

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM399431

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	ASSIGNMENT OF THE ENTIRE INTEREST AND THE GOODWILL		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
Genzyme Corporation		05/02/2016	Corporation: MASSACHUSETTS
RECEIVING PARTY DATA			
Name:	Ionis Pharmaceuticals, Inc.		
Street Address:	2855 Gazelle Ct		
City:	Carlsbad		
State/Country:	CALIFORNIA		
Postal Code:	92008		
Entity Type:	Corporation: DELAWARE		
PROPERTY NUMBERS Total: 1			
Property Type	Number	Word Mark	
Serial Number:	85066383	KYNAMRO	
CORRESPONDENCE DATA			
Fax Number:	6176468646		
<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:	617-646-8000		
Email:	drwtrademarks@wolfgreenfield.com		
Correspondent Name:	Douglas R. Wolf		
Address Line 1:	600 Atlantic Avenue		
Address Line 4:	Boston, MASSACHUSETTS 02210		
ATTORNEY DOCKET NUMBER:	K0645.40000US00		
NAME OF SUBMITTER:	Douglas R. Wolf		
SIGNATURE:	/DRW/		
DATE SIGNED:	09/22/2016		
Total Attachments: 6			
source=K0645.40000US00 Genzyme to Ionis trademark assignment#page1.tif			
source=K0645.40000US00 Genzyme to Ionis trademark assignment#page2.tif			
source=K0645.40000US00 Genzyme to Ionis trademark assignment#page3.tif			
source=K0645.40000US00 Genzyme to Ionis trademark assignment#page4.tif			

OP \$40.00 85066383

source=K0645.40000US00 Genzyme to Ionis trademark assignment#page5.tif

source=K0645.40000US00 Genzyme to Ionis trademark assignment#page6.tif

TRADEMARK ASSIGNMENT AGREEMENT

THIS TRADEMARK ASSIGNMENT AGREEMENT is dated as of May 2, 2016 ("Effective Date"), and is made from Genzyme Corporation, a Massachusetts corporation ("Assignor"), to Ionis Pharmaceuticals, Inc., a Delaware corporation ("Assignee").

WHEREAS, the Assignor is the owner of those certain trademark registrations and trademark applications set forth in the attached Schedule A (the "Trademarks");

WHEREAS, Assignee wishes to acquire from the Assignor, and the Assignor wishes to transfer to Assignee, all of the Assignor's right, title and interest in and to the Trademarks.

NOW, THEREFOR, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

- Assignment of Rights. Effective upon the Effective Date, the Assignor hereby assigns, transfers, conveys and delivers to Assignee all of its right, title and interest in, to and under (a) the Trademarks, (b) the goodwill of the business symbolized by and associated with the Trademarks, (c) all applications and registrations for the Trademarks, (d) any and all rights, privileges and proceeds under the Trademarks, including, without limitation, any claim by Assignor against third parties for past, present or future infringement of the Trademarks.
- Recordation. Effective upon the Effective Date, Assignor hereby authorizes the respective competent authorities in each jurisdiction to record this Assignment. The Assignee shall be responsible for and shall pay all costs relating to the registration, maintenance and prosecution of the Trademarks, including payment of any associated fees therefor, for the notarization, authentication, legalization and/or consularization of the signatures hereof, and for the recording of such assignment documents with the appropriate governmental authorities. As soon as possible after the Effective Date, the Assignee shall provide draft assignment documents by country, at the Assignee's expense, for approval and execution by the Assignor.
- Further Assurances. Assignor further agrees that Assignor will, without demanding any further consideration therefor, at the request but at the expense of Assignee, do all lawful and just acts, including the execution and acknowledgment of instruments, that may be or become necessary to effect or formalize the transfer of the Trademarks.
- General. This Trademark Assignment Agreement will be binding upon and inure to the benefit of the parties and their respective successors and assigns, but will not run to the benefit of or be enforceable by any other person. This Trademark Assignment Agreement may be executed in one or more counterparts, each of which shall be deemed an original and binding as of the date first written above, and, when delivered, all of which shall constitute one and the same instrument. This Trademark Assignment Agreement will be governed by the laws of the State of New York, without regard to its conflict of laws principles.

