## PATENT ASSIGNMENT

### SUBMISSION TYPE:
NEW ASSIGNMENT

### NATURE OF CONVEYANCE:
ASSIGNMENT

### CONVEYING PARTY DATA

<table>
<thead>
<tr>
<th>Name</th>
<th>Execution Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sascha Dawn ABRAMSON</td>
<td>09/24/2009</td>
</tr>
<tr>
<td>Marian GUELAKIS</td>
<td>09/24/2009</td>
</tr>
<tr>
<td>Mohammad A. HEIDARAN</td>
<td>09/30/2009</td>
</tr>
<tr>
<td>Kristen LABAZZO</td>
<td>09/24/2009</td>
</tr>
<tr>
<td>Shmuel YACCOBY</td>
<td>09/30/2009</td>
</tr>
</tbody>
</table>

### RECEIVING PARTY DATA

<table>
<thead>
<tr>
<th>Name: Anthrogenesis Corporation</th>
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<tbody>
<tr>
<td>Street Address: 7 Powderhorn Drive</td>
</tr>
<tr>
<td>City: Warren</td>
</tr>
<tr>
<td>State/Country: NEW JERSEY</td>
</tr>
<tr>
<td>Postal Code: 07059</td>
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### PROPERTY NUMBERS Total: 1

<table>
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<tr>
<th>Property Type</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Number</td>
<td>12546556</td>
</tr>
</tbody>
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### CORRESPONDENCE DATA

Fax Number: (858)314-1150  
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.  
Phone: 858-314-1200  
Email: scgenua@jonesday.com  
Correspondent Name: JONES DAY  
Address Line 1: 222 East 41st Street  
Address Line 4: New York, NEW YORK 10017-6702

### ATTORNEY DOCKET NUMBER:
501872-999780

### NAME OF SUBMITTER:
Lawrence S. Graham
ASSIGNMENT

WHEREAS, WE, SASCHA DAWN ABRAMSON, residing at 609A Marlborough Common, Hillsborough, NJ 08844, citizen of the United States; MARIAN GUELAKIS, residing at 8 Mohawk Drive, Cranford, New Jersey 07016, a citizen of the United States; MOHAMMAD A. HEIDARAN, residing at 88 Ormon Drive, Chatham, New Jersey 07928, a citizen of the United States; KRISTEN L. LABAZZO, residing at 50 Newbrook Lane, Springfield, New Jersey 07081, a citizen of the United States; and SHMUEL H. YACCOBY, residing at 4301 West Markham, No. 776, Little Rock, Arkansas 72205, a citizen of the United States, ASSIGNEES, are the inventors of the invention in "METHODS AND COMPOSITIONS FOR TREATMENT OF BONE DEFECTS WITH PLACENTAL CELL POPULATIONS," for which we have executed an application for a Patent of the United States

which is identified by Jones Day docket no. 9516-780-999
which was filed on August 24, 2009, Application No. 12/546,556

and WHEREAS, Anheuser-Busch Corporation, a corporation existing under the laws of the state of New Jersey, and having an office for the transaction of business at 7 Powder Horn Drive, Warren, New Jersey 07059, ASSIGNEE, is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar ($1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNEES, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNOR, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner for Patents and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date 9/24/2009  L.S.
SASCHA D. ABRAMSON  

Date 9/24/2009  L.S.
MARIAN GUELAKIS

Date 9/24/2009  L.S.
MOHAMMAD A. HEIDARAN

Date 9/24/2009  L.S.
KRISTEN L. LABAZZO

Date 9/24/2009  L.S.
SHMUEL H. YACCOBY

State of New Jersey
County of Union

On this 24th day of September, 2009 before me, Notary Public, personally appeared SASCHA D. ABRAMSON, personally known to me on the basis of satisfactory evidence to be the person(s) whose names(s) is 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 he/she/they acted, executed the instrument.
MARY SOSA
WITNESS my hand and official seal
State of New Jersey

On ______________, 2009 before me, MARY SOSA, Notary Public, personally appeared MARIAN GUELAKIS, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is 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.

WITNESS my hand and official seal

MARY SOSA
WITNESS my hand and official seal
State of New Jersey

On ______________, 2009 before me, MARY SOSA, Notary Public, personally appeared MOHAMMAD A. HEIDARAN, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is 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.

WITNESS my hand and official seal

MARY SOSA
WITNESS my hand and official seal
State of New Jersey

On ______________, 2009 before me, MARY SOSA, Notary Public, personally appeared KRISTEN LABAZZO, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is 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.

WITNESS my hand and official seal

MARY SOSA
WITNESS my hand and official seal
State of New Jersey

On ______________, 2009 before me, MARY SOSA, Notary Public, personally appeared SHMUEL YACCoby, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is 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.

WITNESS my hand and official seal
ASSIGNMENT

WHEREAS, WE, SASCHA DAWN ABRAMSON, residing at 609A Marlborough Common, Hillsborough, NJ 08844, citizen of the United States; MARIAN GUEFLAKIS, residing at 8 Mohawk Drive, Cranford, New Jersey 07016, a citizen of the United States; MOHAMMAD A. HEIDARAN, residing at 88 Ormon Drive, Chatham, New Jersey 07928, a citizen of the United States; KRISTEN LABAZZO, residing at 50 Newbrook Lane, Springfield, New Jersey 07081, a citizen of the United States; and SHMUEL YACCOBY, residing at 4301 West Markham, No. 776, Little Rock, Arkansas 72205, a citizen of the United States, ASSIGNS, are the inventors of the invention in “METHODS AND COMPOSITIONS FOR TREATMENT OF BONE DEFECTS WITH PLACENTAL CELL POPULATIONS,” for which we have executed an application for a Patent of the United States

which is identified by Jones Day docket no. 9516-780-999
which was filed on August 24, 2009, Application No. 12/546,556

and WHEREAS, Anthogenics Corporation, a corporation existing under the laws of the state of New Jersey, and having an office for the transaction of business at 7 Pound Horn Drive, Warren, New Jersey 07059, ASSIGNEE, is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar ($1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the said the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner for Patents and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date ___________________________ 2009

L.S.

SASCHA D. ABRAMSON

Date ___________________________ 2009

L.S.

MARIAN GUEFLAKIS

Date 9.30-09 ___________________________ 2009

L.S.

MOHAMMAD A. HEIDARAN

Date ___________________________ 2009

L.S.

KRISTEN LABAZZO

Date ___________________________ 2009

L.S.

SHMUEL YACCOBY

State of Warren

County of New Jersey

On 9/30/2009, before me, Charles N., Notary Public, State of New Jersey, My Commission Expires Aug 20, 2013, ABRAMSON, personally known 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.
ASSIGNMENT

WHEREAS, WE, SASCHA DAWN ABRAMSON, residing at 609A Marlborough Common, Hillborough, NJ 08844, citizen of the United States; MARIAN GUELAKIS, residing at 8 Mohawk Drive, Cranford, New Jersey 07016, a citizen of the United States; MOHAMMAD A. HEIDARAN, residing at 88 Ormont Drive, Chatham, New Jersey 07928, a citizen of the United States; KRISTEN LABAZZO, residing at 50 Newbrook Lane, Springfield, New Jersey 07081, a citizen of the United States; and SHMUEL YACCOBY, residing at 4301 West Markham, No. 716, Little Rock, Arkansas 72205, a citizen of the United States, ASSIGNORS, are the inventors of the invention in "METHODS AND COMPOSITIONS FOR TREATMENT OF BONE DEFECTS WITH PLACENTAL CELL POPULATIONS," for which we have executed an application for a Patent of the United States

☐ which is identified by Jones Day docket no. 9516-780-999
☐ which was filed on August 24, 2009, Application No. 12/546,556

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IN TESTIMONY WHEREOF, We hereunto set our hands and seal the day and year set opposite our respective signatures.

Date ______________________, 2009

SASCHA D. ABRAMSON

L.S.

Date ______________________, 2009

MARIAN GUELAKIS

L.S.

Date ______________________, 2009

MOHAMMAD A. HEIDARAN

L.S.

Date ______________________, 2009

KRISTEN LABAZZO

L.S.

Date 09/30/2009

SHMUEL YACCOBY

L.S.

State of

SS:

County of

On ______________________, 2009, before me, Notary Public, personally appeared SASCHA D. ABRAMSON, personally known to me on the basis of satisfactory evidence to be the person(s) whose names(s) is 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.
WITNESS my hand and official seal

State of


County of

On _______ 2009 before me, Notary Public, personally appeared MARIAN GUELAKIS, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is 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.

WITNESS my hand and official seal

State of


County of

On _______ 2009 before me, Notary Public, personally appeared MOHAMMAD A. HEIDARAN, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is 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.

WITNESS my hand and official seal

State of


County of

On _______ 2009 before me, Notary Public, personally appeared KRISTEN LABAZZO, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is 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.

WITNESS my hand and official seal

State of Arkansas


County of Saline SS.:

On _______ 2009 before me, Judy Cheek, Notary Public, personally appeared SHMUEL YACCOBY, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is 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.

WITNESS my hand and official seal

Judy Cheek

SALINE CO., ARKANSAS

JUDY CHEEK

NOTARY PUBLIC

10-10-13