### PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:			NEW ASSIGNMENT				
NATURE OF CONVEYANCE:			ASSIGNMENT				
CONVEYING PARTY DATA							
<u> </u>			ame		Execution D	ate	
VINH D. TRAN				C	1/24/2005		
RECEIVING PARTY	DATA						
Name:	PHARMACO	PEIA DI	RUG DISCOVERY, INC.				
Street Address:	P.O. BOX 53	50					
City:	PRINCETON						
State/Country:	NEW JERSE	Y					
Postal Code:	08543-5350						
PROPERTY NUMBE	1						
	1						
PROPERTY NUMBER Property Application Number	Туре	107769	Number 988				
Property	Type r:	107769					
Property Application Number CORRESPONDENCE	Type r: CE DATA						
Property Application Number CORRESPONDENC	Type r: DE DATA (908)298	8-5388					
Property Application Number CORRESPONDENC	Type r: DE DATA (908)298	8-5388 <i>Mail wh</i>	988				
Property Application Number CORRESPONDENC Fax Number: Correspondence will	Type r: CE DATA  (908)298 If be sent via US 908-298 sheryl.hd	8-5388 <i>Mail wh</i> 3-5209 ohmann	hen the fax attempt is unsuccessful. n@spcorp.com				
Property Application Number  CORRESPONDENC  Fax Number: Correspondence with Phone: Email: Correspondent Name	Type r:  CE DATA  (908)298 If be sent via US 908-298 sheryl.he e: SCHER	8-5388 <i>Mail wh</i> 3-5209 ohmann ING- PL	hen the fax attempt is unsuccessful.  n@spcorp.com LOUGH CORPORATION				
Property Application Number  CORRESPONDENC  Fax Number: Correspondence with Phone: Email: Correspondent Nam Address Line 1:	Type r:  CE DATA  (908)298 If be sent via US 908-298 sheryl.ht ae: SCHER 2000 GA	8-5388 <i>Mail wh</i> 3-5209 ohmann ING- PL	hen the fax attempt is unsuccessful. n@spcorp.com				
Property Application Number  CORRESPONDENC  Fax Number: Correspondence with Phone: Email: Correspondent Name	Type r:  CE DATA  (908)298  If be sent via US 908-298 sheryl.he SCHERI 2000 GA K-6-1, 1	8-5388 <i>Mail wh</i> 3-5209 ohmann ING- PL ALLOPII 990	hen the fax attempt is unsuccessful.  n@spcorp.com LOUGH CORPORATION ING HILL ROAD				
Property Application Number  CORRESPONDENC  Fax Number: Correspondence with Phone: Email: Correspondent Nam Address Line 1: Address Line 2:	Type r:  CE DATA  (908)298  ## 10 ##	8-5388 <i>Mail wh</i> 3-5209 ohmann ING- PL ALLOPII 990	hen the fax attempt is unsuccessful.  n@spcorp.com LOUGH CORPORATION				

PATENT 500052719 REEL: 016613 FRAME: 0251

Patent Case: OC01617K1

# ASSIGNMENT OF INVENTION (MULTIPLE INVENTORS)

**Lawrence W. Dillard,** a citizen of the United States of America, residing at 496 Kings Road, Yardley, Pennsylvania 19067;

Vinh D. Tran, a citizen of the United States of America, residing at 17374 Winemast Street, FountainValley, California 92708;

**Zhen Min He,** a citizen of the United States of America, residing at 5 Pennyroyal Court, Princeton, New Jersey 08540;

Ray A. James, a citizen of the United States of America, residing at 6263 Sterling Avenue, Bensalem, Pennsylvania 19020;

**Haengsoon Park**, a citizen of the the Republic of Korea, residing at 8910 Tamarron Drive, Plainsboro, New Jersey 08536;

Vidyadhar M. Paradkar, a citizen of the United States of America, residing at 3 Pine Ridge Drive, Somerville, New Jersey 08876; and

**Douglas Walsh Hobbs,** a citizen of the United States of America, residing at 1330 University Drive, Yardley, Pennsylvania 19067

(hereinafter called the "ASSIGNORS"), in consideration of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration paid to them by

#### Pharmacopeia Drug Discovery, Inc.,

a corporation organized and existing under the laws of the State of Delaware and having a principal mailing address of P. O. Box 5350, Princeton, New Jersey 08543-5350 (hereinafter called the "ASSIGNEE"), do hereby sell and assign to the said ASSIGNEE, its successors and assigns and legal representatives, their entire right, title and interest for all countries, in and to any and all inventions which are disclosed and claimed and any and all inventions which are disclosed but not claimed, in the application for United States Letters Patent entitled:

# NOVEL PYRAZOLOPYRIMIDINES AS CYCLIN DEPENDENT KINASE INHIBITORS

invented by them and officially identified\* by the Unites States Patent and Trademark Office as Application Number10/776.988, filed on February 11, 2004 and/or by the World Intellectual Property Organization as International Patent Application Number PCT/US05/003859 filed on February 8 ... 20 ... 20 ... 20 ...

in and to said application, and in and to any and all divisions, reissues, renewals, substitutions, continuations, extensions and all other applications for United States Letters Patent or other

