### PATENT ASSIGNMENT

### Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE: **NEW ASSIGNMENT** NATURE OF CONVEYANCE: **ASSIGNMENT** 

#### **CONVEYING PARTY DATA**

Name	Execution Date
Unigene Laboratories, Inc.	04/25/2013

#### **RECEIVING PARTY DATA**

Name:	Enteris BioPharma, Inc.
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City:	Chicago
State/Country:	ILLINOIS
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### PROPERTY NUMBERS Total: 24

Property Type	Number
Patent Number:	7445911
Patent Number:	8163871
Patent Number:	6103495
Patent Number:	6210925
Patent Number:	6627348
Patent Number:	6373250
Patent Number:	7968311
Patent Number:	8216822
Patent Number:	8227241
Patent Number:	5789234
Patent Number:	6086918
Patent Number:	6673574
Patent Number:	7316819
Patent Number:	8093207
Patent Number:	8377863
	PATENT

REEL: 030300 FRAME: 0538

**PATENT** 

Application Number:	13544228
Application Number:	11474159
Application Number:	13283055
Application Number:	13487784
Application Number:	13487856
Application Number:	12732081
Application Number:	61730799
Application Number:	61772927
Application Number:	61782701

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Signature:	/baw/
Date:	04/26/2013

#### Total Attachments: 9

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#### PATENT ASSIGNMENT

THIS PATENT ASSIGNMENT is made this 25th day of April, 2013, by and between Unigene Laboratories, Inc., a Delaware corporation ("Assignor"), in favor of Enteris BioPharma, Inc. ("Assignee").

WHEREAS, Assignor wishes to sell, transfer and assign, and Assignee wishes to assume and purchase all of Assignor's right, title and interest in and to the patents and patent applications listed on <u>Schedule A</u> attached hereto (collectively, "*Patents*").

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor has sold, assigned, transferred and set over, and does hereby sell, assign, transfer and set over, unto the said Assignee all of Assignor's right, title and interest in, to and under the inventions set forth in the Patents, the Patents and all divisionals, continuations, re-examinations, renewals, provisionals, continuations in part and reissues thereof, and all Letters Patent of the United States and countries foreign to the United States which may be granted thereon and all divisionals, continuations, re-examinations, renewals, provisionals, continuations in part and reissues thereof (and including, without limitation, all proceeds thereof and the rights to sue for past, present and future infringements), and all applications for Letters Patent which may hereafter be filed for said inventions and Patents in any country or countries foreign to the United States, and all Letters Patent which may be granted for said inventions and Patents in any country or countries foreign to the United States, and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to record the Assignee as the owner of all such Patents and issue all Letters Patent for said Patents to the said Assignee, as assignee of the Patents, for the sole use of the Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

Assignor further agrees without further consideration to execute such further assignments and other lawful documents as the Assignee may from time to time reasonably request to effect fully this Assignment and to permit the Assignee to be duly recorded as the registered owner of the Patents in the countries in which such Patents are currently registered and all other rights hereby conveyed.

[Signature Page Follows]

IN WITNESS WHEREOF, the undersigned has caused this Assignment to be executed and delivered as of the date first written above.

UNIGENE LABORATORIES, INC.

By: Victory Park Management, its attorney-in-fact

Name: Matthew Ray

Title: Manager

Whene E. Pappalaudo
Notary Public

My Commission Expires 1/4/2016

# SCHEDULE A

### Issued U.S. Patents

Patent Name	Country	Issue Date	Patent Number
Enzymatic Reactions in the Presence of Keto Acids (AKA: KETO ACIDS)	United States	11/04/08	7,445,911
Enzymatic Reactions in the Presence of Keto Acids (AKA: KETO ACIDS)	United States	4/24/12	8,163,871
Direct Expression of Peptides into Culture Media (AKA: DIRECT EXP-I)	United States	8/15/00	6,103,495
Direct Expression of Peptides into Culture Media (AKA: DIRECT EXP-I)	United States	4/3/01	6,210,925
Direct Expression of Peptides into Culture Media (AKA: DIRECT EXP-I)	United States	9/30/03	6,627,348
Direct Expression of Peptides into Culture Media (AKA: DIRECT EXP- I)	United States	5/18/04	6,737,250
Direct Expression of Peptides into Culture Media (AKA: DIRECT EXP-I)	United States	6/28/11	7,968,311
Bacterial Host Cell for the Direct Expression of Peptides (AKA: HOST)	United States	7/10/12	8,216,822
Bacterial Host Cell for the Direct Expression of Peptides (AKA: HOST)	United States	7/24/12	8,227,241
Expression Systems for Amidating Enzyme (AKA: PAM '89)	United States	8/4/98	5,789,234
Oral Peptide Pharmaceutical Products (AKA: ORAL PEP-I)	United States	7/11/00	6,086,918
Oral Delivery of Peptides Using Enzyme-Cleavable Membrane Translocators (AKA: ORAL-PEP- TRANS)	United States	1/6/04	6,673,574
Oral Peptide Pharmaceutical Dosage Form and Method of Production	United States	1/8/08	7,316,819

