

## **Effect of Troglitazone on Retinoic Acid Metabolism and Cellular Proliferation in Human K562 Cells**

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Retinoids are essential for many critical life processes including cellular proliferation and immune function. Proliferation is impacted by oxidative metabolites of retinol. All-*trans*-retinoic acid (*t*-RA) and 9-*cis*-retinoic acid serve as ligands for retinoic acid receptors and retinoid X receptors that are involved in regulating immune function by impacting cellular proliferation. We examined *t*-RA metabolism in presence or absence of troglitazone in the human pro-red blood cell line K562. Additionally, proliferation assays were performed with K562 cells treated with troglitazone, *t*-RA, or troglitazone and *t*-RA. Our data suggests that troglitazone increases retinoid availability within this cell line and modulates cellular proliferation.