

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3891125

|                                                                                                                                                                                                 |                                   |                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------|
| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | NEW ASSIGNMENT                    |                       |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | ASSIGNMENT                        |                       |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                                   |                       |
|                                                                                                                                                                                                 | <b>Name</b>                       | <b>Execution Date</b> |
|                                                                                                                                                                                                 | ELCELYX THERAPEUTICS, INC.        | 12/01/2014            |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                                   |                       |
| <b>Name:</b>                                                                                                                                                                                    | AMBRA BIOHEALTH LLC               |                       |
| <b>Street Address:</b>                                                                                                                                                                          | 11975 EL CAMINO REAL              |                       |
| <b>Internal Address:</b>                                                                                                                                                                        | SUITE 305                         |                       |
| <b>City:</b>                                                                                                                                                                                    | SAN DIEGO                         |                       |
| <b>State/Country:</b>                                                                                                                                                                           | CALIFORNIA                        |                       |
| <b>Postal Code:</b>                                                                                                                                                                             | 92130                             |                       |
| <b>PROPERTY NUMBERS Total: 6</b>                                                                                                                                                                |                                   |                       |
| <b>Property Type</b>                                                                                                                                                                            | <b>Number</b>                     |                       |
| <b>Patent Number:</b>                                                                                                                                                                           | 8828953                           |                       |
| <b>Application Number:</b>                                                                                                                                                                      | 61170657                          |                       |
| <b>Application Number:</b>                                                                                                                                                                      | 12763926                          |                       |
| <b>Application Number:</b>                                                                                                                                                                      | 14480399                          |                       |
| <b>Application Number:</b>                                                                                                                                                                      | 61394716                          |                       |
| <b>Application Number:</b>                                                                                                                                                                      | 13276177                          |                       |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                                   |                       |
| <b>Fax Number:</b>                                                                                                                                                                              | (415)471-0034                     |                       |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> |                                   |                       |
| <b>Email:</b>                                                                                                                                                                                   | sf.docketing@aporter.com          |                       |
| <b>Correspondent Name:</b>                                                                                                                                                                      | TODD A. LORENZ                    |                       |
| <b>Address Line 1:</b>                                                                                                                                                                          | 3 EMBARCADERO CENTER              |                       |
| <b>Address Line 2:</b>                                                                                                                                                                          | ARNOLD & PORTER, FLOOR 10         |                       |
| <b>Address Line 4:</b>                                                                                                                                                                          | SAN FRANCISCO, CALIFORNIA 94111   |                       |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | 2701 & 2702                       |                       |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | TODD A. LORENZ, REG. NO. 39,754   |                       |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /Todd A. Lorenz, Reg. No. 39,754/ |                       |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 05/26/2016                        |                       |

**Total Attachments: 13**

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source=Patent Assignment (December 1, 2014) - signed#page13.tif

**PATENT ASSIGNMENT**

This Patent Assignment (this "Assignment") is made from Elcelyx Therapeutics, Inc., a Delaware corporation (the "Assignor"), to Ambra BioHealth LLC, a Delaware limited liability company (the "Assignee").

The Assignor desires to assign to the Assignee all of the Assignor's rights, title and interests in and to (a) the patents and patent applications set forth on Exhibit E to the Asset Purchase Agreement entered into between the Assignor and the Assignee as of December 1, 2014 (the "Agreement") and further detailed on Exhibit A attached hereto and (b) any substitutions, extensions, additions, reissues, reexaminations, renewals, divisions, continuations, continuations-in-part, or supplementary protection certificates of any of the patents described in the preceding clause (a), and all foreign counterparts of any of the foregoing (collectively, the "Patents").

For good and valuable consideration set forth in the Agreement, the receipt and sufficiency of which are hereby acknowledged, the Assignor does hereby sell, transfer, convey, assign and deliver to the Assignee all of the Assignor's rights, title and interests in and to the Patents. The Assignor authorizes the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all such patents and patent applications to the Assignee, as assignee thereof, or otherwise as the Assignee may direct. Assignor and its successor or assigns shall execute and deliver to Assignee any necessary further documents or instruments and shall take any actions which may be necessary to effect the foregoing assignment or the recordation or perfection thereof, without further compensation to Assignor.

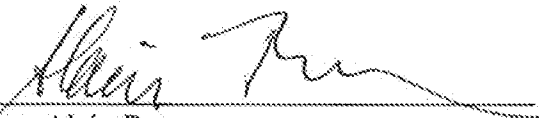
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IN WITNESS WHEREOF, the undersigned has caused this Assignment to be executed as of the date written below.

