

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
UNIVERSITY OF MARYLAND BIOTECHNOLOGY INSTITUTE	05/10/2010
RECEIVING PARTY DATA	
Name:	UNIVERSITY OF MARYLAND, BALTIMORE COUNTY
Street Address:	1000 HILLTOP CIRCLE
City:	BALTIMORE
State/Country:	MARYLAND
Postal Code:	21250
PROPERTY NUMBERS Total: 29	
Property Type	Number
Application Number:	11488001
Application Number:	10633715
Application Number:	10536502
Application Number:	11318663
Application Number:	10572344
PCT Number:	US0539498
Application Number:	11718560
PCT Number:	US0542050
Application Number:	11719731
Application Number:	11695397
Application Number:	60641245
PCT Number:	US0623738
Application Number:	11917804
PCT Number:	US0630268
Application Number:	11997778

501295175

PATENT
REEL: 025010 FRAME: 0865

OP \$1160.00 11488001

PCT Number:	US0623156
PCT Number:	US0762041
Application Number:	60773037
Application Number:	12036402
Application Number:	11750119
Application Number:	60788237
Application Number:	12020571
PCT Number:	US0865801
Application Number:	12016247
Application Number:	61024576
PCT Number:	US0956582
Application Number:	61097782
Application Number:	61154568
Application Number:	61154636

CORRESPONDENCE DATA

Fax Number: (919)286-8199

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 919-286-8000

Email: joannajoslyn@mvalaw.com

Correspondent Name: MOORE & VAN ALLEN, PLLC

Address Line 1: PO BOX 13706

Address Line 4: RTP, NORTH CAROLINA 27709

ATTORNEY DOCKET NUMBER:	026228-000000
-------------------------	---------------

NAME OF SUBMITTER:	Marianne Fuierer
--------------------	------------------

Total Attachments: 9

source=Assignment_UMBC#page1.tif
source=Assignment_UMBC#page2.tif
source=Assignment_UMBC#page3.tif
source=Assignment_UMBC#page4.tif
source=Assignment_UMBC#page5.tif
source=Assignment_UMBC#page6.tif
source=Assignment_UMBC#page7.tif
source=Assignment_UMBC#page8.tif
source=Assignment_UMBC#page9.tif

PATENT ASSIGNMENT

THIS PATENT ASSIGNMENT is made as of the date of the last signature on the signature page ("**Effective Date**"), by and between **UNIVERSITY OF MARYLAND BIOTECHNOLOGY INSTITUTE**, having a principal place of business at 701 East Pratt Street, Suite 200, Baltimore, MD 21202 ("**Assignor**") and **UNIVERSITY OF MARYLAND, BALTIMORE COUNTY**, having a principal place of business at 1000 Hilltop Circle, Baltimore, Maryland 21250 ("**Assignee**").

WHEREAS, Assignor and Assignee are each institutions of the University System of Maryland ("**USM**"), a public corporation and an instrumentality of the State of Maryland;

WHEREAS, the assets of Assignor are being transferred to various institutions of the USM and the faculty and staff in the Institute of Fluorescence ("**IOF**") and certain faculty in the Center of Marine Biotechnology ("**COMB**") will be transferred from Assignor to Assignee on or about April 25, 2010; and

WHEREAS Dr. Govind Rao is currently a member of the faculty at UMBC, and

WHEREAS, Assignor is either a joint owner or exclusive owner of all right, title, and interest in and to the patent(s) and patent application(s) identified in **Exhibit A** attached hereto; and

WHEREAS, Assignee desires to acquire all right, title, and interest in and to said patents and patent applications of Assignor; and

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, **Assignor** hereby assigns to **Assignee** all its right, title, and interest to all intellectual property identified in **Exhibit A** attached hereto, and in any and all United States and/or international or foreign patent applications thereon, continuing patent applications thereon (including without limitation substitutions, divisionals, continuations, and continuations-in-part), patents or Letters Patent issued therefrom, and reissues, extensions, renewals, and reexaminations of such applications or patents (collectively, the "**Patents and Patent Applications**").

Such right, title, and interest in the Patents and Patent Applications are to be held and enjoyed by Assignee to the same extent as they would have been held and enjoyed by Assignor had this Assignment not been made, to the full end of the term or terms for which any such patent(s) issue. Assignor hereby represents and warrants that Assignor has full right to convey its entire right, title, and interest in and to the Patents and Patent Applications herein assigned, and that Assignor has not executed and will not execute any agreement or other document in conflict therewith.

