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102789317 Form PTO-1595 RECORDA \_ÆET U.S. DEPARTMENT OF COMMERCE (Rev. 10/02) U.S. Patent and Trademark Office OMB No. 0651-0027 (exp. 6/30/2005) PATENTS ONLY To the Honorable Commissioner of Patent and Trademarks: Please record the attached documents or copy thereof. 1. Name of conveying party(ies): 2. Name and address of receiving party(ies): Judi BRYANT **Christoph HUWE** Monica J. KOCHANNY Joachim KUHNKE Shendong YUAN Martina SCHAFER Name: Schering Aktiengesellschaft Seock-Kyo KHIM Lars WORTMANN **Street Address: Muellerstrasse 178 Brad O. BUCKMANN Dirk KOSEMUND** Damian O. ARNAIZ **Emil ECKLE** City: Berlin State: GERMANY Zip:D-13533 Ulf BOMER Richard I. FELDMAN **Hans BRIEM** Gary B. PHILLPS Peter ESPERLING Additional name(s) of conveying party(ies) attached? 🔲 Yes 🖾 No No additional names(s) or address(es) attached  $\square$  Yes  $\boxtimes$  No 3. Nature of Conveyance: Assignment \_\_\_ Merger Security Agreement ☐ Change of Name Execution Date: April 14, 2004; April 20, 2004; April 16, 2004; April 15, 2004; April 14, 2004; April 16, 2004; April 21, 2004; April 29, 2004; May 10, 2004; April 29, 2004; April 28, 2004; April 21, 2004; April 21, 2004; May 6, 2004; May 7, 2004 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) B. Patent No.(s) 10/722,591 Additional numbers attached? Yes No 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: 1 concerning document should be mailed: 7. Total fee (37CFR 3.41) MILLEN, WHITE, ZELANO Name: Enclosed & BRANIGAN, P.C. Authorized to be charged to deposit account Address: Arlington Court Plaza I 8. DEPOSIT ACCOUNT NO. 13-3402 **Suite 1400** 2200 Clarendon BLVD. (Attach duplicate copies of this page if paying by deposit account) Arlington, VA 22201 DO NOT USE THIS SPACE

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.

Anthony J Zelano

Names of Person Signing

Signature

May 17, 2004 Date

Total number of pages including cover sheet, attachments, and documents 11

Attorney Docket No. SCH-1995

05/19/2004 DBYRNE 00000080 10722591

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#### ASSIGNMENT

ATTY, DOCKET NO. SCH-1995

WHEREAS the below named inventor (if only one inventor is named below) or inventors (if plural inventors are named below) hereinafter referred to as the ASSIGNOR inventor a certain improvement(s) relating to

CHK-, PDK- AND AKT-INHIBITORY PYRIMIDINES. THEIR PRODUCTION AND USE AS PRARMACEUTICAL AGENTS

and for which one or more of the following apply:

U.S. Provisional Application Serial No. was filed in the United States Patent and Trademark Office on

A U.S. Non-Provisional

application for Letters Patent to be filed in the United States Patent and Trademark Office was executed on even date.

Application Serial No. 10/722,59) for Letters Patent was filed in the U.S. Patent and Trademark Office on November 28, 2003 as International Application No. was filed on designating the United States.

AND WHEREAS

ND WHEREAS
Schering Aktine

Schering Aktinegesellschaft Muclicrstrasse 17f Bedin GERMANY

hereinafter referred to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and all application(s) listed above, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, and any and all Letters Patent which may be granted thereof, including any and all renewals, reissues, reexaminations and extensions thereof.

NOW, WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, ASSIGNOR hereby assigns, sells, and transfers to ASSIGNOE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and applications, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, and in and to any and all U.S. (including provisional) or foreign priority and/or convention rights or benefits accruing or to accrue with respect to the filing or securing of patents in the United States und/or any countries foreign thereto concerning said invention, SAID ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invantions and application, including any and all carrier priority rights (U.S. and foreign), divisions and continuations thereof, any and all letters Patent which may be granted therefor, including any and all renewals, reissues, recaminations in the rights of any and all carrier patent when granted the right to see for damages occurring before the assignment, with all the rights, powers, privileges and all renewals, reissues, reexaminations and extensions thereof, for the use and benefit of ASSIGNEE and its assigns and legal representatives, in as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and enjoyed the same. If the assignment had not been made.

AND ASSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States and foreign countries for said invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to execute any other papers that may be needed in connection with filing said applications and securing Letters Patents thereon.

