

August 11, 2022

Jurgi Camblong
Chief Executive Officer
SOPHiA GENETICS SA
Rue du Centre 172
CH-1025 Saint-Sulpice
Switzerland

Re: SOPHiA GENETICS SA
Registration

Statement on Form F-3
2022

Filed August 9,

File No. 333-266704

Dear Dr. Camblong:

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 Jordan

Nimitz at 202-551-5831 with any questions.

Sincerely,

Division of Corporation Finance

Office of Life Sciences