Assignor agrees to use its best efforts for as long as Assignor exists as a separate entity within the USM to effect such assignment, to execute and deliver separate Assignments, patent applications, and other documents necessary or expedient in connection with, and to cooperate with and to assist Assignee in connection with: further perfecting the assignment of the Patents and Patent Applications to Assignee; Assignee's preparation, filing, prosecution (including without limitation defense in interference proceedings, reexaminations, or litigation), enforcement, and/or maintenance of the Patents and Patent Applications; or for Assignee to protect and commercialize the intellectual property right, title, and interests in and to the Patents and Patent Applications (including without limitation copyright and/or trademarks).

Assignor agrees to use its best efforts for as long as Assignor exists as a separate entity within the USM to pay any direct costs incurred by or on behalf of Assignor prior to the Effective Date of this agreement in association with preparing, filing, prosecuting, enforcing, maintaining, or otherwise protecting the patents and patent applications identified in Exhibit A. Assignee shall not be liable for any such direct costs incurred by or on behalf of Assignor prior to the Effective Date of this agreement. Assignor shall incur no further costs as of the Effective Date of this agreement.

Assignor hereby requests that the Commissioner of Patents transfer registered ownership of said Patents and Patent Applications, and any reissuance or extension thereof, to the Assignee for the sole use and benefit of the Assignee, its successors, legal representatives and assigns.

ASSIGNOR:

**UNIVERSITY OF MARYLAND
BIOTECHNOLOGY INSTITUTE**

By: 

Name: Edward Eisenstein
Title: Acting President, UMBI

Date: 05/10/10

Witness: 

Name: DON GOTTLIEB

ASSIGNEE:

**UNIVERSITY OF MARYLAND
BALTIMORE COUNTY**

By: 

Name: Geoffrey Summers
Title: Vice President for Research

Date: May 5, 2010

Witness: Catherine A. Allison

Name: Catherine A. Allison

WCM

**APPROVED
UMBC
Office of General Counsel**

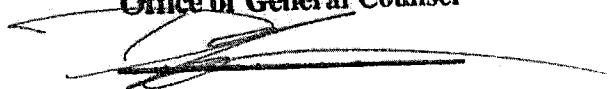


EXHIBIT A
INTELLECTUAL PROPERTY PATENT APPLICATIONS REPORT:
IOF - UMBC
THROUGH 2/25/2010 -UMBI

Patent Docket Code	Center	Principal Investigator	Inventor(s)	Patent Title	Patent Firm	Filing Date	Application Status	Patent Application #
02-005-PCT	IOF	Geddes	Geddes, Dr. Chris D.	Apparatus and Method for Fluorescence Detection Using Metal/Silica	MOORE & VAN ALLEN	4/30/2003	Entry into Regional Phase	PCT/US03/13411
02-005-PCT-AU	IOF	Geddes	Geddes, Dr. Chris D.	Apparatus and Method for Fluorescence Detection Using Metal/Silica	MOORE & VAN ALLEN	10/30/2004	Abandoned	2003221788
02-005-PCT-CA	IOF	Geddes	Geddes, Dr. Chris D.	Apparatus and Method for Fluorescence Detection Using Metal/Silica	MOORE & VAN ALLEN	10/30/2004	Abandoned	2,482,827
02-005-PCT-EP	IOF	Geddes	Geddes, Dr. Chris D.	Apparatus and Method for Fluorescence Detection Using Metal/Silica	MOORE & VAN ALLEN	10/30/2004	Abandoned	03 718 531.1
02-005-PCT-JP	IOF	Geddes	Geddes, Dr. Chris D.	Apparatus and Method for Fluorescence Detection Using Metal/Silica	MOORE & VAN ALLEN	10/30/2004	Abandoned	2004-501925
02-005-PCT-US	IOF	Geddes	Geddes, Dr. Chris D.	Apparatus and Method for Fluorescence Detection Using Metal/Silica	MOORE & VAN ALLEN	4/30/2003	Pending	0/426,012
02-005-PRV	IOF	Geddes	Geddes, Dr. Chris D.	Apparatus and Method for Fluorescence Detection Using Metal/Silica	MOORE & VAN ALLEN	4/30/2002	Convert to Non-PRV	04/376,961
02-005-PRV-1	IOF	Geddes	Geddes, Dr. Chris D.	Apparatus and Method for Fluorescence Detection Using Metal/Silica	MOORE & VAN ALLEN	10/4/2002	Converted to Non-PRV	60/416,112
02-007-DIV	IOF	Geddes	Geddes, Dr. Chris D.	OPTICAL STRUCTURES FOR METAL-ENHANCED FLUORESCENCE SENSING	MOORE & VAN ALLEN	7/18/2006	Issued	11/488,001
			Lakowicz, Dr. Joseph R.					
			Gryczynski, Zygmunt					
02-007-PCT	IOF	Geddes	Geddes, Dr. Chris D.	OPTICAL STRUCTURES FOR METAL-ENHANCED FLUORESCENCE SENSING	MOORE & VAN ALLEN	8/11/2003	Pending	PCT/US03/25039
			Lakowicz, Dr. Joseph R.					
			Gryczynski, Zygmunt					
02-007-PCT-AU	IOF	Geddes	Geddes, Dr. Chris D.	OPTICAL STRUCTURES FOR METAL-ENHANCED FLUORESCENCE SENSING	MOORE & VAN ALLEN	8/11/2003	Pending	AU 2003255249 A1
			Lakowicz, Dr. Joseph R.					
			Gryczynski, Zygmunt					
02-007-PCT-US	IOF	Geddes	Geddes, Dr. Chris D.	OPTICAL STRUCTURES FOR METAL-ENHANCED FLUORESCENCE SENSING	MOORE & VAN ALLEN	8/5/2003	Issued	10/633,715
			Lakowicz, Dr. Joseph R.					
			Gryczynski, Zygmunt					
02-007-PRV	IOF	Geddes	Geddes, Dr. Chris D.	OPTICAL STRUCTURES FOR METAL-ENHANCED FLUORESCENCE SENSING	MOORE & VAN ALLEN	8/6/2002	Expired	60/401,460
			Lakowicz, Dr. Joseph R.					
			Gryczynski, Zygmunt					
02-008-PRV	IOF	Geddes	Geddes, Dr. Chris D.	FIBER-OPTIC FOR USE IN METAL-ENHANCED FLUORESCENCE SENSING		8/6/2002	Combined with other PRV	