IN WITNESS WHEREOF, the Assignor has caused this Trademark Assignment Agreement to be duly executed by its officer thereunto duly authorized as of the 2nd of May, 2016

Genzyme Corporation
By: [Signature]
Name: Tracey L. McCain
Title: SVP & General Counsel

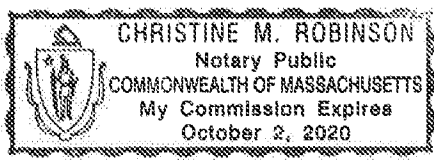
COMMONWEALTH OF MASSACHUSETTS)

) ss.

COUNTY OF MIDDLESEX)

On the 2nd day of May, 2016 before me the undersigned, personally appeared Tracey L. McCain, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her capacity, and that by her signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

[Signature]
Notary Public



SCHEDULE A

Trademark	Country	Filing Type	Class	Filing Date	Filing Number	Registration Number	Registration Date	Legal Owner	Next Renewal Date
KYNAMRO	ALBANIA	NATIONAL FILING	05	13-Jan-11	AL/7/2011/10	13379	1-Jun-11	GENZYME CORPORATION	13-Jan-21
KYNAMRO	ALGERIA	NATIONAL FILING	05	17-Jan-11	110187	79533	17-Jan-11	GENZYME CORPORATION	17-Jan-21
KYNAMRO	ARGENTINA	NATIONAL FILING	05	28-Dec-10	3057535	2572189	23-May-13	GENZYME CORPORATION	23-May-23
KYNAMRO	ARMENIA	NATIONAL FILING	05	26-Jan-11	20110666	17202	6-Jul-11	GENZYME CORPORATION	26-Jan-21
KYNAMRO	AUSTRALIA	NATIONAL FILING	05	20-Dec-10	1400725	1400725	20-Dec-10	GENZYME CORPORATION	20-Dec-20
KYNAMRO	AZERBAIJAN	NATIONAL FILING	05	26-Jan-11	20110095	20110095	7-Jun-12	GENZYME CORPORATION	26-Jan-21
KYNAMRO	BAHRAIN	NATIONAL FILING	05	27-Jan-11	85051	85051	27-Jan-11	GENZYME CORPORATION	27-Jan-21
KYNAMRO	BANGLADESH	NATIONAL FILING	05	20-Dec-10	138431	138431	22-Jul-13	GENZYME CORPORATION	20-Dec-17
KYNAMRO	BELARUS	NATIONAL FILING	05	12-Jan-11	20110103	46120	29-Aug-13	GENZYME CORPORATION	12-Jan-21
KYNAMRO	BELIZE	NATIONAL FILING	05	20-Jul-11	7956.11	7956.11	20-Jul-11	GENZYME CORPORATION	20-Jul-21
KYNAMRO	BOLIVIA	NATIONAL FILING	05	14-Jan-11	000169-2011	130027	9-Sep-11	GENZYME CORPORATION	9-Sep-21
KYNAMRO	BOSNIA-HERZEGOVINA	NATIONAL FILING	05	18-Jan-11	BAZ1115339A	BAZ1115339A	6-May-13	GENZYME CORPORATION	18-Jan-21
KYNAMRO	BRAZIL	NATIONAL FILING	05	24-Dec-10	830894080	830894080	17-Jun-14	GENZYME CORPORATION	17-Jun-24