Patent Name	Country	Issue Date	Patent Number
(AKA: ORAL-PEP-PFIZER)			
Fast-Acting Oral Peptide Pharmaceutical Products (AKA: FAST ACTING)	United States	1/10/12	8,093,207
Peptide Pharmaceutical for Oral Delivery (AKA: COATED ACID)	United States	2/19/13	8,377,863

# **U.S. Patent Applications**

<b>Name</b>	Country	Filing Date	<b>Application Number</b>
Bacterial Host Cell for the Direct Expression of Peptides (AKA: HOST)	United States	7/9/12	13/544,228
Cell Lines for Expressing Enzyme Useful in the Preparation of Amidated Products (AKA: M CLONE)	United States	6/23/06	11/474,159
Peptide Pharmaceutical for Oral Delivery (AKA: COATED ACID)	United States	10/27/11	13/283,055
Peptide Pharmaceutical for Oral Delivery (AKA: COATED ACID)	United States	6/4/12	13/487,784
Peptide Pharmaceutical for Oral Delivery (AKA: COATED ACID)	United States	6/4/12	13/487,856
Peptide Pharmaceutical for Nasal Delivery (AKA: NAS PEP)	United States	3/25/10	12/732,081
Use of Histidine to Enhance to Solubility of Proteins (AKA: HISTIDINE)	United States	11/28/12	61/730,799
Pharmaceuticals for Oral Delivery (AKA: CHELATING AGENT)	United States	3/5/13	61/772,927
Pharmaceuticals for Oral Delivery (AKA: CYCLODEXTRIN)	United States	3/14/13	61/782,701

# **Foreign Issued Patents**

Patent Name	<u>Jurisdiction</u>	Issue Date	Patent Number
Peptide Pharmaceutical for Oral Delivery (AKA: COATED ACID)	Australia	1/19/12	2008260615
Peptide Pharmaceutical for Oral Delivery (AKA: COATED ACID)	Canada	11/27/12	2,689,358
Direct Expression of Peptides into Culture Media (AKA: DIRECT EXP- I)	Australia	4/4/02	742270
Direct Expression of Peptides into Culture Media (AKA: DIRECT EXP- I)	Australia	3/30/06	781978
Direct Expression of Peptides into Culture Media (AKA: DIRECT EXP- I)	Australia	8/14/08	2005201901
Direct Expression of Peptides into Culture Media (AKA: DIRECT EXP- I)	Canada	10/4/11	2,285,658
Direct Expression of Peptides into Culture Media (AKA: DIRECT EXP- I)	Japan	1/20/12	4907751
Direct Expression of Peptides into Culture Media (AKA: DIRECT EXP-I)	Russia	12/10/03	2218407
Direct Expression of Peptides into Culture Media (AKA: DIRECT EXP-I)	Europe	10/13/10	EP1005526
Direct Expression of Peptides into Culture Media (AKA: DIRECT EXP-I)	Europe	8/31/11	EP09006784.4
Fast-Acting Oral Peptide Pharmaceutical Products (AKA: FAST ACTING)	Australia	2/14/10	2006326580
Fast-Acting Oral Peptide Pharmaceutical Products (AKA: FAST ACTING)	Canada	5/8/12	2,631,841
Fast-Acting Oral Peptide Pharmaceutical Products (AKA: FAST ACTING)	China	4/18/12	ZL 2006 8 0046022.5
Bacterial Host Cell for the Direct	Canada	1/29/13	2557295

Patent Name	<u>Jurisdiction</u>	<u>Issue Date</u>	Patent Number
Expression of Peptides (AKA: HOST)			
Bacterial Host Cell for the Direct Expression of Peptides (AKA: HOST)	China	7/4/12	ZL 200580007801.X
Enzymatic Reactions in the Presence of Keto Acids (AKA: KETO ACIDS)	Australia	9/23/10	2005309749
Enzymatic Reactions in the Presence of Keto Acids (AKA: KETO ACIDS)	China	11/16/11	ZL200580040163.1
Enzymatic Reactions in the Presence of Keto Acids (AKA: KETO ACIDS)	Japan	12/22/11	4891256
Cell Lines for Expressing Enzyme Useful in the Preparation of Amidated Products (AKA: M CLONE)	Australia	11/24/11	2006261909
Cell Lines for Expressing Enzyme Useful in the Preparation of Amidated Products (AKA: M CLONE)	Japan	11/4/11	4856177
Oral Delivery of Peptides (AKA: ORAL AMIDATED)	Australia	11/12/09	2004206949
Oral Delivery of Peptides (AKA: ORAL AMIDATED)	China	7/8/09	ZL200480002372
Oral Peptide Pharmaceutical Products (AKA: ORAL PEP-I)	Canada	4/9/02	2249744
Oral Peptide Pharmaceutical Products (AKA: ORAL PEP-I)	China	4/20/05	ZL97193029.5
Oral Peptide Pharmaceutical Products (AKA: ORAL PEP-I)	Israel	3/11/07	125,894
Oral Peptide Pharmaceutical Products (AKA: ORAL PEP-I)	Japan	4/30/04	3549542
Oral Peptide Pharmaceutical Products (AKA: ORAL PEP-I)	Korea	6/22/05	0498646
Oral Peptide Pharmaceutical Products (AKA: ORAL PEP-I)	New Zealand	9/7/00	331576
Oral Peptide Pharmaceutical Products (AKA: ORAL PEP-I)	Norway	10/9/06	322443
Oral Peptide Pharmaceutical Products (AKA: ORAL PEP-I)	Russia	2/20/03	2198677
Oral Peptide Pharmaceutical Products	Europe	12/15/04	EP0929270