EXHIBIT A
INTELLECTUAL PROPERTY PATENT APPLICATIONS REPORT:
IOF - UMBC
THROUGH 2/25/2010 -UMBI

Patent Docket Code	Center	Principal Investigator	Inventor(s)	Patent title	Patent firm	Filing Date	Application Status	Patent Application
			Lakowicz, Dr. Joseph R.					
			Gryczynski, Dr. Karol					
02-029-PCT	IOF	Geddes	Geddes, Dr. Chris D.	HIGH-SENSITIVITY ASSAYS FOR PATHOGEN DETECTION USING METAL-	MOORE & VAN ALLEN	11/26/2003	Entry into National Phase	PCT/US03/038163
			Lakowicz, Dr. Joseph R.					
			Baillie, Dr. Leslie					
02-029-PCT-AU	IOF	Geddes	Geddes, Dr. Chris D.	HIGH-SENSITIVITY ASSAYS FOR PATHOGEN DETECTION USING METAL-	MOORE & VAN ALLEN	11/26/2002	Pending	2003296014
			Lakowicz, Dr. Joseph R.					
			Baillie, Dr. Leslie					
02-029-PCT-EP	IOF	Geddes	Geddes, Dr. Chris D.	HIGH-SENSITIVITY ASSAYS FOR PATHOGEN DETECTION USING METAL-	MOORE & VAN ALLEN	7/15/2004	Pending	EP 03787232.2
			Lakowicz, Dr. Joseph R.					
			Baillie, Dr. Leslie					
02-029-PCT-US	IOF	Geddes	Geddes, Dr. Chris D.	HIGH-SENSITIVITY ASSAYS FOR PATHOGEN DETECTION USING METAL-	MOORE & VAN ALLEN	5/25/2005	Pending	10/536,502
			Lakowicz, Dr. Joseph R.					
			Baillie, Dr. Leslie					
02-029-PRV	IOF	Geddes	Geddes, Dr. Chris D.	HIGH-SENSITIVITY ASSAYS FOR PATHOGEN DETECTION USING METAL-	MOORE & VAN ALLEN	11/26/2002	Converted to Non-PRV	60/429,263
			Lakowicz, Dr. Joseph R.					
			Baillie, Dr. Leslie					
03-009-PCT	IOF	Geddes	Geddes, Dr. Chris D.	QUATERNARY HETEROCYCLIC COMPOUNDS FOR AQUEOUS	MOORE & VAN ALLEN	6/28/2004	Refiled as another docket number	PCT/US04/22717
			Badugu, Dr. Ramachandram					
			Lakowicz, Dr. Joe					
03-009-PRV	IOF	Geddes	Geddes, Dr. Chris D.	QUATERNARY HETEROCYCLIC COMPOUNDS FOR AQUEOUS	MOORE & VAN ALLEN	6/27/2003	Expired	60/483,124
			Badugu, Dr. Ramachandram					
			Lakowicz, Dr. Joe					
03-019-CIP	IOF	Geddes	Geddes, Dr. Chris D.	QUATERNARY NITROGEN HETEROCYCLIC COMPOUNDS FOR	MOORE & VAN ALLEN	12/27/2005	Pending	11/318,663

