

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3715148

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	Mehmet Toner	09/20/2011
RECEIVING PARTY DATA		
Name:	THE GENERAL HOSPITAL CORPORATION	
Street Address:	55 FRUIT STREET	
City:	BOSTON	
State/Country:	MASSACHUSETTS	
Postal Code:	02114	
Name:	GPB SCIENTIFIC, LLC	
Street Address:	800 EAST LEIGH STREET	
City:	RICHMOND	
State/Country:	VIRGINIA	
Postal Code:	23219	
PROPERTY NUMBERS Total: 1		
Property Type	Number	
Application Number:	14930313	
CORRESPONDENCE DATA		
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ATTORNEY DOCKET NUMBER:	25594-0006004	
NAME OF SUBMITTER:	LINDSIE CAHILL	
SIGNATURE:	/LINDSIE CAHILL/	
DATE SIGNED:	01/28/2016	

Total Attachments: 42

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JOINT ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, Mehmet Toner, of Wellesley, Massachusetts, hereby confirm the assignment conveyed by me in the "CONFIDENTIAL INFORMATION AND INVENTION ASSIGNMENT AGREEMENT" executed by me for myself and by Michael Grisham on behalf of GPB, LLC (the abbreviated name for GPB Scientific, LLC) on March 26, 2003 (referred to hereinafter as "Agreement") and do hereby assign to:

THE GENERAL HOSPITAL CORPORATION, a Massachusetts corporation having a place of business at 55 Fruit Street, Boston, Massachusetts 02114; and

GPB Scientific, LLC, a Delaware corporation having a place of business at 800 East Leigh St., Richmond, Virginia 23219, which avers and acknowledges (as evidenced by the signature of Michael Grisham below) that "GPB, LLC" as referred to in the Agreement is the abbreviated name for GPB Scientific, LLC, and that "GPB, LLC" is and was intended to be the entity known as GPB Scientific, LLC;

and their successors and assigns (collectively referred to hereinafter as "Assignees"), as joint owners, my entire right, title, and interest throughout the world in and to any and all of the United States and foreign (including international) patent applications identified in the list of applications attached hereto as Appendix A (collectively referred to hereinafter as "Applications"), and in and to any and all inventions and improvements disclosed in any of said Applications (collectively referred to hereinafter "Inventions"), in and to any and all applications filed on any of said Inventions in the United States or in any foreign country, and in and to any and all applications filed and any and all patents granted on any said Inventions, including any and all United States and foreign patents, utility patents and models, continuations, continuations-in-part, divisionals, reexaminations, reissues, substitutions, extensions, supplementary protection certificates, and design registrations granted for any of said Inventions or on any of said Applications or any patent application claiming priority from any of said Applications in the United States and all countries throughout the world, said assignment including the right to claim priority to one or more of said Applications based on the filing date(s) of said Applications under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and this assignment also including, without limitation, any claims (known or unknown, suspected or unsuspected) of any nature that I have or may have against

any party for infringement of any of the patents and patent applications listed herein, and the right to sue for past infringement and to recover and retain damages and profits in respect thereof; and

I authorize the Assignees to apply in all countries in my name or in their own name for patents, utility models, design registrations, and like rights of exclusion and for inventors' certificates for said Inventions; and

I hereby covenant and agree that I will communicate to the Assignees or their nominees all facts known to me pertaining to said Inventions, and I agree for myself and my respective heirs, legal representatives, and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, reissues, Preliminary Statements, and other lawful documents, testify in all legal proceedings, make all rightful oaths and declarations, and in general perform or cause to be performed all lawful acts necessary or proper to aid the Assignees or their nominees in obtaining, maintaining, and enforcing all lawful patent protection for the Inventions in the United States and in foreign countries; and

I hereby covenant that I have the full right to convey the entire right, title, and interest herein assigned and that I have not entered into and will not execute any assignment or agreement in conflict herewith.

The terms and covenants of this assignment shall inure to the benefit of the Assignees, their successors, assigns, and other legal representatives, and shall be binding upon me, and my heirs, legal representatives, and assigns.

Furthermore, the Assignees mutually agree to cooperate with each other in all reasonable requests regarding the execution of license agreements and/or sub-license agreements pertaining to any of said Inventions or Applications or patents or applications relating thereto.

Mehmet Toner
MEHMET TONER

Date: 09/20/2011

SIGNATURE WITNESSED BY:

By: Lynne Stubbfield
Print Name:

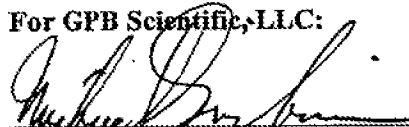
Date: 9/20/2011

By: Daniel Hanna
Print Name:

Date: 9/20/2011

RECEIVED AND AGREED TO BY ASSIGNEES:

For GPB Scientific, LLC:



Michael Orisham

Date

9/29/11

Title: *MANAGER*

For The General Hospital Corporation:

Print Name:

Date

Title:

APPENDIX A

MGH 3028 (V703; FR25594-0014, -0015, -0017, -0018, -0019, 26101-0014, -0016)

