PATENT ASSIGNMENT COVER SHEET

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| NATURE OF CONVE | YANCE: | ASSIGNMENT | ASSIGNMENT | | |
| CONVEYING PARTY | ′ DATA | | | | |
| | | Name | Execution Date | | |
| EDA CANALES | | | 02/25/2011 | | |
| LEE S. CHONG | | | 02/25/2011 | | |
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| SCOTT E. LAZERW | ІТН | 02/25/2011 | | | |
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| MICHAEL MERTZM | AN | 02/28/2011 | | | |
| PHILIP A. MORGAN | ELLI | 02/25/2011 | | | |
| WILLIAM J. WATKIN | IS | 02/25/2011 | | | |
| City: State/Country: Postal Code: | FOSTER CITY CALIFORNIA 94404 | | | | |
| PROPERTY NUMBE | RS Total: 1 | | | | |
| | | Number | | | |
| Property T | уре | Number | | | |
| Property T Application Number: | | 13958424 | | | |
| Application Number: | | | | | |
| Application Number: | E DATA | 13958424 | | | |
| Application Number: | E DATA (650): | | | | |
| Application Number: CORRESPONDENCI Fax Number: Phone: Email: | E DATA (650): 65057 sylvia | 13958424 522-5575 743000 .brennan@gilead.com | | | |
| Application Number: CORRESPONDENCI Fax Number: Phone: Email: <i>Correspondence will</i> | E DATA (650): 65057 sylvia <i>be sent via US I</i> | 13958424 522-5575 743000 .brennan@gilead.com <i>Mail when the email attempt is unsuccessfu</i> | | | |
| Application Number: CORRESPONDENCE Fax Number: Phone: Email: <i>Correspondence will</i> Correspondent Name | E DATA (650): 65057 sylvia <i>be sent via US I</i> e: GILE/ | 13958424 522-5575 743000 .brennan@gilead.com <i>Mail when the email attempt is unsuccessful</i> AD SCIENCES, INC. | | | |
| Application Number: CORRESPONDENCI Fax Number: Phone: Email: <i>Correspondence will</i> | E DATA (650): 65057 sylvia <i>be sent via US I</i> e: GILE/ 333 L | 13958424 522-5575 743000 .brennan@gilead.com <i>Mail when the email attempt is unsuccessfu</i> | | | |

| ATTORNEY DOCKET NUMBER: | 809.PC2 | | | |
|--|------------------------------------|--|--|--|
| NAME OF SUBMITTER: | /MARY J. EDWARDS/ | | | |
| Signature: | /Mary J. Edwards, Reg. No. 55,140/ | | | |
| Date: | 10/10/2013 | | | |
| Total Attachments: 4 source=809.PC Executed Assignment#page1.tif source=809.PC Executed Assignment#page2.tif source=809.PC Executed Assignment#page3.tif source=809.PC Executed Assignment#page4.tif | | | | |

ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by Eda Canales; Lee S. Chong; Michael O' Neil Hanrahan Clarke; Edward Doerffler; Scott E. Lazerwith; Willard Lew; Michael Mertzman; Philip A. Morganelli; and William J. Watkins (hereinafter referred to as Assignors), residing at 419 Turner Terrace, Apt. 9, San Mateo, California 94401; 37469 Marsten Drive, Newark, California 94560; 545 Seastorm Drive, Redwood City, California 94065; 2607 Royal Ann Drive, Union City, California 94587; 930 Scott Street #1, San Francisco, California 94115; 1437 Overland Drive, San Mateo, California 94403; 740 Brighton Way, New Hope, Pennsylvania 18938; 3923 Webster Street, Oakland, California 94609; and 14275 Hilltop Way, Saratoga, California 95070, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in INHIBITORS OF *FLAVIVIRIDAE* VIRUSES, set forth in a Patent application for Letters Patent of the United States, already filed on January 14, 2011 as U.S. Application No. 13/006,761; 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

Attorney Docket No. 809.PC PATENT REEL: 031382 FRAME: 0647

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International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit 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 applications for Letters Patent for said inventions for Letters Patent for said inventions 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.

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

Date: 2/25/11 Signature: <u>Ela Cal</u> Eda Canales Date: 2/25/11 Signature: William Date: 2/25/11 Signature: 10% CCC Michael O' Neil Hanrahan Clarke Date: 2-25-1) Æ Signature: Edward Doerffler Date: <u>2-25-//</u>Signature: Scott E. Lazerwith Date: 2/25/11 Signature: Date: Signature: Michael Mertzman

PATENT REEL: 031382 FRAME: 0649 AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

| Date: | | Signature: _ | Eda Canales |
|-------|-------------------|--------------|---------------------------------|
| Date: | | Signature: _ | Lee S. Chong |
| Date: | | Signature: _ | Michael O' Neil Hanrahan Clarke |
| Date: | | Signature: | Edward Doerffler |
| Date: | | Signature: | Scott E. Lazerwith |
| Date: | | Signature: | Willard Lew |
| Date: | February 28, 2011 | Signature: | Michael Mertzman |
| Date: | | Signature: | Philip A. Morganelli |
| Date: | | Signature: | William J. Watkins |
| | | 3 | PATENT |

REEL: 031382 FRAME: 0650

RECORDED: 10/10/2013