EXHIBIT A
INTELLECTUAL PROPERTY PATENT APPLICATIONS REPORT:
IoF - UMBC
THROUGH 2/25/2010 -UMBI

Patent Docket Code	Center	Principal Investigator	Inventor(s)	Patent title	Patent firm	Filing Date	Application Status	Patent Application N
			Badugu, Dr. Ramachandram					
			Lakowicz, Dr. Joseph R.					
03-019-PCT	IOF	Geddes	Geddes, Dr. Chris D.	QUATERNARY NITROGEN HETEROCYCLIC COMPOUNDS FOR	MOORE & VAN ALLEN	6/28/2004	Entry Into Regional Phase	PCT/US04/22717
			Badugu, Dr. Ramachandram					
			Lakowicz, Dr. Joseph R.					
03-019-PCT-EP	IOF	Geddes	Geddes, Dr. Chris D.	QUATERNARY NITROGEN HETEROCYCLIC COMPOUNDS FOR	MOORE & VAN ALLEN	1/19/2006	Pending	04 778 295.8
			Badugu, Dr. Ramachandram					
			Lakowicz, Dr. Joseph R.					
03-019-PRV	IOF	Geddes	Geddes, Dr. Chris D.	QUATERNARY NITROGEN HETEROCYCLIC COMPOUNDS FOR	MOORE & VAN ALLEN	6/27/2003	Converted to Non-PRV	60/483,202
			Badugu, Dr. Ramachandram					
			Lakowicz, Dr. Joseph R.					
03-036-PCT	IOF	Geddes	Geddes, Dr. Chris D.	CYANIDE SENSING COMPOUNDS AND USES THEREOF	MOORE & VAN ALLEN	9/16/2004	Entry into Regional Phase	PCT/US04/30066
			Lakowicz, Dr. Joseph R.					
			Badugu, Dr. Ramachandram					
03-036-PCT-EP	IOF	Geddes	Geddes, Dr. Chris D.	CYANIDE SENSING COMPOUNDS AND USES THEREOF	MOORE & VAN ALLEN	9/16/2004	Pending	04 788 753.4
			Lakowicz, Dr. Joseph R.					
			Badugu, Dr. Ramachandram					
03-036-PCT-US	IOF	Geddes	Geddes, Dr. Chris D.	CYANIDE SENSING COMPOUNDS AND USES THEREOF	MOORE & VAN ALLEN	3/17/2006	Pending	10/572,344
			Lakowicz, Dr. Joseph R.					
			Badugu, Dr. Ramachandram					
03-036-PRV	IOF	Geddes	Geddes, Dr. Chris D.	CYANIDE SENSING COMPOUNDS AND USES THEREOF	MOORE & VAN ALLEN	9/17/2003	Converted to Non-PRV	60/503,689
			Lakowicz, Dr. Joseph R.					
			Badugu, Dr. Ramachandram					
04-014-PCT	IOF	Geddes	Geddes, Dr. Chris D.	METAL ENHANCED FLUORESCENCE FROM PLASTIC SUBSTRATES	MOORE & VAN ALLEN	10/28/2005	Entry Into Regional Phase	PCT/US05/39498

