07/12/2017 504453911

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4500612

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
THOMAS BUTLER	10/06/2009
AESOP CHO	10/06/2009
CHOUNG U. KIM	10/06/2009
JAY PARRISH	10/06/2009
OLIVER L. SAUNDERS	10/06/2009
LIJUN ZHANG	10/06/2009

RECEIVING PARTY DATA

Name:	GILEAD SCIENCES, INC.	
Street Address:	333 LAKESIDE DRIVE	
City:	FOSTER CITY	
State/Country:	CALIFORNIA	
Postal Code:	stal Code: 94404	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	15288271	

CORRESPONDENCE DATA

Fax Number: (650)522-5575

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: 6505743000

Email: david.castro@gilead.com GILEAD SCIENCES, INC. **Correspondent Name:** Address Line 1: 333 LAKESIDE DRIVE

Address Line 4: FOSTER CITY, CALIFORNIA 94404

ATTORNEY DOCKET NUMBER:	756.PC3RE	
NAME OF SUBMITTER:	DANIEL S. TATE	
SIGNATURE:	ATURE: /Daniel S. Tate, Reg. No. 72,110/	
DATE SIGNED:	07/12/2017	

Total Attachments: 3

PATENT REEL: 042989 FRAME: 0325 source=756.PC3_2013-03-22-re-recorded_Assignment#page1.tif source=756.PC3_2013-03-22-re-recorded_Assignment#page2.tif source=756.PC3_2013-03-22-re-recorded_Assignment#page3.tif

PATENT REEL: 042989 FRAME: 0326

ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by Thomas Butler; Aesop Cho; Choung U. Kim; Jay Parrish; Oliver L. Saunders; and Lijun Zhang (hereinafter referred to as Assignors), residing at 601 Baltic Circle #605, Redwood City, California 94065; 1656 Notre Dame Drive, Mountain View, California 94040; 1750 Elizabeth Street, San Carlos, California 94070; 760 Bair Island Rd., #100, Redwood City, California 94063; 615 Port Drive #202, San Mateo, California 94404; and 12525 Minorca Ct., Los Altos Hills, California 94022, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in 1'-SUBSTITUTED CARBA-NUCLEOSIDE ANALOGS FOR ANTIVIRAL TREATMENT, set forth in a Patent application for Letters Patent of the United States, already filed on April 22, 2009 as U.S. Application No. 12/428,176; and

WHEREAS, Gilead Sciences, Inc., a Corporation organized under and pursuant to the laws of Delaware having its principal place of business at 333 Lakeside Drive, Foster City, California 94404 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, to all whom it may concern, be it known that for good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations, continuations-in-part, and continuing applications of said application, and any and all Letters Patent in the United States which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit

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and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

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PATENT REEL: 042989 FRAME: 0328

Date:	10/06/09	Signature:	Thomas Butler
Date:	Oct. 6, 2009	Signature:	Aesop Cho
Date:	10/6/2009	Signature:	Choung U. Kim
Date:	Oct 6 2006	Signature:	Jay Parrish
Date:	Oct, 4, 2009	Signature:	Oliver L. Saunders
Date:	10/6/09	Signature:	Lijun Zhang
Date:		Signature:	
Date:		Signature:	