Reviewer’s report

Title: MST-4 and TRAF-6 expression in the peripheral blood mononuclear cells of patients with Graves' disease and its significance

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Reviewer: Rinkoo Dalan

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MST-4 and TRAF-6 expression in the peripheral blood mononuclear cells of patients with Graves' disease and its significance

It was a great idea to try to decipher the exact immune mechanisms in Graves' disease. However since the expression of the above receptors in limited in the thyroid gland, I am not sure how much is translated to actual effects within the thyroid gland in Graves disease. As expected there is a similar expression as would be seen in sepsis in infection which is a generalised inflammatory state. Since active Graves' disease in the hyperthyroid state is a generalised inflammatory state the response may be similar. We cannot decipher much as to the exact roles of these in Graves' disease in the current study.

Another limitation of this study was that the confounder graves' opthalmopathy was not described as all. The presence of GO in the euthyroid Graves would still constitute an inflammatory state and be a likely cause of why no significant differences were seen between active Graves and euthroid Graves.

Since inflammation and the immune system play a major role we need to elicit the difference in GO as well..

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

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