MGH Ref.	F&R Ref.	Title	Country	Case Type	Application No.	Filing Date	Toner Assignment Reel/Frame and Date Recorded
3028.03	26101-0016002	METHODS FOR DETECTING FETAL ABNORMALITY	US	CON	12/702,614	09-Feb-2010	
3028.15	25594-0014HK1	SYSTEMS AND METHODS FOR ENRICHMENT OF ANALYTES	Hong Kong	NP	8112563.4	15-Sep-2006	
3028.05	25594-0017001	SYSTEMS FOR SIZE BASED SEPARATION AND ANALYSIS	US	UTL	11/229,336	15-Sep-2005	017298/0153 March 11, 2006
3028.06	25594-0019001	BUSINESS METHODS FOR PRENATAL DIAGNOSIS	US	UTL	11/229,332	15-Sep-2005	017298/0159 March 11, 2006
3028.01	25594-0014001	SYSTEM FOR CELL ENRICHMENT	US	UTL	11/228,462	15-Sep-2005	017024/0282 January 17, 2006
3028.02	25594-0015001	SYSTEMS AND METHODS FOR ENRICHMENT OF ANALYTES	US	UTL	11/229,328	15-Sep-2005	016906/0081 December 16, 2005
3028.03	26101-0016001	METHODS FOR DETECTING FETAL ABNORMALITY	US	UTL	11/228,454	15-Sep-2005	017298/0050 March 11, 2006

3028.04	25594-0018001	KITS FOR PRENATAL TESTING	US	UTL	11/229,037	15-Sep-2005	016916/0586 December 19, 2005
3028.07	26101-0014WO1	SYSTEMS AND METHODS FOR ENRICHMENT OF ANALYTES	WIPO	PCT	PCT/US2006/036202	15-Sep-2006	
3028.08	26101-0014EP1	SYSTEMS AND METHODS FOR ENRICHMENT OF ANALYTES	Europe	NP	06803736.5	15-Sep-2006	
3028.11	25594-0014AU1	SYSTEMS AND METHODS FOR ENRICHMENT OF ANALYTES	Australia	NP	2006292394	15-Sep-2006	
3028.09	26101-0014CA1	SYSTEMS AND METHODS FOR ENRICHMENT OF ANALYTES	Canada	NP	2,622,745	15-Sep-2006	
3028.10	25594-0014CN1	SYSTEMS AND METHODS FOR ENRICHMENT OF ANALYTES	China	NP	200680042407.4	15-Sep-2006	
3028.12	25594-0014IL1	SYSTEMS AND METHODS FOR ENRICHMENT OF ANALYTES	Israel	NP	190090	15-Sep-2006	
3028.13	25594-0014IN1	SYSTEMS AND METHODS FOR ENRICHMENT OF ANALYTES	India	NP	2637/DELNP/2008	15-Sep-2006	

3028.14	25594-0014JP1	SYSTEMS AND METHODS FOR ENRICHMENT OF ANALYTES	JP	NP	2008-531396	15-Sep-2006	
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MGH 2962/2813/3049 (V704; FR25594-0006, -0007, -0023)

MGH Ref.	F&R Ref.	Title	Country	Case Type	Application No.	Filing Date	Toner Assignment Reel/Frame and Date Recorded
2962.02	25594-007P01	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CELLS AND OTHER PARTICLES	US	PRO	60/704,067	29-Jul-2005	
2813.	25594-0006P01	METHODS FOR COLLECTING CELLULAR COMPONENTS BY PREFERENTIALY LYSING CELLS OF INTEREST	US	PRO	60/668,415	05-Apr-2005	
2962.01	25594-0007001	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CELLS AND OTHER PARTICLES	US	UTL	11/227,904	15-Sep-2005	024047/0827 March 8, 2010
2813.03	25594-0006001	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CELLS AND OTHER PARTICLES	US	CON	11/449,149	08-Jun-2006	024047/0787 March 8, 2010
3049.01	25594-0023001	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CELLS AND OTHER PARTICLES	US	CIP	11/323,971	29-Dec-2005	

2813.02	25594-0006WO1	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CELLS AND OTHER PARTICLES	WIPO	PCT	PCT/US2006/012820	05-Apr-2006	
3049.02	25594-0023WO1	DEVICES AND METHODS FOR MAGNETIC ENRICHMENT OF CELLS AND OTHER PARTICLES	WIPO	PCT	PCT/US2006/036061	15-Sep-2006	
2813.05	25594-0006EP1	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CELLS AND OTHER PARTICLES	Europe	NP	06740612.4	05-Apr-2006	
3049.04	25594-0023EP1	DEVICES AND METHODS FOR MAGNETIC ENRICHMENT OF CELLS AND OTHER PARTICLES	Europe	NP	06814753.7	15-Sep-2006	
2813.04	25594-0006GB1	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CELLS AND OTHER PARTICLES	United Kingdom	NP	0612648.6	05-Apr-2006	
2813.06	25594-0006AU1	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CELLS AND OTHER PARTICLES	Australia	NP	2006232103	05-Apr-2006	

3049.05	25594-0023AU1	DEVICES AND METHODS FOR MAGNETIC ENRICHMENT OF CELLS AND OTHER PARTICLES	Australia	NP	2006292490	15-Sep-2006	
2813.07	25594-0006CA1	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CELLS AND OTHER PARTICLES	Canada	NP	2,601,480	05-Apr-2006	
3049.03	25594-0023CA1	DEVICES AND METHODS FOR MAGNETIC ENRICHMENT OF CELLS AND OTHER PARTICLES	Canada	NP	2,622,779	15-Sep-2006	
2813.09	25594-0006CN1	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CELLS AND OTHER PARTICLES	China	NP	200680019886.8	05-Apr-2006	
3049.06	25594-0023CN1	DEVICES AND METHODS FOR MAGNETIC ENRICHMENT OF CELLS AND OTHER PARTICLES	China	NP	200680041666.5	15-Sep-2006	
3049.07	25594-0023IL1	DEVICES AND METHODS FOR MAGNETIC ENRICHMENT OF CELLS AND OTHER PARTICLES	Israel	NP	190091	15-Sep-2006	

