

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Lance Liotta</td> <td>01/14/2008</td> </tr> <tr> <td>Emanuel Petricoin</td> <td>01/14/2008</td> </tr> <tr> <td>Valerie Espina</td> <td>01/14/2008</td> </tr> </tbody> </table>		Name	Execution Date	Lance Liotta	01/14/2008	Emanuel Petricoin	01/14/2008	Valerie Espina	01/14/2008
Name	Execution Date								
Lance Liotta	01/14/2008								
Emanuel Petricoin	01/14/2008								
Valerie Espina	01/14/2008								
RECEIVING PARTY DATA									
Name:	George Mason University								
Street Address:	4400 University Drive								
City:	Fairfax								
State/Country:	VIRGINIA								
Postal Code:	22030								
PROPERTY NUMBERS Total: 1									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>PCT Number:</td> <td>US0640708</td> </tr> </tbody> </table>		Property Type	Number	PCT Number:	US0640708				
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PCT Number:	US0640708								
CORRESPONDENCE DATA									
Fax Number:	(202)344-8300								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
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ATTORNEY DOCKET NUMBER:	65939-236645								
NAME OF SUBMITTER:	Nancy J. Axelrod								
Total Attachments: 3 source=invasm#page1.tif source=invasm#page2.tif source=invasm#page3.tif									

CH \$40.00 US0640708

Docket Number: GMU.06.018

ASSIGNMENT OF INVENTION

WHEREAS, Lance Liotta, hereinafter called the "Assignor," has invented a new and useful invention entitled "Identification of the mTOR Protein Signaling Pathway that can Predict Survival and Outcome in Human Cancers and Use as a New Therapeutic Target for the Nonresponder Subset" for which the United States Provisional Patent Application entitled, "mTOR Pathway Theranostic", Provisional Patent Application Number 60/727,510 was filed on October 18, 2005, and for which the Patent Cooperation Treaty Patent Application entitled, "mTOR Pathway Theranostic". Application Number PCT/US2006/040708 was filed on October 18, 2006.

WHEREAS, George Mason University, of Fairfax, Virginia, hereinafter called the "Assignee", whose mailing address is: 4400 University Drive, Fairfax, VA 22030, is desirous of acquiring the entire right, title and interest in and to said invention, the applications above identified, including any provisionals, nonprovisionals, continuations, divisionals, continuations-in-part, and any applications claiming benefit to said applications, and in, to and under any Letters Patent which may be granted thereof, including all reissues, reexaminations, and extensions thereof.

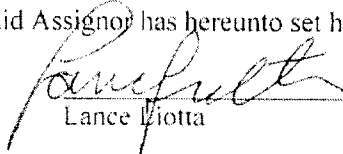
NOW, THEREFORE, in consideration of good and valuable and legally sufficient considerations, the receipt of which by said Assignor from the said Assignee is hereby acknowledged, the said Assignor has sold, assigned and transferred, and by these presents do sell, assign and transfer unto the said Assignee, the entire, right, title and interest for the United States in and to the invention and application hereinabove identified, including any provisionals, nonprovisionals, continuations, divisionals, continuations-in-part, and any applications claiming benefit to said applications, and any Letters Patent of the United States that may issue for said invention, together with the entire right, title and interest in and to said invention and applications for Patent and Patent therefore, in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; to have and to hold for the sole and exclusive use and benefit of the said Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said inventions may issue.

And the said Assignor does hereby covenant and agree, for himself and his legal representatives, that he will assist the said Assignee in the prosecution of the application herein identified; in the making and prosecution of any other applications for Letters Patent that the said Assignee may elect to make covering the invention herein identified, as hereinabove set forth; in vesting in the said Assignee like exclusive title in and to all such other applications and Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Patent herein contemplated; and that they will execute and deliver to the said Assignee any and all additional papers which may be requested by the said Assignee to fully carry out the terms of this Assignment.

And the Commissioner of Patents and Trademarks is hereby authorized and requested to issue Letters Patent to the said Assignee in accordance with the terms of this Assignment.

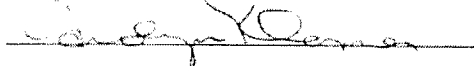
IN TESTIMONY WHEREOF, the said Assignor has hereunto set his hands and affixed his seal.

