

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re: U.S. Patent of Cottens *et al.*  
Proceeding No.: IPR2016-01023  
Patent No.: 5,665,772  
Application No.: 08/416,673  
For: O-ALKYLATED RAPAMYCIN DERIVATIVES AND THEIR  
USE, PARTICULARLY AS IMMUNOSUPPRESSANTS

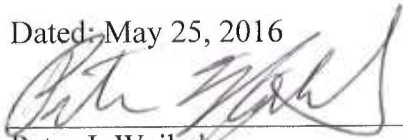
PATENT OWNER'S POWER OF ATTORNEY IN AN *INTER PARTES* REVIEW

Patent Owner Novartis AG ("Novartis") hereby appoints Nicholas N. Kallas (Reg. No. 31,530) and Raymond R. Mandra (Reg. No. 34,382) as its attorneys to prosecute the aforementioned proceeding and to transact all business in the United Patent and Trademark Office connected therewith.

Please address all correspondence as follows:

Nicholas N. Kallas  
Fitzpatrick, Cella, Harper & Scinto  
1290 Avenue of the Americas  
New York, NY 10104-3800  
Telephone: (212) 218-2100  
Facsimile: (212) 218-2200  
nkallas@fchs.com

Dated: May 25, 2016



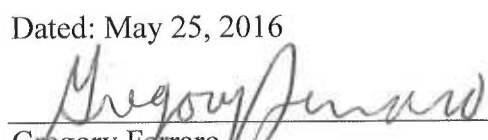
Peter J. Waibel  
Novartis Pharmaceuticals Corporation  
One Health Plaza  
East Hanover, NJ 07936-1080

Witnessed by:

  
Signature

BEVERLY DURHAM  
Printed name

Dated: May 25, 2016



Gregory Ferraro  
Novartis Pharmaceuticals Corporation  
One Health Plaza  
East Hanover, NJ 07936-1080

Witnessed by:

  
Signature

Beverly Durham  
Printed name

**Power of Attorney  
(To Novartis IP colleagues based in US, DE, SG, CN)**

By this Power of Attorney, effective 01 January 2016, Novartis AG, a company incorporated under the laws of Switzerland and having its principal place of business at Lichtstrasse 35, 4056 Basel, Switzerland (“the Company”), hereby grants to the Novartis Group Companies listed below (“the Corporate Signatories”):

- a) the revocable authority to sign documents on behalf of the Company in connection with filing, prosecution, maintenance, and administration of any intellectual property right for copyright, design, domain name, patent, supplementary protection certificate (SPC) and trademark registration or any application therefore standing in the name of the Company (“IP”);
- b) the revocable authority to sign documents on behalf of the Company in connection with litigation relating to defense of IP before a governmental authority; and
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and for no other purposes.

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This Power of Attorney includes the power to appoint external agents within the scope of this Power of Attorney.

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Britta Chamberlain  
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Susanne Groeschel-Jofer  
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[北京诺华制药有限公司]Fan (Kent) Yang [杨帆]  
Lu Dai [戴鹭]  
John Ti Li [栗如松]  
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Zheng (Aileen) Wei [魏铮]  
Wen (Lucia) Tang [唐雯]  
Xiaoning (Remy) Wang [王小宁]China Novartis Institutes for BioMedical Research Co., Ltd.    Jing Sun [孙菁]  
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