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AB091. C1QBP suppresses cell adhesion and metastasis of renal carcinoma cells

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Background: Complement component 1q subcomponent binding protein (C1QBP) is a ubiquitously expressed cellular protein and can be upregulated or activated in a variety of malignant tumors, including those from thyroid, colon and breast, but its role remains unclear in renal cell carcinoma (RCC).
Methods: In this study, we constructed C1QBP knockdown RCC cell line. Microarray assay was used to analyze C1QBP regulated genes. Cell adhesion and migratory was tested.
Results: C1QBP knockdown influenced expression of multiple genes associated with cell adhesion. Cell invasion abilities were significantly increased with increased metastasis to lung and liver in vivo. C1QBP may regulate RCC cell adhesion and invasion through influencing the p-GSK3/β-catenin/L1CAM expression.
Conclusions: Overall, our study demonstrated that C1QBP could regulate RCC metastasis by regulating the GSK3/β-catenin/L1CAM signaling pathway.
Keywords: Complement component 1q subcomponent binding protein (C1QBP); L1CAM; renal cell carcinoma (RCC)

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AB092. Comparison of quercetin and resveratrol in the prevention of injury due to testicular torsion/detorsion in rats

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Background: Quercetin (QE) and resveratrol (RSV) are powerful antioxidants with the potential to protect the testes against ischemia/reperfusion (I/R) injury. We compared their effects in testicular torsion/detorsion (T/D) in adult rats.
Methods: Twenty-four male Wistar rats were divided in four groups: A, B, C, and D. QE and RSV were injected intra-peritoneally. After torsion, the testicular cord was restored. After torsion, blood and tissue samples were obtained.
Results: MDA and NO levels, TOS and TAS were higher in group B. QE and RSV lowered MDA, NO, and TOS levels and TAS consumption. QE reduced the MDA and TOS levels more than RSV. Groups C and D had lower testicular injury grade. Group C had lower testicular injury grade
Conclusions: Treatment with QE and RSV protects against I/R injury after testicular T/D. QE may exhibit better function than RSV at the doses tested in this study.
Keywords: Ischemia/reperfusion (I/R); quercetin (QE); resveratrol (RSV); testicular torsion/detorsion (T/D)

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