

WAVE LIFE SCIENCES LTD.
7 Straits View #12-00, Marina One East Tower
Singapore 018936

August 12, 2019

VIA EDGAR

United States Securities and Exchange Commission
Division of Corporation Finance
100 F Street, N.E.
Washington, D.C. 20549
Attn: Tonya K. Aldave

RE: Wave Life Sciences Ltd.
Registration Statement on Form S-3
Filed August 6, 2019
File No. 333-233052
Acceleration Request

Dear Ms. Aldave:

With respect to the above-referenced Registration Statement on Form S-3 (the "Registration Statement"), and pursuant to Rule 461 of Regulation C promulgated under the Securities Act of 1933, as amended, the undersigned hereby respectfully requests, on behalf of Wave Life Sciences Ltd. (the "Company"), that the Securities and Exchange Commission (the "Commission") accelerate the effective date of the Registration Statement to Wednesday, August 14, 2019, at 4:00 p.m. Eastern Time, or as soon as practicable thereafter.

The cooperation of the staff in meeting the timetable described above is very much appreciated.

Please call John T. Rudy or John P. Condon of Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C., counsel to the Company, at (617) 542-6000, with any comments or questions regarding the Registration Statement.

Very truly yours,

WAVE LIFE SCIENCES LTD.

/s/ Keith C. Regnante

Keith C. Regnante

Chief Financial Officer

cc: Linda Rockett, Esq., *Senior Vice President, General Counsel, Wave Life Sciences Ltd.*
John T. Rudy, Esq., *Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C.*
John P. Condon, Esq., *Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C.*