Date: 1-14-08


Lance Liotta

WITNESSED:

Date: 1/14/08



Date: _____

ASSIGNMENT OF INVENTION

WHEREAS, Emanuel Petricoin, hereinafter called the "Assignor," has invented a new and useful invention entitled "Identification of the mTOR Protein Signaling Pathway that can Predict Survival and Outcome in Human Cancers and Use as a New Therapeutic Target for the Nonresponder Subset" for which the United States Provisional Patent Application entitled, "mTOR Pathway Theranostic", Provisional Patent Application Number 60/727,510 was filed on October 18, 2005, and for which the Patent Cooperation Treaty Patent Application entitled, "mTOR Pathway Theranostic", Application Number PCT/US2006/040708 was filed on October 18, 2006.

WHEREAS, George Mason University, of Fairfax, Virginia, hereinafter called the "Assignee", whose mailing address is: 4400 University Drive, Fairfax, VA 22030, is desirous of acquiring the entire right, title and interest in and to said invention, the applications above identified, including any provisionals, nonprovisionals, continuations, divisionals, continuations-in-part, and any applications claiming benefit to said applications, and in, to and under any Letters Patent which may be granted thereof, including all reissues, reexaminations, and extensions thereof.

NOW, THEREFORE, in consideration of good and valuable and legally sufficient considerations, the receipt of which by said Assignor from the said Assignee is hereby acknowledged, the said Assignor has sold, assigned and transferred, and by these presents do sell, assign and transfer unto the said Assignee, the entire, right, title and interest for the United States in and to the invention and application hereinabove identified, including any provisionals, nonprovisionals, continuations, divisionals, continuations-in-part, and any applications claiming benefit to said applications, and any Letters Patent of the United States that may issue for said invention, together with the entire right, title and interest in and to said invention and applications for Patent and Patent therefore, in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; to have and to hold for the sole and exclusive use and benefit of the said Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said inventions may issue.

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IN TESTIMONY WHEREOF, the said Assignor has hereunto set his hands and affixed his seal.

Date: 1/14/06

Emanuel Petricoin

WITNESSED:

Date: 1/12/06

Carly Kenna

Date:

ASSIGNMENT OF INVENTION

WHEREAS, Virginia Espina, hereinafter called the "Assignor," has invented a new and useful invention entitled "Identification of the mTOR Protein Signaling Pathway that can Predict Survival and Outcome in Human Cancers and Use as a New Therapeutic Target for the Nonresponder Subset" for which the United States Provisional Patent Application entitled, "mTOR Pathway Theranostic", Provisional Patent Application Number 60/727,510 was filed on October 18, 2005, and for which the Patent Cooperation Treaty Patent Application entitled, "mTOR Pathway Theranostic", Application Number PCT/US2006/040708 was filed on October 18, 2006.

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NOW, THEREFORE, in consideration of good and valuable and legally sufficient considerations, the receipt of which by said Assignor from the said Assignee is hereby acknowledged, the said Assignor has sold, assigned and transferred, and by these presents do sell, assign and transfer unto the said Assignee, the entire, right, title and interest for the United States in and to the invention and application hereinabove identified, including any provisionals, nonprovisionals, continuations, divisionals, continuations-in-part, and any applications claiming benefit to said applications, and any Letters Patent of the United States that may issue for said invention, together with the entire right, title and interest in and to said invention and applications for Patent and Patent therefore, in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; to have and to hold for the sole and exclusive use and benefit of the said Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said inventions may issue.

And the said Assignor does hereby covenant and agree, for himself and his legal representatives, that he will assist the said Assignee in the prosecution of the application herein identified: in the making and prosecution of any other applications for Letters Patent that the said Assignee may elect to make covering the invention herein identified, as hereinabove set forth; in vesting in the said Assignee like exclusive title in and to all such other applications and Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Patent herein contemplated; and that they will execute and deliver to the said Assignee any and all additional papers which may be requested by the said Assignee to fully carry out the terms of this Assignment.

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IN TESTIMONY WHEREOF, the said Assignor has hereunto set his hands and affixed his seal.

Date: 01-14-2008 Virginia Espina
Virginia Espina

WITNESSED:

Date: 1/14/08 [Signature]

Date: [Signature]