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IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR

201 FULL NAME OF SOLE OR FIRST NAMED INVENTOR	INVENTORS ENGNATURE	DATE
Judi-BRYANT	Will Shing at	14.1.00 1 3.50
MR PULL NAME OF SECOND JOINT INVENTOR	INVESTOR'S SIGNATURE	14-April 2004
Monica J. KOCHANNY	1 ( Bonish ) Marke	20- April - 20.4
200 FULL NAME OF THE D JOINT INVENTOR	INVENTOREMENTURE	
Shendong YUAN	show the	16-B7111-2124
THE FILL NAME OF FOUNTH JOINT INVENTOR	INVENTOR'S SIGNATURE	/
Scock-Kyu KHIM	Jeack-Fyn Khip	15-April 200
205 FULL NAME OF FEFTH JOINT INCENTOR	UNVANTOR BENATURE	DATE DATE
Brad O. BUCKMAN		lul A. A.
200 FULL MANE OF SIXTE JOUNT INVENTOR	O'INVENTOR'S AGNATURE	14-126x 400 A
Damian O. ARNAIZ		DATE
187 PULL NAME OF SEVENTH JOINT INVENTOR	INVENTOR'S SIGNATURE	16-HO7- 2004
UIFBOMER	Jan Jan Salona) URE	DATE
SOR FULL NAME OF SIGHTH I OINT INVENTOR	INVENTORS SIGNATURE	
Hans BRIEM		DATE
209 FULL NAME OF MINTH JOINT INVENTOR	INVENTOR'S SIGNATURE	
Peter ESPERLING	and attains the	DATE

310 PULL HAME OF SOLE OR PILST NAMED INVENTOR	DVENTOR'S YIGHATURE	DATE
Christoph HUWE .		
THE FULL NAME OF SECOND JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Joachim KUHNKE		
212 FULL NAME OF THIRD JUDIT INVENTOR	INVENTOR'S SIGNATURE	DATE
Martina SCHAFER		
IS FULL NAME OF FOURTH JOINT ENVENTOR	INVENTOR'S SIGNATURE	DAYE
Lars WORTMANN		1
JULE NAME OF JUTTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Dirk KOSEMUND		1
ZIS FULL HAME OF SIXTH IONT INVENTOR	inventor's signature	DATE
Emil ECKLE		1
THE FULL NAME OF SEVENTH JOHN DIVENTOR	INVENTOR'S SIGNATURE	DATE
Richard I. FELDMAN	Hich Kelduran	4/23/04
17 FULL NAME OF EIGHTH JOINT INVENTOR	DIVENTOR'S SIGNATURE	DATE
Gary B. PHILLIPS	Gay B. Phelless	4/16/04
218 FULL NAME OF PINTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE

SCHERING AG PATENTE

GESAMT SEITEN Ø6

Berlin GERMANY

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ATTY. DOCKET NO. SCH-1995

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CHK-, PDK- AND AKT-INHIBITORY PYRIMIDINES, THEIR PRODUCTION AND USE AS PHARMACEUTICAL AGENTS and for which one or more of the following apply: was filed in the United States Patent and Trademark Office on U.S. Provisional Application Scrial No. A U.S. Non-Provisional application for Letters Patent to be filed in the United States Patent and Trademark Office was executed on even date. Application Serial No. 10/722.591 for Letters Patent was filed in the U.S. Patent and Trademark Office on November 28, 2003 was filed on , designating the United States. as International Application No. AND WHEREAS Schering Aktinegesettschaft Mucllerstrasse 178

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#### IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR

201 FULL NAME OF SOLE OR FIRST NAMED INVENTOR	inventor's signature	DATE
Judi;BRYANT		
202 FULL NAME OF SECOND JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Monica J. KOCHANNY		
203 FULL NAME OF THIRD JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Shendong YUAN		
203 FULL NAME OF FOURTH JOIN'T INVENTOR	INVENTOR'S SIGNATURE	DATE
Seock-Kyu KHIM		}
203 FULL NAME OF FIFTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Brad O. BUCKMAN		
206 FULL NAME OF SIXTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Damian O. ARNAIZ		
207 FULL NAME OF SEVENTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Ulf BOMER	Ill some	17. 3/ 21 Stanne
208 FULL NAME OF EIGHTH JOINT INVENTOR	INVENTORSSIGNATURE	DATE DATE
Hans BRIEM	122 67	10 31 29 55 2000
209 FUI. L NAME OF NINTH JOINT INVENTOR	INVENTOR'S SIGNATURE	April 25th 2009
Peter ESPERLING		