Patent Name	<u>Jurisdiction</u>	<u>Issue Date</u>	Patent Number
(AKA: ORAL PEP-I)			
Oral Delivery of Peptides Using Enzyme-Cleavable Membrane Translocators (AKA: ORAL-PEP- TRANS)	Australia	8/30/07	2002227060
Oral Delivery of Peptides Using Enzyme-Cleavable Membrane Translocators (AKA: ORAL-PEP- TRANS)	Canada	9/28/10	2,430,366
Oral Delivery of Peptides Using Enzyme-Cleavable Membrane Translocators (AKA: ORAL-PEP- TRANS)	Japan	3/19/10	4476544
Oral Peptide Pharmaceutical Dosage Form and Method of Production (AKA: ORAL-PEP-PFIZER)	Canada	5/26/09	2,440,578
Oral Peptide Pharmaceutical Dosage Form and Method of Production (AKA: ORAL-PEP-PFIZER)	New Zealand	12/8/05	527844
Expression Systems for Amidating Enzyme	Canada	6/27/00	1,341,037
Expression Systems for Amidating Enzyme	Korea	1/23/98	136611

# **Foreign Patent Applications**

<u>Name</u>	<u>Jurisdiction</u>	<b>Application Number</b>
Peptide Pharmaceutical for Oral Delivery (AKA: COATED ACID)	China	200880018288.8
Peptide Pharmaceutical for Oral Delivery (AKA: COATED ACID)	Europe	08767936.1
Peptide Pharmaceutical for Oral Delivery (AKA: COATED ACID)	Japan	2010510341
Direct Expression of Peptides into Culture Media (AKA: DIRECT EXP- I)	Japan	2011-245398
Fast-Acting Oral Peptide Pharmaceutical Products (AKA: FAST ACTING)	Europe	06839273.7

<u>Name</u>	<u>Jurisdiction</u>	<b>Application Number</b>
Fast-Acting Oral Peptide Pharmaceutical Products (AKA: FAST ACTING)	Japan	544567/2008
Bacterial Host Cell for the Direct Expression of Peptides (AKA: HOST)	China	201110107199.4
Bacterial Host Cell for the Direct Expression of Peptides (AKA: HOST)	Europe	05734021.8
Bacterial Host Cell for the Direct Expression of Peptides (AKA: HOST)	Europe	09156191.0
Bacterial Host Cell for the Direct Expression of Peptides (AKA: HOST)	Japan	5029792007
Bacterial Host Cell for the Direct Expression of Peptides (AKA: HOST)	Japan	16525/2010
Enzymatic Reactions in the Presence of Keto Acids (AKA: KETO ACIDS)	Canada	2,586,128
Enzymatic Reactions in the Presence of Keto Acids (AKA: KETO ACIDS)	Europe	05824481.5
Cell Lines for Expressing Enzyme Useful in the Preparation of Amidated Products (AKA: M CLONE)	Canada	2,613,471
Cell Lines for Expressing Enzyme Useful in the Preparation of Amidated Products (AKA: M CLONE)	China	200680030902.3
Cell Lines for Expressing Enzyme Useful in the Preparation of Amidated Products (AKA: M CLONE)	Japan	094071/2011
Cell Lines for Expressing Enzyme Useful in the Preparation of Amidated Products (AKA: M CLONE)	Japan	201445/2011
Cell Lines for Expressing Enzyme Useful in the Preparation of Amidated Products (AKA: M CLONE)	Europe	06785535.3
Peptide Pharmaceutical for Nasal Delivery (AKA: NAS PEP)	Australia	2010232756

<u>Name</u>	<u>Jurisdiction</u>	Application Number
Peptide Pharmaceutical for Nasal Delivery (AKA: NAS PEP)	Canada	2,754,593
Peptide Pharmaceutical for Nasal Delivery (AKA: NAS PEP)	China	201080015150.X
Peptide Pharmaceutical for Nasal Delivery (AKA: NAS PEP)	Europe	10759290.9
Peptide Pharmaceutical for Nasal Delivery (AKA: NAS PEP)	Japan	TBD
Peptide Pharmaceutical for Nasal Delivery (AKA: NAS PEP)	Korea	2011-7023101
Oral Delivery of Peptides (AKA: ORAL AMIDATED)	Europe	04704114.0
Oral Delivery of Peptides Using Enzyme-Cleavable Membrane Translocators (AKA: ORAL-PEP- TRANS)	Europe	019960210.0
Oral Peptide Pharmaceutical Dosage Form and Method of Production (AKA: ORAL-PEP-PFIZER)	Japan	2010-127116

PATENT REEL: 030300 FRAME: 0548

RECORDED: 04/26/2013

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