2813.10	25594-0006IN1	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CELLS AND OTHER PARTICLES	India	NP	4390/CHENP/07	05-Apr-2006	
3049.08	25594-0023IN1	DEVICES AND METHODS FOR MAGNETIC ENRICHMENT OF CELLS AND OTHER PARTICLES	India	NP	2058-DELNP/2008	15-Sep-2006	
2813.08	25594-0006JP1	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CELLS AND OTHER PARTICLES	Japan	NP	2008-505514	05-Apr-2006	
3049.09	25594-0023JP1	DEVICES AND METHODS FOR MAGNETIC ENRICHMENT OF CELLS AND OTHER PARTICLES	Japan	NP	2008-531362	15-Sep-2006	
3049.10	25594-0023HK1	DEVICES AND METHODS FOR MAGNETIC ENRICHMENT OF CELLS AND OTHER PARTICLES	Hong Kong	NP	08112587.6	15-Sep-2006	

MGH 3239/3511 (V719; FR26101-0024, 26118-0020)

MGH Ref.	F&R Ref.	Title	Country	Case Type	Application No.	Filing Date	Toner Assignment Reel/Frame and Date Recorded
3239.01	26118-0020P01	Methods for the Diagnosis of Fetal Abnormalities	US	PRO	60/804,817	6/14/2006	018123/0036 August 16, 2006
3511.01	26101-0024001	Methods for the Diagnosis of Fetal Abnormalities	US	UTL	11/763,245	6/14/2007	024047/0779 March 8, 2010
3239.02	26118-0020001	Analysis of Rare Cell-Enriched Samples	US	UTL	11/762,750	6/13/2007	023286/0430 September 25, 2009
3511.02	26101-0024WO1	Methods for the Diagnosis of Fetal Abnormalities	WIPO	PCT	PCT/US2007/071250	6/14/2007	
3239.03	26118-0020WO1	Analysis of Rare Cell-Enriched Samples	WIPO	PCT	PCT/US2007/071149	6/13/2007	
3511.03	26101-0024EP1	Methods for the Diagnosis of Fetal Abnormalities	EP	NP	07784442.1	6/14/2007	
3511.03	26101-0024EP2	Methods for the Diagnosis of Fetal Abnormalities	Europe	DIV	11159371.1	6/14/2007	
3511.03	26101-0024HK1	Methods for the Diagnosis of Fetal Abnormalities	Hong Kong	NP	09107599.1	6/14/2007	

MGH 3240/3510 (V722; FR26051-0021, -0025)

MGH Ref.	F&R Ref.	Title	Country	Case Type	Application No.	Filing Date	Toner Assignment
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							Reel/Frame and Date Recorded
3240.01	26051- 0021P01	Rare Cell Analysis Using Sample Splitting and DNA Tags	US	PRO	60/804,819	6/14/2006	August 16, 2006 018123/0739
3510.01	26101- 0025001	Rare Cell Analysis Using Sample Splitting and DNA Tags	US	UTL	11/763,421	6/14/2007	023865/0919 January 28, 2010
3240.03	26101- 0021001	Rare Cell Analysis Using Sample Splitting and DNA Tags	US	UTL	11/762,747	6/13/2007	024049/0342 March 8, 2010
3510.04	26101- 0025002	Rare Cell Analysis Using Sample Splitting and DNA Tags	US	CON	12/230,628	9/2/2008	023866/0072 January 28, 2010
3510.02	26101- 0025WO1	Rare Cell Analysis Using Sample Splitting and DNA Tags	WIPO	PCT	PCT/US2007/071256	6/14/2007	
3240.02	26051- 0021WO1	Rare Cell Analysis Using Sample Splitting and DNA Tags	WIPO	PCT	PCT/US2007/071148	6/13/2007	
3510.03	26101- 0025EP1	Rare Cell Analysis Using Sample Splitting and DNA Tags	Europe	NP	07784444.7	6/14/2007	
3510.07	26101- 0025AU1	Rare Cell Analysis Using Sample Splitting and DNA Tags	Australia	NP	2007260676	6/14/2007	

3510.06	26101-0025CA1	Rare Cell Analysis Using Sample Splitting and DNA Tags	Canada	NP	2,655,272	6/14/2007	
3510.05	26101-0025CN1	Rare Cell Analysis Using Sample Splitting and DNA Tags	China	NP	200780030309.3	6/14/2007	
3510.05	26101-0025HK1	Rare Cell Analysis Using Sample Splitting and DNA Tags	Hong Kong	NP	10108859.1	6/14/2007	
3510.03	25594-0025HK1	Rare Cell Analysis Using Sample Splitting and DNA Tags	Hong Kong	NP	09107598.2	6/14/2007	

MGH 3873 (V744; FR25594-0026)

MGH Ref.	F&R Ref.	Title	Country	Case Type	Application No.	Filing Date	Toner Assignment Reel/Frame and Date Recorded
3873.	n/a	DIAGNOSIS OF FETAL ABNORMALITIES USING NUCLEATED RED BLOOD	US	PRO	60/949,227	11-Jul-2007	
3873.02	25594-0026001	DIAGNOSIS OF FETAL ABNORMALITIES USING NUCLEATED RED BLOOD	US	UTL	12/172,158	11-Jul-2008	--
3873.04	n/a	DIAGNOSIS OF FETAL ABNORMALITIES USING NUCLEATED RED BLOOD	WIPO	PCT	PCT/US2008/069879	11-Jul-2008	

MGH 2918 (FR26051-0008, -0009, -0011, -0012, 25994-0010)