KYNAMRO	CANADA	NATIONAL FILING	05	17-Dec-10	1,508,352			GENZYME CORPORATION	
KYNAMRO	CHILE	NATIONAL FILING	05	28-Jul-11	963.335	953795	23-Jun-12	GENZYME CORPORATION	25-Jun-22
KYNAMRO	CHINA	NATIONAL FILING	05	31-Dec-10	9011352	9011352	14-Jan-12	GENZYME CORPORATION	13-Jan-22
KYNAMRO	COLOMBIA	NATIONAL FILING	05	23-Dec-10	10161814	427722	31-May-11	GENZYME CORPORATION	31-May-21
KYNAMRO	COSTA RICA	NATIONAL FILING	05	22-Dec-10	2010-011805	208827	15-Apr-11	GENZYME CORPORATION	15-Apr-21
KYNAMRO	CROATIA	NATIONAL FILING	05	14-Jan-11	Z20110046A	Z20110046	15-Nov-11	GENZYME CORPORATION	14-Jan-21
KYNAMRO	DOMINICAN REPUBLIC	NATIONAL FILING	05	10-Feb-11	2011-3467	187387	17-May-11	GENZYME CORPORATION	17-May-21
KYNAMRO	ECUADOR	NATIONAL FILING	05	26-Jan-11	240678	1315179	25-Jul-11	GENZYME CORPORATION	25-Jul-21
KYNAMRO	EGYPT	NATIONAL FILING	05	27-Jun-11	262082	262082	18-Jun-14	GENZYME CORPORATION	26-Jun-21
KYNAMRO	EL SALVADOR	NATIONAL FILING	05	27-Jan-11	2011106979	32Book181	16-Dec-11	GENZYME CORPORATION	16-Dec-21
KYNAMRO	EUROPEAN UNION	EUROPEAN UNION	05,10	27-Jul-10	9276321	9276321	10-Jan-11	GENZYME CORPORATION	27-Jul-20
KYNAMRO	GEORGIA	NATIONAL FILING	05	27-Jan-11	60997	22416	16-Mar-12	GENZYME CORPORATION	16-Mar-22
KYNAMRO	GUATEMALA	NATIONAL FILING	05	10-Feb-11	2011-01022	178,461	4-Oct-11	GENZYME CORPORATION	3-Oct-21
KYNAMRO	HONDURAS	NATIONAL FILING	05	1-Feb-11	737730	119341	29-Mar-12	GENZYME CORPORATION	29-Mar-22
KYNAMRO	HONG KONG	NATIONAL FILING	05	22-Dec-10	301795483	301795483	22-Dec-10	GENZYME CORPORATION	21-Dec-20
KYNAMRO	ICELAND	NATIONAL FILING	05	7-Jan-11	56/2011	191/2011	1-Mar-11	GENZYME CORPORATION	1-Mar-21
KYNAMRO	INDIA	NATIONAL FILING	05	22-Dec-10	2073098	1080137	15-Nov-12	GENZYME CORPORATION	22-Dec-20
KYNAMRO	INDONESIA	NATIONAL FILING	05	21-Feb-11	DD0.2011.006348	IDM000368628	13-Sep-12	GENZYME CORPORATION	21-Feb-21
KYNAMRO	IRAN	NATIONAL FILING	05	1-Feb-11	18911064	181103	1-Aug-11	GENZYME CORPORATION	1-Feb-21
KYNAMRO	IRAQ	NATIONAL FILING	05	13-Feb-11	58445			GENZYME CORPORATION	

