



DIVISION OF
CORPORATION FINANCE

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

June 1, 2018

William D. Clark
President and Chief Executive Officer
Genocea Biosciences, Inc.
100 Acorn Park Drive
Cambridge, Massachusetts 02140

Re: Genocea Biosciences, Inc.
Registration Statement on Form S-3
Filed May 21, 2018
File No. 333-225086

Dear Mr. Clark:

This is to advise you that we have not reviewed and will not review your registration statement.

Please refer to Rules 460 and 461 regarding requests for acceleration. We remind you that the company and its management are responsible for the accuracy and adequacy of their disclosures, notwithstanding any review, comments, action or absence of action by the staff.

Please contact Abigail Jacobs at 202-551-2902 or Mary Beth Breslin at 202-551-3625 with any questions.

Division of Corporation Finance
Office of Healthcare & Insurance

cc: Thomas J. Danielski