To:

Dr. Nam Nguyen,   
Science Editor *Journal of Visualized Experiments (JoVE)*

From:

Dr. Aurel Radulescu

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21st of June, 2016

Submission of revised version of the manuscript JOVE54639R1:

"Studying Soft-Matter and Biological Systems over a Wide Length-Scale from Nanometer and Micrometer Sizes at the Small-Angle Neutron Diffractometer KWS-2", by Aurel Radulescu, Noemi Kinga Szekely, Marie-Sousai Appavou, Vitaliy Pipich, Thomas Kohnke, Vladimir Ossovyi, Simon Staringer, Gerald J. Schneider, Matthias Amann, Bo Zhang-Haagen, Georg Brandl, Matthias Drochner, Ralf Engels, Romuald Hanslik, Günter Kemmerling

Dear Dr. Nguyen,

we are thankful to you and the reviewers for the comments and advices that halp us in improving the quality of the manuscript. We thank the reviewers for the positive evaluation of the manuscript and the appreciation of our work.

We have revised the manuscript following the editorial and peer review comments. We will report in the following the changes which were made in the manuscript by answering the comments point by point.

Editorial Comments:

1. Formatting: Please include commas between first and last names on the title page if listed Last, First.

Answer: it was corrected.

2. Protocol length exceeds 2.75 pg of highlighted material and must be adjusted accordingly.

Answer: it was corrected; the Protocol has 113 lines (less than 2.75 pg).

3. Please copyedit the manuscript for numerous grammatical errors, especially in phrase ordering. Editing by a native English speaker is strongly suggested. For example, in 4.6.1, it should read “Choose the visualization mode at Display Mode” or “At Display mode, choose the visualization mode.” There are numerous similar errors throughout the manuscript.

-Long abstract – “kinetical” should be “kinetic”

-Line 131 – “in details”

-1.2 – “as much up of its neck”

-4.1 – “startup and control and the visualization”

-4.4.2 – Please clarify “enable the visualization mode of running measurement”.

-Line 528 – “generated files which contains”

-Line 887 – “For the understanding of the mechanism of morphology formation and evolution”

-Line 895 – Please clarify “KWS-2 is pushing the performance in an easy and practical manner”

-Line 993 – “efforts”

-Line 994 – “complicate”

-Line 1021 – “in the case of biological systems small”

Answer: everything was corrected; editing by a native English speaker was applied (Louisiana State University, as mentioned in the Acknowledgments).

4. Additional detail is required:

-1.3 – Please clarify “check if the filling of the quartz cell with sample is appropriate”. What defines appropriate here?

-3.2, 3.3 – Are there any criteria involved in making these choices? Please provide citations.

-4.3.1.1 – What samples will be entered in this example?

Answer: The questions have been answered in the manuscript, citations have been included.

5. Results: Please define the error bars (SD, SEM, etc.) in Figure 14.

Answer: the error bars have been defined in the Figure Caption.

6. Discussion: Please discuss the critical steps of the protocol as well as its limitations. Please also use independent citations when discussing significance with respect to alternative methods.

Answer: The critical steps and limitations of the protocol have been discussed in the Section "Discussion"; independent citations, from 21 to 26, have been added.

Reviewers' comments:

Reviewer #1:

Major Concerns:

The manuscript is nicely written and guides the reader through the experimental procedure. To my opinion, the only concern is the poor resolution of the figure that should be improved.

In particular Figure 1 is not well-presented.

Answer: the quality of figures was improved. The quality of previous vesion of figures was also good, in our opinion the automatic generation of the final version of the review file, including the manuscript text and the figure files, yielded a poor quality material.

Figure 1 was not changed in concept, only improved in quality. The scheme of the KWS-2 diffractometer is presenting all components, while the attached photos may be interesting for regular users, in our opinion, offering them a clear view of components which are playing an important role in conducting their research, but otherwise are hidden during the experiment and cannot be seen at all. In this way, the users can understand better the instrument and the experiment.

Minor Concerns:

There are only very few things (not crucial or wrong):

- line 159 Fourier transformation in singular not plural

- wording in line 296 knobs I would more precisely use control knobs

- Helium 3 should be 3^He in line 564

- Monitor-3 should be accordingly Monitor 3 line 570

Answer: Everything was corrected.

With best regards,

Aurel Radulescu