Substitute Form PTO-1595 Attorney Docket No.: 18202-028WO1 (1112PC)

RECORDATION FORM COVER SHEET PATENTS ONLY

Commissioner for Patents: Please record the attached original document(s) or copy(ies).					
Name of conveying party(ies):	2. Name and address of receiving party(ies):				
Lin ZHI Robert I. HIGUCHI E. Adam KALLEL Cornelis Arjan VAN OEVEREN Jyun-Hung CHEN Daniel A. RUPPAR BIJan PEDRAM Thomas Lot Stevens LAU Todd MILLER	Ligand Pharmaceuticals Incorporated 10275 Science Center Drive San Diego, California 92121-1117 United States of America				
Additional name(s) attached? ☐ Yes 図 No					
3. Nature of conveyance:					
 ☑ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other: 					
Execution Dates: 04/11/05; 03/30/05; 04/11/05; 04/12/05; 04/12/05; 04/11/05; 04/11/25; 04/11/25; 04/11/25; 04/12/25, respectively	Additional names/addresses attached? 디 Yes 된 No				
Application number(s) or patent number(s):					
If this document is being filed with a new application, the execution date of the application is:					
A. Palent Application No(s).:	B: Petent No(s).:				
PCT/US2005/007867					
Additional numbers attached? ☐ Yee ☑ No					
Name/address of party to whom correspondence concerning document should be mailed:	6. Total number of applications/patents involved: 1				
STEPHANIE L. SEIDMAN, Esq.	7. Total fee (37 CFR §3.41): \$40				
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12390 El Camino Real	☑ Authorized to charge Deposit Account.				
San Diego, California 92130	8. Deposit Account No.: 06-1050				
	Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.				
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9. Statement and Signature: 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.					
Stophania I Soidman Esa	′				
Stephanie L. Seidman, Esq. Reg. No. 33,779	15 APRIL 2005				
Name of Person Signing Signature	Date				
Total number of pages including coversheet, attachments and document: 20					
10504908.doc	nomber of pages meading coversneet, statements and document. 20				

CERTIFICATE OF TRANSMISSION BY FACSIMILE

I hereby certify that this corresponder	nce is being trans	mitted by facsimile t	to the Patent and Trademan	k Office on the date
indicated below.	1.1			

15 APRIL 2005 Date of Transmission

ignature

MAY S. BOYER

Typed Name of Person Signing Certificate

PATENT REEL: 016088 FRAME: 0163

ASSIGNMENT

WHEREAS, I, Lin ZHI, a citizen of the United States of America, residing at

3988 Via Cangrejo, San Diego, California 92130, U.S.A., for good and valuable

consideration, receipt of which is hereby acknowledged, have assigned and do hereby

assign to LIGAND PHARMACEUTICALS INCORPORATED, a corporation

organized under the laws of the State of Delaware, United States of America, with a

principal business address of 10275 Science Center Drive, San Diego, California

92121-1117, U.S.A. (hereinafter Assignee), its successors, assigns and legal

representatives, the entire right, title and interest in and to all subject matter invented

by me and disclosed in the international patent application number

PCT/US2005/007867 filed on 11 March 2005 (11.03.05) (applicant's attorney is

authorized to enter new international number and effective filing date assigned by the

Receiving Office after execution of this document), and entitled:

ANDROGEN RECEPTOR MODULATOR COMPOUNDS
AND METHODS

and in and to all Letters Patent and all Convention and treaty rights of all kinds, in all

countries throughout the world, including the right to file national and regional patent

applications as designated at the time of filing this International Patent Application

directly in the name of the Assignee and to claim for any such foreign applications

any priority rights to which such applications are entitled under international

conventions, treaties or otherwise.

- Page 1 of 2 -

PATENT

ASSIGNMENT (ZHI) Continued...Page 2

I agree to do all acts and sign all documents necessary to secure, defend and maintain this international patent application and all such national and/or regional patent applications in accordance with this assignment.

DATE: 4/11/05

LIN ZHI

STATE OF (alifornia) SS. COUNTY OF Muliego) SS.

On April 11 2005, before me, the undersigned, a notary public for the State of Alifornia, personally appeared LIN ZHI, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity and that by his signature on the instrument the person or the entity upon behalf of which the person acted executed the instrument.

