

May 18, 2023

Ross Muken  
Chief Financial Officer  
SOPHiA GENETICS SA  
185 Dartmouth Street Floor 5  
Boston, MA 02116

Re: SOPHiA GENETICS SA  
Form 20-F for the

Fiscal Year Ended December 31, 2022

Filed March 7, 2023  
File No. 001-40627

Dear Ross Muken:

We have completed our review of your filing. 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.

Sincerely,

Division of Corporation Finance

Office of Life Sciences