EXHIBIT A
INTELLECTUAL PROPERTY PATENT APPLICATIONS REPORT:
IoF - UMBC
THROUGH 2/25/2010 -UMBI

Patent Number	Country	Principal Investigator	Inventors	Patent Title	Patent Firm	Filing Date	Application Status	Patent Assets
			Aslan, Kadir					
04-014-PCT-CA	IOF	Geddes	Geddes, Dr. Chris D.	METAL ENHANCED FLUORESCENCE FROM PLASTIC SUBSTRATES	MOORE & VAN ALLEN	10/28/2005	Pending	2,628,056
			Aslan, Kadir					
04-014-PCT-US	IOF	Geddes	Geddes, Dr. Chris D.	METAL ENHANCED FLUORESCENCE FROM PLASTIC SUBSTRATES	MOORE & VAN ALLEN	5/3/2007	Pending	11/718,560
			Aslan, Kadir					
04-014-PRV	IOF	Geddes	Geddes, Dr. Chris D.	METAL ENHANCED FLUORESCENCE FROM PLASTIC SUBSTRATES	MOORE & VAN ALLEN	11/5/2004	Expired	60/625,212
			Aslan, Kadir					
04-020-PCT	IOF	Geddes	Geddes, Dr. Chris D.	MICROWAVE ACCELERATED ASSAYS	MOORE & VAN ALLEN	11/21/2005	Entry Into National Phase	PCT/US05/042050
04-020-PCT-CA	IOF	Geddes	Geddes, Dr. Chris D.	MICROWAVE ACCELERATED ASSAYS	MOORE & VAN ALLEN	5/12/2008	Pending	2,629,447
04-020-PCT-EP	IOF	Geddes	Geddes, Dr. Chris D.	MICROWAVE ACCELERATED ASSAYS	MOORE & VAN ALLEN	8/29/2007	Pending	EP05858334.5-1223
04-020-PCT-US	IOF	Geddes	Geddes, Dr. Chris D.	MICROWAVE ACCELERATED ASSAYS	MOORE & VAN ALLEN	5/18/2007	Pending	11/719,731
04-020-PRV	IOF	Geddes	Geddes, Dr. Chris D.	MICROWAVE ACCELERATED ASSAYS	MOORE & VAN ALLEN	11/19/2004	Refiled	60/629,822
04-020-PRV-2	IOF	Geddes	Geddes, Dr. Chris D.	MICROWAVE ACCELERATED ASSAYS	MOORE & VAN ALLEN	11/5/2004	Refiled	60/630,992
04-020-PRV-3	IOF	Geddes	Geddes, Dr. Chris D.	MICROWAVE ACCELERATED ASSAYS	MOORE & VAN ALLEN	8/10/2005	Combined with other PRV	60/707,083
04-022-PRV	IOF	Geddes	Geddes, Dr. Chris D.	MICROWAVE ACCELERATED FLUORESCENCE	MOORE & VAN ALLEN	11/19/2004	Expired	60/640,290
04-023-PRV	IOF	Geddes	Geddes, Dr. Chris D.		MOORE & VAN ALLEN	11/19/2004	Combined with other PRV	
04-024-CIP	IOF	Geddes	Geddes, Dr. Chris D.	MICROWAVE ACCELERATED PLASMONICS	MOORE & VAN ALLEN	4/2/2007	Pending	11/695,397
			Aslan, Kadir , Ph.D.					
04-024-PCT	IOF	Geddes	Geddes, Dr. Chris D.	MICROWAVE ACCELERATED PLASMONICS	MOORE & VAN ALLEN	1/3/2006	Entry Into National Phase	PCT/US06/00029
			Aslan, Kadir , Ph.D.					
04-024-PCT-CA	IOF	Geddes	Geddes, Dr. Chris D.	MICROWAVE ACCELERATED PLASMONICS	MOORE & VAN ALLEN	7/3/2008	Pending	2,635,454
			Aslan, Kadir , Ph.D.					
04-024-PCT-EP	IOF	Geddes	Geddes, Dr. Chris D.	MICROWAVE ACCELERATED PLASMONICS	MOORE & VAN ALLEN	7/8/2007	Pending	06717254.4-1225
			Aslan, Kadir , Ph.D.					