WITNESS my hand and official seal.

Notary Public

10493526.doc



ASSIGNMENT

WHEREAS, I, Robert I. HIGUCHI, a citizen of the United States of

America, residing at 434 Marview Drive, Solana Beach, California 92079, U.S.A., for

good and valuable consideration, receipt of which is hereby acknowledged, have

LIGAND PHARMACEUTICALS assigned hereby assign to

INCORPORATED, a corporation organized under the laws of the State of Delaware,

United States of America, with a principal business address of 10275 Science Center

Drive, San Diego, California 92121-1117, U.S.A. (hereinafter Assignee), its

successors, assigns and legal representatives, the entire right, title and interest in and

to all subject matter invented by me and disclosed in the international patent

application number PCT/US2005/007867 filed on 11 March 2005 (11.03.05)

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conventions, treaties or otherwise.

- Page 1 of 2 -

PATENT REEL: 016088 FRAME: 0166

ASSIGNMENT (HIGUCHI) Continued...Page 2

I agree to do all acts and sign all documents necessary to secure, defend and maintain this international patent application and all such national and/or regional patent applications in accordance with this assignment.

DATE: 3/30/05

ROBERT I. HIGUCHI

STATE OF (alifornia) SS.
COUNTY OF (Andrigo)

On Your 30 2005, before me, the undersigned, a notary public for the State of Colfornia, personally appeared ROBERT I. HIGUCHI, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity and that by his signature on the instrument the person or the entity upon behalf of which the person acted executed the instrument.

WITNESS my hand and official seal.

Notary Public

10493528.doc

MICHELE P. TRAVIS
Commission # 1333262
Notary Public - California
San Diego County
My Comm. Expires Jan 1, 2006

ASSIGNMENT

WHEREAS, I, E. Adam KALLEL, a citizen of the United States of America,

residing at 10160 Boulder Knolls, Escondido, California 92026, U.S.A., for good and

valuable consideration, receipt of which is hereby acknowledged, have assigned and

do hereby assign to LIGAND PHARMACEUTICALS INCORPORATED, a

corporation organized under the laws of the State of Delaware, United States of

America, with a principal business address of 10275 Science Center Drive, San

Diego, California 92121-1117, U.S.A. (hereinafter Assignee), its successors, assigns

and legal representatives, the entire right, title and interest in and to all subject matter

invented by me and disclosed in the international patent application number

PCT/US2005/007867 filed on 11 March 2005 (11.03.05) (applicant's attorney is

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- Page 1 of 2 -

PATENT

ASSIGNMENT (KALLEL)
Continued...Page 2

I agree to do all acts and sign all documents necessary to secure, defend and maintain this international patent application and all such national and/or regional patent applications in accordance with this assignment.

DATE: 4/11/05

E. ADAM KALLEL

STATE OF California) SS. COUNTY OF Standingo

On <u>first</u>, <u>soos</u>, before me, the undersigned, a notary public for the State of <u>first</u>, personally appeared E. ADAM KALLEL, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity and that by his signature on the instrument the person or the entity upon behalf of which the person acted executed the instrument.

WITNESS my hand and official seal.

Notary Public

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<u>ASSIGNMENT</u>

WHEREAS, I, Cornelis Arjan VAN OEVERERN, a citizen of the

Netherlands, residing at 3635 Promontory Place, Carlsbad, California 92008, U.S.A.,

for good and valuable consideration, receipt of which is hereby acknowledged, have

hereby assign to LIGAND PHARMACEUTICALS assigned and do

INCORPORATED, a corporation organized under the laws of the State of Delaware,

United States of America, with a principal business address of 10275 Science Center

Drive, San Diego, California 92121-1117, U.S.A. (hereinafter Assignee), its

successors, assigns and legal representatives, the entire right, title and interest in and

to all subject matter invented by me and disclosed in the international patent

application number <u>PCT/U\$2005/007867</u> filed on <u>11 March 2005 (11.03.05)</u>

(applicant's attorney is authorized to enter new international number and effective

filing date assigned by the Receiving Office after execution of this document), and

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- Page 1 of 2 -

PATENT

ASSIGNMENT (VAN OEVEREN) Continued...Page 2

I agree to do all acts and sign all documents necessary to secure, defend and maintain this international patent application and all such national and/or regional patent applications in accordance with this assignment.

