

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Stephan Schilling</td> <td>01/11/2004</td> </tr> <tr> <td>Torsten Hoffmann</td> <td>01/11/2004</td> </tr> <tr> <td>Andre Johannes Niestroj</td> <td>01/11/2004</td> </tr> <tr> <td>Hans-Ulrich Demuth</td> <td>01/11/2004</td> </tr> <tr> <td>Ulrich Heiser</td> <td>01/11/2004</td> </tr> </tbody> </table>		Name	Execution Date	Stephan Schilling	01/11/2004	Torsten Hoffmann	01/11/2004	Andre Johannes Niestroj	01/11/2004	Hans-Ulrich Demuth	01/11/2004	Ulrich Heiser	01/11/2004
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Probiodrug AG</td> </tr> <tr> <td>Street Address:</td> <td>Weinbertweg 22</td> </tr> <tr> <td>City:</td> <td>Halle/Saale</td> </tr> <tr> <td>State/Country:</td> <td>GERMANY</td> </tr> <tr> <td>Postal Code:</td> <td>D-06120</td> </tr> </table>		Name:	Probiodrug AG	Street Address:	Weinbertweg 22	City:	Halle/Saale	State/Country:	GERMANY	Postal Code:	D-06120		
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CORRESPONDENCE DATA													
Fax Number: (314)259-5959 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 314-259-5818 Email: eholtmann@sonnenschein.com Correspondent Name: Sonnenschein, Nath & Rosenthal LLP Address Line 1: PO Box 061080 Address Line 2: Wacker Drive Station Sears Tower Address Line 4: Chicago, ILLINOIS 63102													
ATTORNEY DOCKET NUMBER:	20075610-0075												
NAME OF SUBMITTER:	Elizabeth C. Holtmann												

OP \$40.00 12182113

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PATENT
REEL: 022603 FRAME: 0082

Total Attachments: 3

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ASSIGNMENT

Whereas we, the undersigned,

Stephan Schilling, a citizen of Germany, residing at Luferweg 4, D-06128, Halle/Saale, Germany; **Torsten Hoffman**, a citizen of Germany, residing at Krnerstrae 8, D-06114 Halle/Saale, Germany; **Andr Johannes Niestroj**, a citizen of Germany, residing at Thlmannplatz 1, D-06193 Sennowitz, Germany; **Hans-Ulrich Demuth**, a citizen of Germany, residing at Hegelstrae 14, D-06114 Halle/Saale, Germany; and **Ulrich Heiser**, a citizen of Germany, residing at Franz-Schubert-Strae 5, D-06108 Halle/Saale, Germany; hereby have made certain inventions or discoveries (or both) set forth in an application for Letters Patent of the United States of America entitled

USE OF EFFECTORS OF GLUTAMINYL AND GLUTAMATE CYCLASES

identified as Attorney Docket No. 20488/59 which application was filed on October 15, 2004, and assigned Application No. 10/966,645. In the event that the execution date, filing date and/or Application No. are not entered above at the time we execute this document, and if such information is deemed necessary, we hereby authorize and request my attorneys at Brown Rudnick Berlack Israels LLP, One Financial Center, Boston, MA 02111, USA to insert above the execution date, filing date and/or Application No. of said application; and

Whereas, Probiodrug AG, having an office and a place of business at Weinbergweg 22, D-06120 Halle/Saale, Germany, and which, together with its successors and assigns, is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits and privileges hereinafter recited;

Now, therefore, for valuable consideration furnished by Assignee to us, receipt and sufficiency of which we hereby acknowledge, we hereby, without reservation:

1. Assign, transfer and convey to Assignee the entire right, title and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation, reissue and Convention applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues, reexaminations, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said Letters Patent;

2. Authorize Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in our names or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;

3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein or otherwise as Assignee may direct;

4. Warrant that we have not knowingly conveyed to others any right in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and that we have good right to assign the same to Assignee without encumbrance;

5. Bind our heirs, legal representatives and assigns, as well as ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in our control or in the control of our heirs, legal representatives or assigns which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries.

In testimony of which we have executed this Assignment on the dates indicated next to our names.

Dated: 01.11.04

S. Schilling
Stephan Schilling

Dated: 01.11.04

Witness: W. L. erbi

Dated: 01.11.04

T. Hoffmann
Torsten Hoffmann

Dated: 01.11.04

Witness: W. L. erbi

Dated: 1.11.04

André Johannes Niestroj
André Johannes Niestroj

Dated: 1.11.04

Witness: W. L. erbi

Dated: 6.11.04

Hans-Ulrich Demuth
Hans-Ulrich Demuth

Dated: 04.11.04

Witness: W. L. erbi

Dated: 11.11.04

Ulrich Heiser
Ulrich Heiser

Dated: 01.11.04

Witness: W. L. erbi