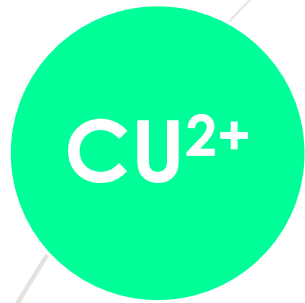


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Effects of Astaxanthin on Oxidative Stress Induced by Cu^{2+} in Prostate Cells

Key words: Oxidative stress; PC-3; RWPE-1; AST; Copper ion

Innovation points



CU²⁺

+

AST

- Normal prostate cell: AST inhibit Cu²⁺-induced oxidative stress by scavenging ROS, restoring MMP and increasing antioxidant enzyme activity.
- Prostate cancer cell: AST accelerated the damage induced by Cu²⁺ by decreasing activities of CAT, GSH-Px and CAT.
- Significant: AST might be potential for protecting normal prostate cells from oxidative damage while releasing Cu²⁺-induced toxicity in prostate cancer.