DATE: 04/12/05

CORNELIS ARJAN VAN OEVEREN

STATE OF California) COUNTY OF Fandriego)

On April 12 2005, before me, the undersigned, a notary public for the State of Alfonia, personally appeared CORNELIS ARJAN VAN OEVEREN, personally known to me (or proved to me on the basis of satisfactory-evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity and that by his signature on the instrument the person or the entity upon behalf of which the person acted executed the instrument.

WITNESS my hand and official seal.

10493538.doc

MICHELE P. TRAVIS Con\mission # 1333282 Notary Public - California San Diego County My Consm. Expires Jan 1, 2006

ASSIGNMENT

WHEREAS, I, Jyun-Hung CHEN, a citizen of Taiwan, residing at 7614

Palmilla Drive, #58, San Diego, California 92122, U.S.A., for good and valuable

consideration, receipt of which is hereby acknowledged, have assigned and do hereby

assign to LIGAND PHARMACEUTICALS INCORPORATED, a corporation

organized under the laws of the State of Delaware, United States of America, with a

principal business address of 10275 Science Center Drive, San Diego, California

92121-1117, U.S.A. (hereinafter Assignee), its successors, assigns and legal

representatives, the entire right, title and interest in and to all subject matter invented

by me and disclosed in the international patent application number

PCT/US2005/007867 filed on 11 March 2005 (11.03.05) (applicant's attorney is

authorized to enter new international number and effective filing date assigned by the

Receiving Office after execution of this document), and entitled::

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- Page 1 of 2 -

PATENT

ASSIGNMENT (CHEN) Continued...Page 2

I agree to do all acts and sign all documents necessary to secure, defend and maintain this international patent application and all such national and/or regional patent applications in accordance with this assignment.

DATE: 4/12/05

Jum-Ling Chin

STATE OF (alifornia) SS.
COUNTY OF Farbliego)

On <u>Childs</u>, before me, the undersigned, a notary public for the State of <u>Childs</u>, personally appeared JYUN-HUNG CHEN, personally known to the (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity and that by his signature on the instrument the person or the entity upon behalf of which the person acted executed the instrument.

WITNESS my hand and official seal.

Notary Public

10493540.doc



A S <u>S I G N M E N T</u>

WHEREAS, I, Daniel A. RUPPAR, a citizen of the United States of America,

residing at 5230 Fiore Terrace, #K404, San Diego, California 92122, U.S.A., for good

and valuable consideration, receipt of which is hereby acknowledged, have assigned

and do hereby assign to LIGAND PHARMACEUTICALS INCORPORATED, a

corporation organized under the laws of the State of Delaware, United States of

America, with a principal business address of 10275 Science Center Drive, San

Diego, California 92121-1117, U.S.A. (hereinafter Assignee), its successors, assigns

and legal representatives, the entire right, title and interest in and to all subject matter

invented by me and disclosed in the international patent application number

PCT/US2005/007867 filed on 11 March 2005 (11.03.05) (applicant's attorney is

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- Page 1 of 2 -

PATENT

ASSIGNMENT (RUPPAR)
Continued...Page 2

I agree to do all acts and sign all documents necessary to secure, defend and maintain this international patent application and all such national and/or regional patent applications in accordance with this assignment.

DATE: 4 1 05

DANIEL A. ROPPAR

STATE OF (alifornia) SS. COUNTY OF Jandingo)

On On On On On On On One on the State of One on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity and that by his signature on the instrument the person or the entity upon behalf of which the person acted executed the instrument.

WITNESS my hand and official seal.

Notary Public

10493546.doc

MICHELE P. TRAVIS
Commission # 1333262
Notary Public - California
San Diego County
My Comm Expires Jan 1, 2006

ASSIGNMENT

WHEREAS, I, Bijan PEDRAM, a citizen of Canada, residing at 7665

Palmilla Drive, Apt. #5103, San Diego, California 92122, U.S.A., for good and

valuable consideration, receipt of which is hereby acknowledged, have assigned and

do hereby assign to LIGAND PHARMACEUTICALS INCORPORATED, a

corporation organized under the laws of the State of Delaware, United States of

America, with a principal business address of 10275 Science Center Drive, San

Diego, California 92121-1117, U.S.A. (hereinafter Assignee), its successors, assigns

and legal representatives, the entire right, title and interest in and to all subject matter

invented by me and disclosed in the international patent application number

PCT/US2005/007867 filed on 11 March 2005 (11.03.05) (applicant's attorney is

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- Page 1 of 2 -

PATENT REEL: 016088 FRAME: 0176

ASSIGNMENT (PEDRAM) Continued...Page 2

I agree to do all acts and sign all documents necessary to secure, defend and maintain this international patent application and all such national and/or regional patent applications in accordance with this assignment.

