

Form **PTO-1595** (Rev. 03/ 01)

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OMB No. 0651-0027 (exp. 5/31/2002)	319
To the Honorable Commissioner of Patents and Trademarks: P	Please record the attached original documents or copy thereof
1. Name of conveying party(ies):  Phillip D. COOK, Ph.D., Guangyi WANG, Ph.D., Thomas W. BRUICE, M.D., Nicholas A. BOYLE, Ph.D., Janet M. LEEDS, Ph.D.,  Additional name(s) of conveying party(ies) attached?	2. Name and address of receiving party(ies)  Name: BIOTA, INC.  Internal Address:  Street Address:  2232 Rutherford Road
3. Nature of Conveyance:  X Assignment	City: Carlsbad  State: CA Zip: 92008  Additional name(s) & Yes X No address(es) attached:
If this document is being filed together with a new application, the ex A. Patent Application No.(s):  10/376,655 Filed: 02/28/2003  Additional numbers attached	B. Patent No.(s):
i. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:
Name: Carolyn A. Favorito MORRISON & FOERSTER LLP Internal Address: Atty. Dkt.: 524312000400 Street Address: 8811 Valley Centre, Suite 500  City: State: Zip: San Diego CA 92130	7. Total fee (37 CFR 3.41) \$ 40.00  Enclosed  X Authorized to be charged to deposit account  Authorized to be charged to credit card  (Form 2038 enclosed)  8. Deposit account number:  03-1952
	(Attach duplicate copy of this page if paying by deposit account)
DO NOT USE 1  D. Statement and signature.  To the best of my knowledge and belief, the foregoing infois a true copy of the original document.  Carolyn A. Favorito - 39, 183  Name of Person Signing	
BYRNE 00000039 <sup>T</sup> 0591 955 pher 1955 pages including cover sheet, attack	hments, and documents: 11
I hereby certify that this correspondence is being deposited with the an envelope addressed to: Commissioner for Patents, Washington  Dated: 5/43 Signature:	

**PATENT REEL: 014037 FRAME: 0439** 

Form PTO-1595 RECORDATION FORM COVER SHEET (continued)			
Additional Conveying Party(ies) (	(1. Continued):		
Jennifer L. BROOKS, Marija PRHAVC, Ph.I RAJWANSHI, Ph.D., and Kathleen D. TUCK		:. FAGAN, B.A. , Yi JIN , Vivek	K.
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		127-12-17-17-17-17-17-17-17-17-17-17-17-17-17-	
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Internal Address:			
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City	State:	Zin Codo:	
City:	State.	Zip Code:	
Additional Applications and/or Patents (4. Continued):			
Additional Patent Application Numbers 4A. Continued:	Additional Pate 4B. Continued		
Additional numbers attached? Ves No.			

Docket No.: 524312000400

## ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by Phillip D. COOK, Ph.D.; Guangyi WANG, Ph.D.; Thomas W. BRUICE, M.D.; Nicholas A. BOYLE, Ph.D.; Janet M. LEEDS, Ph.D.; Jennifer L. BROOKS; Marija PRHAVC, Ph.D.; M. E. ARIZA, M.D.; Patrick C. FAGAN, B.A.; Yi JIN; Vivek K. RAJWANSHI, Ph.D.; and Kathleen D. TUCKER, B.A. (hereinafter referred to as Assignors), residing at 5237 Olive Hill Road, Fallbrook, California 92028; 5066 Millay Court, Carlsbad, California 92008; 6880 Shearwaters Drive, Carlsbad, California 92009; 1715 Greentree Road, Encinitas, California 92024; 443 Dunsmore Court, Encinitas, California 92024; 1352 Ahlrich Avenue, Encinitas, California 92024; 1122 Cambria Way, Encinitas, California 92024; 1123 Calistoga Way, San Marcos, California 92078; 714 Calle Montera, Escondido, California 92025; 3643 Barranca Court, Carlsbad, California 92008; 1920 Wellington Lane #159, Vista, California 92983; and 714 Calle Montera, Escondido, California 92025, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in NUCLEOTIDE MIMICS AND THEIR PRODRUGS, set forth in a Patent application for Letters Patent of the United States, already filed on February 28, 2003 as U.S. application No. 10/376,655; and

WHEREAS, BIOTA, INC., a Corporation organized under and pursuant to the laws of Delaware having its principal place of business at 2232 Rutherford Road, Carlsbad, California 92008 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any

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PATENT REEL: 014037 FRAME: 0441 and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent abovementioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters

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Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

## MORRISON & FOERSTER LLP

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David L. Fehrman	28,600	Mika Mayer	47,777	Jie Zhou	52,395
Hector G. Gallegos	40,614	Gladys H. Monroy	32,430		

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

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Thomas W. Bruice, M.D.

State of California )	
County of SAN SIEGO ) ss.	
On APRILIO, 200 3 before me, appeared Thomas W. Bruice, M.D. to me on the basis of satisfactory evidence, to be subscribed to the within instrument and acknowle same in his/her/their authorized capacity(ies), and instrument the person(s), or the entity upon behalf	personally known to me proved the person whose name is/are edged to me that he/she/they executed the that by his/her/their signature on the
WITNESS my hand and official seal.  Weekly	CAROL CHRISTY COMM. #1344824 Motary Public-California SAN DIEGO COUNTY My Comm. Exp. March 1, 2006
Carac Creeny	Nicholas A. Boyle, Ph.D.
State of California )  County of SAN 1860 ) ss.	
On APRIL 10, 2003, before me,	edged to me that he/she/they executed the d that by his/her/their signature on the
WITNESS my hand and official seal.  Carll Mritty	GAROL CHRISTY COMM. #1344924 Notary Public-California SAN DIEGO COUNTY My Comm. Exp. March 1, 2006

