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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3334230

SUBMISSION TYPE:		NEW ASSIGNMENT	
NATURE OF CONVEYAN	CE:	ASSIGNMENT	
CONVEYING PARTY DA	ATA		
		Name	Execution Date
CRAIG SIEGEL			01/20/2009
CECILIA M. BASTOS			01/20/2009
DAVID J. HARRIS			01/06/2009
ANGELES DIOS			01/09/2009
EDWARD LEE			01/06/2009
RICHARD SILVA			01/06/2009
LISA M. CUFF			01/09/2009
MIKAELA LEVINE	KAELA LEVINE		01/09/2009
CASSANDRA CELATKA			01/06/2009
FREDERIC VINICK	FREDERIC VINICK		02/16/2009
THOMAS JOZEFIAK			01/06/2009
YIBIN XIANG			01/09/2009
JOHN KANE			01/06/2009
JUNKAI LIAO 01/20/2009		01/20/2009	
RECEIVING PARTY DA	ГА		
Name:	GENZY	ME CORPORATION	
Street Address:	s: 500 KENDALL STREET		
City:	CAMBRIDGE		
State/Country:	Intry: MASSACHUSETTS		
Postal Code:	02142		
PROPERTY NUMBERS	Total: 1		
Property Type		Number	
Application Number:		14571922	

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.

Phone:	978-341-0036
Email:	kellie.varno@hbsr.com

Correspondent Name: ALI	CE O. CARROLL, ESQ.
Address Line 1: 530	VIRGINIA ROAD, P.O. BOX 9133
Address Line 2: HAI	MILTON, BROOK, SMITH & REYNOLDS, P.C.
Address Line 4: CO	NCORD, MASSACHUSETTS 01742-9133
ATTORNEY DOCKET NUMBER:	2478.2024-017
NAME OF SUBMITTER:	KELLIE J. VARNO
SIGNATURE:	/Kellie J. Varno/
DATE SIGNED:	04/29/2015
Total Attachments: 18	
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Docket No. 2478.2024002 855642_1

Joint

;

ASSIGNMENT

WHEREAS, we, Craig Siegel, Cecilia M. Bastos, David J. Harris, Angeles Dios, Edward Lee, Richard Silva, Lisa M. Cuff, Mikaela Levine, Cassandra Celatka, Frederic Vinick, Thomas Jozefiak, Yibin Xiang, John Kane and Junkai Liao, have invented a certain improvement in 2-ACYLAMINOPROPOANOL-TYPE GLUCOSYLCERAMIDE SYNTHASE INHIBITORS described in an application for Patent,

 the specification of which is about to be filed in the United States Patent Office
(use for utility (37 CFR § 1.53(b)) and design filings only);

is about to be filed in the United States Patent Office as a Provisional Application;

the specification of which is United States Application No.

 \boxtimes

the specification of which is a Patent Cooperation Treaty Application, International Application No. **PCT/US2008/006906**, filed **May 30, 2008**, which designates the United States of America;

which was patented under United States Patent No. [].

WHEREAS, Genzyme Corporation (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts, and having a usual place of business at 500 Kendall Street, Cambridge, MA 02142 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys. and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; I hereby expressly authorize the filing of an International Patent Application under the Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: Signature: Signature	
State/Commonwealth of <u>Massachusetts</u> County of <u>Muddleser</u>	
On this 20 day of 2009 , before me, the undersigned notary public, personally appeared Craig Siegel, 2009 , before me, the undersigned notary	ý
personally known to me, or	
proved to me through satisfactory evidence of identification, which was	
to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.	-
(SEAL) Notary Public Caroland Mahor Carol Ann Mahoners (print par	ŀΥ

- 2 -

My Commission expires (27/201)

Inventor's Signature: Guile huis Gats
Cecilia M. Bastos
State/Commonwealth of County of
On this <u>20</u> day of <u>$auuauy$ 20<u>09</u>, before me, the undersigned notary public, personally appeared Cecilia M. Bastos,</u>
personally known to me, or
proved to me through satisfactory evidence of identification, which was
to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.
(SEAL) Notary Public Carolann Mahoney
CarolAnn Mahoney (print name)
My Commission expires (/21 / 201)
Inventor's Signature: Dan Horis
State/Commonwealth of <u>Massachusetts</u> County of <u>Muddleses</u>
On this day of Adway 20_09 before me, the undersigned notary public, personally appeared David J. Harris,
personally known to me, or
proved to me through satisfactory evidence of identification, which was
to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.
(SEAL) Notary Public Carolany Mahoner Carol Ann Mahoner (print name)
My Commission expires (/21/2011