Dated: December 1, 2014

ASSIGNOR:

ELCELYX THERAPEUTICS, INC.  
a Delaware corporation

By: 

Name: Alain Baron

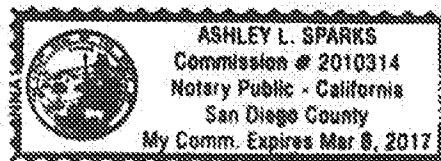
Title: President and CEO

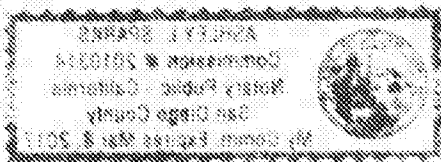
State of California County of San Diego

Before me, Ashley Sparks Notary Public on this day personally appeared Alain Baron, known to me (or proved to me on the oath of \_\_\_\_\_) or through (description of identity card or other document) to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 1<sup>st</sup> day of December, 2014.

  
(Personalized Seal) Notary Public's Signature





**ACKNOWLEDGED AND ACCEPTED:**

**ASSIGNEE:**

**AMBRA BIOHEALTH LLC**

a Delaware limited liability company

By: William Trebasky

Name: William Trebasky

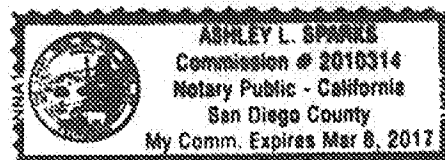
Title: Managing Member

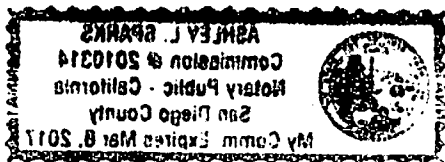
State of California County of San Diego

Before me, Ashley Sparks Notary Public, on this day personally appeared William Trebasky, known to me for proved to me on the oath of \_\_\_\_\_ or through (description of identity card or other document) to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 1<sup>st</sup> day of December, 2014.

Ashley Sparks  
(Personalized Seal) Notary Public's Signature





**Exhibit A**

| Case Ref.     | File Reference | Family | Country                   | Application No.   | Application Date | Title                                        | Case Status              | Issue Information and Status Notes |
|---------------|----------------|--------|---------------------------|-------------------|------------------|----------------------------------------------|--------------------------|------------------------------------|
| 0027436.00119 | 2701/US/CIP/2  | 2701   | United States of America  | 14/480,399        | 9/8/2014         | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                  |                                    |
| 0027436.00003 | 2701/US/2      | 2701   | United States of America  | 12/763,926        | 4/20/2010        | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                  |                                    |
| 0027436.00002 | 2701/US        | 2701   | United States of America  | 61/170,657        | 4/20/2009        | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Expired at end of life   |                                    |
| 0027436.00004 | 2701/US/CIP    | 2701   | United States of America  | 12/907,909        | 10/19/2010       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Granted                  | Patent No. 8,828,953 issued 9/9/14 |
| 0027436.00007 | 2701/AR        | 2701   | Argentina                 | 20100101302       | 4/20/2010        | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                  |                                    |
| 0027436.00008 | 2701/AR/CIP    | 2701   | Argentina                 | 2010-0103817      | 4/20/2010        | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                  |                                    |
| 0027436.00006 | 2701/PCT/CIP   | 2701   | Patent Cooperation Treaty | PCT/US2010/053257 | 10/19/2010       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | National Phase Completed |                                    |
| 0027436.00005 | 2701/PCT       | 2701   | Patent Cooperation Treaty | PCT/US2010/031793 | 4/20/2010        | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | National Phase Completed |                                    |
| 0027436.00014 | 2701/PCT/EP    | 2701   | European Patent Office    | 10767661.1        | 4/20/2010        | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                  |                                    |
| 0027436.00011 | 2701/PCT/CA    | 2701   | Canada                    | 2,758,976         | 4/20/2010        | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Application allowed      | Grant fee due 11/20/14             |