EXHIBIT A
INTELLECTUAL PROPERTY PATENT APPLICATIONS REPORT:
IoF - UMBC
THROUGH 2/25/2010 -UMBI

Patent	Docket Code	Current	Principal Investigator	Inventors	Patent Title	Patent Inventor	Filing Date	Application Status	Patent Application #
04-024-PRV	IOF	Geddes	Geddes, Dr. Chris D.	Geddes, Dr. Chris D.	MICROWAVE ACCELERATED PLASMONICS	MOORE & VAN ALLEN	1/3/2005	Converted to Non-PRV	60/641,245
			Aslan, Kadir , Ph.D.						
05-011-PRV	IOF	Geddes	Geddes, Dr. Chris D.	Geddes, Dr. Chris D.	ANGULAR-RATIOMETRIC PLASMON-RESONANCE BASED LIGHT SCATTERING	MOORE & VAN ALLEN	6/15/2005	Combined with other PRV	60/690,764
05-012-PCT	IOF	Geddes	Geddes, Dr. Chris D.	Geddes, Dr. Chris D.	METAL-ENHANCED FLUORESCENCE-BASED SENSING METHODS	MOORE & VAN ALLEN	11/17/2006	Entry Into Regional Phase	PCT/US06/023738
			Amin, Sanjiv MD						
05-012-PCT-CA	IOF	Geddes	Geddes, Dr. Chris D.	Geddes, Dr. Chris D.	METAL-ENHANCED FLUORESCENCE-BASED SENSING METHODS	MOORE & VAN ALLEN	12/15/2008	Pending	2,656,004
			Amin, Sanjiv MD						
05-012-PCT-EP	IOF	Geddes	Geddes, Dr. Chris D.	Geddes, Dr. Chris D.	METAL-ENHANCED FLUORESCENCE-BASED SENSING METHODS	MOORE & VAN ALLEN	1/17/2008	Pending	6773499.6
			Amin, Sanjiv MD						
05-012-PCT-US	IOF	Geddes	Geddes, Dr. Chris D.	Geddes, Dr. Chris D.	METAL-ENHANCED FLUORESCENCE-BASED SENSING METHODS	MOORE & VAN ALLEN	12/17/2007	Pending	11/917,804
			Amin, Sanjiv MD						
05-012-PRV	IOF	Geddes	Geddes, Dr. Chris D.	Geddes, Dr. Chris D.	METAL-ENHANCED FLUORESCENCE-BASED SENSING METHODS	MOORE & VAN ALLEN	6/17/2005	Converted to Non-PRV	60/691,851
			Amin, Sanjiv MD						
05-014-PCT	IOF	Geddes	Geddes, Dr. Chris D.	Geddes, Dr. Chris D.	Nanostructures for Polarized Imaging and Receptor Quantization: Breaking	MOORE & VAN ALLEN	8/2/2006	Entry into National Phase	PCT/US06/030268
05-014-PCT-CA	IOF	Geddes	Geddes, Dr. Chris D.	Geddes, Dr. Chris D.	Nanostructures for Polarized Imaging and Receptor Quantization: Breaking	MOORE & VAN ALLEN		Pending	2,659,640
05-014-PCT-EP	IOF	Geddes	Geddes, Dr. Chris D.	Geddes, Dr. Chris D.	Nanostructures for Polarized Imaging and Receptor Quantization: Breaking	MOORE & VAN ALLEN	3/3/2008	Pending	6851637.6
05-014-PCT-US	IOF	Geddes	Geddes, Dr. Chris D.	Geddes, Dr. Chris D.	Nanostructures for Polarized Imaging and Receptor Quantization: Breaking	MOORE & VAN ALLEN	2/4/2008	Pending	11/997,778
05-014-PRV	IOF	Geddes	Geddes, Dr. Chris D.	Geddes, Dr. Chris D.	Nanostructures for Polarized Imaging and Receptor Quantization: Breaking	MOORE & VAN ALLEN	8/2/2005	Expired	60/704,660
05-019-PCT	IOF	Geddes	Geddes, Dr. Chris D.	Geddes, Dr. Chris D.	BIOASSAYS USING PLASMONIC SCATTERING FROM NOBLE METAL	MOORE & VAN ALLEN	6/15/2006	Entry into Regional Phase	PCT/US06/023156
05-019-PCT-CA	IOF	Geddes	Geddes, Dr. Chris D.	Geddes, Dr. Chris D.	BIOASSAYS USING PLASMONIC SCATTERING FROM NOBLE METAL	MOORE & VAN ALLEN	12/15/2008	Pending	2,655,079
05-019-PCT-EP	IOF	Geddes	Geddes, Dr. Chris D.	Geddes, Dr. Chris D.	BIOASSAYS USING PLASMONIC SCATTERING FROM NOBLE METAL	MOORE & VAN ALLEN	12/15/2007	Pending	06 844 146.8
05-019-PCT-US	IOF	Geddes	Geddes, Dr. Chris D.	Geddes, Dr. Chris D.	BIOASSAYS USING PLASMONIC SCATTERING FROM NOBLE METAL	MOORE & VAN ALLEN	12/10/2007	Pending	11/917,075
05-019-PRV	IOF	Geddes	Geddes, Dr. Chris D.	Geddes, Dr. Chris D.	BIOASSAYS USING PLASMONIC SCATTERING FROM NOBLE METAL	MOORE & VAN ALLEN	8/30/2005	Converted to Non-PRV	60/712,711
05-035-PCT	IOF	Geddes	Geddes, Dr. Chris D.	Geddes, Dr. Chris D.	MICROWAVE TRIGGER METAL-ENHANCED CHEMILUMINESCENCE (MT	MOORE & VAN ALLEN	2/13/2007	Pending	PCT/US07/062041