- 3 -

Inventor's Signature: Angolas Dais
State/Commonwealth
of Massachusetts
County of Madlesex
On this day of <i>auwawy</i> 207 before me, the undersigned notary public personally appeared Augeles Dios .
personally known to me, or
proved to me through satisfactory evidence of identification, which was
to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.
(SEAL) Notary Public Cawlany Mahoney
CarolAnn Mahoney(print name)
My Commission expires 1/27/2011
Inventor's Signature:
Edward Lee State/Commonwealth
of Massa Chustts County of Mi adlesex
On this day of 2009, before me, the undersigned notary public, personally appeared Edward Lee,
personally known to me, or
proved to me through satisfactory evidence of identification, which was
to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.
(SEAL) Notary Public Carllin Mattore
Carolann Mahoneyprint name)
My Commission expires 1/21/2011

PATENT REEL: 035538 FRAME: 0233

- 4 -

Inventor's Signature: Richard Silva
State/Commonwealth
of <u>YV955</u> County of MICHESIN
Palaci
On this day of $\underline{Richard Silva}$, before me, the undersigned notary public, personally appeared Richard Silva, $1/6/09$
personally known to me, or
proved to me through satisfactory evidence of identification, which was
to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.
(SEAL) Notary Public Calolann Makon Oaro/Ann Mahoney(print nam
My Commission expires $(/2)/12011$
Inventor's Signature: The M. Cont
State/Gommonwealth
of // Vlass achusetts
County of Muddleser
On this day of anticary 2009, before me, the undersigned notary public, personally appeared Lisa M. Cuff,
personally known to me, or
proved to me through satisfactory evidence of identification, which was
to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.
SEAL) Notary Public Canol Ann Mahoney (print name
My Commission expires 1/21/2011

- 5 -

1
Inventor's Signature:
Mikaela Levine
State/Commonwealth of <u>Massachusetts</u> County of <u>Middlesus</u>
On this day of 2009 , before me, the undersigned notary public, personally appeared Mikaela Levine,
personally known to me, or
proved to me through satisfactory evidence of identification, which was
to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.
(SEAL) Notary Public AND Matty Of Carol Ann Mahoney (print name)
My Commission expires 1721 2011
Inventor's Signature: CAColattar
Cassandra Celatka
State/Commonwealth of / / //////////////////////////
On this day of 20 <u>09</u> , before me, the undersigned notary public, personally appeared Cassandra Celatka,
personally known to me, or
proved to me through satisfactory evidence of identification, which was
to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.
(SEAL) Notary Public Carol Ann Mahone (print name)
My Commission expires (721/201)

PATENT REEL: 035538 FRAME: 0235

- 6 -

	Frederic Vinick
State/Commonwealth	
of County of	
·	
On this day of public, personally appeared Frederic	20, before me, the undersigned notary Vinick ,
personally known to me, or	
proved to me through satisfact	tory evidence of identification, which was
to be the person whose name was sign acknowledged that he/she signed the t	ned on the foregoing instrument in my presence, and foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name
	My Commission expires/ //
Inventor's Signature: T.C.	
State/Commonwealth	Thomas Jozefiak
of Massachusetts	
County of MICOUESER	· · · · · · · · · · · · · · · · · · ·
On this day of oublic, personally appeared Thomas .	<u>MUANY</u> 20 <u>0</u> , before me, the undersigned notary Jozefiak,
personally known to me, or	
proved to me through satisfact	ory evidence of identification, which was
o be the person whose name was sign acknowledged that he/she signed the f	ed on the foregoing instrument in my presence, and oregoing instrument as his/her free act and deed.
SEAL)	Notary Public Cawlan Manoner Carol Ann Mahoney (print name
	[[N []] V V V II N V V D A (mint name

