

# Reply to “TXNRD2 (rs35934224) CT genotype and primary open-angle glaucoma: correspondence”

## Resposta a “Genótipo CT do *TXNRD2* (rs35934224) e glaucoma primário de ângulo aberto: correspondência”

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To the Editor:

We thank Sookaromdee and Wiwanitkit for their interest and comments on our manuscript. The authors have highlighted the importance of further studies to evaluate the effects of other polymorphisms on primary open-angle glaucoma (POAG). As published by Weinreb et al.<sup>(1)</sup>, glaucoma is a multifactorial disease with incompletely understood pathophysiology. Bailey et al.<sup>(2)</sup> published a genome-wide association study (GWAS) describing 22 POAG-related single nucleotide polymorphisms (SNPs), of which 19 had been previously described. In addition, Bonnemaier<sup>(3)</sup> confirmed the relationship of 15 SNPs with glaucoma in the African population.

Although GWAS studies are important to identify new common polymorphisms associated with diseases, this strategy has some limitations<sup>(4)</sup> that may lead to false-positive results. In addition, most studies were performed in European and North American populations; therefore, it is of fundamental importance to confirm these polymorphisms in other populations, such as the Brazilian, which has a highly admixed population. Therefore, we decided to verify the association of *TXNRD2* (rs35934224) with POAG in a Brazilian population.

As exposed in our work, we also have the conviction that further studies are needed to confirm these associations and try to better understand the disease pathophysiology to be able to propose curative therapies based on these data.

### REFERENCES

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