

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
LINDA BURKLY	03/24/2003
Aniela Jakubowski	03/24/2003
Timothy Zheng	03/24/2003
Kyungmin Hahm	03/24/2003
RECEIVING PARTY DATA	
Name:	BIOGEN, INC.
Street Address:	14 CAMBRIDGE CENTER
City:	CAMBRIDGE
State/Country:	MASSACHUSETTS
Postal Code:	02142
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13860983
CORRESPONDENCE DATA	
Fax Number:	(877)769-7945
<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>	
Phone:	(617) 542-5070
Email:	apsi@fr.com
Correspondent Name:	JOSEPH J. KOIPALLY
Address Line 1:	FISH & RICHARDSON P.C.
Address Line 2:	P.O.BOX 1022
Address Line 4:	MINNEAPOLIS, MINNESOTA 55440-1022
ATTORNEY DOCKET NUMBER:	13751-0203004
NAME OF SUBMITTER:	CAROL TYRRELL
SIGNATURE:	/Carol Tyrrell/
DATE SIGNED:	01/07/2015
Total Attachments: 7	
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PCT
ASSIGNMENT

We,

- (1) Linda Burkly,
- (2) Aniela Jakubowski,
- (3) Timothy Zheng, and
- (4) Kyungmin Hahn,

residing, respectively, at

- (1) 34 Winthrop Street, West Newton,
MA 02465 USA,
- (2) 151 Mystic Street, #41, Arlington,
MA 02474 USA,
- (3) 221 Massachusetts Avenue, Apt. 1105, Boston, MA
02115 USA, and
- (4) 2360 Commonwealth Ave., #2-3,
Auburndale, MA 02466 USA,

for good and valuable consideration, receipt of which is hereby acknowledged, have assigned, sold and transferred to and do hereby assign, sell and transfer to BIOGEN, INC. (hereinafter, "BIOGEN"), a corporation organized and existing under the laws of the COMMONWEALTH OF MASSACHUSETTS and having an office and a place of business at 14 CAMBRIDGE CENTER, CAMBRIDGE, MASSACHUSETTS 02142, USA, its successors and assigns: (1) the entire right, title and interest in all countries throughout the world in and to any and all our inventions and discoveries disclosed in our International

Patent Application, filed under the Patent Cooperation Treaty in the United States Receiving Office (RO/US), entitled: METHODS FOR TREATING TWEAK-RELATED CONDITIONS, and designating all member countries, including Albania (AL), Algeria (DZ), Antigua & Barbuda (AG), Armenia (AM), Australia (AU), Austria (AT), Azerbaijan (AZ), Barbados (BB), Belarus (BY), Belgium (BE), Belize (BZ), Benin (BJ), Bosnia and Herzegovina (BA), Brazil (BR), Bulgaria (BG), Burkina Faso (BF), Cameroon (CM), Canada (CA), Central African Republic (CF), Chad (TD), China (CN), Colombia (CO), Congo (CG), Costa Rica (CR), Côte d'Ivoire (CI), Croatia (HR), Cuba (CU), Cyprus (CY), Czech Republic (CZ), Democratic People's Republic of Korea (KP), Denmark (DK), Dominica (DM), Ecuador (EC), Equatorial Guinea (GQ), Estonia (EE), Finland (FI), France (FR), Gabon (GA), Gambia (GM), Georgia (GE), Germany (DE), Ghana (GH), Greece (GR), Grenada (GD), Guinea (GN), Guinea Bissau (GW), Hungary (HU), Iceland (IS), India (IN), Indonesia (ID), Ireland (IE), Israel (IL), Italy (IT), Japan (JP), Kazakhstan (KZ), Kenya (KE), Kyrgyzstan (KG), Latvia (LV), Lesotho (LS), Liberia (LR), Liechtenstein (LI), Lithuania (LT), Luxembourg (LU), Madagascar (MG), former Yugoslav Republic of Macedonia (MK), Malawi (MW), Mali (ML), Mauritania (MR), Mexico (MX), Monaco (MC), Mongolia (MN), Morocco (MA), Mozambique (MZ), Netherlands (NL), New Zealand (NZ), Nicaragua (NI), Niger (NE), Norway (NO), Oman (OM), the Philippines (PH), Poland (PL), Portugal (PT), Republic of Korea (KR), Republic of Moldova (MD), Romania (RO), Russian Federation (RU), Saint Lucia (LC), Saint Vincent and the Grenadines (VC), Senegal (SN), Seychelles (SC), Sierra Leone (SL), Singapore (SG), Slovakia (SK), Slovenia (SI), South Africa (ZA), Spain (ES), Sri Lanka (LK), Sudan (SD), Swaziland (SZ), Sweden (SE), Switzerland (CH), Tajikistan (TJ), Tanzania (TZ), Togo (TG),

