

December 15, 2022

Robert Ang, M.B.B.S.
President and Chief Executive Officer
Vor Biopharma Inc.
100 Cambridgepark Drive, Suite 101
Cambridge, MA 02140

Re: Vor Biopharma Inc.
Registration

Statement on Form S-3

Filed December 14,

2022

File No. 333-268798

Dear Robert Ang:

This is to advise you that we have not reviewed and will not review your registration statement.

Please refer to Rules 460 and 461 regarding requests for acceleration. We remind you that the company and its management are responsible for the accuracy and adequacy of their disclosures, notwithstanding any review, comments, action or absence of action by the staff.

Please contact Jason

Drory at 202-551-8342 with any questions.

Sincerely,

Division of Corporation Finance

Office of Life Sciences

cc:

Divakar Gupta