

**Thank you for these notes.**

## **Response to AC2**

**-Introduction 1: What made you choose cellulose paper?**

Done, Page 2 Line 46 to 50.

**-Introduction 2: Objective of the research is lacking.**

Done, Page 2, Line 51 to 54.

**- Introduction 3: The novelty of the paper should be explained and added.**

Done, Page 2, line 54. Some new types of bacteria

**-Materials and methods1: Why was this water chosen as a model water?**

Done, Page 2, Line 58 to 59.

**-Materials and methods 2: How were the bacteriological analysis done?**

Mentioned, Page 4,Line 88 to 96.

**-Materials and methods 2: How were the colonies counted?**

Done, Page 4, Line 96 to 97.

**-Materials and methods 3: origin of the cellulose paper should be stated.**

Done, Page 5, line 64.

**-Materials and methods 4: why were ratios 2:1 and 10:1 chosen?**

Done, Page 4, lines 66 and 67.

**-Materials and methods 5: Figure 1 – should be repeated with different background/ preferably white background.**

These papers were taken during the study and there is no possibility of repeating them.

**-Results 1: Reference on turbidity removal with only cellulose paper should be measured.**

It's measured with only cellulose paper already.

**-Results 2: Minimum Inhibitory concentration should be mentioned and defined.**

Done, Page 8, lines 137 and 138.

**-Results 3: It is difficult to make very clear conclusions if Figures 3 and 4 are compared.**

This concern the silver content concentration, we can conclude the 100% inactivation can be reached with less silver content in 10:1 ratio.

**-Conclusion 1; “AgNPs papers can be used a good point of use filters” – This is strong conclusion since it was not compared to other technologies.**

This conclusion was not mentioned as a comparison with other technologies it was based on the results abstained from this study.

**- Abbreviations are not correct and should be corrected.**

Done

**-References Suggestion is to use recent references.**

These are the most recent references concerning this study.

### **Response to AC4**

**- Section 2.5, microbial testing: Please describe how the testing of the paper was done?**

The microbial was conducted for water samples not for AgNPs papers.

**- Section 3, Results and discussion: Placing the study results in wider context remains missing.**

Done