DATE:

/01 ____

BUAN PEARAM

STATE OF California) SS. COUNTY OF SANDLEGO)

On All DOS, before me, the undersigned, a notary public for the State of All All personally appeared BIJAN PEDRAM, personally known to the (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity and that by his signature on the instrument the person or the entity upon behalf of which the person acted executed the instrument.

WITNESS my hand and official seal.

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MICHELE P. TRAVIS
Oemmission # 1333262
Noterly Public - California
San thego County
My Corinn, Expires Jan 1, 2008

<u>ASSIGNMENT</u>

WHEREAS, I, Thomas Lot Stevens LAU, a citizen of the United States of

America, residing at 9949 Scripps Westview Way, San Diego, California 92131,

U.S.A., for good and valuable consideration, receipt of which is hereby

acknowledged. have assigned and đφ hereby assign

PHARMACEUTICALS INCORPORATED, a corporation organized under the

laws of the State of Delaware, United States of America, with a principal business

address of 10275 Science Center Drive, San Diego, California 92121-1117, U.S.A.

(hereinafter Assignee), its successors, assigns and legal representatives, the entire

right, title and interest in and to all subject matter invented by me and disclosed in the

international patent application number PCT/US2005/007867 filed on 11 March 2005

(11.03.05) (applicant's attorney is authorized to enter new international number and

effective filing date assigned by the Receiving Office after execution of this

document), and entitled:

ANDROGEN RECEPTOR MODULATOR COMPOUNDS

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conventions, treaties or otherwise.

- Page 1 of 2 -

PATENT

ASSIGNMENT (LAU) Continued...Page 2

I agree to do all acts and sign all documents necessary to secure, defend and maintain this international patent application and all such national and/or regional patent applications in accordance with this assignment.

STATE OF (Libfornia) SS. COUNTY OF HANDLEGO)

On Upil 1/, 2005, before me, the undersigned, a notary public for the State of California, personally appeared THOMAS LOT STEVENS LAU, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity and that by his signature on the instrument the person or the entity upon behalf of which the person acted executed the instrument.

WITNESS my hand and official seal.

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MICHELE P. TRAVIS Cemmission # 1333262 Notary Public - California My Comm. Expires Jan 1, 2000

ASSIGNMENT

WHEREAS, I, Todd Anthony MILLER, a citizen of the United States of

America, residing at 1289 Avenida Fragata, San Marcos, California 92069, U.S.A.,

for good and valuable consideration, receipt of which is hereby acknowledged, have

assigned and do hereby assign to LIGAND PHARMACEUTICALS

INCORPORATED, a corporation organized under the laws of the State of Delaware,

United States of America, with a principal business address of 10275 Science Center

Drive, San Diego, California 92121-1117, U.S.A. (hereinafter Assignee), its

successors, assigns and legal representatives, the entire right, title and interest in and

to all subject matter invented by me and disclosed in the international patent

application number PCT/US2005/007867 filed on 11 March 2005 (11.03.05)

(applicant's attorney is authorized to enter new international number and effective

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- Page 1 of 2 -

PATENT

ASSIGNMENT (MILLER) Continued...Page 2

I agree to do all acts and sign all documents necessary to secure, defend and maintain this international patent application and all such national and/or regional patent applications in accordance with this assignment.

DATE: 1/12/05

ODD ANTHONY MILL

STATE OF California)
COUNTY OF SAN Diego) SS.

On On On On On On On One of State of St

WITNESS my hand and official seal.

Notary Public

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MIOHELE P. TRAVIS
Gemmiesion # 1333262
Netary Public - Celifornia
San Diego County
My Central Expires Jan 1, 2006