Trinidad and Tobago (TT), Tunisia (TN), Turkey (TR),
Turkmenistan (TM), Uganda (UG), Ukraine (UA), United Arab
Emirates (AE), United Kingdom (GB), United States of America
(US), Uzbekistan (UZ), Viet Nam (VN), Yugoslavia (YU), Zambia
(ZM) and Zimbabwe (ZW), and all other PCT member countries,
[subsequently identified as International Patent Application
PCT/US2003/011350, filed 9 April 2003], including any renewals,
revivals, reissues, reexaminations, extensions, continuations
and divisions thereof, and any substitute applications
therefore; (2) the full and complete right to file patent
applications in the name of BIOGEN its designee, or in my name
at BIOGEN, or its designee's election, on the aforesaid
inventions, discoveries and applications in all countries of
the world; (3) the entire right, title and interest in and to
any Letters Patent which may issue on the aforesaid
inventions, discoveries and applications in any country of the
world and any renewals, revivals, reissues, reexaminations and
extensions thereof, and any patents of confirmation,
registration and importation of the same; and (4) the entire
right, title and interest in and to all Convention and Treaty
Rights of all kinds thereon, including without limitation all
rights of priority in any country of the world, in and to the
following priority application(s):

<u>60/371,611</u>	<u>U.S.A.</u>	<u>9 April 2002</u>
application no.	country	filing date

* I hereby authorize BIOGEN and its representatives to insert
in this instrument the International Patent Application number
and the filing date of said application when BIOGEN is
officially notified thereof.

and all rights of priority in any country of the world deriving from the above-identified International Patent Application.

I hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in any country throughout the world to BIOGEN as the assignee of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

I agree, at any time, upon the request of BIOGEN to execute and to deliver to BIOGEN any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries or applications, and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

I further agree, at any time, upon request of BIOGEN to execute and to deliver to BIOGEN such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect any and all rights of BIOGEN under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

ASSIGNOR:

Linda Burkly (1)
Linda Burkly

On this 24 day of March, 2003, Linda Burkly (1) personally appeared before me, a Notary Public in and for the Commonwealth of Massachusetts, and executed the foregoing Assignment and duly acknowledged to me that such Assignment was executed for the uses and purposes therein expressed.

Patricia A. Hofstetter
Notary Public

PATRICIA A. HOFSTETTER
Notary Public
My Commission Expires
May 19, 2006

ASSIGNOR:

Aniela Jakubowski (2)
Aniela Jakubowski

On this 24 day of March, 2003, Aniela Jakubowski (2) personally appeared before me, a Notary Public in and for the Commonwealth of Massachusetts, and executed the foregoing Assignment and duly acknowledged to me that such Assignment was executed for the uses and purposes therein expressed.

Patricia A. Hofstetter
Notary Public

PATRICIA A. HOFSTETTER
Notary Public
My Commission Expires
May 19, 2006

ASSIGNOR:

Kyungmin Hahm (3)

Kyungmin Hahm

On this 24 day of March, 2003, Kyungmin Hahm(3) personally appeared before me, a Notary Public in and for the Commonwealth of Massachusetts, and executed the foregoing Assignment and duly acknowledged to me that such Assignment was executed for the uses and purposes therein expressed.

Patricia A. Hofstetter

Notary Public

PATRICIA A. HOFSTETTER

Notary Public

My Commission Expires

May 19, 2006

ASSIGNOR:

Timothy Zheng (4)

Timothy Zheng

On this 24 day of March, 2003, Timothy Zheng(4) personally appeared before me, a Notary Public in and for the Commonwealth of Massachusetts, and executed the foregoing Assignment and duly acknowledged to me that such Assignment was executed for the uses and purposes therein expressed.

Patricia A. Hofstetter

Notary Public

PATRICIA A. HOFSTETTER

Notary Public

My Commission Expires

May 19, 2006

ACKNOWLEDGEMENT OF ASSIGNEE:

I hereby acknowledge the foregoing executed Assignment on behalf of BIOGEN, INC.

By: 

Raymond G. Arner
Vice President, Chief
Intellectual Property Counsel

On this 27 day of March, 2003, Raymond G. Arner personally appeared before me, a Notary Public in and for the Commonwealth of Massachusetts, and duly acknowledged the executed Assignment on behalf of the Assignee.



Notary Public

Patricia A. Hofstetter

Notary Public

My Comm. Expires

May 19, 2006