

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

Patent Case No. 19963Y

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TO THE HONORABLE COMMISSIONER OF PATENTS AND TRADEMARKS: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF. Name(s) of Conveying party(ies): Richard L. Kendall. Kenneth A. Thomas. Xianzhi Mao and Andrew Tebben Additional name(s) of conveying party(ies) attached? Yes X No 2. Nature of conveyance: Name and address of receiving party(ies): I hereby certify that this correspondence is being Name: MERCK & Co., INC. X Assignment deposited with the United States Postal Service as Internal Address: RY60-30 Merger first class mail in an envelope addressed to: Security Agreem Assistant Commissioner for Patents, Wash- Street Address: P.O. Box 2000 Change of Name ington, D.C. 20231, on the date appearing below. City & State: RAHWAY, NEW JERSEY Zip/Postal Code: 07065-0907 Other: Execution Date: Jul 31, 1998 Additional name(s) & addresses attached? Application number(s) or patent number(s) are as follows: (a) Patent Application No(s). 09/098,707 , filed on Jun 17, 1998 and titled: HUMAN RECEPTOR TYROSINE KINASE, KDR (b) If this document is being filed together with a new application, the execution date of the application: Additional numbers attached? Yes No Name & address of party to whom correspondence 6. Total no. of applications & patents involved: 1 concerning documents should be mailed: 7. Total fee (37 CFR 3.41).....\$ 40.00 Name: J. Mark Hand **Enclosed** Internal Address: PATENT DEPARTMENT The Commissioner is hereby authorized to MERCK & CO., INC. charge deposit account number 13-2755 for any P.O. BOX 2000 -- RY60-30 fees which may be required or to credit any City & State: RAHWAY, N.J. Zip: 07065-0907 overpayment. DO NOT USE THIS SPACE 8. 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. J. Mark Hand Name of Person Signing Total number of pages including cover sheet, attachments, and document: 6 Do Not Detach This Portion Mail documents to be recorded with the required cover sheet information to: **Commissioner of Patents and Trademarks Box Assignments**

Computer generated form Merck & Co., Inc. "Recordal Form" (Assignments Folder) 3/23/00

REEL: 010845 FRAME: 0105

PATENT JOINT Merck Case 19963Y

U.S. Serial No. 09/098,707

ASSIGNMENT AND AGREEMENT

Filing Date June 17, 1998

For value received, we, RICHARD L. KENDALL, KENNETH A. THOMAS, XIANZHI MAO, and ANDREW TEBBEN

of 130 Pebble Woods Drive, Doylestown, Pennsylvania 18901; 245 Washington Avenue, Chatham Borough, New Jersey 07928; 108 Park Avenue, Rockledge, Pennsylvania 19046; and 2035 Cody Lane, Harleysville, Pennsylvania 19438; respectively

hereby sell, assign and transfer to MERCK & CO., Inc., a corporation of the State of New Jersey, having an office at Lincoln Avenue, City of Rahway, State of New Jersey, and it successors, assigns and legal representatives, the entire right, title and interest, for all countries, in and to certain inventions relating to HUMAN RECEPTOR TYROSINE KINASE, KDR

described in an application for Letters Patent of the United States, executed by each of us on even date herewith, or executed on the date shown in the Declaration and Power of Attorney relating to said application, and all the rights and privileges, including any and all benefits under the International Convention for the Protection of Industrial Property and related treaties, under any and all Letters Patents which may be granted in any foreign country, and under any and all extensions, divisionals, reissues and continuations of said Letters Patents.

We request that any and all Patents for said inventions be issued to said assignee, its successor, assigns and legal representatives, or to such nominees as it may designate.

We agree that, when requested, we will, without charge to said assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining Patents for said inventions in any and all countries and for vesting title thereto in said assignee, its successors, assigns and legal representatives or nominees.

We covenant with said assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that we have full right to convey the same as herein expressed.

We hereby authorize our attorney, J. Mark Hand	or an attorney with Power of Attorney in this application, of
the said MERCK & CO., Inc., to insert Serial No., and Filing Date	of said application(s) when known.
Signed at West Point, Pennsylvania	this 31^{37} day of July 1998
Richard L. Kendall	Kenneth A. Thomas
Xianzhi Mao Amav	Andrew Tebben Much Turz
Rev. 8/19/96	Page 1 of

PATENT

JOINT Merck Case 19963Y

U.S. Serial No. 09/098,707

Filing Date June 17, 1998

ASSIGNMENT	AND	AGREEMENT

Signed at	West Po.	nt, Pen	ng/vania	this <u>31</u> 5	day of <u>J</u>	14 1998.
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COMMONWEALT County of Mor	tgomery	VANIA	ss.			
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Page 2 of

PATENT JOINT Merck Case 19963Y

U.S. Serial No. <u>09/098,707</u> Filing Date <u>June 17, 1998</u>

ASSIGNMENT AND AGREEMENT

Signed at		this	day of	
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Page 3 of 3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: J. M. Williams, et al.

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Serial No.: 09/093,813 Case No.: 19760 . At

Art Unit: 1611

Filed: June 9, 1998

Examiner:

For: Stabilized Carbapenem Intermediates and

M. Berch

Improved Process for Carbapenem Synthesis

Assistant Commissioner for Patents

Washington, D.C. 20231

LETTER

This letter is in response to the Notice of Recordation of Assignment Document of April 19, 2000. Applicants would like to bring to the Examiner's attention that the correct date R. T. Skerlj executed the assignment is May 11, 1998. Accordingly, please provide a corrected Notice of Recordation of Assignment Document, which properly reflects the correct signature date.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on the date appearing below.

