
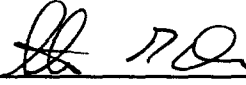


<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p>1/21/04</p> <p>RECOI</p> </div> <div style="text-align: center;"> <p>01-23-2004</p>  <p>102652544</p> </div> <div style="text-align: center;"> <p>IEET</p> </div> </div>	
<p style="text-align: center;">To the Director of the U.S. Patent and Trademark Office</p>	
<p>1. Name of conveying party(ies)</p> <p>A) Christopher M. Mapes B) Pierre-Yves Michellys C) Marcus F. Boehm</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies)</p> <p>Name: <u>Ligand Pharmaceuticals Incorporated</u></p> <p>Internal Address: _____</p> <p>Street Address: <u>10275 Science Center Drive</u></p> <p>City: <u>San Diego</u> State: <u>CA</u> ZIP: <u>92121</u></p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger</p> <p><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name</p> <p><input type="checkbox"/> Other _____</p> <p>Execution Date: <u>A) 01/07/04, B) 12/12/03, C) 01/07/04</u></p>	<p>4. Application number(s) or patent number(s):</p> <p>If this document is being filed together with a new application, the execution date of the application is: _____</p> <div style="display: flex;"> <div style="width: 50%;"> <p>A. Patent Application No.(s)</p> <p><u>10/471,330</u></p> </div> <div style="width: 50%;"> <p>B. Patent No.(s)</p> </div> </div> <p style="text-align: center;">Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <u>Steven G. Davis, Esq.</u></p> <p>Internal Address: <u>Hamilton, Brook, Smith & Reynolds, P.C.</u></p> <p>Street Address: <u>530 Virginia Road, P.O. Box 9133</u></p> <p>City: <u>Concord</u> State: <u>MA</u> ZIP: <u>01742-9133</u></p>	<p>6. Total number of applications and patents involved: <u>[1]</u></p> <p>7. Total Fee (37 C.F.R. 3.41)..... \$ <u>40</u></p> <p><input checked="" type="checkbox"/> Enclosed</p> <p><input checked="" type="checkbox"/> Authorized to charge any deficiencies or credit any overpayment to deposit account</p> <p><input type="checkbox"/> Authorization to charge deposit account number 08-0380</p> <p>Attach a copy of this page if paying by deposit account and filing via mail.</p> <p>Do not attach a copy of this page if paying by deposit account and filing via facsimile.</p>
<p>DO NOT USE THIS SPACE</p>	
<p>8. Statement and signature.</p> <p><i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i></p> <div style="display: flex; justify-content: space-between; align-items: flex-end; margin-top: 20px;"> <div style="width: 30%;"> <p><u>Steven G. Davis</u></p> <p>Name of Person Signing</p> </div> <div style="width: 30%; text-align: center;">  <p>Signature</p> </div> <div style="width: 30%; text-align: center;"> <p><u>January 16 2004</u></p> <p>Date</p> </div> </div> <p style="text-align: right; margin-top: 10px;">Total number of pages including cover sheet, attachments, and document: <u>[10]</u></p>	

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Multi-JointASSIGNMENT

WHEREAS, we, **Christopher M. Mapes, Pierre-Yves Michellys, and Marcus F. Boehm**, together with co-inventor(s) **Kevin Matthew Gardinier, Douglas Linn Gernert, Timothy Allan Crese, and David Andrew Neel**, have invented a certain improvement in **Retinoid X Receptor Modulators** described in an application for Letters Patent of the United States,

- ☐ the specification of which is being executed on even date herewith and is about to be filed in the United States Patent Office (*use for 37 CFR §1.53(b) filings only*);
- ☐ the specification of which was filed on ☐ as United States Application No. ☐;
- ☒ the specification of which is the United States National Stage of International Application No. **PCT/US02/08292**, filed on **March 14, 2002** and assigned United States Application No. **10/471,330** (*use for 35 USC §371 filings only*);
- ☐ which was patented under United States Patent No. ☐ on ☐.