MGH Ref.	F&R Ref.	Title	Country	Case Type	Application No.	Filing Date	Toner Assignment Reel/Frame and Date Recorded
2918	26051-0008003	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CIRCULATING TUMOR CELLS AND OTHER PARTICLES	US	UTL	12/500,541	7/9/2009	
2918	26051-0008GB1	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CIRCULATING TUMOR CELLS AND OTHER PARTICLES	GB	NP	612649.4	4/5/2006	
2918	26051-0008GB2	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CIRCULATING TUMOR CELLS AND OTHER PARTICLES	GB	NP	1017732.7	4/5/2006	
2918	26051-0011002	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CIRCULATING TUMOR CELLS AND OTHER PARTICLES	US	UTL	12/511,028	7/28/2009	

2918.01	26051-0008P01	DEVICES AND METHODS FOR SEPARATING EPITHELIAL CELLS FROM BLOOD	US	PRV	60/703,833	7/29/2005	
2918.02	26051-0009001	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CIRCULATING TUMOR CELLS AND OTHER PARTICLES	US	UTL	11/323,945	12/29/2005	018387/0686 October 13, 2006
2918.03	26051-0011001	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CIRCULATING TUMOR CELLS AND OTHER PARTICLES	US	UTL	11/323,962	12/29/2005	018387/0686 October 13, 2006
2918.04	25594-0010001	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CIRCULATING TUMOR CELLS AND OTHER PARTICLES	US	UTL	11/323,946	12/29/2020	018387/0686 October 13, 2006
2918.05	25594-0012001	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CIRCULATING TUMOR CELLS AND OTHER PARTICLES	US	UTL	11/324,041	12/29/2005	018387/0686 October 13, 2006

2918.06	25594-0008001	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CIRCULATING TUMOR CELLS AND OTHER PARTICLES	US	UTL	11/322,790	12/29/2005	018387/0686 October 13, 2006
2918.07	25594-0008WO1	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CIRCULATING TUMOR CELLS AND OTHER PARTICLES	WIPO	PCT	PCT/US2006/012778	4/5/2006	
2918.09	26051-0008002	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CIRCULATING TUMOR CELLS AND OTHER PARTICLES	US	UTL	11/449,161	6/8/2006	021611/0738 September 30, 2008
2918.1	26051-0008JP1	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CIRCULATING TUMOR CELLS AND OTHER PARTICLES	JP	NP	2008-505508	4/5/2006	
2918.11	26051-0008EP1	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CIRCULATING TUMOR CELLS	EP	NP	6749394	4/5/2006	

		AND OTHER PARTICLES					
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MGH 2554

MGH Ref.	F&R Ref.	Title	Country	Case Type	Application No.	Filing Date	Toner Assignment Reel/Frame and Date Recorded
2554.01		System for delivering a diluted solution of blood from a sample collection tube	US	PROV	60/549,680	March 3, 2004	
2554.02		System for delivering a diluted solution	US	UTL	11/071,270	March 3, 2005	016982/0340 January 6, 2006
2554.03		System for delivering a diluted solution	WIPO	PCT	PCT/US05/07139	March 3, 2005	
2554.05		System For Delivering A Diluted Solution	Europe	NP	05724645.6	March 3, 2005	
2554.06		System for delivering a diluted solution	Hong Kong	NP	07110530.9	March 3, 2005	

MGH 2555 (FR 25594-0005)

MGH Ref.	F&R Ref.	Title	Country	Case Type	Application No.	Filing Date	Toner Assignment Reel/Frame and Date Recorded
2555.02	25594-0005002	Magnetic Device for Isolation of Cells and Biomolecules In a Microfluidic Environment	US	CON	12/509,237	July 24, 2009	
2555.01	25994-0005P01	Magnetic Device For Isolation Of Cells And Biomolecules In A Microfluidic Environment	US	PROV	60/549,610	March 3, 2004	
2555.02	25594-0005001	Magnetic Device For Isolation Of Cells And Biomolecules In A Microfluidic Environment	US	UTL	11/071,679	March 3, 2005	016916/0295 December 19, 2005
2555.03	25594-0005AU1	Magnetic Device For Isolation Of Cells And Biomolecules In A Microfluidic Environment	WIPO	PCT	PCT/US05/007058		
2555.06	25594-0005AU1	Magnetic Device For Isolation Of Cells And Biomolecules In A Microfluidic Environment	Australia	NP	2005218622		

2555.04	25594-0005CA1	Magnetic Device For Isolation Of Cells And Biomolecules In A Microfluidic Environment	Canada	NP	2,557,819		
2555.07	25594-0005CN1	Magnetic Device For Isolation Of Cells And Biomolecules In A Microfluidic Environment	China	NP	200580006643.6		
2555.08	25594-0005EP1	Magnetic Device For Isolation Of Cells And Biomolecules In A Microfluidic Environment	Europe	NP	05724574.8		
2555.10	25594-0005HK1	Magnetic Device For Isolation Of Cells And Biomolecules In A Microfluidic Environment	Hong Kong	NP	08107010.3		
2555.09	25594-0005IN1	Magnetic Device For Isolation Of Cells And Biomolecules In A Microfluidic Environment	India	NP	3662/CHENP/2006		
2555.05	25594-000JP1	Magnetic Device For Isolation Of Cells And Biomolecules In A Microfluidic Environment	Japan	NP	2007-502005		

MGH 3275 (FR 25594-0022)

