

**Bionomics Limited**  
200 Greenhill Road  
Eastwood SA 5063  
Australia

November 14, 2022

**VIA EDGAR**

U.S. Securities and Exchange Commission  
Division of Corporation Finance  
Office of Life Sciences  
100 F Street N.E.  
Washington, D.C. 20549  
Attention: Christopher Edwards  
Jordan Nimitz  
Kevin Vaughn  
Christine Wong

**Re: Bionomics Limited  
Registration Statement on Form F-1  
File No. 333-268314**

Ladies and Gentlemen:

Pursuant to Rule 461 of Regulation C of the General Rules and Regulations under the Securities Act of 1933, as amended, the undersigned, on behalf of Bionomics Limited (the “*Company*”), respectfully requests that the effective date of the Registration Statement on Form F-1 referred to above be accelerated so that it will become effective at 4:00 P.M. Eastern Time on November 15, 2022, or as soon as practicable thereafter.

Please contact Michael E. Sullivan of Latham & Watkins LLP, counsel to the Company, at (858) 523-3959, to provide notice of effectiveness, or if you have any questions or require additional information regarding this matter. Thank you for your assistance and cooperation in this matter.

Very truly yours,

BIONOMICS LIMITED

By: /s/ Errol De Souza  
Errol De Souza, Ph.D.  
Executive Chairman

cc: Michael E. Sullivan, Latham & Watkins LLP  
Nathaniel Ajiashvili, Latham & Watkins LLP  
Anthony W. Basch, Kaufman & Canoles, P.C.  
Yan (Natalie) Wang, Kaufman & Canoles, P.C.