210 FULL NAME OF SOLE OR FIRST NAMED INVENTOR  Christoph HUWE	MENTOR'S SIGNATURE	29-A 04
211 FULL NAME OF SECOND JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Joachim KUHNKE	your Line	April 18th 200
212 FULL NAME OF THIRD JOINT INVENTOR	INVENTORIATURE	DATE
Manina SCHAFER	( Haltin J XS)	21104104
213 FULL NAME OF FOURTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Lars WORTMANN	Lans Waturen	21/04/04
14 FULL NAME OF FIFTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Dirk KOSEMUND	<b>)</b>	
215 FULL NAME OF SIXTH JOINT INVENTOR	INVENTOR'S SIGNATURE	PATE
Emil ECKLE	1	
16 FULL NAME OF SEVENTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Richard I. FELDMAN		
17 FULL NAME OF EIGHTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Gary B. PHILLIPS		SAIL
218 FULL NAME OF NINTH JOINT INVENTOR	INVENTORSSIGNATURE	DATE
		PAIE

#### ASSIGNMENT

ATTY DOCKET NO SCH-1995

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CHK PD	K- AND AI	ct-inhibitory pyri	MIDINES, THEIR PRO	DUCT	100	14.1	יט פא	SE A	S PH	ARM	ACE	UTIC	AL.	<b>NGE</b> ?	175			
and for wh	lich one or r	nore of the following ap	ply															
	US Provis	ional Application Serial	No. was filed in	the Uni	ned :	Stat	ies Pa	ient a	nd T	adeni	ork (	Mice	on					
	A U.S. No	n-Provisional																
		application for Letters Application Serial No. I as International Applica	10/722,591 for Letters P.	ateni wa	ฮร โ	)ed	rs Pate in the signat	: U S.	Pate	n and	Trac	iemai	e was k Off	exec fic <b>c</b> o	tuled n Nov	on evi	en da r 28.	ite. 2003
	AND WH	Sche Mucl Berli	ring Akunegesellschaft lierstrasse 178 n MANY															

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IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR

COL FULL NAME OF SOLE OR LIEST NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE
Judi BRYANT		1
202 FULL NAME OF SECOND JOINT IN ENTOR	INVENTOR'S SIGNATURE	DATE
Monica J. KOCHANNY		5471
200 FULL MAME OF THIRD JOINT INVENTOR	INVENTOR'S SIGNATURE	
Shendong YUAN		DATE
THE FULL NAME OF FOURTH POINT IN ENTOR	INTENTORS SIGNATURE	
Seock-Kyu KHIM	· · · · · · · · · · · · · · · · · · ·	DATE
705 FULL MANTE OF FIFTH JOINT IN ENTOR	INTENTOR'S SIGNATURE	
Brad O. BUCKMAN		DATE
00 FULL NAME OF SIXTH JOINT INVENTOR	INVENTOR'S SIGNATURE	
Damian O. ARNAIZ	W. Charles Market City	DATE
FILLE NAME OF SEVENTH JOINT INVENTOR	INVENTORY SIGNATURE	
JIT BOMER	The state of the s	DATE
& FUEL NAME OF FIGHTH JOINT INTENTOR	IN ENTOR'S SIGNATURE	
lans BRIEM	a company of the contract of t	DATE
& FL' L NAME OF NINTH JOINT INVENTOR	POFSTOR'S NIGNATURE	
cter ESPERLING	Peter pre-le- ?	1015/04

TO TULE NAME OF SOLE OR FIRST NAMED INVENTOR	IM ENTOR'S SIGNATURE	DAYE
Christoph HUWE		
FULL NAME OF SECOND JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Joachim KUHNKE		
TIS FULL NAME OF THIRD JOINT INVENTOR	INVENTOR'S SKINATURE	DATE
Martina SCHAFER		
TO FULL NAME OF FOURTH TOTAL INVENTOR	INVENTORSSIGNATURE	DATE
Lars WORTMANN		
214 FULL NAME OF FETH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Dirk KOSEMUND		
215 FULL NAME OF SIXTH JOINT INVENTOR	IN'ENTOR'S SIGNATURE	DATE
Emil ECKLE		
216 FULL NAME OF SEVENTH JOINT IN ENTOR	IN'ENTOR'S SIGNATURE	ETE
Richard I. FELDMAN		
217 FULL NAME OF EIGHTH JOINT INVENTOR	INT INTOR'S SIGNATURE	DATE
Gary B. PHILLIPS		-
SIN FULL NAME OF MINTH JOINY INVENTOR	INVENTOR'S SIGNATURE	DATE

CHK-, PDK- AND AKT-INHIBITORY PYRIMIDINES. THEIR PRODUCTION AND USE AS PHARMACEUTICAL AGENTS

#### ASSIGNMENT

ATTY, DOCKET NO. SCHU995

WHEREAS the below named inventor (if only one inventor is named below) or inventors (if plura) inventors are named below) hereinafter referred to as the ASSIGNOR invented a certain improvements) relating to

and for wh	nich one or i	more of the follows	ng apply					
	US Provi	stonal Application	Serial No.	was filed in the Un	ited States Patent an	id Trademark Offi	се оп	
	A U.S No	n-Provisional						
			No. 10/702.591	ne filed in the Unite for Letters Patent w was filed on		Patent and Traden		
	HW DNY	EKEAS	Schering Aktine Muellerstrasse I Berlin GERMANY					

