Reviewer's report

Title: Superparamagnetic iron oxide nanoparticles mediated 131I-hVEGF siRNA inhibits hepatocellular carcinoma tumor growth in nude mice

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Reviewer: Zongjin Li

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The manuscript entitled “Superparamagnetic iron oxide nanoparticles mediated 131I-hVEGF siRNA inhibits hepatocellular carcinoma tumor growth in nude mice” presented a novel approach carrying hVEGF siRNA guided by EMF to silence the expression of VEGF.

In general, this idea is novel. However, lot of issues should be addressed before this manuscript can be accepted.

1) The authors want to present a work on targeted cancer therapy with molecular imaging: Fig 2B&C, no obvious results revealed accumulation of radiotracer or iron in tumor; also quantitative analysis should be done.

2) Page 11, SPECT imaging, 30min after tracer injection can well reflect 131I accumulation. Because the targeting depends on manganic field. Half time 131I is 8 days, so this time point should be extended.

3) in vitro function of 131I-hVEGF siRNA also should be done.

4) The manuscript should be extensively revised by a native speaker.

Level of interest: An article of importance in its field

Quality of written English: Not suitable for publication unless extensively edited

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