**PATENT**

**REEL: 038727 FRAME: 0931**

| Case Ref.     | File Reference   | Family | Country                      | Application No. | Application Date | Title                                        | Case Status | Issue Information and Status Notes                                    |
|---------------|------------------|--------|------------------------------|-----------------|------------------|----------------------------------------------|-------------|-----------------------------------------------------------------------|
| 0027436.00009 | 2701/PCT/AU      | 2701   | Australia                    | 2010239311      | 4/20/2010        | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Granted     | Patent No. 2010239311 issued 9/4/14                                   |
| 0027436.00016 | 2701/PCT/JP      | 2701   | Japan                        | 2012-507328     | 4/20/2010        | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending     |                                                                       |
| 0027436.00012 | 2701/PCT/CN      | 2701   | China                        | 201080028729.X  | 4/20/2010        | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending     |                                                                       |
| 0027436.00013 | 2701/PCT/EA      | 2701   | Eurasian Patent Organization | 201101524       | 4/20/2010        | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending     |                                                                       |
| 0027436.00010 | 2701/PCT/BR      | 2701   | Brazil                       | PI1013956-0     | 4/20/2010        | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending     |                                                                       |
| 0027436.00015 | 2701/PCT/IN      | 2701   | India                        | 904S/DELNP/2011 | 4/20/2010        | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending     |                                                                       |
| 0027436.00041 | 2701/PCT/EP/H K  | 2701   | Hong Kong                    | 12108430.7      | 4/20/2010        | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending     |                                                                       |
| 0027436.00042 | 2701/PCT/CIP/A U | 2701   | Australia                    | 2010351565      | 10/19/2010       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending     |                                                                       |
| 0027436.00043 | 2701/PCT/CIP/B R | 2701   | Brazil                       | 1120120268384   | 10/19/2010       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending     |                                                                       |
| 0027436.00044 | 2701/PCT/CIP/C A | 2701   | Canada                       | 2,800,470       | 10/19/2010       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Suspended   | Renewal fee due 10/19/14 not paid. Can be reinstated within one year. |
| 0027436.00045 | 2701/PCT/CIP/C N | 2701   | China                        | 201080067558.1  | 10/19/2010       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending     |                                                                       |
| 0027436.00046 | 2701/PCT/CIP/E A | 2701   | Eurasian Patent Organization | 201270767       | 10/19/2010       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending     |                                                                       |

DBT: 81351494.5  
602406043v7

| Case Ref.     | File Reference      | Family | Country                | Application No.  | Application Date | Title                                        | Case Status            | Issue Information and Status Notes                                                                                       |
|---------------|---------------------|--------|------------------------|------------------|------------------|----------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 0027436.00047 | 2701/PCT/CIP/E<br>P | 2701   | European Patent Office | 10850398.6       | 10/19/2010       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                |                                                                                                                          |
| 0027436.00049 | 2701/PCT/CIP/I<br>N | 2701   | India                  | 9147/DELNP/2012  | 10/19/2010       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                |                                                                                                                          |
| 0027436.00048 | 2701/PCT/CIP/IL     | 2701   | Israel                 | 222586           | 10/19/2010       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                |                                                                                                                          |
| 0027436.00050 | 2701/PCT/CIP/J<br>P | 2701   | Japan                  | 2013-506126      | 10/19/2010       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                |                                                                                                                          |
| 0027436.00052 | 2701/PCT/CIP/M<br>X | 2701   | Mexico                 | MX/a/2012/012157 | 10/19/2010       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                |                                                                                                                          |
| 0027436.00053 | 2701/PCT/CIP/N<br>Z | 2701   | New Zealand            | 603163           | 10/19/2010       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                | 11/24/14 extended acceptance deadline                                                                                    |
| 0027436.00051 | 2701/PCT/CIP/K<br>R | 2701   | Republic of Korea      | 2012-7030417     | 10/19/2010       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                |                                                                                                                          |
| 0027436.00054 | 2701/PCT/CIP/S<br>G | 2701   | Singapore              | 201207755-8      | 10/19/2010       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Suspended              | goes abandoned 4/20/2015 OR via option IIC can rely on corresponding granted or allowed claims. (2701/US/CIP is granted) |
| 0027436.00055 | 2701/PCT/CIP/Z<br>A | 2701   | South Africa           | 2012/08277       | 10/19/2010       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Application allowed    | awaiting grant notification                                                                                              |
| 0027436.00062 | 2702/PCT/BR         | 2702   | Brazil                 | 1120130096357    | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Expired                | Request for examination deadline 10/18/14 has passed                                                                     |
| 0027436.00063 | 2702/PCT/CA         | 2702   | Canada                 | 2,815,024        | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                |                                                                                                                          |
| 0027436.00064 | 2702/PCT/CL         | 2702   | Chile                  | 1085-2013        | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Oppn: Opposition filed | response to opposition not filed, but still pending                                                                      |