MGH Ref.	F&R Ref.	Title	Country	Case Type	Application No.	Filing Date	Toner Assignment Reel/Frame and Date Recorded
3275	25994-0022P01	SELECTION OF CELLS USING BIOMARKERS	US	PRO	60/820,778	July 28, 2006	018210/0588 September 6, 2006
3275.02	25994-0022001	SELECTION OF CELLS USING BIOMARKERS	US	UTL	11/830,546	July 30, 2007	
3275.03	25994-0022WO1	SELECTION OF CELLS USING BIOMARKERS	WIPO	PCT	PCT/US2007/074759	July 30, 2007	

JOINT ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, Mehmet Toner, of Wellesley, Massachusetts, hereby confirm the assignment conveyed by me in the "CONFIDENTIAL INFORMATION AND INVENTION ASSIGNMENT AGREEMENT" executed by me for myself and by Michael Grisham on behalf of GPB, LLC (the abbreviated name for GPB Scientific, LLC) on March 26, 2003 (referred to hereinafter as "Agreement") and do hereby assign to:

THE GENERAL HOSPITAL CORPORATION, a Massachusetts corporation having a place of business at 55 Fruit Street, Boston, Massachusetts 02114; and

GPB Scientific, LLC, a Delaware corporation having a place of business at 800 East Leigh St., Richmond, Virginia 23219, which avers and acknowledges (as evidenced by the signature of Michael Grisham below) that "GPB, LLC" as referred to in the Agreement is the abbreviated name for GPB Scientific, LLC, and that "GPB, LLC" is and was intended to be the entity known as GPB Scientific, LLC;

and their successors and assigns (collectively referred to hereinafter as "Assignees"), as joint owners, my entire right, title, and interest throughout the world in and to any and all of the United States and foreign (including international) patent applications identified in the list of applications attached hereto as Appendix A (collectively referred to hereinafter as "Applications"), and in and to any and all inventions and improvements disclosed in any of said Applications (collectively referred to hereinafter as "Inventions"), in and to any and all applications filed on any of said Inventions in the United States or in any foreign country, and in and to any and all applications filed and any and all patents granted on any said Inventions, including any and all United States and foreign patents, utility patents and models, continuations, continuations-in-part, divisionals, reexaminations, reissues, substitutions, extensions, supplementary protection certificates, and design registrations granted for any of said Inventions or on any of said Applications or any patent application claiming priority from any of said Applications in the United States and all countries throughout the world, said assignment including the right to claim priority to one or more of said Applications based on the filing date(s) of said Applications under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and this assignment also including, without limitation, any claims (known or unknown, suspected or unsuspected) of any nature that I have or may have against

any party for infringement of any of the patents and patent applications listed herein, and the right to sue for past infringement and to recover and retain damages and profits in respect thereof; and

I authorize the Assignees to apply in all countries in my name or in their own name for patents, utility models, design registrations, and like rights of exclusion and for inventors' certificates for said Inventions; and

I hereby covenant and agree that I will communicate to the Assignees or their nominees all facts known to me pertaining to said Inventions, and I agree for myself and my respective heirs, legal representatives, and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, reissues, Preliminary Statements, and other lawful documents, testify in all legal proceedings, make all rightful oaths and declarations, and in general perform or cause to be performed all lawful acts necessary or proper to aid the Assignees or their nominees in obtaining, maintaining, and enforcing all lawful patent protection for the Inventions in the United States and in foreign countries; and

I hereby covenant that I have the full right to convey the entire right, title, and interest herein assigned and that I have not entered into and will not execute any assignment or agreement in conflict herewith.

The terms and covenants of this assignment shall inure to the benefit of the Assignees, their successors, assigns, and other legal representatives, and shall be binding upon me, and my heirs, legal representatives, and assigns.

Furthermore, the Assignees mutually agree to cooperate with each other in all reasonable requests regarding the execution of license agreements and/or sub-license agreements pertaining to any of said Inventions or Applications or patents or applications relating thereto.

Mehmet Toner
MEHMET TONER

Date: 09/20/2011

SIGNATURE WITNESSED BY:

By: Lynne Stubbfield
Print Name:

Date: 9/20/2011

By: Daniel Lunn
Print Name:

Date: 9/20/2011

RECEIVED AND AGREED TO BY ASSIGNEES:

For GPB Scientific, LLC:

Michael Grisham

Date

Title:

For The General Hospital Corporation:

F. Toneguzzo
Print Name: FRANCES TONEGUZZO
Title: Executive Director
Research Ventures & Licensing

9/28/11
Date

APPENDIX A

MGH 3028 (V703; FR25594-0014, -0015, -0017, -0018, -0019, 26101-0014, -0016)

MGH Ref.	F&R Ref.	Title	Country	Case Type	Application No.	Filing Date	Toner Assignment Reel/Frame and Date Recorded
3028.03	26101-0016002	METHODS FOR DETECTING FETAL ABNORMALITY	US	CON	12/702,614	09-Feb-2010	
3028.15	25594-0014HK1	SYSTEMS AND METHODS FOR ENRICHMENT OF ANALYTES	Hong Kong	NP	8112563.4	15-Sep-2006	
3028.05	25594-0017001	SYSTEMS FOR SIZE BASED SEPARATION AND ANALYSIS	US	UTL	11/229,336	15-Sep-2005	017298/0153 March 11, 2006
3028.06	25594-0019001	BUSINESS METHODS FOR PRENATAL DIAGNOSIS	US	UTL	11/229,332	15-Sep-2005	017298/0159 March 11, 2006
3028.01	25594-0014001	SYSTEM FOR CELL ENRICHMENT	US	UTL	11/228,462	15-Sep-2005	017024/0282 January 17, 2006
3028.02	25594-0015001	SYSTEMS AND METHODS FOR ENRICHMENT OF ANALYTES	US	UTL	11/229,328	15-Sep-2005	016906/0081 December 16, 2005
3028.03	26101-0016001	METHODS FOR DETECTING FETAL ABNORMALITY	US	UTL	11/228,454	15-Sep-2005	017298/0050 March 11, 2006