Trademark Assignment Agreement between Genzyme Corporation and Ionis Pharmaceuticals, Inc.

Trademark	Country	Filing Type	Class	Filing Date	Filing Number	Registration Number	Registration Date	Legal Owner	Next Renewal Date
KYNAMRO	ISRAEL	NATIONAL FILING	05	6-Feb-11	235561	235561	2-Jul-12	GENZYME CORPORATION	6-Feb-21
KYNAMRO	JAPAN	NATIONAL FILING	05	26-Dec-10	2010-098688	5421574	24-Jun-11	GENZYME CORPORATION	24-Jun-21
KYNAMRO	JORDAN	NATIONAL FILING	05	12-Jan-11	115874	115874	12-Jan-11	GENZYME CORPORATION	12-Jan-21
KYNAMRO	KAZAKHSTAN	NATIONAL FILING	05	4-Feb-11	53353	37706	8-Feb-12	GENZYME CORPORATION	4-Feb-21
KYNAMRO	KUWAIT	NATIONAL FILING	05	7-Feb-11	118190	102187	7-Feb-11	GENZYME CORPORATION	6-Feb-21
KYNAMRO	KYRGYSTAN	NATIONAL FILING	05	9-Feb-11	201109903	11055	31-Jan-12	GENZYME CORPORATION	9-Feb-21
KYNAMRO	LEBANON	NATIONAL FILING	05	10-Feb-11	1229	133721	21-Feb-11	GENZYME CORPORATION	10-Feb-26
KYNAMRO	LIECHTENSTEIN	NATIONAL FILING	05	8-Feb-11	15922	15922	8-Feb-11	GENZYME CORPORATION	8-Feb-21
KYNAMRO	MACEDONIA	NATIONAL FILING	05	12-Jan-11	2011119	19683	18-Jan-12	GENZYME CORPORATION	12-Jan-21
KYNAMRO	MALAYSIA	NATIONAL FILING	05	14-Jan-11	2011000964	2011000964	14-Jan-11	GENZYME CORPORATION	14-Jan-21
KYNAMRO	MEXICO	NATIONAL FILING	05	5-Jan-11	1145787	1217400	18-May-11	GENZYME CORPORATION	5-Jan-21
KYNAMRO	MOLDOVA	NATIONAL FILING	05	1-Feb-11	28528	21985	24-Oct-11	GENZYME CORPORATION	1-Feb-21
KYNAMRO	MONTENEGRO	NATIONAL FILING	05	14-Jan-11	Z-19/2011	08330	4-Oct-13	GENZYME CORPORATION	14-Jan-21
KYNAMRO	MOROCCO	NATIONAL FILING	05	15-Feb-11	135951	135951	13-Feb-11	GENZYME CORPORATION	15-Feb-21
KYNAMRO	NEW ZEALAND	NATIONAL FILING	05	7-Jan-11	835633	835633	7-Jan-11	GENZYME CORPORATION	7-Jan-21
KYNAMRO	NICARAGUA	NATIONAL FILING	05	10-Feb-11	2011-000408	2013098234 LM	9-Jul-13	GENZYME CORPORATION	8-Jul-23
KYNAMRO	NORWAY	NATIONAL FILING	05	10-Feb-11	201101620	260657	5-Jul-11	GENZYME CORPORATION	10-Feb-21
KYNAMRO	OMAN	NATIONAL FILING	05	14-Feb-11	66923	66923	26-Mar-12	GENZYME CORPORATION	14-Feb-21
KYNAMRO	OUZBEKISTAN	NATIONAL FILING	05	18-Jan-11	MGU 20110071	MGU 21744	18-Jan-11	GENZYME CORPORATION	18-Jan-21
KYNAMRO	PAKISTAN	NATIONAL FILING	05	19-Jan-11	294494			GENZYME CORPORATION	
KYNAMRO	PANAMA	NATIONAL FILING	05	29-Mar-11	198749	198749	29-Mar-11	GENZYME CORPORATION	29-Mar-21
KYNAMRO	PARAGUAY	NATIONAL FILING	05	8-Aug-12	37044	386121	30-Sep-13	GENZYME CORPORATION	30-Sep-23
KYNAMRO	PERU	NATIONAL FILING	05	10-Feb-11	446216	176288	27-May-11	GENZYME CORPORATION	27-May-21
KYNAMRO	PHILIPPINES	NATIONAL FILING	05	16-Apr-14	4-2014-004784	4-2014-00004784	16-Oct-14	GENZYME CORPORATION	16-Oct-24
KYNAMRO	QATAR	NATIONAL FILING	05	13-Apr-11	67649	67649	22-May-13	GENZYME CORPORATION	13-Apr-21
KYNAMRO	RUSSIAN FEDERATION	NATIONAL FILING	05	20-Dec-10	2010741048	449094	13-Dec-11	GENZYME CORPORATION	20-Dec-20
KYNAMRO	SAUDI ARABIA	NATIONAL FILING	05	16-Jan-11	183666	137829	10-Sep-12	GENZYME CORPORATION	16-Sep-20
KYNAMRO	SERBIA (REPUBLIC OF)	NATIONAL FILING	05	13-Jan-11	Z-41/2011	62829	30-May-11	GENZYME CORPORATION	13-Jan-21
KYNAMRO	SINGAPORE	NATIONAL FILING	05	21-Dec-10	T1016756E	T1016756E	21-Dec-10	GENZYME CORPORATION	21-Dec-20
KYNAMRO	SOUTH AFRICA	NATIONAL FILING	05	11-Jan-11	2011/00520	2011/00520	11-Jan-11	GENZYME CORPORATION	11-Jan-21
KYNAMRO	SOUTH KOREA/REPUBLIC OF KOREA	NATIONAL FILING	05	21-Dec-10	2010-0065588	903181	27-Jan-12	GENZYME CORPORATION	27-Jan-22
KYNAMRO	SRI LANKA	NATIONAL FILING	05	23-Nov-10	159289			GENZYME CORPORATION	
KYNAMRO	SWITZERLAND	NATIONAL FILING	05	21-Dec-10	63991/2010	611659	10-Feb-11	GENZYME CORPORATION	21-Dec-20
KYNAMRO	TADJKISTAN	NATIONAL FILING	05	25-Nov-10	10010892	TJ 10124	2-Apr-12	GENZYME CORPORATION	25-Nov-20
KYNAMRO	TAIWAN	NATIONAL FILING	05	22-Dec-10	99064107	1472877	16-Sep-11	GENZYME CORPORATION	15-Sep-21