EXHIBIT A
INTELLECTUAL PROPERTY PATENT APPLICATIONS REPORT:
IoF - UMBC
THROUGH 2/25/2010 -UMBI

Patent Dossier Code	Center	Principal Investigator	Inventor(s)	Patent Title	Patent firm	Filing Date	Application Status	Patent Application N
05-035-PCT-CA	IOF	Geddes	Geddes, Dr. Chris D.	MICROWAVE TRIGGER METAL-ENHANCED CHEMILUMINESCENCE (MT	MOORE & VAN ALLEN	2/13/2007	Pending	2,262,280
05-035-PCT-EP	IOF	Geddes	Geddes, Dr. Chris D.	MICROWAVE TRIGGER METAL-ENHANCED CHEMILUMINESCENCE (MT	MOORE & VAN ALLEN	9/11/2008	Pending	7756908.5
05-035-PRV	IOF	Geddes	Geddes, Dr. Chris D.	MICROWAVE TRIGGER METAL-ENHANCED CHEMILUMINESCENCE (MT	MOORE & VAN ALLEN	2/13/2006	Expired	60/773,037
05-035-US-CIP	IOF	Geddes	Geddes, Dr. Chris D.	MICROWAVE TRIGGER METAL-ENHANCED CHEMILUMINESCENCE (MT	MOORE & VAN ALLEN	2/25/2008	Pending	12/036,402
06-001-PRV	IOF	Geddes	Geddes, Dr. Chris D.	ANGULAR-DEPENDENT METAL-ENHANCED FLUORESCENCE	MOORE & VAN ALLEN	5/17/2006	Expired	60/747,465
06-001-US	IOF	Geddes	Geddes, Dr. Chris D.	ANGULAR-DEPENDENT METAL-ENHANCED FLUORESCENCE	MOORE & VAN ALLEN	5/17/2007	Pending	11/750,119
06-003-PRV	IOF	Geddes	Geddes, Dr. Chris D.	METAL-ENHANCED FLUORESCENCE-BASED RNA SENSING	MOORE & VAN ALLEN	3/13/2006	Combined with other PRV	60/781,933
06-004-PRV	IOF	Geddes	Geddes, Dr. Chris D.	MICROWAVE-ACCELERATED SURFACE-PLASMON COUPLED LUMINESCENCE	MOORE & VAN ALLEN	3/31/2006	Combined with other PRV	60/788,237
			Aslan, Kadir , Ph.D.					
06-019-PRV	IOF	Geddes	Geddes, Dr. Chris D.	METAL-ENHANCED SINGLET OXYGEN GENERATION	COVER PAGE	11/30/2006	Combined with other PRV	60/873,793
07-003-PRV	IOF	Geddes	Geddes, Dr. Chris D.	MICROWAVE FOCUSED CHEMILUMINESCENCE	COVER PAGE	2/23/2007	Converted to Non-PRV	60/902,982
			Previte, Michael , Ph.D.					
07-004-PRV	IOF	Geddes	Geddes, Dr. Chris D.	PLASMONIC ENGINEERING OF SINGLET OXYGEN AND/OR SUPEROXIDE	COVER PAGE	3/3/2007	Expired	60/904,501
07-004-US	IOF	Geddes	Geddes, Dr. Chris D.	PLASMONIC ENGINEERING OF SINGLET OXYGEN AND/OR SUPEROXIDE	COVER PAGE	1/27/2008	Pending	12/020,571
07-018-PCT	IOF	Geddes	Geddes, Dr. Chris D.	FLUORESCENCE MICROSCOPE IN A MICROWAVE CAVITY	COVER PAGE	6/4/2008	Pending	PCT/US08/65801
			Previte, Michael , Ph.D.					
07-018-PCT-CN	IOF	Geddes	Geddes, Dr. Chris D.	FLUORESCENCE MICROSCOPE IN A MICROWAVE CAVITY	COVER PAGE	12/9/2009	Pending	2.0088E+11
			Previte, Michael , Ph.D.					
07-018-PCT-EP	IOF	Geddes	Geddes, Dr. Chris D.	FLUORESCENCE MICROSCOPE IN A MICROWAVE CAVITY	COVER PAGE	12/17/2009	Pending	8770122.3
			Previte, Michael , Ph.D.					
07-018-PCT-US	IOF	Geddes	Geddes, Dr. Chris D.	FLUORESCENCE MICROSCOPE IN A MICROWAVE CAVITY	COVER PAGE		Pending	12/602,552
			Previte, Michael , Ph.D.					
07-018-PRV	IOF	Geddes	Geddes, Dr. Chris D.	FLUORESCENCE MICROSCOPE IN A MICROWAVE CAVITY	COVER PAGE	6/1/2007	Converted to Non-PRV	60/932,620
			Previte, Michael , Ph.D.					

