

**Biomea Fusion, Inc.**  
**726 Main Street**  
**Redwood City, California 94063**

April 13, 2021

**VIA EDGAR AND E-MAIL**

United States Securities and Exchange Commission  
Division of Corporation Finance  
Office of Life Sciences  
100 F Street, N.E.  
Washington, D.C. 20549-6010

Attention: Ada D. Sarmento and Dillon Hagius

**Re: Biomea Fusion, Inc. Registration Statement on Form S-1 (Registration No. 333-254793)**

Ladies and Gentlemen:

In accordance with Rule 461 of Regulation C of the General Rules and Regulations under the Securities Act of 1933, as amended, we hereby request acceleration of the effective date of the Registration Statement on Form S-1 (File No. 333-254793) (the "**Registration Statement**") of Biomea Fusion, Inc. (the "**Company**"). We respectfully request that the Registration Statement become effective as of 4:00 p.m., Washington, D.C. time, on April 15, 2021, or as soon as practicable thereafter, or at such other time thereafter as our counsel, Latham & Watkins LLP may request by telephone. Once the Registration Statement has been declared effective, please orally confirm that event with our counsel, Latham & Watkins LLP, by calling Miles Jennings at (415) 395-8198.

Thank you for your assistance in this matter.

Very truly yours,

**BIOMEA FUSION, INC.**

By: /s/ Thomas Butler

Thomas Butler  
Chief Executive Officer

CC: Rainer (Ramses) Erdtmann, Biomea Fusion, Inc.  
Brian Cuneo, Latham & Watkins LLP  
Charles Kim, Cooley LLP  
Jonie Kondracki, Cooley LLP