Reviewer's report

**Title:** Characterization of the prostate cancer lesions developed in heterozygous Men1 mutant mice

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**Reviewer:** Philippe Chanson

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The article entitled « Characterization of the prostate cancer lesions developed in heterozygous Men1 mutant mice » by C Seigne et al. reports the results of the study of the prostate in male heterozygous Men1 mutant mice. The Authors show that incidence of in situ carcinoma and prostate cancer was increased compared with wild type mice. The expression of menin was reduced in carcinomas and partial loss of Men1 allele was detected in some lesions. Menin-negative prostate cancer cells did not display p63 expression and androgen receptor was expressed but heterogeneously. The expression of CDKN1B was decreased in the prostate cancer cells of mutant mice. The paper is clear well written and discussion is fair.

Minor essential revisions

1-The main concern with that study is that while the number of lesions was given in details for the description of the lesions and the menin expression, there is no detail about the number of the lesions involved in the studies of p63 expression and AR expression. The Authors describe “cancerous cells” but we don’t know which number of prostate cancers have been studied and if this result is homogeneous in all cancers studied. The same is true for expression of AR and CDK1B

2-Some sentences in the Results are too speculative, particularly concerning AR expression (p13, “They also suggest that menin inactivation may lead to the deregulation of AR expression”). This is only an association between menin activation and AR expression not a causal relationship!

**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:**

I have no competing interest.