Reviewer's report

Title: Association between mutation of the NF2 gene and monosomy 22 in menopausal women with sporadic meningiomas.

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Reviewer: Laura Papi

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The manuscript by Tabernero and colleagues analyses copy number changes of chromosome 22 as well as the frequency of NF2 gene mutations in a series of 20 meningiomas.

The authors confirm the well-known association between LOH of chromosome 22 and mutations of NF2 in meningiomas. On the other hand, the study suggests, for the first time, a possible role of such association in the pathogenesis of meningiomas that develop in the subgroup of menopausal women. This result is novel and likely to be of interest to the research community.

Minor Essential Revisions
Results section: Frequency, localization and type of NF2 mutations in sporadic meningiomas.

a. The sentence “leading to a p.Leu163Cys mutated NF2 protein with a stop codon at position 46” is wrong; it should be changed in: “leading to a p.Leu163Cys mutated NF2 protein with a stop after 46 codons”

b. The sentence “leading to a truncated p.Phe119del protein” should be changed in “leading to an in frame deletion of Phe119”

c. The sentence “showed no NF2 mutations in none of them.” should be changed in “showed no NF2 mutations.”

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

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

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