

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| JANSSEN PHARMACEUTICA NV | 12/16/2011 |
| RECEIVING PARTY DATA | |
| Name: | VANDERBILT UNIVERSITY |
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| City: | NASHVILLE |
| State/Country: | TENNESSEE |
| Postal Code: | 37240 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 13329025 |
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| NAME OF SUBMITTER: | D. BRIAN SHORTELL, PH.D. |
| Signature: | /D. Brian Shortell/ |
| Date: | 10/21/2013 |
| Total Attachments: 1 source=22000_0224U2_Janssen_to_Vandy_Assignments#page1.tif | |

OP \$40.00 13329025

General Assignment

WHEREAS, Janssen Pharmaceutica NV, having its place of business at Turnhoutseweg 30, 2340 Beerse, Belgium (hereinafter referred to as "Assignor"), is the owner of certain new and useful inventions relating to

BICYCLIC TRIAZOLE AND PYRAZOLE LACTAMS AS ALLOSTERIC MODULATORS OF MGLUR5 RECEPTORS

for which on the 17th day of December 2010, US Application No. 61/424557 was filed.

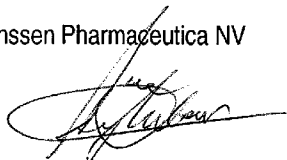
WHEREAS, VANDERBILT UNIVERSITY, whose Post Office address is Office of Technology Transfer, 305 Kirkland Hall, Nashville, Tennessee 37240, USA (hereinafter referred to as "Assignee") is desirous of acquiring Assignors' entire right, title and interest therein, including the right to claim priority thereof.

NOW, THEREFORE, BE IT KNOWN, that in view of good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Assignor hereby assigns and transfers, for all countries in the world, to said Assignee its entire right, title and interest, including the right to claim priority, in and to all said inventions disclosed in said applications and in and to said applications, and all foreign equivalents thereof, including all substitutions, divisions, and continuations thereof, and in and to all Letters Patent, that may be granted for said inventions, and in and to all extensions, renewals, and reissues thereof, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignor if this Assignment had not been made.

And for purpose of obtaining patent protection in any foreign country, the Assignor hereby agrees that, any right, title and interest, in and to all said inventions disclosed in said applications and in and to said applications, and all foreign equivalents thereof can be directly assigned by the inventors to the Assignee without explicit confirmation of the Assignor.

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seals this date.

For Janssen Pharmaceutica NV



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Luc Quaghebeur, Proxy Holder
Janssen Pharmaceutica NV

Dated: 16 Dec 2011