

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
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FFA SCIENCES LLC	02/03/2014
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Property Type	Number
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DATE SIGNED:	07/17/2015
Total Attachments: 3	
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ASSIGNMENT

WHEREAS, FFA Sciences LLC, a California limited liability company, having offices at 3550 General Atomics Court, Building 2, Room 129, San Diego, California 92121 (hereinafter "ASSIGNOR"), represents and warrants that it is the sole owner of the entire right, title, and interest to certain new and useful improvements for which ASSIGNOR has filed the following United States issued Letters Patents and applications for Letters Patents in the United States (hereinafter "the Patents and Patent Applications"):

<u>Patent No.</u>	<u>Issue Date</u>	<u>Title</u>
6,999,173	February 14, 2006	METHOD AND APPARATUS FOR RATIO FLUOROMETRY
7,601,510	October 13, 2009	DEVELOPMENT AND USE OF FLUORESCENT PROBES OF UNBOUND ANALYTES
8,466,090	June 18, 2013	DEVELOPMENT AND USE OF FLUORESCENT PROBES OF UNBOUND ANALYTES

<u>Application No.</u>	<u>Filing Date</u>	<u>Title</u>
12/447,400	April 27, 2009	USE OF PROBES FOR UNBOUND METABOLITES
12/810,505	June 24, 2010	DEVELOPMENT AND USE OF CYSTEINE-LABELED FLUORESCENT PROBES OF UNBOUND ANALYTES

WHEREAS, ALAN KLEINFELD, an individual, residing at 6777 Via Estrada, La Jolla, California 92037 (hereinafter "ASSIGNEE"), desires to purchase the entire right, title, and interest in and to the inventions disclosed in the Patents and Patent Applications;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby further acknowledges that it has sold, assigned, and transferred, and by these presents does hereby sell, assign, and transfer, unto ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest throughout the world in, to, and under the said improvements, and the said Patents and Patent Applications and all Patents that may be granted thereon, and all provisional applications relating thereto, and all divisions, continuations, reissues, reexaminations, renewals, and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent that may hereafter be filed for said improvements or for the said Patents and Patent Applications in any country or countries foreign to the United States; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country foreign to the United States, whose duty it is to issue

patents on applications as aforesaid, to issue all Letters Patents for said improvements and all Letters Patents resulting from the Patents and Patent Applications to ASSIGNEE, its successors, legal representatives, and assigns, in accordance with the terms of this Agreement.

ASSIGNOR does hereby sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of the Letters Patents before or after issuance;

ASSIGNOR hereby covenants and agrees that it will communicate to ASSIGNEE, its successors, legal representatives, and assigns any facts known to ASSIGNOR respecting the Patents and Patent Applications immediately upon becoming aware of those facts, and that it will testify in any legal proceeding involving any of the Patents and Patent Applications, will sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and will generally do everything possible to aid ASSIGNEE, its successors, legal representatives, and assigns to obtain and enforce the Patents and Patent Applications in all countries.

[Signature page follows]

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 3rd day of February, 2014.

FFA Sciences LLC
By: [Signature]
Name Printed: Kevin Klunfeld
Title: Vice President
Date: 2/3/14

STATE OF _____ }
COUNTY OF _____ } ss.

On _____, before me, _____, notary public, personally appeared FFA Sciences LLC who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[SEAL]

Notary Signature

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