Reviewer's report

Title: Quantitative electroencephalography reveals different physiological profiles between benign and remitting-relapsing multiple sclerosis patients

Version: 2 Date: 20 October 2008

Reviewer: Letizia Leocani

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- Concerning the possible contribution of EMG:
The analysis of temporal electrodes is satisfactory. With this respect, ERPs are not particularly necessary; moreover a possible EMG activity would be averaged out in the averaging process used to obtain ERPs. Therefore, the figure with ERPs could be removed.

- Concerning relative power, not performed in this study:
It is no longer mandatory for excluding EMG contribution to the results, already excluded otherwise (as mentioned above, using the analysis of temporal electrodes). However, relative power could have been useful in order to understand whether differences in MS patients were specific to the beta rhythms or were involving a wide range of bands, reaching significance for beta only. The issue of band-specificity in the present findings could be addressed in more detail in the Discussion.

- All other comments have been satisfied.