

# PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
CRAIG W. LINDSLEY	10/23/2013
P. JEFFREY CONN	10/23/2013
MICHAEL R. WOOD	10/23/2013
BRUCE J. MELANCON	10/23/2013
MICHAEL S. POSLUSNEY	01/13/2014
JAMES C. TARR	10/23/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	VANDERBILT UNIVERSITY
<b>Street Address:</b>	305 KIRKLAND HALL
<b>Internal Address:</b>	2201 WEST END AVENUE
<b>City:</b>	NASHVILLE
<b>State/Country:</b>	TENNESSEE
<b>Postal Code:</b>	37240
<b>PROPERTY NUMBERS Total: 3</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	61586065
<b>Application Number:</b>	13740189
<b>PCT Number:</b>	US1321341
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(678)420-9301
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	678-420-9300
<b>Email:</b>	oglesd@ballardspahr.com
<b>Correspondent Name:</b>	D. BRIAN SHORTELL, J.D., PH.D.
<b>Address Line 1:</b>	999 PEACHTREE STREET
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<b>Address Line 4:</b>	ATLANTA, GEORGIA 30309
<b>ATTORNEY DOCKET NUMBER:</b>	22000.0245U2
<b>NAME OF SUBMITTER:</b>	D. BRIAN SHORTELL, J.D., PH.D.

502848843

PATENT  
REEL: 033088 FRAME: 0347

<b>SIGNATURE:</b>	/D. Brian Shortell, Reg. No. 56,020/
<b>DATE SIGNED:</b>	06/12/2014
<b>Total Attachments: 8</b> source=Doc_2014061212200300#page1.tif source=Doc_2014061212200300#page2.tif source=Doc_2014061212200300#page3.tif source=Doc_2014061212200300#page4.tif source=Doc_2014061212200300#page5.tif source=Doc_2014061212200300#page6.tif source=Doc_2014061212200300#page7.tif source=Doc_2014061212200300#page8.tif	

**ASSIGNMENT**

**WHEREAS**, we, **Craig W. Lindsley** of 401 Brierly Court, Brentwood, TN 37027, United States of America; **P. Jeffrey Conn** of 9012 Grey Point Ct., Brentwood, TN 37027, United States of America; **Michael R. Wood** of 1035 Maycroft Knoll, Brentwood, TN 37027, United States of America; **Bruce J. Melancon** of 1217 McChesney Ave., Nashville, TN 37216, United States of America; **Michael S. Poslusney** of 2205 Burbank Ave., Nashville, TN 37015, United States of America; and **James C. Tarr** of 5005 Timberhill Drive, Nashville, TN 37221, United States of America (hereinafter, the **"INVENTORS"**), have invented new and useful improvements in **"SUBSTITUTED 4-(1H-PYRAZOL-4-YL)BENZYL ANALOGUES AS POSITIVE ALLOSTERIC MODULATORS OF MACHR M1 RECEPTORS"** (VU12044P1) (hereinafter, the **"INVENTION"**) for which a United States Provisional Application was filed on January 12, 2012, and assigned Application No. 61/586,065, and an International Patent Application was filed on January 12, 2013, and assigned Application No. PCT/US13/21341; and

**WHEREAS**, **VANDERBILT UNIVERSITY**, whose Post office address is Center for Technology Transfer and Commercialization, 305 Kirkland Hall, Nashville, Tennessee 37240, USA, is desirous of acquiring the entire interest in the same;

**NOW, THEREFORE**, for good and valuable consideration, as described in the Policy on Technology and Literary and Artistic Works, published in the 1993-1994 Vanderbilt Faculty Manual, the sufficiency and adequacy and receipt of which are hereby acknowledged, we, the **INVENTORS**, agree to assign and hereby do sell, assign and transfer, effective as of the filing date of the above patent application, unto said **VANDERBILT UNIVERSITY** the entire right, title and interest in and to said invention and application throughout the world, including, without limitation, any Letters Patent which may issue thereon, and any subsequent application claiming priority to the above-identified application, reissue, reexamination, divisional, continuation-in-part, extension or continuation thereof and all rights of priority under the Paris Convention arising from said application, and all other rights in the **INVENTION** possessed by the **INVENTORS**, including the right to bring suit for damages due to past infringements; the same

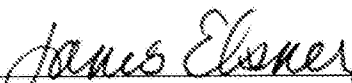
for **VANDERBILT UNIVERSITY'S** legal representatives and assigns, as fully and entirely as the same would have been held by us had this assignment and sale not been made;

**AND**, we hereby bind ourselves, our heirs, legal representatives, administrators and assigns properly to execute without further consideration any and all applications, petitions, oaths and assignments or other papers and instruments which may be necessary in order to carry into full force and effect, the sale, assignment, transfer and conveyance hereby made or intended to be made and generally do everything possible to aid **VANDERBILT UNIVERSITY**, its legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries throughout the world;

**AND**, we hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

**AND**, we, the **INVENTORS**, hereby authorize counsel for **VANDERBILT UNIVERSITY** to enter above information identifying applications claiming the **INVENTION** as well as any subsequent application claiming priority directly or indirectly to the above-listed applications under 35 U.S.C. § 119(e), including any reissues, reexaminations, divisions, continuations-in-part, extensions, or continuations thereof, and all rights of priority under the International Convention.

