

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Mark D. ERION</td> <td>03/28/2001</td> </tr> <tr> <td>K. Raja REDDY</td> <td>03/28/2001</td> </tr> <tr> <td>Serge H. BOYER</td> <td>03/28/2001</td> </tr> </tbody> </table>		Name	Execution Date	Mark D. ERION	03/28/2001	K. Raja REDDY	03/28/2001	Serge H. BOYER	03/28/2001				
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Metabasis Therapeutics, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>11085 North Torrey Pines Road</td> </tr> <tr> <td>Internal Address:</td> <td>Suite 300</td> </tr> <tr> <td>City:</td> <td>La Jolla</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>92037</td> </tr> </table>		Name:	Metabasis Therapeutics, Inc.	Street Address:	11085 North Torrey Pines Road	Internal Address:	Suite 300	City:	La Jolla	State/Country:	CALIFORNIA	Postal Code:	92037
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CORRESPONDENCE DATA													
<p>Fax Number: (202)942-5999</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 2029425000</p> <p>Email: Sandra.Tartisel@aporter.com</p> <p>Correspondent Name: Arnold & Porter LLP</p> <p>Address Line 1: 555 Twelfth Street, NW</p> <p>Address Line 2: Attn: IP Docketing</p> <p>Address Line 4: Washington, DISTRICT OF COLUMBIA 20004</p>													
ATTORNEY DOCKET NUMBER:	23032.173												
NAME OF SUBMITTER:	Milan M. Vinnola												
Total Attachments: 4													

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PATENT
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ASSIGNMENT

For valuable consideration, we, MARK D. ERION of Del Mar, California and a citizen of the United States of America; K. RAJA REDDY of San Diego, California and a citizen of the United States of America; and SERGE H. BOYER of San Diego, California and a citizen of France (hereinafter referred to as "Assignors") hereby assign to METABASIS THERAPEUTICS, INC., a corporation organized and existing under and by the virtue of the laws of the State of Delaware and having a place of business at 9390 Towne Centre Drive, San Diego, California 92121, USA, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the invention and improvements which are the subject of an application for United States Patent filed March 3, 2000, U.S. Serial No. 09/518,501 entitled **NOVEL PHOSPHORUS-CONTAINING PRODRUGS**, and related applications and patents, this assignment including said application, any and all United States and foreign patents granted for any of said inventions or improvements, including all divisions, continuations, reissues, continuations-in-part and extensions thereof, and the right to claim priority based on the filing date of said application and based on the filing date of any provisional application of which said application claims the benefit under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our names or in its own name for patents and like rights of exclusion and for inventor's certificates for said inventions and improvements; and we agree for ourselves and our heirs, legal representatives and assigns, without further compensation, upon request to perform such lawful acts, to promptly provide Assignee with all pertinent facts and documents relating to said invention or application as may be known and accessible to us, to testify in any interference or litigation related to said invention or application and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this Assignment.

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

Patent
030727.0013.CIP1

WITNESS my hand at San Diego, CA
this 28 day of March, 2001.

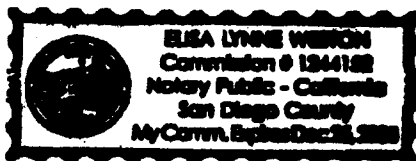
Mark D. Erion
MARK D. ERION

STATE OF California)
COUNTY OF San Diego) ss

On March 28, 2001 before me, Elisa Lynne Weston, Notary Public, personally appeared
MARK D. ERION

☒ personally known to me - OR - ☐ proved to me on the basis of satisfactory evidence to be the person~~(s)~~ whose name~~(s)~~ ~~(s)~~ subscribed to the within instrument and acknowledged to me that ~~he/she/they~~ executed the same in ~~his/her/their~~ authorized capacity~~(ies)~~, and that by ~~his/her/their~~ signature~~(s)~~ on the instrument the person~~(s)~~, or the entity upon behalf of which the person~~(s)~~ acted, executed the instrument.

WITNESS my hand and official seal.



Elisa Lynne Weston
Notary Public in and for said County and State

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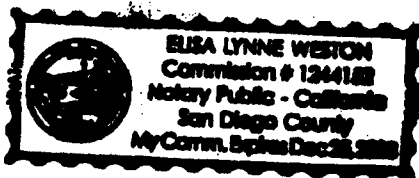
K. Raja Reddy
K. RAJA REDDY

STATE OF California)
COUNTY OF San Diego) ss

On March 28, 2001 before me, Elisa Lynne Weston, Notary Public, personally appeared
K. RAJA REDDY

☒ personally known to me - ~~OR~~ ☐ proved to me on the basis of satisfactory evidence to be the person ~~(s)~~ whose name ~~(s)~~ subscribed to the within instrument and acknowledged to me that ~~(s)~~ ~~he~~ ~~she~~ ~~it~~ executed the same in ~~his~~ ~~her~~ ~~their~~ authorized capacity ~~(ies)~~, and that by ~~his~~ ~~her~~ ~~their~~ signature ~~(s)~~ on the instrument the person ~~(s)~~, or the entity upon behalf of which the person ~~(s)~~ acted, executed the instrument.

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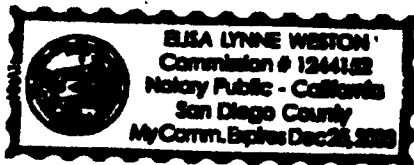
[Signature]
SERGE H. BOYER

STATE OF California)
COUNTY OF San Diego) ss

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SERGE H. BOYER

☒ personally known to me --OR-- ☐ proved to me on the basis of satisfactory evidence to be the person whose name subscribed to the within instrument and acknowledged to me that he/she/it executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



[Signature]
Notary Public in and for said County and State