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Author Shih-Ying Lee
Author's Email Address No Public.
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Abstract
Nanoparticles have been applied to medical purposes in recent years. In this study, we tried to investigate the usage of nanoparticles in detecting leukocyte immune response. We found that the gold nanoparticles lead to decreased leukocytes ROS production and phagocytosis, but did not affect granulocytes surface molecules expression. Quantum dot (QD) on the other hand, did not affect leukocytes ROS production, phagocytosis and granulocytes surface molecules activity. Therefore, gold nanoparticles may be applied in anti-inflammatory responses or clinical therapy, or used as an additive in cosmetics or heath food for the purpose reduced free radical. In addition, QD are more appropriate nanobeads for labeling and used as diagnostic indicators of inflammation. This system may be applied to other clinical imaging and disease localization in the future.
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