Reviewer's report

**Title:** Glucocorticoids with different chemical structures but similar glucocorticoid receptor potency regulate subsets of common and unique genes in human trabecular meshwork cells.

**Version:** 2  **Date:** 20 July 2009

**Reviewer:** Thomas Yorio

**Reviewer's report:**

While the authors made some significant changes in response to the reviewer's comments it is still not clear that using one dose at one timepoint will yield useful information. For pharmacological assessment a dose-response is particularly warranted especially comparing three agonists. While the dose is 1000x the affinity constant for receptors it remains unclear what exactly this will tell us. The authors are claiming differences in responses that can only relate to this very high dose that may activate systems normally not part of the pharmacological profile. Common signaling pathways will still remain questionable as to usefulness in assessing these three agents pharmacological profiles. Only complete dose-response curves and varying time points will give more complete picture of the drug response profiles.

**Level of interest:** An article whose findings are important to those with closely related research interests

**Quality of written English:** Acceptable

**Statistical review:** No, the manuscript does not need to be seen by a statistician.