

Oslo, Norway
July 22 2025**Dear Editors,**

We thank you for the opportunity to submit our revised manuscript, with the revised title *In-silico molecular transport via perivascular networks in the human intracranial space*. We also thank the reviewers for their feedback and constructive comments. We have addressed all comments from the reviewers. Attached are

- our detailed response to the reviewers
- revised manuscript
- revised supplementary information
- manuscript with changes marked
- supplementary information with changes marked
- filled out reporting summary
- filled out editorial policy checklist

We note that in addition to addressing the comments from the reviewers, we have made the following changes.

- We realized that Table 1 contained incorrect values and units. We have corrected the molecular efflux rate, the CSF production rate and the CSF outflow resistance in the revised manuscript.
- Two other typographical errors in the text were also corrected.
- We have also added a clarification of the PVSs considered in the Introduction (L39-L40), and a reference to the label PVSAS induced by Eide and Ringstad (2024) in the Discussion (L251).

Disclosure of use of AI: During our revision, we made some use of generative AI tools (ChatGPT, Gemini) to enhance language and to aid in table formatting. We, the authors, reviewed and edited the content as needed and take full responsibility for the contents of the manuscript.

Yours sincerely,
(on behalf of the authors)

Marie E. Rognes, PhD

Chief Research Scientist
Department for Numerical Analysis and Scientific Computing, Simula Research Laboratory
Kristian Augusts gate 23, 0164 Oslo, Norway

Deputy Director, K. G. Jebsen Centre for Brain Fluid Research

meg@simula.no

www.simula.no/people/meg

<https://orcid.org/0000-0002-6872-3710>