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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Docket No. 245/049

101225139

To the Honorable Commissioner of Patents and Trademarks, original documents or copy thereof.

1. Name of conveying party(ies): Qun Dang, Srinivas Rao Kasibhatla, K. Raja Reddy, Mark D. Erion, M. Rami Reddy, Atul Agarwal Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party: Name: <u>Metabasis Therapeutics, Inc.</u> Internal Address: _____ City: _____ State: _____ Zip: _____ Street Address: <u>9390 Towne Centre Drive</u> City: <u>San Diego</u> State: <u>CA</u> Zip: <u>92121</u>
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____	Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Execution Date: <u>December 1st & December 2nd, 1999</u>	

4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is:	
A. Patent Application No(s): <u>09/389,698</u>	B. Patent No(s): _____
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Jessica R. Wolff</u> Internal Address: <u>LYON & LYON LLP</u> <u>633 West Fifth Street, Suite 4700</u> <u>Los Angeles, CA 90071-2066</u>	6. Total number of applications and patents involved: <u>1</u>
	7. Total fee (37 CFR 3.41): \$ <u>40.00</u> <input checked="" type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Charge this Deposit Account if any additional fee is required
	8. Deposit Account Number: <u>12-2475</u>

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9. 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. <u>Jessica R. Wolff</u> Jessica R. Wolff, Reg No. 37.261 Date: <u>December 9, 1999</u>	
Total number of pages including cover sheet: <u>9</u>	

OMB No. 0651-0011 (exp. 4/94)

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PATENT
REEL: 010435 FRAME: 0327

ASSIGNMENT OF PATENT APPLICATION

WHEREAS, WE, QUN DANG, a citizen of PEOPLE'S REPUBLIC OF CHINA, SRINIVAS RAO KASIBHATLA, a citizen of INDIA, K. RAJA REDDY, a citizen of INDIA, MARK D. ERION, a citizen of UNITED STATES, M. RAMI REDDY, a citizen of UNITED STATES, and ATUL AGARWAL, a citizen of INDIA (hereinafter referred to as "ASSIGNORS"), have invented and own a certain invention entitled NOVEL HETEROAROMATIC INHIBITORS OF FRUCTOSE 1,6-BISPHOSPHATASE for which application for Letters Patent of the United States of America has been filed on September 3, 1999, assigned Serial No. 09/389,698; and

WHEREAS, **METABASIS THERAPEUTICS, INC.**, a corporation organized and existing under and by virtue of the laws of the State of **Delaware** and having its principal place of business at **9390 Towne Centre Drive, San Diego, California 92121** (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the exclusive right, title and interest in, to and under said invention and in, to and under any Patent or similar legal protection to be obtained therefor in the United States of America, its territorial possessions and in any and all countries foreign thereto.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign, transfer and set over unto the said ASSIGNEE, its successors and assigns, the full and exclusive right, title and interest to said invention and to all Letters Patent or application or similar legal protection, not only in the United States and its territorial possessions, but in all countries foreign thereto to be obtained for said invention by said application, and to any continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in the United States or a foreign country for the full term or terms for which the same may be granted, including all priority rights under the International Convention; and

ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent or any legal equivalent thereof to said ASSIGNEE, its successors and assigns, in accordance with this Assignment.

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;

ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNORS and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents in the United States or in any foreign country, which may be necessary or desirable to carry out the purposes thereof.

WITNESS my hand at San Diego

California, this 1 day of Dec., 1999.

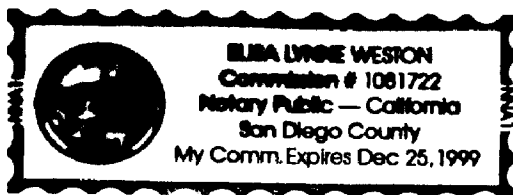

QUN DANG

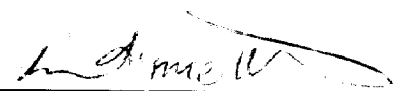
STATE OF CALIFORNIA)
) ss
COUNTY OF SAN DIEGO)

On Dec. 1, 1999 before me, Elisa Lynne Weston, Notary Public, personally appeared
Qun Dang

☒ personally known to me - ~~OR~~ - ☐ ~~proved to me on the basis of satisfactory evidence to~~
be the person(s) whose name(s) ~~is/are~~ 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.




Notary Public in and for said County and State

WITNESS my hand at San Diego,

California, this 1 day of December, 1999.

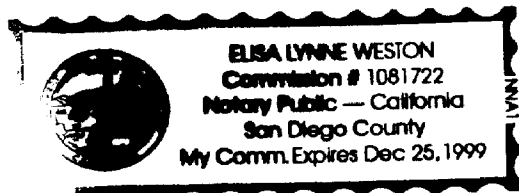
Srinivas Rao Kasibhatla
SRINIVAS RAO KASIBHATLA

STATE OF CALIFORNIA)
) ss
COUNTY OF SAN DIEGO)

On Dec. 1, 1999 before me, Elisa Lynne Weston, Notary, ^{Public} personally appeared
Srinivas Rao Kasibhatla

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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



Patent
245/049

WITNESS my hand at San Diego

California, this 1 day of December, 1999.

K. Raja Reddy

K. RAJA REDDY

STATE OF CALIFORNIA)

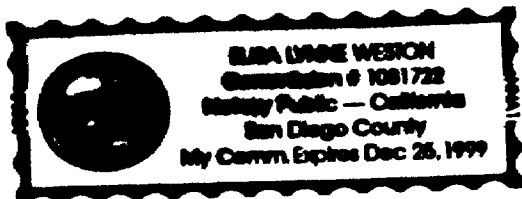
) ss

COUNTY OF SAN DIEGO)

On Dec. 1, 1999 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) is/are 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

WITNESS my hand at San Diego

California, this 2 day of December, 1999.

Mark D. Erion
MARK D. ERION

STATE OF CALIFORNIA)
) ss
COUNTY OF SAN DIEGO)

On Dec. 2, 1999 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) ~~is/are~~ 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

WITNESS my hand at San Diego

California, this 1 day of December, 1999.

M. Ram Reddy
M. RAMI REDDY

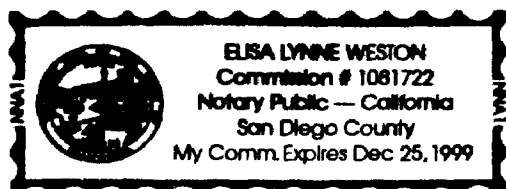
STATE OF CALIFORNIA)
) ss
COUNTY OF SAN DIEGO)

Public

On Dec. 1, 1999 before me, Elisa Lynne Weston, Notary, personally appeared
M. Ram Reddy

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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

WITNESS my hand at San Diego

California, this 1 day of December, 1999.

Atul Agarwal
ATUL AGARWAL

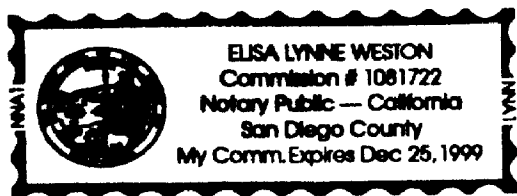
STATE OF CALIFORNIA)
) ss
COUNTY OF SAN DIEGO)

Public

On Dec. 1, 1999 before me, Elisa Lynne Weston, Notary, personally appeared
Atul Agarwal

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WITNESS my hand and official seal.



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