(Assignment of Invention - page 1 of 4)

PATENT REEL: 016613 FRAME: 0252

#### Patent Case: OC01617K1

related property rights in any and all foreign countries which have been or shall be filed on any of said inventions disclosed in said application and in and to all original and reissue patents or related foreign documents which have been or shall issue on said inventions;

And the said ASSIGNORS hereby authorize and request the Commissioner of Patents of the United States to issue to said ASSIGNEE, its successors, assigns and legal representatives, in accordance with the assignment, any and all United States Letters Patent on said inventions or any of them disclosed in said application;

And ASSIGNORS hereby agree that ASSIGNEE may apply for and receive foreign Letters Patent or rights of any other kind for said inventions, or any of them; and may claim, in applications for said foreign Letters Patent or other rights, the priority of the aforesaid United States patent application under any available international agreement; and that, when requested, without charge to, but at the expense of said ASSIGNEE, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned or the undersigned's executors or administrators will, for the United States and all foreign countries, execute all divisional, continuing, continuation-in-part, substitute, renewal, reissue, and all other patent applications or other documents on any and all said inventions; execute all rightful oaths, declarations, assignments, powers of attorney, and other papers; communicate with said ASSIGNEE, its successors, assigns, and legal representatives, all facts known and documents available to the undersigned relating to said inventions and the history thereof; testify in all legal proceedings; and generally do everything reasonably necessary to aid said ASSIGNEE in securing, maintaining, and enforcing proper patent protection for said inventions and for vesting title to said inventions and all patent applications for patents or related foreign rights and all patents on said inventions in said ASSIGNEE, its successors, assigns and representatives;

And ASSIGNORS hereby covenant with said ASSIGNEE, its successors, assigns and representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

\*We hereby authorize **ASSIGNEE** TO INSERT IN THIS INSTRUMENT THE Application Number and the filing date of said application for Letters Patent when officially notified thereof.

SIGNED thisday of	, 200
Lawrence W. Dillar	d, Co-Inventor
STATE OF	)
	) ss.:
COUNTY OF	)
	, 200 before me personally came LAWRENCE W. DILLARD, to me known and
	rson of that name, who signed and sealed the foregoing instrument, and he
acknowledged the same to	be his free act and deed.
Notary Public	

(Assignment of Invention - page 2 of 4)

PATENT REEL: 016613 FRAME: 0253

Patent Case: OC01617K1	and WT
SIGNED this 4 day of 24.	2004
Vinh D. Tran, Co-Inventor	Well ham
STATE OF Cal Gain	) V · V
COUNTY OF DIANGE	) ss.: )
On this 4 day of Jan 2004, me to be the person of that name, w	before me personally came VINH D. TRAN, to me known and known to who signed and sealed the foregoing instrument, and he acknowledged the
same to be his free act and deed.	Specification of the collection of the collectio
Distary Public	DUALE SMITH Consilizion a 1025074 Notary Buris — California Oranja Court My Conn. Exercis Oct 13, 2006
SIGNED thisday of,	, 2004
Zhen Mim He, Co-Inventor	
STATE OF	) )ss::
COUNTY OF	)
me to be the person of that name, v same to be his free act and deed.	thefore me personally came ZHEN MIN HE, to me known and known to who signed and sealed the foregoing instrument, and he acknowledged the
Notary Public	
SIGNED thisday of,	, 2004
Ray Anthony James, Co-Inventor	
STATE OF	)
COUNTY OF	) ss.: )
On thisday of known and known to me to be the p he acknowledged the same to be his	2004, before me personally came RAY ANTHNONY JAMES, to me berson of that name, who signed and sealed the foregoing instrument, and s free act and deed.
Notary Public	

(Assignment of Invention - page 3 of 4)

PATENT REEL: 016613 FRAME: 0254

### Patent Case: OC01617K1

SIGNED thisday of	, 2004
Haengsoon Park, Co-Inventor	
STATE OF	) ) ss.:
COUNTY OF	)
On thisday of and known to me to be the person acknowledged the same to be his t	2004, before me personally came <b>HAEGSOON PARK</b> , to me known of that name, who signed and sealed the foregoing instrument, and he free act and deed.
Notary Public	
SIGNED thisday of	
Vidyadhar M. Paradkar, Co-Inv	ventor
STATE OF	) ) ss.:
COUNTY OF	)
On thisday of me known and known to me to be he acknowledged the same to be !	2004, before me personally came VIDYADHAR M. PARADKAR, to the person of that name, who signed and sealed the foregoing instrument, and his free act and deed.
Notary Public	
SIGNED thisday of	
<b>Douglas Walsh Hobbs,</b> Co-InverSTATE OF	ntor
COUNTY OF On this day of known and known to me to be the acknowledged the same to be his	, 2004, before me personally came <b>DOUGLAS WALSH HOBBS</b> , to me e person of that name, who signed and sealed the foregoing instrument, and he free act and deed.
Notary Public	

(Assignment of Invention - page 4 of 4)

PATENT
RECORDED: 09/29/2005 REEL: 016613 FRAME: 0255