Reviewer's report

Title: Aqueous humour of patients with primary angle closure glaucoma harbours different altered abundances of matrix metalloproteinases and tissue inhibitors of metalloproteinases

Version: 1 Date: 2 January 2014

Reviewer: Nikitas Fountoulakis

Reviewer's report:

Major Compulsory Revisions

Abstract. The authors should enclose mean ± SD values of MMPs and TIMPs in abstract as well.

Text:

Methods: the authors should include a reference of glaucoma diagnosis criteria used and more data concerning perimetry used and patient examination (for example, was the examination conducted by the same doctor-glaucoma specialist for both study and control groups?)

Results: 1) the authors should include p values for MMP/TIMP ratios comparison
2) the authors mention a sub analysis - comparison of patients with and without prostaglandin analogues treatment. Please provide more information of these subgroups (number of samples, statistical data) in the participants' and results' section

Table 2. The authors should include ±SD and p values for each ratio

Minor Essential Revisions

Discussion- paragraph 4 (limitations of the study). As already mentioned, some of the patients enrol for the study, are under topical antiglaucoma treatment. If the authors have more information about the type and number of medication used, they should report it and make a comment in this section about the possible influence of antiglaucoma medication on aqueous humor protein and MMP concentrations.

Discretionary Revisions

Figure 2 and 3. Although mentioned in the legends, i think it is advisable to report detection sensitivity of assay kits in a different table( including min and max concentrations detected according to manufacturer’s information)

Level of interest: An article of outstanding merit and interest in its field

Quality of written English: Needs some language corrections before being published
Statistical review: Yes, but I do not feel adequately qualified to assess the statistics.

Declaration of competing interests:
I declare that I have no competing interests