EXHIBIT A
INTELLECTUAL PROPERTY PATENT APPLICATIONS REPORT:
IoF - UMBC
THROUGH 2/25/2010 -UMBI

Patent Number	Country	Principal Investigator	Inventor(s)	Patent Title	Patent firm	Filing Date	Application Status	Patent Application N
07-020-PRV	IOF	Geddes	Geddes, Dr. Chris D.	METAL-ENHANCED FLUORESCENCE NANOPARTICLES	MOORE & VAN ALLEN	7/18/2007	Expired	60/950,492
07-020-US	IOF	Geddes	Geddes, Dr. Chris D.	METAL-ENHANCED FLUORESCENCE NANOPARTICLES	MOORE & VAN ALLEN	1/18/2008	Pending	12/016,247
07-024-PRV	IOF	Geddes	Geddes, Dr. Chris D. Constantine, Niel	A Signal-enhanced Point of Care Rapid Test for Detection of Toxins in Oral	COVER PAGE	2/2/2007	Abandoned	60/899,183
07-029-PCT	IOF	Geddes	Geddes, Dr. Chris D.	CONVERSION OF JUST-CONTINUOUS METALLIC FILMS TO LARGE	MOORE & VAN ALLEN	1/30/2009	National Stage Filing	PCT/US09/32583
07-029-PRV	IOF	Geddes	Geddes, Dr. Chris D.	CONVERSION OF JUST-CONTINUOUS METALLIC FILMS TO LARGE	MOORE & VAN ALLEN	1/30/2008	Converted to Non-PRV	61/024,576
08-001-PCT	IOF	Geddes	Geddes, Dr. Chris D.	VOLTAGE GATED METAL-ENHANCED FLUORESCENCE CHEMILUMINESCENCE	MOORE & VAN ALLEN	3/1/2009	Pending	PCT/US09/35620
08-001-PRV	IOF	Geddes	Geddes, Dr. Chris D.	VOLTAGE GATED METAL-ENHANCED FLUORESCENCE CHEMILUMINESCENCE	MOORE & VAN ALLEN	3/3/2008	Expired	61/033,231
08-013-PCT	IOF	Geddes	Geddes, Dr. Chris D.	SONICATION-ASSISTED METAL-ENHANCED FLUORESCENCE (SAMEF)-	MOORE & VAN ALLEN	9/11/2009	Pending	PCT/US09/56582
08-013-PRV	IOF	Geddes	Geddes, Dr. Chris D.	SONICATION-ASSISTED METAL-ENHANCED FLUORESCENCE (SAMEF)-	MOORE & VAN ALLEN	9/11/2008	Expired	61/096,181
08-014-PCT	IOF	Geddes	Geddes, Dr. Chris D.	PLASMONIC ELECTRICITY	MOORE & VAN ALLEN	9/17/2009	Pending	PCT/US09/57282
08-014-PRV	IOF	Geddes	Geddes, Dr. Chris D.	PLASMONIC ELECTRICITY	MOORE & VAN ALLEN	9/17/2008	Expired	61/097,782
09-001-PCT	IOF	Geddes	Geddes, Dr. Chris D.	DIRECTIONAL SURFACE PLASMON COUPLED FLUORESCENCE AND	MOORE & VAN ALLEN	2/23/2010	Pending	PCT/US10/00542
09-001-PRV-1	IOF	Geddes	Geddes, Dr. Chris D.	DIRECTIONAL SURFACE PLASMON COUPLED FLUORESCENCE AND	MOORE & VAN ALLEN	2/23/2009	Expired	61/154,568
09-001-PRV-2	IOF	Geddes	Geddes, Dr. Chris D.	DIRECTIONAL SURFACE PLASMON COUPLED FLUORESCENCE AND	MOORE & VAN ALLEN	2/23/2009	Expired	61/154,636
09-009-PCT	IOF	Geddes	Geddes, Dr. Chris D. Marks, Robert , Ph.D.	METAL-ENHANCED BIOLUMINESCENCE: AN APPROACH	MOORE & VAN ALLEN	2/17/2009	Pending	PCT/US10/24367
09-009-PRV	IOF	Geddes	Geddes, Dr. Chris D. Marks, Robert , Ph.D.	METAL-ENHANCED BIOLUMINESCENCE: AN APPROACH	MOORE & VAN ALLEN	2/17/2009	Expired	61/153,270
09-017-PRV	IOF	Geddes	Geddes, Dr. Chris D.	Mixed-Metal Substrates for Metal-Enhanced Fluorescence	MOORE & VAN ALLEN	12/17/2009	Pending	61/287,314
09-021-PRV	IOF	Geddes	Geddes, Dr. Chris D.	METAL ENHANCED FLUORESCENCE FROM SILVER-SIO2 NANOBURGER	MOORE & VAN ALLEN	11/25/2009	Pending	61/264,645
09-022-PRV	IOF	Geddes	Geddes, Dr. Chris D.	Plasmonic Electricity Probes	MOORE & VAN ALLEN	12/14/2009	Pending	61/286,331