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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Emil D. Kakkis	06/10/2008
Michel C. Vellard	06/10/2008
Mubarack Muthalif	06/10/2008

RECEIVING PARTY DATA

Name:	BioMarin Pharmaceutical Inc.
Street Address:	105 Digital Drive
City:	Novato
State/Country:	CALIFORNIA
Postal Code:	94949

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12107731

CORRESPONDENCE DATA

Fax Number: (858)314-1150

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 8583141200

Email: Irraymond@jonesday.com

Correspondent Name: Tamera Weisser
Address Line 1: 222 East 41st Street

Address Line 2: Jones Day

Address Line 4: New York, NEW YORK 10017-6702

ATTORNEY DOCKET NUMBER:	11808-013-999
NAME OF SUBMITTER:	Tamera M. Weisser (Reg. No. 47.856)

Total Attachments: 2

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PATENT REEL: 021288 FRAME: 0950

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PATENT REEL: 021288 FRAME: 0951

ASSIGNMENT

MHEREAS, WE, Emil D. Kakkis, citizen of U.S.A., residing at 2512 Laguna Vista Drive, Novato, CA Michel C. Vellard, citizen of France, residing at 191 Oak Drive, San Rafael, CA 94901; and Mubarack Muthalif, India, residing at 40 Little Creek Lane, Novato, CA 94945, ASSIGNORS, are the inventors of the inventors of the inventors of PROKARYOTIC PHENYLALANINE AMMONIA-LYASE AND METHODS OF TREATMENT CANCER USING COMPOSITIONS THEREOF for which I have executed an application for a Patent of the United	citizen of ention in
☐ which is executed on ☐ even date herewith or ☐	
which is identified by Jones Day docket no. 11808-0013-999	
which was filed on April 22, 2008, Application No. 12/107,731	
I hereby authorize and request attorney(s) at Jones Day, 222 East 41st Street, New York, New York 10017-6702, to in parentheses (Application number, filed) the filing date and application num application when known.	insert here ber of said
and WHEREAS, BioMarin Pharmaceutical Inc., ASSIGNEE, is desirous of obtaining my entire right, title and interest i under the said invention and the said application:	n, to and
NOW, THEREFORE, in consideration of good and valuable consideration, the receipt of which is hereby acknowled the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the States which may be granted thereon and all reissues and extensions thereof, and all applications for industrial property princluding, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invany country or countries foreign to the United States, together with the right to file such applications and the right to claim for the priority rights derived from said United States application under the Patent Laws of the United States, the International Co for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patent models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the States and all extensions, renewals and reissues thereof;	set over, the said the United totection, ention in the same nvention any such
AND WE HEREBY authorize and request the Commissioner for Patents and any Official of any country or countries to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applica aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the term instrument.	
AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that not executed, and will not execute, any agreement in conflict herewith.	we have
AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successor representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention countries.	papers,
IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatule. Emil D.Kakkis	res. L.S.
State of Calyonia, Sounty of Main Sounty of Main Sounty of Main	
on June 10 2008 before me May May Que DF love	
WITNESS my hand and official seal MARY ANN J. FLORES Commission # 1769882	

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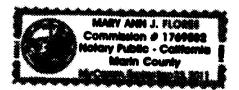
PATENT REEL: 021288 FRAME: 0952

L.S. Michel C. Vellard

State of Cabfornia County of Marin

2008, before me, *MANGAM* Notary Public, personally appeared Michel C. Vellard, personally known to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal



Mubarack Muthalif

County of Manual

and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal





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REEL: 021288 FRAME: 0953