MERCK & COAINC.

Date

Date: May 22, 2000

/sb

Respectfully submitted,

By:

Sylvia A. Ayler

Reg. No. 36,436

Attorney for Applicant(s)

MERCK & CO., INC.

P.O. Box 2000

Rahway, New Jersey 07065-0907

(908) 594-4909

PATENT JOINT Merck Case	19760	
U.S. Serial No.		
Filing Date		

ASSIGNMENT AND AGREEMENT

For value received, we.

JOHN M. WILLIAMS, KAREL M. J. BRANDS, RENATO T. SKERLJ, ULF H. DOLLING AND **RONALD B. JOBSON**

208-72 West Shearwater Court, Jersey City of 8 MCMANNUS DRIVE, BELLE MEAD, NEW JERSEY 08502; 222 GRAND STREET, APT 4D, HOBOKEN, NEW JERSEY 0700 Jersey City, 07305; 1936 18TH STREET, APT. K102, BELLINGHAM, WASHINGTON, 98225; 641 4TH AVENUE, WESTFIELD, NEW JERSEY 07090; AND 26 SHERIDAN AVENUE, EAST BRUNSWICK, NEW JERSEY 08816 RESPECTIVELY

hereby sell, assign and transfer to MERCK & CO., Inc., a corporation of the State of New Jersey, having an office at Lincoln Avenue, City of Rahway, State of New Jersey, and it successors, assigns and legal representatives, the entire right, title and interest, for all countries, in and to certain inventions relating to

STABILIZED CARBAPENEM INTERMEDIATES AND IMPROVED PROCESS FOR CARBAPENEM SYNTHESIS

described in an application for Letters Patent of the United States, executed by each of us on even date herewith, or executed on the date shown in the Declaration and Power of Attorney relating to said application, and all the rights and privileges, including any and all benefits under the International Convention for the Protection of Industrial Property and related treaties, under any and all Letters Patents which may be granted in any foreign country, and under any and all extensions, divisionals, reissues and continuations of said Letters Patents.

We request that any and all Patents for said inventions be issued to said assignee, its successor, assigns and legal representatives, or to such nominees as it may designate.

We agree that, when requested, we will, without charge to said assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining Patents for said inventions in any and all countries and for vesting title thereto in said assignee, its successors, assigns and legal representatives or nominees.

We covenant with said assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that we have full right to convey the same as herein expressed.

We hereby authorize our attorney,	SYLVIA A. AYLER	or an attorney with Power of Attorney in	this application, of
the said MERCK & CO., Inc., to insert Se	erial No., and Filing Date of		
Signed at MERCK & CO., INC		this Har day of MAY 1998	•
John M William	-		
JOHN M. WILNAMS		MELM. J. BRANDS	_

Rev. 8/19/96

Page 1 of 3

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DAVID R. THOMPSON Barrister & Solicitor 20450 Fraser Highway Langley, BC V3A 4G2

WITNESSED AS TO EXECUTION ONLY. NO ADVICE GIVEN NOR SOUGHT.

Page 2 of 3

PATENT JOINT Merck Case 19760

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Page 3 of 3

PATENT REEL: 010845 FRAME: 0112

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

RECORDATION FORM COVER SHEET PATENTS ONLY

	PLEASE RECORD TO			DOCUMENTS OR		₹,	
1.	Name(s) of Conveying party(ies):						
Ric	chard L. Kendall, Kenneth A. Thomas	Xianzhi Mao an	nd Andre	w Tebben			
Ad	ditional name(s) of conveying party(ies	;) attached?	Yes	X No			
2.	Nature of conveyance:		3	. Name and addr	ess of receiving	party(ies):	
	Assignment I hereby certify th	at this corresponder	nce is bein	ng Name: MERCI	K & Co., INC.		
	Merger deposited with the	United States Postal n an envelope add	I Service	Internal Addres	s: <u>RY60-30</u>		
	Security Agreem Assistant Commit	ssioner for Pater	nts, Was	Street Address:			
	Change of Name ington, D.C. 2023	, on the date appea	ering belo	^{₩.} City & State: <u>R</u>	AHWAY, NEW	JERSEY	
	Other:	CK & CO., INC.	-123/	Zip/Postal Code	e: <u>07065-0907</u>		
	Ву	Date	5/22/0	_			
F	execution Date: Jul 31, 1998				nal name(s) & ses attached?	Yes	⊠ No
	(a) Patent Application No(s). 09/09 and titled: HUMAN RECEPTOR TYROSII (b) If this document is being filed to	NE KINASE, KDF	w applica				
5.	Name & address of party to whom co			tal no. of applicati		_ 	
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	MERCK & CO., P.O. BOX 2000				nissioner is here posit account r		
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8.	Statement and signature:						
	To the best of my knowledge and bel	ief, the foregoing	; informa	ation is true and co	orrect and any at	ttached copy	is a true
	copy of the original document. J. Mark Hand Reg. N	lo. <u>36,545</u>	(Mark	260	Mari	2002 55
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Computer generated form Merck & Co., Inc. "Recordal Form" (Assignments Folder) 3/23/00 **PATENT**

REEL: 010845 FRAME: 0113

Commissioner of Patents and Trademarks

Box Assignments Washington, D.C. 20231

Mail documents to be recorded with the required cover sheet information to: