#### PATENT ASSIGNMENT

#### Electronic Version v1.1

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| SUBMISSION TYPE:   |   | NEW ASSIGNMENT  |                |                |  |
|--|---|-----------------|----------------|----------------|--|
| NATURE OF CONVEYANCE:  |   | ASSIGNMENT      |                |                |  |
| CONVEYING PARTY DATA   |   |                 |                |                |  |
| N  |   |                 | ame            | Execution Date |  |
| Professional Dietetics S.r.l.  |   |                 |                | 01/25/2013     |  |
| RECEIVING PARTY DATA   |   |                 |                |                |  |
| Name:  | Determinants of Metabolism Research Laboratory S.r.l. |                 |                |                |  |
| Street Address:  | Via Marconi 1   |                 |                |                |  |
| City:  | Castel San Giovanni (PC)                              |                 |                |                |  |
| State/Country:   | ITALY   |                 |                |                |  |
| Postal Code:   | 29015   |                 |                |                |  |
| PROPERTY NUMBERS Total: 4  |   |                 |                |                |  |
| Property Type  |   |                 | Number         |                |  |
| Patent Number: 7902  |   | 0225            | 250            |                |  |
| Application Number: 129  |   | 9964            | 996426         |                |  |
| Application Number: 13014  |   | 0142            |                |                |  |
| Application Number: 13512  |   | 5124            | 438            |                |  |
| Application Number: 13512438   CORRESPONDENCE DATA Z   |   |                 |                |                |  |
| Fax Number:   Correspondence will be sent via US Mail when the fax attempt is unsuccessful.   Phone:   0039-011-8392911   Phone:   0039-011-8392911   Phone:   Doorspondent Name:   Buzzi, Notaro & Antonielli d'Oulx S.r.I.   Phone:   Pho |   |                 |                |                |  |
| ATTORNEY DOCKET NUMBER:  |   |                 | BUE4542 ET AL. |                |  |
| NAME OF SUBMITTER:   |   | Monika Jochymek |                |                |  |
| Total Attachments: 4     source=assignment documents#page1.tif     source=assignment documents#page2.tif     source=assignment documents#page3.tif     source=assignment documents#page4.tif   |   |                 |                |                |  |

*WHEREAS*, Professional Dietetics S.r.l., an Italian company, having offices at Via Ciro Menotti 1A, I-20129 Milano, Italy, acquired rights in certain new and useful improvements in

#### COMPOSITIONS BASED ON AMINOACIDS, SUITABLE FOR THE TREATMENT OF HEART FAILURE

for which a Patent of the United States, No. 7,902,250 issued on March 8, 2011 (Patent Application No. 10/332,236, filed on January 6, 2003, which was a 371 National Phase filing of PCT/IB2001/01181, filed on June 28, 2001, which claimed priority to Italian Application No. TO2000A000674 filed on July 4, 2000). Said rights were recorded with the U.S. Patent and Trademark Office on January 6, 2003 under Reel 014213 / Frame 0004; and

WHEREAS, Determinants of Metabolism Research Laboratory S.r.l., an Italian company, having offices at Via Marconi 1, I-29015 Castel San Giovanni (PC), Italy is desirous of obtaining the entire right, title and interest in, to and under the said improvements and the said Patent of the United States; NOW, THEREFORE, BE IT KNOWN that for good and valuable consideration, the receipt of all of which is hereby acknowledged, the said **Professional** Dietetics S.r.l., has sold, assigned transferred and set over unto the said the said Determinants of Metabolism Research Laboratory S.r.l., its successors and assigns, the entire right, title and interest in and to the said invention, Letters Patent, and in and to any improvements, reissues, or extensions thereof that may be made or granted together with all claims for damages by reason of past infringement of said Letters Patent with the right to sue for and collect the same for its own use and behalf, and for the use and behalf of its successors, assigns or other legal representatives;

**TO HAVE AND TO HOLD** the same to the full end of the term or terms for which said Letters Patent has been granted, as fully and completely as the same might be held by Assignor had this assignment not been made.

**AND** the Commissioner of Patents and Trademarks is requested to issue the said Letters Patent, when granted, in accordance with this assignment.

*IN TESTIMONY WHEREOF*, I, Paolo Luca Maria GIORGETTI, Director, on behalf of **Professional Dietetics S.r.l.**, do hereby sign my hand and seal this 25th day of January 2013.

rofessional Dietetics S.r.l. By: Name: aolo Luca María Giorgetti

Title: Direct

PATENT REEL: 029744 FRAME: 0982

*WHEREAS*, Professional Dietetics S.r.I., an Italian company, having offices at Via Ciro Menotti 1A, I-20129 Milano, Italy, acquired rights in certain new and useful improvements in

#### COMPOSITIONS COMPRISING AMINO ACIDS, WITH PRO-ANGIOGENIC ACTIVITY

for which a Patent Application of the United States, No. 12/996,426 was filed on December 6, 2010, which was a 371 National Phase filing of PCT/IB2009/052373, filed on June 4, 2009, which claimed priority to Italian Application No. TO2008A000443 filed on June 6, 2008; and

WHEREAS, Determinants of Metabolism Research Laboratory S.r.l., an Italian company, having offices at Via Marconi 1, I-29015 Castel San Giovanni (PC), Italy is desirous of obtaining the entire right, title and interest in, to and under the said improvements and the said Patent of the United States; NOW, THEREFORE, BE IT KNOWN that for good and valuable consideration, the receipt of all of which is hereby acknowledged, the said Professional Dietetics S.r.l., has sold, assigned transferred and set over unto the said the said Determinants of Metabolism Research Laboratory S.r.l., its successors and assigns, the entire right, title and interest in and to the said invention, Letters Patent, and in and to any improvements, reissues, or extensions thereof that may be made or granted together with all claims for damages by reason of past infringement of said Letters Patent with the right to sue for and collect the same for its own use and behalf, and for the use and behalf of its successors, assigns or other legal representatives;

**TO HAVE AND TO HOLD** the same to the full end of the term or terms for which said Letters Patent has been granted, as fully and completely as the same might be held by Assignor had this assignment not been made.

**AND** the Commissioner of Patents and Trademarks is requested to issue the said Letters Patent, when granted, in accordance with this assignment.

IN TESTIMONY WHEREOF, I, Paolo Luca Maria GIORGETTI, Director, on behalf of Professional Dietetics S.r.l., do hereby sign my hand and seal this 25th day of January 2013.

Professional Dietetics S.r.I By: Paolo Luca Maria Giorgetti Name: Title: Director,

PATENT REEL: 029744 FRAME: 0983

*WHEREAS*, Professional Dietetics S.r.l., an Italian company, having offices at Via Ciro Menotti 1A, I-20129 Milano, Italy, acquired rights in certain new and useful improvements in

### COMPOSITIONS BASED ON AMINOACIDS, SUITABLE FOR THE TREATMENT OF HEART FAILURE

for which a Patent Application of the United States, No. 13/014,294 was filed on January 26, 2011, which was a Divisional of Patent Application No. 10/332,236 - now Patent U.S. Patent No. 7,902,250 which was a 371 National Phase filing of PCT/IB2001/01181, filed on June 28, 2001, which claimed priority to Italian Application No. TO2000A000674 filed on July 4, 2000; and

WHEREAS, Determinants of Metabolism Research Laboratory S.r.l., an Italian company, having offices at Via Marconi 1, I-29015 Castel San Giovanni (PC), Italy is desirous of obtaining the entire right, title and interest in, to and under the said improvements and the said Patent of the United States; NOW, THEREFORE, BE IT KNOWN that for good and valuable consideration, the receipt of all of which is hereby acknowledged, the said Professional Dietetics S.r.l., has sold, assigned transferred and set over unto the said the said Determinants of Metabolism Research Laboratory S.r.l., its successors and assigns, the entire right, title and interest in and to the said invention, Letters Patent, and in and to any improvements, reissues, or extensions thereof that may be made or granted together with all claims for damages by reason of past infringement of said Letters Patent with the right to sue for and collect the same for its own use and behalf, and for the use and behalf of its successors, assigns or other legal representatives;

**TO HAVE AND TO HOLD** the same to the full end of the term or terms for which said Letters Patent has been granted, as fully and completely as the same might be held by Assignor had this assignment not been made.

**AND** the Commissioner of Patents and Trademarks is requested to issue the said Letters Patent, when granted, in accordance with this assignment.

*IN TESTIMONY WHEREOF*, I, Paolo Luca Maria GIORGETTI, Director, on behalf of **Professional Dietetics S.r.l.**, do hereby sign my hand and seal this 25th day of January 2013.

rofessional Dieterics S.r. By:

Naolo Laca Maria Giorgetti Name: Title:

PATENT REEL: 029744 FRAME: 0984

*WHEREAS*, Professional Dietetics S.r.l., an Italian company, having offices at Via Ciro Menotti 1A, I-20129 Milano, Italy, acquired rights in certain new and useful improvements in

#### COMPOSITIONS COMPRISING AMINO ACIDS FOR TREATING CHRONIC OBSTRUCTIVE PULMONARY DISEASE

for which a Patent Application of the United States, No. 13/512,438 was filed on May 29, 2012, which was a 371 National Phase filing of PCT/IB2010/055459, filed on November 26, 2010, which claimed priority to Italian Application No. TO2009A000932 filed on November 27, 2009. Said rights were recorded with the U.S. Patent and Trademark Office on November 5, 2012 under Reel 029262 / Frame 0145; and

WHEREAS, Determinants of Metabolism Research Laboratory S.r.l., an Italian company, having offices at Via Marconi 1, I-29015 Castel San Giovanni (PC), Italy is desirous of obtaining the entire right, title and interest in, to and under the said improvements and the said Patent of the United States; NOW, THEREFORE, BE IT KNOWN that for good and valuable consideration, the receipt of all of which is hereby acknowledged, the said Professional Dietetics S.r.l., has sold, assigned transferred and set over unto the said the said Determinants of Metabolism Research Laboratory S.r.l., its successors and assigns, the entire right, title and interest in and to the said invention, Letters Patent, and in and to any improvements, reissues, or extensions thereof that may be made or granted together with all claims for damages by reason of past infringement of said Letters Patent with the right to sue for and collect the same for its own use and behalf, and for the use and behalf of its successors, assigns or other legal representatives;

**TO HAVE AND TO HOLD** the same to the full end of the term or terms for which said Letters Patent has been granted, as fully and completely as the same might be held by Assignor had this assignment not been made.

**AND** the Commissioner of Patents and Trademarks is requested to issue the said Letters Patent, when granted, in accordance with this assignment.

*IN TESTIMONY WHEREOF*, I, Paolo Luca Maria GIORGETTI, Director, on behalf of **Professional Dietetics S.r.l.**, do hereby sign my hand and seal this 25th day of January 2013.

Professional Dietetics S.r.I. By: aolo Luca Ma Name: a Giorgetti

Namē: Naolo Luca Metua Giorg Title: Director

> PATENT REEL: 029744 FRAME: 0985

**RECORDED: 02/04/2013**