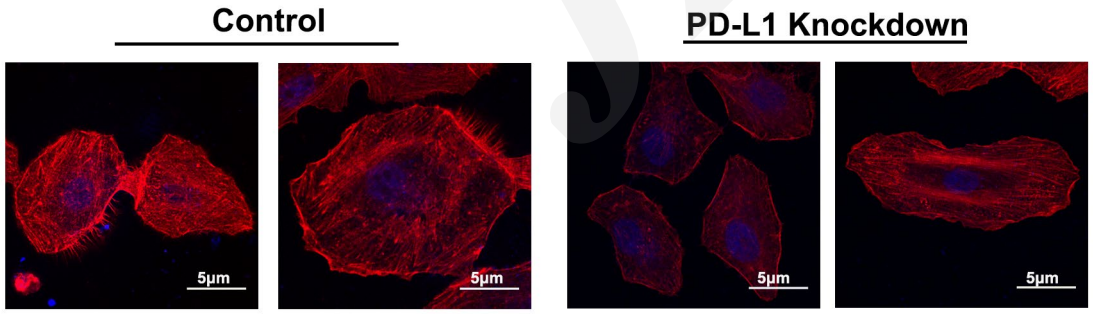
Key words: **ovarian cancer; intraperitoneal tumor microenvironment; chemerin; programmed death ligand (PD-L) 1**

Research Summary





- Expression of chemerin in the ascites of patients with ovarian cancer was significantly increased.
- Expression of chemerin and PD-L1 in ovarian cancer tissue was significantly increased.
- PD-L1 gene expression wad found in stage II–IV ovarian cancer but not in stage I
- Chemerin affected expression of PD-L1 in HO8910 cells, so as to cell proliferation and migration by altering the cytoskeleton.



Innovation points

- ✓ **Our study found for the first time that chemerin can upregulate the expression of PD-L1 in ovarian cancer cells, and thereby promote tumor proliferation and migration.**
- ✓ **Detection of chemerin in serum and ascites may be important for the early diagnosis of ovarian cancer.**
- ✓ **Chemerin combined with other adipokines may become a diagnostic target for ovarian cancer.**