	It m. feeds
	Janet M. Leeds, Ph.D.
State of California )	
County of SAN 11860 ) ss.	
In APRI/10, 2003, before me, appeared Janet M. Leeds, Ph.D. to me on the basis of satisfactory evidence, to be subscribed to the within instrument and acknowlessame in his/her/their authorized capacity (be), and	edged to me that-he/she/they executed the
nstrument the person(x) or the entity upon behal	f of which the person (a) acted, executed the
nstrument.	CAROL CHRISTY
WITNESS my hand and official seal.  Audi Mriaty	COMM. #1344924  Notary Public-California SAN DIEGO COUNTY My Comm. Exp. March 1, 2006
The Country of	
	Jennifer L. Brooks
State of California )	
County of SAN S1860) ss.	
County of SAN SEGO ) ss.  On ARI 10, 2003, before me, appeared Jennifer L. Brooks to me on the basis of satisfactory evidence, to be subscribed to the within instrument and acknowlessame in his/her/their authorized capacity(iss), and instrument the person(s), or the entity upon behalf	edged to me that he/she/they executed the distributed that by his/her/their signature on the
instrument.  WITNESS my hand and official seal.  Andle Maceter	CAROL CHRISTY COMM. #1344924 Notary Public-California SAN DIEGO COUNTY My Comm. Exp. March 1, 2006
carac cruly	

	Marija Prhavc, Ph.D.
State of California )	
County of SAN SIEGO ) ss.	
County of SAN SEGO S.  County of SAN SEGO S.  On ARIJO ROS, before me, appeared Marija Prhavc, Ph.D.  to me on the basis of satisfactory evidence, to be to subscribed to the within instrument and acknowle same in his/her/their authorized capacity(ies), and instrument the person (x), or the entity upon behalf instrument.	dged to me that he/she/they executed the that by his/her/their signature on the
WITNESS my hand and official seal.  Caul Christy	CAROL CHRISTY COMM. #1344924 Notary Public-California SAN DIEGO COUNTY My Comm. Exp. March 1, 2006
	M. E. Ariza, M.D.
State of California )  County of SANS/EGO ) ss.	
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	Satrick C. Fagan
	Patrick C. Fagan, B.A.
State of California )  County of SAN 1/260 ) ss.	
County of Charles )	
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WITNESS my hand and official seal.  **Delta Careety**	CAROL CHRISTY COMM. #1344924 Notary Public-California SAM DIEGO COUNTY My Comm. Exp. March 1, 2006
	Yi Jin
State of California )  County of $540 + 1260$ ) ss.	
County of SHA 1/860) ss.  On April 10, 3003, before me, appeared Yi Jin  to me on the basis of satisfactory evidence, to be subscribed to the within instrument and acknow same in his/her/their authorized capacity(bes), an instrument the person(s), or the entity upon behavioration and the same and the sa	ledged to me that he/she/they executed the nd that by his/her/their signature on the
WITNESS my hand and official seal.	CAROL CHRISTY COMM. #1344924 Notary Public-California SAN DIEGO COUNTY My Comm. Exp. March 1, 2006

Caral Chracy

Vivek K. Rajwanshi, Ph.D.

State of California )	
County of SAN \$1860 ) ss.	
On APRI/10, 2003, before me, appeared Vivek K. Rajwanshi, Ph.D. to me on the basis of satisfactory evidence, to be to subscribed to the within instrument and acknowled same in his/her/their authorized capacity(ies), and instrument the person(x), or the entity upon behalf instrument.  WITNESS my hand and official seal.  Authorized Capacity(ies), and instrument.	dged to me that he <del>/she/they</del> executed the that by his/her/their signature on the
	Kathleen D. Tucker, B.A.
	Ratificen D. Tucker, B.A.
State of California )  County of SAN 1EGO ) ss.	
On <u>MPI 10 2003</u> , before me, appeared <u>Kathleen D. Tucker, B.A.</u> to me on the basis of satisfactory evidence, to be t subscribed to the within instrument and acknowle same in his/her/their authorized capacity(ies), and instrument the person(s), or the entity upon behalf instrument.	dged to me that <del>he/she/they executed the</del> that by his/her/their signature on the
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WITNESS my hand and official seal.  (Andl Musty)	CAROL CHRISTY COMM. #1344924 Notary Public-California SAN DIEGO COUNTY My Comm. Exp. March 1, 2006

Rey	D. ask	
Phillip D. Coo	k, Ph.D.	

State of California )	
State of California )  County of SAN DIEGO ) ss.	
On APRIL 10, 2003, before me, appeared Phillip D. Cook, Ph.D. to me on the basis of satisfactory evidence, to be to subscribed to the within instrument and acknowle same in his/her/their authorized capacity(iss), and instrument the person(s), or the entity upon behalf instrument.  WITNESS my hand and official seal.  UMML. Chary	dged to me that he/she/they executed the that by his/her/their signature on the
	Guangyi Wang, Ph.D.
State of California )	
County of $SANDIEGO$ ) ss.	
On All 10, 2003, before me, appeared Guangyi Wang, Ph.D. to me on the basis of satisfactory evidence, to be to subscribed to the within instrument and acknowle same in his/her/their authorized capacity(hes), and instrument the person(hes), or the entity upon behalf instrument.	dged to me that he/ <del>she/the</del> y executed the that by his/ <del>her/their</del> signature on the
WITNESS my hand and official seal.	<b>****</b>
Caral Carrity	CAROL CHRISTY COMM, #1344924 Notary Public-California SAN DIEGO COUNTY My Comm. Exp. March 1, 2006

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RECORDED: 05/06/2003

PATENT REEL: 014037 FRAME: 0449