

# Review of: "Suspension array platform based on aptamer for high-throughput detection of five environmental hormones"

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**Potential competing interests:** The author(s) declared that no potential competing interests exist.

*General opinion: accept with minor revision*

*This work is focused on preparing the methods of highly efficient and sensitive detection of estrogens in the environment. The study is close to the scope of this journal. It can be interesting and worth to publication. Additionally, I believe that the attached suggestions can help the authors to improve their manuscript.*

1. At the whole manuscript: The term "environmental hormones" must to be removed. It has to be changed by "xenoestrogens" or "environmental estrogen-like compounds"? However, it has to be emphasized why the 5 compounds were chosen (on Fig. there are more than 5). What does it know about their similarity to estradiol and/or their affinity to estrogen receptors?

2. The Ref.2. is rather a description of method for PCBs detection in water. In my opinion the description of industrial supplies of PCBs is better presented in Borja et al. 2005 (Polychlorinated Biphenyls and Their Biodegradation; PROCESS BIOCHEMISTRY 40(6):1999-2013) or others.

3. What does it mean term "corresponding analogs"? It is a kind of control? Does it mean the xenobiotic showed at Fig. 6? It has to be emphasised. Simazine, PCB congeners 77, 101, 20, Durbans etc., are mentioned only at description of Fig. 6. Why? It has to be developed.

4. How many does one measurement cost? It can be routine / commonly use test?

5. The first use of MBs should be developed in the regular manuscript, not only at Abstract.