Reviewer's report

**Title:** Lack of association between serotonin transporter 5-HTT gene polymorphism and endometriosis in an Italian patient population

**Version:** 1  
**Date:** 13 May 2014

**Reviewer:** Dirk Mielenz

**Reviewer's report:**

The Authors state that the reduction in serotonin re-uptake leads to higher tendency to stress (Introduction) and that serotonin influences the affective and sensory components of the disease (conclusion). However, a thorough explanation of the role of serotonin in the pathogenesis of endometriosis is lacking: it is clear that a greater tendency to stress could influence pain perception in endometriosis, but how could it lead to the onset of the lesions? The Authors should dwell more on the hypothesis behind their work (How can serotonin transporter gene play a role in the pathogenesis of endometriosis?).