Reviewer’s report

**Title:** Polymorphic genes of detoxification and mitochondrial enzymes and risk for progressive supranuclear palsy: a case control study

**Version:** 3 **Date:** 9 February 2012

**Reviewer:** Matthias Elstner

**Reviewer’s report:**

In their revision of the manuscript the authors responded to all issues raised. The introduction is clearer as to the choice of genes investigated. In their discussion, the authors explain in more detail the findings, implications and limitations of the study. In this respect, the manuscript is largely improved.

As to the necessity for multiple testing correction after imputation of the NAT2 phenotype, the authors still argue that - due to its 'independent' nature - such correction is not necessary. Although this might pose a conflict of opinion, the authors reason their approach and clearly mention the need for confirmation of this finding. These limitations in mind, this study is aimed at and serves to encourage further studies into this association.

**Level of interest:** An article of importance in its field

**Quality of written English:** Acceptable

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

**Declaration of competing interests:**

No competing interest.