

**PATENT ASSIGNMENT**

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
<b>CONVEYING PARTY DATA</b>									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Jae-Chun Ryu</td> <td>03/10/2009</td> </tr> <tr> <td>Youn-Jung Kim</td> <td>03/10/2009</td> </tr> <tr> <td>Da young Youk</td> <td>03/10/2009</td> </tr> </tbody> </table>		Name	Execution Date	Jae-Chun Ryu	03/10/2009	Youn-Jung Kim	03/10/2009	Da young Youk	03/10/2009
Name	Execution Date								
Jae-Chun Ryu	03/10/2009								
Youn-Jung Kim	03/10/2009								
Da young Youk	03/10/2009								
<b>RECEIVING PARTY DATA</b>									
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City:	Seoul								
State/Country:	REPUBLIC OF KOREA								
Postal Code:	136-791								
<b>PROPERTY NUMBERS Total: 1</b>									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12419758</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12419758				
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Application Number:	12419758								
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Total Attachments: 2 source=39-09_exec_assignment#page1.tif									

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**PATENT  
 REEL: 022523 FRAME: 0682**



**ASSIGNMENT OF RIGHTS, TITLE AND INTEREST IN INVENTION**

*This is an assignment of the following rights, title and interest (check all that apply):*

- United States of America rights, title and interest in the invention*
- Foreign rights, title and interest in the invention*
- United States Patent Application Serial No.* 12/419,758  
*Date of Execution:* 03/10/2009 *Date of Filing:* 04/07/2009
- United States Provisional Patent Application Serial No.* \_\_\_\_\_
- United States Patent No(s).* \_\_\_\_\_
- International (PCT) Patent Application Serial No.* \_\_\_\_\_
- Other (specify)* \_\_\_\_\_

*Title of the Invention:*

GENES BASED ON THALIDOMIDE, VALPROIC ACID AND METHOTREXATE  
TREATMENT FOR SCREENING OF DRUG INDUCING TERATOGENICITY AND  
SCREENING METHOD USING THEREOF

*Inventors (assignors):*

<i>Name</i>	<i>Address</i>
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YOUK, Da young	#A-104 Riverside Town, Gyesan-dong Sangju-si, Gyeongsangbuk-do 742-210, Republic of Korea

*Assignee:*

<i>Name</i>	<i>Address</i>
KOREA INSTITUTE OF SCIENCE AND TECHNOLOGY	39-1 Hawolgok-dong Seongbuk-gu, Seoul 136-791, Republic of Korea

Whereas, we, the above-identified Inventors, have invented certain new and useful improvements in the Invention identified above and described in the above-identified patent application(s) and /or patent(s) (hereinafter referred to as "Invention");

And, whereas we desire to assign our above-identified rights, title and interest in the Invention to the above-identified Assignees;

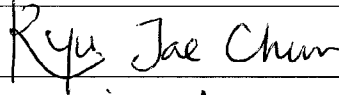
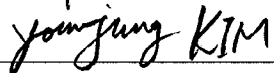
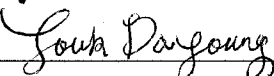
Now, this indenture witnesseth, that for good and valuable consideration, the receipt whereof is hereby acknowledged;

We hereby assign, sell and transfer our above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said Invention, and in and to any and all reissues and reexaminations thereof, which may be granted or have granted for said Invention, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, unto said Assignees;

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any United States Letters Patent which may issue for said Invention to said Assignees, as assignee of the whole right, title and interest thereto;

And we further agree to sign and execute all necessary and lawful future documents, including applications for foreign patents, for filing divisions, continuations and continuation-in-part of said application for patent and/or for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignees or its Designee(s) may from time to time require and prepare at its own expense.

***Inventors' Signatures:***

Name	Signature/ Date
RYU, Jae-Chun	 <b>March 10, 2009</b>
KIM, Youn-Jung	 <b>March 10, 2009</b>
YOUK, Da young	 <b>March 10, 2009</b>