WHEREAS, **Ligand Pharmaceuticals Incorporated** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Delaware**, and having a usual place of business at **10275 Science Center Drive, San Diego, California 92121** desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with our entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its

successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

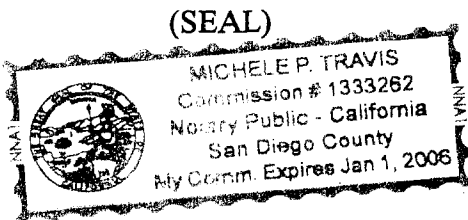
AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: Christopher M. Mapes
Christopher M. Mapes

State/Commonwealth
of California
County of San Diego

Then personally appeared before me the above-named **Christopher M. Mapes** and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 7th day of January, 20 04.



Michele P. Travis Notary Public
Michele P. Travis (print name)
My Commission expires 01/01/06

Inventor's Signature: _____

Pierre-Yves Michellys

State/Commonwealth

of _____

County of _____

Then personally appeared before me the above-named **Pierre-Yves Michellys** and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this _____ day of _____, 20____.

(SEAL)

Notary Public

(print name)

My Commission expires ____/____/____

Inventor's Signature: _____

Marcus F. Boehm

State/Commonwealth

of _____

County of _____

Then personally appeared before me the above-named **Marcus F. Boehm** and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this _____ day of _____, 20____.

(SEAL)

Notary Public

(print name)

My Commission expires ____/____/____

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successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

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Inventor's Signature: _____

Christopher M. Mapes

State/Commonwealth _____

of _____

County of _____

Then personally appeared before me the above-named **Christopher M. Mapes** and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this _____ day of _____, 20____.

(SEAL)

Notary Public

(print name)

My Commission expires ____/____/____

Inventor's Signature: _____

Pierre-Yves Michellys

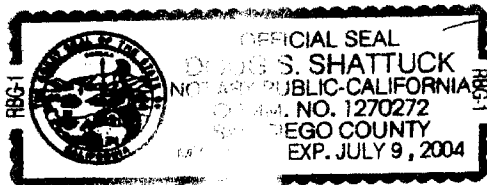
State/~~Commonwealth~~

of California

County of San Diego

Then personally appeared before me the above-named **Pierre-Yves Michellys** and acknowledged that he/~~she~~ executed the foregoing instrument as his/~~her~~ free act and deed this 12th day of December, 2003.

(SEAL)



Doug S. Shattuck Notary Public

Doug S Shattuck (print name)

My Commission expires 7 / 9 / 2004

Inventor's Signature: _____

Marcus F. Boehm

State/Commonwealth

of _____

County of _____

Then personally appeared before me the above-named **Marcus F. Boehm** and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this _____ day of _____, 20____.

(SEAL)

Notary Public

(print name)

My Commission expires ____/____/____

Multi-JointASSIGNMENT

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IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: _____

Christopher M. Mapes

State/Commonwealth _____

of _____

County of _____

Then personally appeared before me the above-named **Christopher M. Mapes** and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this _____ day of _____, 20____.

(SEAL)

Notary Public

(print name)

My Commission expires ____/____/____

Inventor's Signature: _____

Pierre-Yves Michellys

State/Commonwealth _____

of _____

County of _____

Then personally appeared before me the above-named **Pierre-Yves Michellys** and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this _____ day of _____, 20____.

(SEAL)

Notary Public

(print name)

My Commission expires ____/____/____

Inventor's Signature: _____

M F Boehm

Marcus F. Boehm

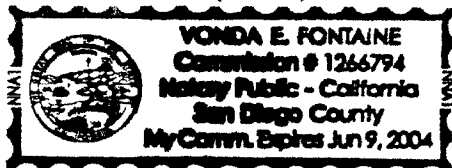
State/Commonwealth _____

of California

County of San Diego

Then personally appeared before me the above-named **Marcus F. Boehm** and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 7 day of January, 2004.

(SEAL)



Vonda E Fontaine Notary Public

Vonda E. Fontaine (print name)

My Commission expires 6 / 9 / 2004