UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

HOPEWELL PHARMA VENTURES, INC.,
Petitioner,

v.

MERCK SERONO S.A.
Patent Owner.

Case IPR2023-00481
U.S. Patent No. 8,377,903

DECLARATION OF AARON E. MILLER, M.D.

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I, Aaron E. Miller, M.D., hereby declare as follows.

I. Introduction

1. I am over the age of eighteen (18) and otherwise competent to make this declaration.

2. I have been retained as an expert witness on behalf of Petitioner Hopewell Pharma Ventures, Inc. ("Hopewell") for the above-captioned *inter partes* review ("IPR"). I am being compensated for my time in connection with this IPR at my standard consulting rate, which is $790/hr.

3. I understand that the petition for IPR involves U.S. Patent No. 8,377,903 ("the '903 patent"), EX1001, which resulted from U.S. Application No. 12/766,173 ("the '173 application"), filed on April 23, 2010, which is a continuation of U.S. Application No. 11,722,018, which is the National Phase Entry of International Patent Application No. PCT/EP2005/056954, filed on December 20, 2005, which claims the benefit of the U.S. Provisional Application No. 60/638,669, filed on December 22, 2004, and the Foreign Patent Application No. EP04106909, filed on December 22, 2004. EX1001, De Luca. The '903 patent issued on February 19, 2013, from the '173 application. *Id.* The '903 patent names Giampiero De Luca, Arnaud Ythier, Alain Munafo, and Maria Lopez-Bresnahan as

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