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| Case Ref.     | File Reference  | Family | Country                      | Application No.    | Application Date | Title                                        | Case Status              | Issue Information and Status Notes                   |
|---------------|-----------------|--------|------------------------------|--------------------|------------------|----------------------------------------------|--------------------------|------------------------------------------------------|
| 0027436.00065 | 2702/PCT/CN     | 2702   | China                        | 201180061007.9     | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                  |                                                      |
| 0027436.00066 | 2702/PCT/EA     | 2702   | Eurasian Patent Organization | 201370099          | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                  |                                                      |
| 0027436.00068 | 2702/PCT/IL     | 2702   | Israel                       | 225845             | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                  |                                                      |
| 0027436.00070 | 2702/PCT/JP     | 2702   | Japan                        | 2013-535013        | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Expired                  | Request for examination deadline 10/18/14 has passed |
| 0027436.00072 | 2702/PCT/MX     | 2702   | Mexico                       | MX/a/2013/0043 64  | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                  |                                                      |
| 0027436.00074 | 2702/PCT/SG     | 2702   | Singapore                    | 201302805-3        | 10/19/2010       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                  |                                                      |
| 0027436.00077 | 2702/US         | 2702   | United States of America     | 61/394,716         | 10/19/2010       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Expired at end of life   |                                                      |
| 0027436.00078 | 2702/US/2       | 2702   | United States of America     | 13/276,177         | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                  | Notice of Appeal filed 9/11/14                       |
| 0027436.00079 | 2702/PCT        | 2702   | Patent Cooperation Treaty    | PCT/US2011/05 6766 | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | National Phase Completed |                                                      |
| 0027436.00087 | 2702/PCT/EP     | 2702   | European Patent Office       | 11835018.0         | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                  |                                                      |
| 0027436.00118 | 2702/PCT/EP/H K | 2702   | Hong Kong                    | 14102037.5         | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                  |                                                      |
| 0027436.00075 | 2702/PCT/ZA     | 2702   | South Africa                 | 2013/03335         | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                  |                                                      |
| 0027436.00071 | 2702/PCT/KR     | 2702   | Republic of Korea            | 2013-7013695       | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                  |                                                      |

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6/24/0045v7

| Case Ref.     | File Reference | Family | Country                   | Application No.   | Application Date | Title                                        | Case Status              | Issue Information and Status Notes                                                       |
|---------------|----------------|--------|---------------------------|-------------------|------------------|----------------------------------------------|--------------------------|------------------------------------------------------------------------------------------|
| 0027436.00069 | 2702/PCT/IN    | 2702   | India                     | 4111/DELNP/2013   | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Expired                  | Request for examination deadline 10/19/14 has passed                                     |
| 0027436.00081 | 2702/PCT/AU    | 2702   | Australia                 | 2011317140        | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                  |                                                                                          |
| 0027436.00073 | 2702/PCT/NZ    | 2702   | New Zealand               | 610364            | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                  |                                                                                          |
| 0027436.00080 | 2703/PCT/EP    | 2703   | European Patent Office    | 11835020.6        | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                  | 2/22/15 Non-extendable deadline to response to EESR                                      |
| 0027436.00076 | 2703/PCT/AU    | 2703   | Australia                 | 2011317143        | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                  |                                                                                          |
| 0027436.00085 | 2703/PCT/ZA    | 2703   | South Africa              | 2013/03334        | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                  |                                                                                          |
| 0027436.00082 | 2703/PCT/IN    | 2703   | India                     | 4151/DELNP/2013   | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Expired                  | Request for examination deadline 10/19/14 has passed                                     |
| 0027436.00020 | 2703/US        | 2703   | United States of America  | 61/394,720        | 10/19/2010       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Expired at end of life   |                                                                                          |
| 0027436.00021 | 2703/PCT       | 2703   | Patent Cooperation Treaty | PCT/US2011/056769 | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | National Phase Completed |                                                                                          |
| 0027436.00084 | 2703/PCT/US    | 2703   | United States of America  | 13/880,717        | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                  | Instructed not to respond to Restriction Requirement due 1/17/15 (extendable to 5/17/15) |
| 0027436.00077 | 2703/PCT/BR    | 2703   | Brazil                    | 11 2013 0096365   | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Expired                  | Request for examination deadline 10/18/14 has passed                                     |
| 0027436.00078 | 2703/PCT/CA    | 2703   | Canada                    | 2,815,025         | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Expired                  | Renewal fee due 10/18/14 not paid                                                        |

