

Comera Life Sciences Holdings, Inc.
12 Gill Street, Suite 4650
Woburn, Massachusetts 01801

September 13, 2022

VIA EDGAR

Securities and Exchange Commission
Division of Corporation Finance
100 F Street, N.E.
Washington, D.C. 20549

Re: Comera Life Sciences Holdings, Inc.
Registration Statement on Form S-1
File No. 333-267283
Request for Acceleration

Ladies and Gentlemen:

Pursuant to Rule 461 under the Securities Act of 1933, as amended, Comera Life Sciences Holdings, Inc. hereby requests acceleration of the effective date of its Registration Statement on Form S-1 (File No. 333-267283) so that it may become effective at 4:00 p.m. Eastern time on September 15, 2022, or as soon thereafter as practicable.

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Very truly yours,

Comera Life Sciences Holdings, Inc.

By: /s/ Jeffrey S. Hackman

Name: Jeffrey S. Hackman

Title: Chairman, President and CEO