- 7 -

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Inventor's Signature:	Kille
State/Commonwealth of County of	Yibin Xiang
On this day of public personally appeared Yibin X	$a_{nully} 2009$, before me, the undersigned notary a_{ng} ,
personally known to me, or	
proved to me through satisfac	ctory evidence of identification, which was
to be the person whose name was sig acknowledged that he/she signed the	gned on the foregoing instrument in my presence, and foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public Carolany Mattoner
	CarolAnn Mahoneyprint name)
	My Commission expires 1 721 / 2011
Inventor's Signature:	126-
State/Sprinonwealth of County of	John Kane
On this day of public, personally appeared John Ka	$\frac{2009}{100}$, before me, the undersigned notary me,
personally known to me, or	
proved to me through satisfact	tory evidence of identification, which was
o be the person whose name was sign cknowledged that he/she signed the t	ned on the foregoing instrument in my presence, and foregoing instrument as his/her free act and deed.
SEAL)	Notary Public and Unn Matton

- 8 -

6 Carolann Mahoney(print name) My Commission expires (/21 / 2011

Δ.
Inventor's Signature:
Junkai Liao
State/Commonwealth
of Vy y asachusetts
County of V V ladesex
On this day of 2009, before me, the undersigned notary
public, personally appeared Junkai Liao,
\underline{V} personally known to me, or
proved to me through satisfactory evidence of identification, which was
proved to the unough satisfactory evidence of identification, which was
to be the person whose name was signed on the foregoing instrument in my presence, and
acknowledged that he/she signed the foregoing instrument as his/her free act and deed.
(SEAL) Notary Public and and Mathala
(SEAL) Notary Public and Man V andre
<u>CUDIXIA Mahoneyprint name</u>)
My Commission expires $1/21/2011$

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- 9 -

Joint

ASSIGNMENT

WHEREAS, we, Craig Siegel, Cecilia M. Bastos, David J. Harris, Angeles Dios, Edward Lee, Richard Silva, Lisa M. Cuff, Mikaela Levine, Cassandra Celatka, Frederic Vinick, Thomas Jozefiak, Yibin Xiang, John Kane and Junkai Liao, have invented a certain improvement in 2-ACYLAMINOPROPOANOL-TYPE GLUCOSYLCERAMIDE SYNTHASE INHIBITORS described in an application for Patent,

	the specification of which is about to be filed in the United States Patent Office (use for utility (37 CFR § 1.53(b)) and design filings only);	
	is about to be filed in the United States Patent Office as a Provisional Application	1;
	the specification of which is United States Application No. , filed ;	
\boxtimes	the specification of which is a Patent Cooperation Treaty Application, International Application No. PCT/US2008/006906 , filed May 30, 2008 , which designates the United States of America;	
	which was patented under United States Patent No. [].	

WHEREAS, Genzyme Corporation (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts, and having a usual place of business at 500 Kendall Street, Cambridge, MA 02142 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America. its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made: we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; I hereby expressly authorize the filing of an International Patent Application under the Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature:	Craig Siegel
State/Commonwealth of	
County of	
On this day of public, personally appeared Cra	
proved to me through sa	tisfactory evidence of identification, which was
	as signed on the foregoing instrument in my presence, and d the foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name
	My Commission expires / /

- 2 -

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State/Commonwealth of County of	Cecilia M. Bastos
On this day of public, personally appeared Cecilia M.	20, before me, the undersigned notary Bastos ,
personally known to me, or	
proved to me through satisfactor	y evidence of identification, which was
	I on the foregoing instrument in my presence, and egoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name) My Commission expires//
Inventor's Signature:	
State/Commonwealth of County of	David J. Harris
On this day of public, personally appeared David J. Ha	20, before me, the undersigned notary arris,
personally known to me, or	
proved to me through satisfactor	y evidence of identification, which was
	l on the foregoing instrument in my presence, and egoing instrument as his/her free act and deed.