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| Case Ref.     | File Reference | Family | Country                   | Application No.    | Application Date | Title                                        | Case Status              | Issue Information and Status Notes                                                        |
|---------------|----------------|--------|---------------------------|--------------------|------------------|----------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------|
| 0027436.00079 | 2703/PCT/CN    | 2703   | China                     | 201180061016.8     | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Expired                  | Restoration fee due 10/5/14 not paid                                                      |
| 0027436.00081 | 2703/PCT/IL    | 2703   | Israel                    | 225846             | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                  |                                                                                           |
| 0027436.00083 | 2703/PCT/JP    | 2703   | Japan                     | 2013-535015        | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Expired                  | Request for examination deadline 10/18/14 has passed                                      |
| 0027436.00023 | 2704/US        | 2704   | United States of America  | 61/394,727         | 10/19/2010       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Expired at end of life   |                                                                                           |
| 0027436.00024 | 2704/PCT       | 2704   | Patent Cooperation Treaty | PCT/US2011/05 6770 | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | National Phase Completed |                                                                                           |
| 0027436.00087 | 2704/PCT/US    | 2704   | United States of America  | 13/880,718         | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Expired                  | Response to office action due 11/30/14 not filed                                          |
| 0027436.00086 | 2704/PCT/EP    | 2704   | European Patent Office    | 11835021.4         | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Expired                  | Rule 161 deadline passed on 11/02/14                                                      |
| 0027436.00088 | 2705/PCT/EP    | 2705   | European Patent Office    | 11835022.2         | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                  | 2/22/15 Non-extendable deadline to response to EESR                                       |
| 0027436.00089 | 2705/PCT/US    | 2705   | United States of America  | 13/880,719         | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Pending                  | Instructed not to respond to Restriction Requirement due 11/26/14 (extendable to 3/26/15) |
| 0027436.00025 | 2705/US        | 2705   | United States of America  | 61/394,732         | 10/19/2010       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Expired at end of life   |                                                                                           |
| 0027436.00026 | 2705/PCT       | 2705   | Patent Cooperation Treaty | PCT/US2011/05 6771 | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | National Phase Completed |                                                                                           |
| 0027436.00027 | 2706/US        | 2706   | United States of America  | 61/405,104         | 10/20/2010       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES | Expired at end of life   |                                                                                           |

DB1/ 81351494.5  
602406043v7

| Case Ref.     | File Reference | Family | Country                   | Application No.    | Application Date | Title                                                                  | Case Status              | Issue Information and Status Notes                              |
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| 0027436.00028 | 2706/PCT       | 2706   | Patent Cooperation Treaty | PCT/US2011/05 6773 | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES                           | National Phase Completed |                                                                 |
| 0027436.00093 | 2706/PCT/JP    | 2706   | Japan                     | 2013-535016        | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES                           | Expired                  | request for exam deadline passed                                |
| 0027436.00090 | 2706/PCT/US    | 2706   | United States of America  | 13/880,720         | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES                           | Pending                  | Awaiting examination, no deadlines                              |
| 0027436.00092 | 2706/PCT/EP    | 2706   | European Patent Office    | 11835024.8         | 10/18/2011       | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES                           | Pending                  | 2/22/15 Non-extendable deadline to response to EESR             |
| 0027436.00022 | 2712/US        | 2712   | United States of America  | 61/635,132         | 4/18/2012        | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES                           | Expired at end of life   |                                                                 |
| 0027436.00091 | 2712/PCT       | 2712   | Patent Cooperation Treaty | PCT/US2013/37 246  | 4/18/2013        | CHEMOSENSORY RECEPTOR LIGAND-BASED THERAPIES                           | Expired                  | 30-Mo National phase was due 10/18/14; 31-Mo countries 11/18/14 |
| 0027436.00056 | 2800/US        | 2800   | United States of America  | 61/723,737         | 11/7/2012        | GRAS ENTERIC COATING FORMULATIONS AND METHODS OF MAKING AND USING SAME | Expired at end of life   |                                                                 |
| 0027436.00057 | 2800/US/2      | 2800   | United States of America  | 61/738,947         | 12/18/2012       | GRAS ENTERIC COATING FORMULATIONS AND METHODS OF MAKING AND USING SAME | Expired at end of life   |                                                                 |
| 0027436.00116 | 2800/US/3      | 2800   | United States of America  | 14/074,646         | 11/7/2013        | GRAS ENTERIC COATING FORMULATIONS AND METHODS OF MAKING AND USING SAME | Pending                  |                                                                 |

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| Case Ref.     | File Reference | Family | Country                   | Application No.  | Application Date | Title                                                                  | Case Status | Issue Information and Status Notes                          |
|---------------|----------------|--------|---------------------------|------------------|------------------|------------------------------------------------------------------------|-------------|-------------------------------------------------------------|
| 0027436.00117 | 2800/PCT       | 2800   | Patent Cooperation Treaty | PCT/US2013/06906 | 11/7/2013        | GRAS ENTERIC COATING FORMULATIONS AND METHODS OF MAKING AND USING SAME | Pending     | 30-Mo National phase due 05/07/15; 31-Mo countries 05/07/15 |

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