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## Rho GTPases: A therapeutic target for the treatment of ovarian carcinoma

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Ovarian cancer is the most lethal of the gynecologic malignancies, exploring the related molecular mechanisms of initiation and development, and identifying possible targets for the treatment of ovarian carcinoma has taken into insight nowadays. Ras homolog gene family member C (RhoC) is a small G protein/guanosine triphosphatase involved in tumor mobility, invasion, and metastasis. Our previous studies showed that RhoC expression was positively correlated to ovarian carcinogenesis, clinical stage and vascularization in ovarian cancer. RhoC inhibitor, Lovastatin, could inhibit ovarian cancer cell proliferation, migration and invasion through downregulating RhoC and modulating relevant gene expression. Besides, we also found a series of microRNAs and LncRNAs which play important roles in ovarian carcinoma pathological processes through regulating RhoC directly or indirectly. Above all, we suggest that the up-regulated RhoC expression may affect ovarian carcinogenesis and should be considered as a good biomarker and also a potential therapeutic target for the treatment of ovarian carcinoma.

### Biography

Yang Zhao, Medicine Doctor (PhD Medicine), is a Professor of Department of Gynecology, the First Affiliated Hospital of China Medical University. She has extensive experience in the treatment of irregular menstruation, pelvic inflammatory disease, gynecological and other aspects of benign and malignant tumors. During the past five years, as the first/corresponding author, she had published 25 SCI articles, with the total IF value 96 points (220 citations). She got the 1st National Woman and Child Health Science and Technology Award in 2015, and Liaoning Provincial Science and Technology Progress Award in 2015. Besides, she was the host of the National Natural Science Foundation of China (Nos. 81202049, 81472440).

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