- 3 -

Inventor's Signature:		
A State/Commonwealth of County of	ngeles Dios	
On this day of public, personally appeared Angeles Dios, personally known to me, or proved to me through satisfactory evaluation	20, before me, the undersigned notary idence of identification, which was	
to be the person whose name was signed on acknowledged that he/she signed the forego	the foregoing instrument in my presence, and ing instrument as his/her free act and deed.	
(SEAL)	Notary Public	
	(print name) My Commission expires/ /	
Inventor's Signature:		
E State/Commonwealth of County of	dward Lee	
On this day of public, personally appeared Edward Lee ,	20, before me, the undersigned notary	
personally known to me, or		
proved to me through satisfactory ev	idence of identification, which was	
to be the person whose name was signed on acknowledged that he/she signed the forego	the foregoing instrument in my presence, and ing instrument as his/her free act and deed.	
(SEAL)	Notary Public	
	(print name) My Commission expires/ /	

PATENT REEL: 035538 FRAME: 0242

- 4 -

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Inventor's Signature:	
State/Commonwealth	Richard Silva
of County of	
On this day of public, personally appeared Richard Silv	20, before me, the undersigned notary va,
personally known to me, or	
proved to me through satisfactory	v evidence of identification, which was
	on the foregoing instrument in my presence, and egoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
	My Commission expires//
Inventor's Signature:	
State/Commonwealth of	Lisa M. Cuff
County of	
On this day of public, personally appeared Lisa M. Cuf	20, before me, the undersigned notary f ,
personally known to me, or	
proved to me through satisfactory	v evidence of identification, which was
to be the person whose name was signed acknowledged that he/she signed the fore	on the foregoing instrument in my presence, and egoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
	My Commission expires /

Inventor's Signature:	
	Mikaela Levine
State/Commonwealth	
of County of	
public, personally appeared Mikaela	20, before me, the undersigned notary Levine,
personally known to me, or	
proved to me through satisfac	ctory evidence of identification, which was
	ned on the foregoing instrument in my presence, and foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
	My Commission expires/ //
Inventor's Signature:	
~ /~	Cassandra Celatka
State/Commonwealth	
of County of	
On this day of	20, before me, the undersigned notary
public, personally appeared Cassand	Ira Celatka,
personally known to me, or	
proved to me through satisfac	etory evidence of identification, which was
	ned on the foregoing instrument in my presence, and foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)

- 6 -

PATENT REEL: 035538 FRAME: 0244

My Commission expires ____/ ___/

Inventor Tacher Vente	Date2/16/09
Frederic Vinick	
Address 4 Camden Court	
Mechanizville, NY	(2118
Witness Signature Charm Relive	konau)
Print Witness Name Sharon R. Silver	MAN .
Address 4 Campen Court	the the former and the second se
Mechanicville NY 121	18
Witness Signature	
Print Witness Name JASON F	TAFT
Address 1471 RT 9	
CLIPTON PARK, NU	1206
	120 PC
Invested to Gr	anna a'
Inventor's Signature:	
State/Commonwealth Thomas Jozefiak	
of County of	
On this day of 20, I public, personally appeared Thomas Jozefiak,	before me, the undersigned notary
	marginate monthly
personally known to me, or	
proved to me through satisfactory evidence of identific	ation, which was
to be the person whose name was signed on the foregoing instrument acknowledged that he/she signed the foregoing instrument as h	ument in my progenee and
e motrument as n	is/her free act and deed.
	(print name)
My Commission e	expires(print name)
	Management of the second secon

Hennes

Inventor's Signature:	
	Yibin Xiang
State/Commonwealth	
of County of	
on this day of public, personally appeared Yibin Xiang	20, before me, the undersigned notary
personally known to me, or	
proved to me through satisfactory	vevidence of identification, which was
	on the foregoing instrument in my presence, and egoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
	My Commission expires/ //
Inventor's Signature:	John Kane
State/Commonwealth	John Kane
of County of	
County of	
On this day of public, personally appeared John Kane ,	20, before me, the undersigned notary
norronally known to make	
personally known to me, or	
proved to me through satisfactory	evidence of identification, which was
	on the foregoing instrument in my presence, and going instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
	My Commission expires / /

Inventor's Signature:	Junkai Liao
State/Commonwealth of County of	
On this day of public, personally appeared Junk a	20, before me, the undersigned notary ai Liao,
personally known to me, or	r
proved to me through satis	factory evidence of identification, which was
	signed on the foregoing instrument in my presence, and he foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name

My Commission expires ____/__/