Trademark Assignment Agreement between Genzyme Corporation and Ionis Pharmaceuticals, Inc.

TRADEMARK
REEL: 005881 FRAME: 0363

Trademark	Country	Filing Type	Class	Filing Date	Filing Number	Registration Number	Registration Date	Legal Owner	Next Renewal Date
KYNAMRO	THAILAND	NATIONAL FILING	05	12-Apr-11	802974	TM349457	12-Apr-11	GENZYME CORPORATION	11-Apr-21
KYNAMRO	TRINIDAD AND TOBAGO	NATIONAL FILING	05	14-Feb-11	43387	43387	14-Feb-11	GENZYME CORPORATION	13-Feb-21
KYNAMRO	TUNISIA	NATIONAL FILING	05	12-Apr-11	TN/E/2011/00622	TN/E/2011/00622	5-May-12	GENZYME CORPORATION	12-Apr-21
KYNAMRO	TURKEY	NATIONAL FILING	05	12-Apr-11	2011/30170	2011/30170	7-Aug-12	GENZYME CORPORATION	12-Apr-21
KYNAMRO	TURKMENISTAN	NATIONAL FILING	05	22-Nov-10	2010.0457	11685	25-Feb-13	GENZYME CORPORATION	22-Nov-20
KYNAMRO	UKRAINE	NATIONAL FILING	05	11-Apr-11	m2011.05664	156892	11-Jun-12	GENZYME CORPORATION	11-Apr-21
KYNAMRO	UNITED ARAB EMIRATES	NATIONAL FILING	05	16-Jan-11	151665	151665	4-Apr-13	GENZYME CORPORATION	16-Jan-21
KYNAMRO	UNITED STATES OF AMERICA	NATIONAL FILING	05	18-Jun-10	85/066,383	4,392,642	27-Aug-13	GENZYME CORPORATION	27-Aug-23
KYNAMRO	URUGUAY	NATIONAL FILING	05	8-Apr-11	422157	422157	17-Sep-12	GENZYME CORPORATION	17-Sep-22
KYNAMRO	VENEZUELA	NATIONAL FILING	05	13-Jan-11	498980	533/2011	13-Dec-11	GENZYME CORPORATION	13-Dec-26
KYNAMRO	VIET NAM	NATIONAL FILING	05	10-Jan-11	4-2011-00387	183098	7-Jun-12	GENZYME CORPORATION	10-Jan-21
KYNAMRO CORNERSTONE	UNITED STATES OF AMERICA	NATIONAL FILING	35,38,44	26-Oct-12	85764661	4,502,626	25-Mar-14	GENZYME CORPORATION	25-Mar-24
KYNAMRO CORNERSTONE LOGO	UNITED STATES OF AMERICA	NATIONAL FILING	35,44	26-Oct-12	85764,608	4,552,496	17-Jun-14	GENZYME CORPORATION	17-Jun-24
KYNAMRO LATIN AND KOREAN CHARACTERS	SOUTH KOREA/ REPUBLIC OF KOREA	NATIONAL FILING	05	28-Nov-12	40-2012-0074086	0991510	28-Aug-13	GENZYME CORPORATION	28-Aug-23

Trademark Assignment Agreement between Genzyme Corporation and Ionis Pharmaceuticals, Inc.