

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

Moderna Therapeutics, Inc.

Petitioner

v.

Arbutus Biopharma Corp.
Patent Owner

Patent No. 8,058,069

PETITIONER'S POWER OF ATTORNEY

Mail Stop "PATENT BOARD"
Patent Trial and Appeal Board
U.S. Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

PETITIONER'S POWER OF ATTORNEY

Pursuant to 37 C.F.R. 42.10(b), Petitioner Moderna Therapeutics, Inc. ("Moderna") hereby appoints the practitioners associated with Irell & Manella's Customer No. 29000 as its attorneys to transact all business in the United States Patent and Trademark Office for the *Inter Partes Review* of U.S. Patent No. 8,058,069. Moderna further appoints Michael R. Fleming as Lead Counsel, C. Maclain Wells as First Back-up Counsel, and Alan Heinrich as Backup Counsel (*pro hac vice* admission to be requested).

Michael R. Fleming, Reg. No. 67,933 Irell & Manella LLP 1800 Avenue of the Stars, Suite 900 Los Angeles, CA 90067 mfleming@irell.com Telephone: (310) 277-1010 Facsimile: (310) 203-7199	C. Maclain Wells, Reg. No. 48,991 Irell & Manella LLP 1800 Avenue of the Stars, Suite 900 Los Angeles, CA 90067 mfleming@irell.com Telephone: (310) 277-1010 Facsimile: (310) 203-7199 Alan Heinrich, <i>pro hac vice to be requested</i> Irell & Manella LLP 1800 Avenue of the Stars, Suite 900 Los Angeles, CA 90067 mfleming@irell.com Telephone: (310) 277-1010 Facsimile: (310) 203-7199
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Dated: January 4, 2019

By: Moderna Therapeutics, Inc.