December 20, 2022

## VIA EDGAR SUBMISSION

Securities and Exchange Commission Division of Corporation Finance 100 F Street, NE Washington, DC 20549

- Attention: Lauren Hamill Tim Buchmiller
- Re: Syros Pharmaceuticals, Inc. Registration Statement on Form S-3 File No. 333-267888 <u>Request for Acceleration</u>

Ladies and Gentlemen:

Pursuant to Rule 461 under the Securities Act of 1933, as amended, Syros Pharmaceuticals, Inc. hereby requests acceleration of the effective date of its Registration Statement on Form S-3 (File No. 333-267888), so that it may become effective at 4:00 p.m., Eastern Time, on December 22, 2022, or as soon as practicable thereafter.

Very truly yours,

SYROS PHARMACEUTICALS, INC.

By: /s/ Gerald E. Quirk

Name: Gerald E. Quirk Title: Chief Legal Officer