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## IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR

201 FLUL NAME OF SOLE OF FIRST NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE
Judi-BRYANT		
207 FULL NAME OF SECOND JOINT IN ENJOR	INVENTOR'S NON ATURE	DATE
Monica J. KOCHANNY		}
TO FULL NAME OF THIRD JOINT IN ENTOR	INVENTORSSIGNATIRE	DATE
Shendong YUAN		
THE FILL NAME OF FOURTH JOIN! IN ENTOR	INVENTOR'S SIGNATURE	DATE
Seock-Kyu KHJM		
135 FULL NAME OF FIFTH JOINT IN ENTOR	inventor's signature	DATE
Brad O. BUCKMAN		
106 FULL NAME OF SEATH JOINT IN ENTOR	INVENTORSSIGNATURE	DATE
Damian O. ARNAIZ		
FILL NAME OF SEVENTILISHED INVESTOR	IN ENTORY SHINATERE	5476
JIT BOMER		
A TILLE NAME OF TIGHTH JOINT INVENTOR	INVENTORYSIGNATURE	7616
lans BRIEM		
FILL NAME OF NINTH JOINT INVENTOR	COLENTOR S SIGNAT CRE	DATE
eter ESPERLING		

O FULL NAME OF SOLE OR FIRST NAMED IN FINTOR	IM ENTOR'S SIGNATURE	DATE
Christoph HUWE		1
FULL NAME OF SECOND JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
oachim KUHNKE		
FUEL NAME OF THIRD JOINT IN ENTOR	INVENTOR'S SIGNATURE	DATE
Martina SCHAFER		
FULL NAME OF FOURTH JOINT IN ENTOR	INVENTOR'S SIGNATURE	DATE
ars WORTMANN		Jan
FULL NAME OF FIFTH JOINT INVENTOR	DIN'ENTOR'S SIGNATURE	DATE
Dirk KOSEMUND	DOD Selminos	0510612004
FULL NAME OF SIXTH IOINT INTENTOR	INVENTOR'S SIGNATURE	DATE
mil ECKLE		) SATE
FULL NAME OF SEVENTH JOBY IN ENTOR	INVENTOR'S SIGNATURE	PATE
Richard I. FELDMAN		)
TULL NAME OF EIGHTH JOINT IN ENTOR	INVENTOR'S SIGNATURE	DATE
Gary B. PHILLIPS		0015
S FULL NAME OF NINTH JOINT INVENTOR	INVENTOR'S SIGNATURE	
		DATE

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	IW QNA	HEREAS  Schering Aktinegesellschaft  Muellerstrasse 178  Berlin  GERMANY

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Monica J. KOCHANNY		
9) FULL NAME OF THIRD JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Shendong YUAN		
204 FULL NAME OF FOURTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Seock-Kyu KHIM		
205 FULL NAME OF FIFTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Brad O. BUCKMAN		}
206 FULL NAME OF SIXTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Damian O. ARNAIZ		33.12
207 FULL NAME OF SEVENTH JOINT IN ENTOR	INVENTOR'S SION TURE	PATE
UIF BOMER		BATE
203 FULL NAME OF EIGHTH JOINT IN ENTOR	INVENTOR'S SIGNATURE	DATE
Hans BRIEM		
209 FU: L NAME OF NINTH JOINT IN ENTOR	IN ENTOR'S SIGNATURE	DATE
Peter ESPERLING	· · · · · · ·	DATE

210 FULL NAME OF SOLE OR FIRST NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE
Christoph HUWE .		
211 FULL NAME OF SECOND JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Joachim KUHNKE		
212 FULL, NAME OF THIRD JOINT INVENTOR	riventor's signature	DATE
Martina SCHAFER		
213 FULL NAME OF FOURTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Lars WORTMANN		
214 FULL NAME OF FIFTH JOIN'S INVENTOR	INVENTOR'S SIGNATURE	DATE
Dirk KOSEMUND		
215 FULL NAME OF SIXTH JOINT IN ENTOR	INVENTOR'S SIGNATURE	DATE
Emil ECKLE	Munt 4 ch	05/07/2004
216 FULL NAME OF SEVENTH JODN'T INVENTOR	INVENTOR'S SIGNATURE	DATE
Richard I. FELDMAN		
217 FULL NAME OF EIGHTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Gary B. PHILLIPS		}
218 FULL, NAME OF NINTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
		}

**RECORDED: 05/17/2004**