3028.04	25594-0018001	KITS FOR PRENATAL TESTING	US	UTL	11/229,037	15-Sep-2005	016916/0586 December 19, 2005
3028.07	26101-0014WO1	SYSTEMS AND METHODS FOR ENRICHMENT OF ANALYTES	WIPO	PCT	PCT/US2006/036202	15-Sep-2006	
3028.08	26101-0014EP1	SYSTEMS AND METHODS FOR ENRICHMENT OF ANALYTES	Europe	NP	06803736.5	15-Sep-2006	
3028.11	25594-0014AU1	SYSTEMS AND METHODS FOR ENRICHMENT OF ANALYTES	Australia	NP	2006292394	15-Sep-2006	
3028.09	26101-0014CA1	SYSTEMS AND METHODS FOR ENRICHMENT OF ANALYTES	Canada	NP	2,622,745	15-Sep-2006	
3028.10	25594-0014CN1	SYSTEMS AND METHODS FOR ENRICHMENT OF ANALYTES	China	NP	200680042407.4	15-Sep-2006	
3028.12	25594-0014IL1	SYSTEMS AND METHODS FOR ENRICHMENT OF ANALYTES	Israel	NP	190090	15-Sep-2006	
3028.13	25594-0014IN1	SYSTEMS AND METHODS FOR ENRICHMENT OF ANALYTES	India	NP	2637/DELNP/2008	15-Sep-2006	

3028.14	25594-0014JP1	SYSTEMS AND METHODS FOR ENRICHMENT OF ANALYTES	JP	NP	2008-531396	15-Sep-2006	
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MGH 2962/2813/3049 (V704; FR25594-0006, -0007, -0023)

MGH Ref.	F&R Ref.	Title	Country	Case Type	Application No.	Filing Date	Toner Assignment Reel/Frame and Date Recorded
2962.02	25594-007P01	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CELLS AND OTHER PARTICLES	US	PRO	60/704,067	29-Jul-2005	
2813.	25594-0006P01	METHODS FOR COLLECTING CELLULAR COMPONENTS BY PREFERENTIALY LYSING CELLS OF INTEREST	US	PRO	60/668,415	05-Apr-2005	
2962.01	25594-0007001	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CELLS AND OTHER PARTICLES	US	UTL	11/227,904	15-Sep-2005	024047/0827 March 8, 2010
2813.03	25594-0006001	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CELLS AND OTHER PARTICLES	US	CON	11/449,149	08-Jun-2006	024047/0787 March 8, 2010
3049.01	25594-0023001	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CELLS AND OTHER PARTICLES	US	CIP	11/323,971	29-Dec-2005	

2813.02	25594-0006WO1	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CELLS AND OTHER PARTICLES	WIPO	PCT	PCT/US2006/012820	05-Apr-2006	
3049.02	25594-0023WO1	DEVICES AND METHODS FOR MAGNETIC ENRICHMENT OF CELLS AND OTHER PARTICLES	WIPO	PCT	PCT/US2006/036061	15-Sep-2006	
2813.05	25594-0006EP1	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CELLS AND OTHER PARTICLES	Europe	NP	06740612.4	05-Apr-2006	
3049.04	25594-0023EP1	DEVICES AND METHODS FOR MAGNETIC ENRICHMENT OF CELLS AND OTHER PARTICLES	Europe	NP	06814753.7	15-Sep-2006	
2813.04	25594-0006GB1	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CELLS AND OTHER PARTICLES	United Kingdom	NP	0612648.6	05-Apr-2006	
2813.06	25594-0006AU1	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CELLS AND OTHER PARTICLES	Australia	NP	2006232103	05-Apr-2006	

3049.05	25594-0023AU1	DEVICES AND METHODS FOR MAGNETIC ENRICHMENT OF CELLS AND OTHER PARTICLES	Australia	NP	2006292490	15-Sep-2006	
2813.07	25594-0006CA1	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CELLS AND OTHER PARTICLES	Canada	NP	2,601,480	05-Apr-2006	
3049.03	25594-0023CA1	DEVICES AND METHODS FOR MAGNETIC ENRICHMENT OF CELLS AND OTHER PARTICLES	Canada	NP	2,622,779	15-Sep-2006	
2813.09	25594-0006CN1	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CELLS AND OTHER PARTICLES	China	NP	200680019886.8	05-Apr-2006	
3049.06	25594-0023CN1	DEVICES AND METHODS FOR MAGNETIC ENRICHMENT OF CELLS AND OTHER PARTICLES	China	NP	200680041666.5	15-Sep-2006	
3049.07	25594-0023IL1	DEVICES AND METHODS FOR MAGNETIC ENRICHMENT OF CELLS AND OTHER PARTICLES	Israel	NP	190091	15-Sep-2006	

2813.10	25594-0006IN1	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CELLS AND OTHER PARTICLES	India	NP	4390/CHENP/07	05-Apr-2006	
3049.08	25594-0023IN1	DEVICES AND METHODS FOR MAGNETIC ENRICHMENT OF CELLS AND OTHER PARTICLES	India	NP	2058-DELNP/2008	15-Sep-2006	
2813.08	25594-0006JP1	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CELLS AND OTHER PARTICLES	Japan	NP	2008-505514	05-Apr-2006	
3049.09	25594-0023JP1	DEVICES AND METHODS FOR MAGNETIC ENRICHMENT OF CELLS AND OTHER PARTICLES	Japan	NP	2008-531362	15-Sep-2006	
3049.10	25594-0023HK1	DEVICES AND METHODS FOR MAGNETIC ENRICHMENT OF CELLS AND OTHER PARTICLES	Hong Kong	NP	08112587.6	15-Sep-2006	

