

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4093672

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DWIGHT D. WELLER	08/16/2007
BRUCE L. GELLER	08/16/2007
PATRICK L. IVERSEN	08/17/2007
LUCAS D. TILLEY	10/08/2007
JED N. HASSINGER	08/16/2007
RECEIVING PARTY DATA	
Name:	AVI BIOPHARMA, INC.
Street Address:	4575 S.W. RESEARCH WAY
Internal Address:	SUITE 200
City:	CORVALLIS
State/Country:	OREGON
Postal Code:	97333
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14977451
CORRESPONDENCE DATA	
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Address Line 1:	28 STATE STREET
Address Line 2:	BRIAN C. TRINQUE, PH.D., ESQ.
Address Line 4:	BOSTON, MASSACHUSETTS 02109
ATTORNEY DOCKET NUMBER:	582998: SPT-8076CON4
NAME OF SUBMITTER:	BRIAN C. TRINQUE/
SIGNATURE:	/BRIAN C. TRINQUE/
DATE SIGNED:	10/12/2016

Total Attachments: 6

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PATENT

REEL: 039997 FRAME: 0417

ASSIGNMENT BY INVENTORS

This Assignment is by Dwight D. Weller; Bruce L. Geller; Patrick L. Iversen; Lucas D. Tilley; and Jed N. Hassinger (the "Assignors"), residing at 3323 N.W. Elmwood Drive, Corvallis, Oregon 97330; 6994 N.W. Concord Drive, Corvallis, Oregon 97330; 5902 N.W. Fair Oaks Place, Corvallis, Oregon 97330; 28 Colchester Ct., Burlington, Vermont 05401; and 3155 N.W. Lincoln Avenue, Corvallis, Oregon 97330, respectively. The Assignors have invented one or more certain inventions (the "Invention(s)") described in a Patent application for Letters Patent of the United States entitled IMPROVED ANTIBACTERIAL ANTISENSE OLIGONUCLEOTIDE AND METHOD (the "Application"), already filed on May 11, 2007 as U.S. Application No. 11/803,107.

AVI BioPharma, Inc., a Corporation of Oregon having its principal place of business at 4575 S.W. Research Way, Suite 200, Corvallis, Oregon 97333 ("Assignee"), desires to acquire the entire right, title and interest in and to the Invention(s) and the Application, and in and to any patents (collectively, "Patents") that may be granted for the Invention(s) in the United States or in any foreign countries.

For valuable consideration, the receipt and sufficiency of which Assignors acknowledge, Assignors hereby sell, assign, and transfer to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to: the Invention(s), the Application, and any Patents; any divisions, continuations, and continuations-in-part of the Application and any other application claiming priority rights from the Application; any reissues, reexaminations, or extensions of any and all Patents; the right to file foreign applications directly in the name of Assignee; and the right to claim priority rights deriving from the Application (collectively, the "Rights"). Assignors warrant that Assignors own the Rights, and that the Rights are unencumbered. Assignors also agree to not sign any writing or do any act conflicting with this assignment, and, without further compensation, sign all documents and do such additional acts as Assignee deems necessary or desirable to: perfect Assignee's enjoyment of the Rights; conduct proceedings regarding the Rights, including any litigation or interference proceedings; or perfect or defend title to the Rights. Assignors request the Commissioner of Patents to issue any Patent of the United States that may be issued on the Invention(s) to Assignee. This Assignment may be executed in counterparts.

Dwight D. Weller
Dwight D. Weller

Date: 16 August 2007

United States of America)
State of Oregon) ss.:
County of Benton)

On this 16th day of August, 2007, before me
personally came Dwight D. Weller, to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged execution
of the same.

Beth Chamblin
Notary Public



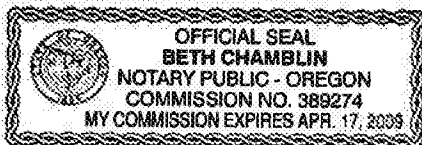
Bruce L. Geller
Bruce L. Geller

Date: 8-16-07

United States of America)
State of Oregon) ss.:
County of Benton)

On this 16th day of August, 2007, before me
personally came Bruce L. Geller, to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged execution
of the same.

Beth Chamblin
Notary Public



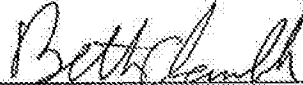


Patrick L. Iversen

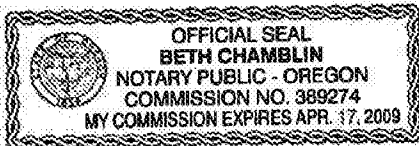
Date: Aug 17, 2007

United States of America)
State of Oregon) ss.:
County of Benton)

On this 18th day of August, 2007, before me
personally came Patrick L. Iversen, to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged execution
of the same.



Notary Public



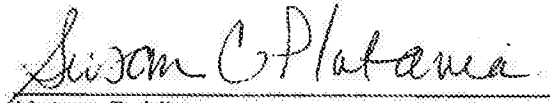


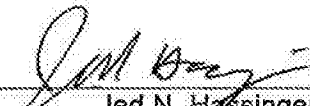
Lucas D. Tilley

Date: 10.08.07

United States of America)
State of Virginia) ss.:
County of Stafford)

On this 8th day of October, 2007, before me
personally came Lucas D. Tilley, to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged execution
of the same.


Notary Public exp. 2/10/11


Jed N. Hassinger

Date: 8-16-07

United States of America)
State of Oregon) ss.:
County of Benton)

On this 16th day of August, 2007, before me
personally came Jed N. Hassinger, to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged execution
of the same.


Notary Public

