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PA	103129531	
11/29/03		
To the Director of the U.S. Patent and Trademark Office: Please	<del></del>	
Name of conveying party(les):     Ichiro HIRAO (09/28/2005), Shigeyuki	2. Name and address of receiving party(ies)	
YOKOYAMA (09/28/2005), Michiko HIRAO	Name: RIKEN	
(09/28/2005), and Tsuneo MITSUI ( <u>09/</u> 28/2 <u>005</u> )	Internal Address:	
Additional name(s) of conveying party(ies) attached? Yes X No	Street Address:	
3. Nature of conveyance/Execution Date(s):	2-1, Hirosawa,	
Execution Date(s): in parentheses after inventor name	Wako-Shi, Saitama 351-0198	
X Assignment Merger Change of Name	JAPAN	
Security Agreement Joint Research Agreement	City:	
Government Interest Assignment	State:	
Executive Order 9424, Confirmatory License	Country: Zip:	
Other	Additional name(s) & address(es) X Yes No attached:	
4. Application or patent number(s):  A. Patent Application No.(s)  10/521,454	Fhis document is being filed together with a new application.  B. Patent No.(s)	
Additional numbers attached?  5. Name and address to whom correspondence	6 Total number of applications and	
concerning document should be mailed:	patents involved:	
Name: Gerald M. Murphy, Jr. BIRCH, STEWART, KOLASCH & BIRCH,	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00	
Internal Address: Atty. Dkt.: 0230-0222PUS1	Authorized to be charged by credit card	
Street Address: 8110 Gatehouse Rd	Authorized to be charged to deposit account	
Suite 100 East	<del> </del>	
P.O. Box 747	Enclosed  X None required (government interest not affecting title)	
City: Falls Church	8. Payment Information	
State: VA Zip: 22040-0747	a. Credit Card Last 4 Numbers	
Phone Number: (703) 205-8000	Expiration Date	
Fax Number: (703) 205-8050	b. Deposit Account Number	
Email Address: mailroom@bskb.com	Authorized User Name	
9. Signature: #42.874	November 29, 2005	
Signature	Total number of pages including cover	
Gerald M, Murphy, Jr 28,977 Name of Person Signing	sheet, attachments, and documents:	
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Form PTO-1595	, RECOR	DATION FORM COVER SHEET (continued)		
Additional Conveying Party(ies)/Execution Date(s) (1. Continued):				
Additional A	ssignees (2. Continued):			
Assignee Name: Japan Science and Technology Agency				
Internal Address:				
Street Address:	4-1-8, Honcho, Kawaguchi-Shi, Saitama 332-0012 JAPAN			
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Assignee Name:				
Internal Address:				
Street Address:				
City:	State:	Country:	Zip:	
Assignee Name:				
Internal Address:			<del></del>	
Street Address:				
City:	State:	Country:	Zip:	
Additional A	applications and/or Paten	ts (4. Continued):		
	Application Numbers	Additional Patent Numbers 4B. Continued:		
4A. Conunceo.				
	Additional numbe	rs attached?		

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ATTORNEY DOCKET NO. 0230-0222PUS1

PATENT REEL: 017258 FRAME: 0384

## **ASSIGNMENT**

	Application No.	10/521,454	Filed January 14, 2005
Insert Name(s)	whereas	Ichiro HIRAO, Shigeyu	ki YOKOYAMA, Michiko HIRAO and
of Inventor(s)	Tsuneo MI	SUI	
	<del></del>		
	(hereinafter design	ated as the undersigned) has (have) i	nvented certain new and useful improvements in
Insert Title of Invention	NUCLEOSIDE	SOR NUCLEOTIDES HAVING !	NOVEL UNNATURAL BASES AND USE THEREOF
or mivendon			
	<del></del>		
	= = =	ation for Letters Patent of the United fa provisional application).	States of America has been executed by the undersigned
Insert Date	,		
of Signing of Application	on Septer	ber 28, 2005	; and
Insert Name	WHEREAS	RIKEN and JAPAN SCIENG	CE AND TECHNOLOGY AGENCY
of Assignee	William 1		
Insert Address	of 2-1, Hiro	sawa, Wako-shi, Saitama	351-0198 Japan and 4-1-8, Honcho,
of Assignee			
	<del></del>	-shi, Saitama 332-0012	(berginafter designated as the Assignee) is desirous of
		rs, legal representatives and assigns re right, title and interest in and to herefor in the United States of Amer	Sald Invention
CHECK BOX IF APPROPRIATE	in any and all f	oreign countries.	
IF APPROTRISTE	NOW, THE paid, the receipt of has (have) sold, Assignee the full dependencies and which may be grand if the box all	REFORE, in consideration of the su f which is hereby acknowledged, and assigned and transferred, and by the and exclusive right to the said invo d possessions and the entire right, the nted therefor in the United States of pove is designated, in any and all for	m of Ten Dollars (\$10.00) to the undersigned in hand other good and valuable consideration, the undersigned hese presents does sell, assign and transfer unto said ention in the United States of America, its territories, itle and interest in and to any and all Letters Patent(s) f America, its territories, dependencies and possessions, reign countries;
	and to any and a	ll divisions, reissues, continuations, o	conversions and extensions thereof for the full term or

Attorney Docket: 0230-0222PUS1

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP 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 U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date September 28, 2005	Name of Inventor			
Date Deptember 20, 2003	(signature) Ichiro HIRAO			
Date September 28, 2005	Name of Inventor			
	(signature) Shigeyuki WOKOYAMA			
Date September 28, 2005	Name of Inventor Jichiko HIRAO  (signature) Michiko HIRAO			
Date September 28, 2005	Name of Inventor Tsuneo Mitsur			
	(signature) Tsuneo MITSUI			
	Name of Inventor			
Date,	Name of Inventor			
Date,	Name of Inventor			
	(signature)			

PATENT REEL: 017258 FRAME: 0385