MGH 3239/3511 (V719; FR26101-0024, 26118-0020)

MGH Ref.	F&R Ref.	Title	Country	Case Type	Application No.	Filing Date	Toner Assignment Reel/Frame and Date Recorded
3239.01	26118-0020P01	Methods for the Diagnosis of Fetal Abnormalities	US	PRO	60/804,817	6/14/2006	018123/0036 August 16, 2006
3511.01	26101-0024001	Methods for the Diagnosis of Fetal Abnormalities	US	UTL	11/763,245	6/14/2007	024047/0779 March 8, 2010
3239.02.	26118-0020001	Analysis of Rare Cell-Enriched Samples	US	UTL	11/762,750	6/13/2007	023286/0430 September 25, 2009
3511.02	26101-0024WO1	Methods for the Diagnosis of Fetal Abnormalities	WIPO	PCT	PCT/US2007/071250	6/14/2007	
3239:03	26118-0020WO1	Analysis of Rare Cell-Enriched Samples	WIPO	PCT	PCT/US2007/071149	6/13/2007	
3511.03	26101-0024EP1	Methods for the Diagnosis of Fetal Abnormalities	EP	NP	07784442.1	6/14/2007	
3511.03	26101-0024EP2	Methods for the Diagnosis of Fetal Abnormalities	Europe	DIV	11159371.1	6/14/2007	
3511.03	26101-0024HK1	Methods for the Diagnosis of Fetal Abnormalities	Hong Kong	NP	09107599.1	6/14/2007	

MGH 3240/3510 (V722; FR26051-0021, -0025)

MGH Ref.	F&R Ref.	Title	Country	Case Type	Application No.	Filing Date	Toner Assignment
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							Reel/Frame and Date Recorded
3240.01	26051- 0021P01	Rare Cell Analysis Using Sample Splitting and DNA Tags	US	PRO	60/804,819	6/14/2006	August 16, 2006 018123/0739
3510.01	26101- 0025001	Rare Cell Analysis Using Sample Splitting and DNA Tags	US	UTL	11/763,421	6/14/2007	023865/0919 January 28, 2010
3240.03	26101- 0021001	Rare Cell Analysis Using Sample Splitting and DNA Tags	US	UTL	11/762,747	6/13/2007	024049/0342 March 8, 2010
3510.04	26101- 0025002	Rare Cell Analysis Using Sample Splitting and DNA Tags	US	CON	12/230,628	9/2/2008	023866/0072 January 28, 2010
3510.02	26101- 0025WO1	Rare Cell Analysis Using Sample Splitting and DNA Tags	WIPO	PCT	PCT/US2007/071256	6/14/2007	
3240.02	26051- 0021WO1	Rare Cell Analysis Using Sample Splitting and DNA Tags	WIPO	PCT	PCT/US2007/071148	6/13/2007	
3510.03	26101- 0025EP1	Rare Cell Analysis Using Sample Splitting and DNA Tags	Europe	NP	07784444.7	6/14/2007	
3510.07	26101- 0025AU1	Rare Cell Analysis Using Sample Splitting and DNA Tags	Australia	NP	2007260676	6/14/2007	

3510.06	26101-0025CA1	Rare Cell Analysis Using Sample Splitting and DNA Tags	Canada	NP	2,655,272	6/14/2007	
3510.05	26101-0025CN1	Rare Cell Analysis Using Sample Splitting and DNA Tags	China	NP	200780030309.3	6/14/2007	
3510.05	26101-0025HK1	Rare Cell Analysis Using Sample Splitting and DNA Tags	Hong Kong	NP	10108859.1	6/14/2007	
3510.03	25594-0025HK1	Rare Cell Analysis Using Sample Splitting and DNA Tags	Hong Kong	NP	09107598.2	6/14/2007	

MGH 3873 (V744; FR25594-0026)

MGH Ref.	F&R Ref.	Title	Country	Case Type	Application No.	Filing Date	Toner Assignment Reel/Frame and Date Recorded
3873.	n/a	DIAGNOSIS OF FETAL ABNORMALITIES USING NUCLEATED RED BLOOD	US	PRO	60/949,227	11-Jul-2007	
3873.02	25594-0026001	DIAGNOSIS OF FETAL ABNORMALITIES USING NUCLEATED RED BLOOD	US	UTL	12/172,158	11-Jul-2008	--
3873.04	n/a	DIAGNOSIS OF FETAL ABNORMALITIES USING NUCLEATED RED BLOOD	WIPO	PCT	PCT/US2008/069879	11-Jul-2008	

MGH 2918 (FR26051-0008, -0009, -0011, -0012, 25994-0010)

MGH Ref.	F&R Ref.	Title	Country	Case Type	Application No.	Filing Date	Toner Assignment Reel/Frame and Date Recorded
2918	26051-0008003	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CIRCULATING TUMOR CELLS AND OTHER PARTICLES	US	UTL	12/500,541	7/9/2009	
2918	26051-0008GB1	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CIRCULATING TUMOR CELLS AND OTHER PARTICLES	GB	NP	612649.4	4/5/2006	
2918	26051-0008GB2	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CIRCULATING TUMOR CELLS AND OTHER PARTICLES	GB	NP	1017732.7	4/5/2006	
2918	26051-0011002	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CIRCULATING TUMOR CELLS AND OTHER PARTICLES	US	UTL	12/511,028	7/28/2009	

2918.01	26051-0008P01	DEVICES AND METHODS FOR SEPARATING EPITHELIAL CELLS FROM BLOOD	US	PRV	60/703,833	7/29/2005	
2918.02	26051-0009001	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CIRCULATING TUMOR CELLS AND OTHER PARTICLES	US	UTL	11/323,945	12/29/2005	018387/0686 October 13, 2006
2918.03	26051-0011001	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CIRCULATING TUMOR CELLS AND OTHER PARTICLES	US	UTL	11/323,962	12/29/2005	018387/0686 October 13, 2006
2918.04	25594-0010001	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CIRCULATING TUMOR CELLS AND OTHER PARTICLES	US	UTL	11/323,946	12/29/2020	018387/0686 October 13, 2006
2918.05	25594-0012001	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CIRCULATING TUMOR CELLS AND OTHER PARTICLES	US	UTL	11/324,041	12/29/2005	018387/0686 October 13, 2006

2918.06	25594-0008001	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CIRCULATING TUMOR CELLS AND OTHER PARTICLES	US	UTL	11/322,790	12/29/2005	018387/0686 October 13, 2006
2918.07	25594-0008WO1	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CIRCULATING TUMOR CELLS AND OTHER PARTICLES	WIPO	PCT	PCT/US2006/012778	4/5/2006	
2918.09	26051-0008002	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CIRCULATING TUMOR CELLS AND OTHER PARTICLES	US	UTL	11/449,161	6/8/2006	021611/0738 September 30, 2008
2918.1	26051-0008JP1	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CIRCULATING TUMOR CELLS AND OTHER PARTICLES	JP	NP	2008-505508	4/5/2006	
2918.11	26051-0008EP1	DEVICES AND METHODS FOR ENRICHMENT AND ALTERATION OF CIRCULATING TUMOR CELLS	EP	NP	6749394	4/5/2006	

		AND OTHER PARTICLES					
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MGH 2554

MGH Ref.	F&R Ref.	Title	Country	Case Type	Application No.	Filing Date	Toner Assignment Reel/Frame and Date Recorded
2554.01		System for delivering a diluted solution of blood from a sample collection tube	US	PROV	60/549,680	March 3, 2004	
2554.02		System for delivering a diluted solution	US	UTL	11/071,270	March 3, 2005	016982/0340 January 6, 2006
2554.03		System for delivering a diluted solution	WIPO	PCT	PCT/US05/07139	March 3, 2005	
2554.05		System For Delivering A Diluted Solution	Europe	NP	05724645.6	March 3, 2005	
2554.06		System for delivering a diluted solution	Hong Kong	NP	07110530.9	March 3, 2005	

MGH 2555 (FR 25594-0005)

MGH Ref.	F&R Ref.	Title	Country	Case Type	Application No.	Filing Date	Toner Assignment Reel/Frame and Date Recorded
2555.02	25594-0005002	Magnetic Device for Isolation of Cells and Biomolecules in a Microfluidic Environment	US	CON	12/509,237	July 24, 2009	
2555.01	25994-0005P01	Magnetic Device For Isolation Of Cells And Biomolecules In A Microfluidic Environment	US	PROV	60/549,610	March 3, 2004	
2555.02	25594-0005001	Magnetic Device For Isolation Of Cells And Biomolecules In A Microfluidic Environment	US	UTL	11/071,679	March 3, 2005	016916/0295 December 19, 2005
2555.03	25594-0005AU1	Magnetic Device For Isolation Of Cells And Biomolecules In A Microfluidic Environment	WIPO	PCT	PCT/US05/007058		
2555.06	25594-0005AU1	Magnetic Device For Isolation Of Cells And Biomolecules In A Microfluidic Environment	Australia	NP	2005218622		

2555.04	25594-0005CA1	Magnetic Device For Isolation Of Cells And Biomolecules In A Microfluidic Environment	Canada	NP	2,557,819		
2555.07	25594-0005CN1	Magnetic Device For Isolation Of Cells And Biomolecules In A Microfluidic Environment	China	NP	200580006643.6		
2555.08	25594-0005EP1	Magnetic Device For Isolation Of Cells And Biomolecules In A Microfluidic Environment	Europe	NP	05724574.8		
2555.10	25594-0005HK1	Magnetic Device For Isolation Of Cells And Biomolecules In A Microfluidic Environment	Hong Kong	NP	08107010.3		
2555.09	25594-0005IN1	Magnetic Device For Isolation Of Cells And Biomolecules In A Microfluidic Environment	India	NP	3662/CHENP/2006		
2555.05	25594-000JP1	Magnetic Device For Isolation Of Cells And Biomolecules In A Microfluidic Environment	Japan	NP	2007-502005		

MGH 3275 (FR 25594-0022)

MGH Ref.	F&R Ref.	Title	Country	Case Type	Application No.	Filing Date	Toner Assignment Reel/Frame and Date Recorded
3275	25994-0022P01	SELECTION OF CELLS USING BIOMARKERS	US	PRO	60/820,778	July 28, 2006	018210/0588 September 6, 2006
3275.02	25994-0022001	SELECTION OF CELLS USING BIOMARKERS	US	UTL	11/830,546	July 30, 2007	
3275.03	25994-0022WO1	SELECTION OF CELLS USING BIOMARKERS	WIPO	PCT	PCT/US2007/074759	July 30, 2007	