

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>JOSEPH CHAPPELL</td> <td>10/16/2008</td> </tr> <tr> <td>LYLE F. RALSTON</td> <td>08/18/2011</td> </tr> </tbody> </table>		Name	Execution Date	JOSEPH CHAPPELL	10/16/2008	LYLE F. RALSTON	08/18/2011						
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<table border="1"> <tr> <td>Name:</td> <td>UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION</td> </tr> <tr> <td>Street Address:</td> <td>A144 ASTECC BUILDING</td> </tr> <tr> <td>Internal Address:</td> <td>UNIVERSITY OF KENTUCKY</td> </tr> <tr> <td>City:</td> <td>LEXINGTON</td> </tr> <tr> <td>State/Country:</td> <td>KENTUCKY</td> </tr> <tr> <td>Postal Code:</td> <td>40506-0286</td> </tr> </table>		Name:	UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION	Street Address:	A144 ASTECC BUILDING	Internal Address:	UNIVERSITY OF KENTUCKY	City:	LEXINGTON	State/Country:	KENTUCKY	Postal Code:	40506-0286
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CORRESPONDENCE DATA													
Fax Number: (619)595-8135 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 619-595-8010 Email: mlaipsd@mckennalong.com Correspondent Name: STEPHANIE L. SEIDMAN Address Line 1: MCKENNA LONG & ALDRIDGE LLP Address Line 2: 4435 EASTGATE MALL, SUITE 400 Address Line 4: SAN DIEGO, CALIFORNIA 92121													
ATTORNEY DOCKET NUMBER:	33322.00207.US25/207D												
NAME OF SUBMITTER:	STEPHANIE SEIDMAN												
Signature:	/Stephanie Seidman/												

Date:

10/02/2013

Total Attachments: 3

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ASSIGNMENT

Serial No. 12/182,000

Filed July 29, 2008

In consideration of One Dollar and other good and valuable consideration, the receipt of which is hereby acknowledged, the entire right, title and interest in the invention of Joseph Chappell (hereinafter, "Assignor") in CYTOCHROME P450S AND USES THEREOF and in the application for Letters Patent of the United States therefor, and in any reissue or extension of any Letters Patent that may be granted upon said application are hereby assigned by Assignor to the University of Kentucky Research Foundation and the heirs, successors, legal representatives and assigns of the University of Kentucky Research Foundation (hereinafter, "Assignee"), and the Commissioner of Patents and Trademarks is hereby authorized and requested by the Assignor to issue said Letters Patent to said Assignee.

For said considerations it is hereby agreed by Assignor, upon the request of said Assignee, to execute any necessary and proper oaths or affidavits relating to said application or required for the filing or prosecution of any divisional or continuing application thereof or for the filing or prosecution of any application for the reissue or extension of any Letters Patent that may be granted on said invention that said Assignee may deem necessary or expedient, and for said considerations it is further agreed by Assignor, upon request of said Assignee, in the event of said application or any division thereof, or Letters Patent issued thereon, or any reissue or application for the reissue thereof, becomes involved with Interference, to cooperate to the best of the ability of Assignor with said Assignee in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof, and further to perform, on such request, and all affirmative acts to obtain said Letters Patent and vest all rights therein hereby conveyed in said Assignee as fully and entirely as the same would have been held and enjoyed by Assignor if this Assignment and sale had not been made. And for said considerations the entire right, title and interest in said invention, including all priority rights, and the right to claim priority rights and the privileges and benefits thereof, including those under the International Convention, and all other Conventions, and the right to file applications for patent in said Assignee's own name for said invention in each and every country of the world are hereby assigned and granted by Assignor to said Assignee. It is further agreed by Assignor, upon the request of said Assignee, to execute any and all documents that shall be required of Assignor to be executed in connection with any and all applications for foreign Letters Patent therefor, including the prosecution thereof, and to execute and all documents necessary to invest title in said foreign applications and patents in said Assignee. The attorneys of record in said application for patent are hereby authorized and requested by Assignor to insert in this Assignment the date and serial number thereof in the places provided therefor.



Joseph Chappell

Dated: Oct 16, 2008

ASSIGNMENT

LP 08/11/11 I, **Lyle F. Ralston**, a citizen of the United States of America, residing in KIRKWOOD,
MO, U.S.A., having a mailing address of 628 CLEVELAND AVE

for good and valuable consideration, have assigned and do hereby assign to **UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION**, a corporation of the Commonwealth of Kentucky and having an address of A144 ASTeCC Building, University of Kentucky, Lexington, KY, 40506-0286, U.S.A., its successors, assigns and legal representatives, the entire right, title and interest in and to the subject matter disclosed in U.S. Continuation Application Serial No. 12/182,000 entitled:

CYTOCHROME P450S AND USES THEREOF

which was filed on July 29, 2008, and in and to all Convention and Treaty rights of all kinds, in all countries throughout the world, for all such subject matter, including the right to claim for any such applications any priority rights to which such applications are entitled under international conventions, treaties or otherwise and, in and to, all Letters Patent to be obtained for said subject matter by the above application or any continuation, division, continuation-in-part, extension, conversion to 35 USC 111(b) or substitute thereof, and any reissue, reexamination or extension of said Letters Patent.

ASSIGNMENT
Chappell et al.

I agree to do all acts and sign all documents necessary to secure, defend and maintain all said Letters Patent and rights, including any continuations, divisionals, reissues, renewals and extensions, and request issuance of all said Letters Patent to the above Assignee in accordance with this assignment.

DATE: 08/15/11



Lyle F. Ralston

STATE OF MISSOURI

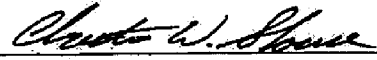
COUNTY OF St. Louis

On 8/18/11 before me, Christian W. Shouse
personally appeared Lyle F. Ralston,

who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity and that by his/her signature on the instrument the person or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of Missouri that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Notary Public