**THIS ASSIGNMENT**, received and accepted by **VANDERBILT UNIVERSITY** on this 26<sup>th</sup> day of Feb, 2013, effective as of January 12, 2013.

  
\_\_\_\_\_  
**Assignee Representative** Director of Commercial Operations  
Center for Technology Transfer  
and Commercialization

\_\_\_\_\_  
**Title**

IN WITNESS WHEREOF, I have executed this Assignment this 23<sup>rd</sup> day of Oct, 2013,  
effective as of January 12, 2013.

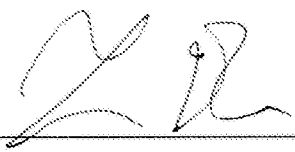
  
CRAIG W. LINDSLEY

Witnessed By:   
Signature

Elizabeth Cahill  
Printed Name of Witness

1215 Light Hall  
Address of Witness

Date: 10/23/13

Witnessed By:   
Signature

Trevor Burbank  
Printed Name of Witness

1215M Light Hall  
Address of Witness

Date: 10/23/13

IN WITNESS WHEREOF, I have executed this Assignment this 23 day of Oct, 2013,  
effective as of January 12, 2013.

P. Jeffrey Conn  
P. JEFFREY CONN

Witnessed By: [Signature]  
Signature

Elizabeth Cabill  
Printed Name of Witness

1215 Light Hall  
Address of Witness

Date: 10/23/13

Witnessed By: [Signature]  
Signature

Trenor Burbank  
Printed Name of Witness

1215 Light Hall  
Address of Witness

Date: 10/23/13

IN WITNESS WHEREOF, I have executed this Assignment this 23 day of Oct, 2013,  
effective as of January 12, 2013.

Michael R. Wood  
MICHAEL R. WOOD

Witnessed By: M Mayo  
Signature

Merissa Mayo  
Printed Name of Witness

1215 Light Hall  
Address of Witness

Date: 10/23/13

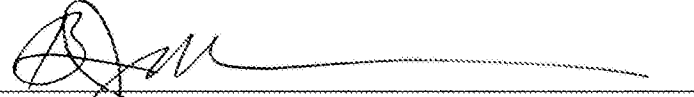
Witnessed By: Kristen Riggs  
Signature


Kristen Riggs  
Printed Name of Witness

1215 Light Hall  
Address of Witness

Date: 10/23/13

IN WITNESS WHEREOF, I have executed this Assignment this 23 day of Oct, 2013,  
effective as of January 12, 2013.

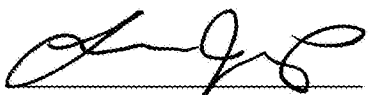
  
BRUCE J. MELANCON

Witnessed By:   
Signature

Meredith Noetzel  
Printed Name of Witness

1215 Light Hall  
Address of Witness

Date: 23 Oct 2013

Witnessed By:   
Signature

Thomas J. Utley  
Printed Name of Witness

1207 17<sup>th</sup> Ave S. 37212  
Address of Witness

Date: Oct 23, 2013



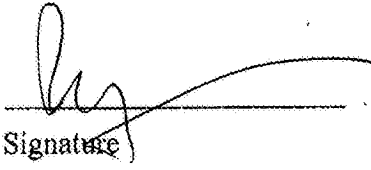
M.S.

IN WITNESS WHEREOF, I have executed this Assignment this 13<sup>TH</sup> day of Jan, 2014, effective as of January 12, 2013.

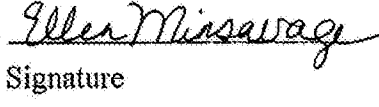


MICHAEL S. POSLUSNEY

Witnessed By:

  
Signature

Witnessed By:

  
Signature

INGRID BUCKLER

Printed Name of Witness

865 N WOLFE ST. STE 200  
Baltimore, MD 21205

Address of Witness

Date:

2/25/2014

Ellen Minsavage

Printed Name of Witness

102 Bynway Road, Owings Mills, MD 21117

Address of Witness

Date:

1/13/14

IN WITNESS WHEREOF, I have executed this Assignment this 23 day of October, 2013,  
effective as of January 12, 2013.

  
JAMES C. TARR

Witnessed By:

Signature

Meredith Noetzel

Printed Name of Witness

1215 Light Hall

Address of Witness

Date: 23 Oct 2013

Witnessed By:

Signature

Thomas J. Utley

Printed Name of Witness

1207 17th Ave S. 37212

Address of Witness

Date: OCT 23, 2013