U.S. DEPARTMENT OF COMMERCE MODIFIED Form PTO-159 U.S. Patent and Trademark Office (Rev. 10/02) 103179978 To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): 2. Name and address of receiving party(ies): Nicoletta BIANCHI ITA' DEGLI STUDI DI FERRARA Monica BORGATTI Via Savanarola 9 FEB 1 8 2006 I-44100 Ferrara Italy Roberto GAMBARI Carlo MISCHIATI ASSOCIAZIONE VENETA PER LA LOTTA ALLA **TALASSEMIA** c/o Centro Microcitemia Dell'Azienda ULSS 18 Additional name(s) of conveying party(ies) attached? ☐ Yes ☑ No I-45100 Rovigo Italy 3. Nature of conveyance: ☑ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other Execution Date: February 14, 2005 ☑ No 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) B. Patent No.(s) 10/519,990 Additional numbers attached? ☐ Yes ☑ No 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: concerning document should be mailed: 7. Total fee (37 CFR 3.41): SUGHRUE MION, PLLC \$40.00 ☑ Enclosed. WASHINGTON OFFICE ☐ Authorized to be charged to Deposit Account No. 19-4880. 23373 The USPTO is directed and authorized to charge all required CUSTOMER NUMBER fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. 8. Deposit Account Number: 19-4880 (Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE 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 dodument. Robert V. Sloan

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PATENT

REEL: 017557 FRAME: 0938

ASSIGNMENT

Whereas, We, Nicoletta BIANCHI, Monica BORGATTI, Roberto GAMBARI and Carlo MISCHIATI, Italian citizens residing respectively at: Via G. Matteotti 10/A, I-44020 MEZZOGORO (Ferrara) Italy; Via Menotti Cova 6, I-44100 FERRARA (Italy); Via Normandia 17, I-40132 BOLOGNA (Italy) and Via Don Minzoni 99, I-45030 ROVIGO (Italy)

have invented a certain improvement in "A novel use of rapamycin and structural analogues thereof"

for which We have executed an application for Letters Patent of the United States herewith and whereas

UNIVERSITA' DEGLI STUDI DI FERRARA Via Savonarola 9 I-44100 FERRARA (Italy)

ASSOCIAZIONE VENETA PER LA LOTTA ALLA TALASSEMIA C/o Centro Microcitemia Dell'Azienda ULSS 18 I-45100 ROVIGO (Italy)

is desirous of acquiring an interest therein.

Now, therefore in consideration of the sum of One Dollar, the receipt of which is hereby acknowledged, We, Nicoletta BIANCHI, Monica BORGATTI, Roberto GAMBARI and Carlo MISCHIATI

by these presents do sell, assign and transfer unto the said UNIVERSITA' DEGLI STUDI DI FERRARA and ASSOCIAZIONE VENETA PER LA LOTTA ALLA TALASSEMIA

the full and exclusive right to the said invention, as described in the specification executed by us of even date herewith preparatory to obtaining Letters Patent in the United States therefor; and hereby request the Commissioner of Patents to issue said Letters Patent to UNIVERSITA' DEGLI STUDI DI FERRARA and ASSOCIAZIONE VENETA PER LA LOTTA ALLA TALASSEMIA

as the assignee, for their interest, for the sole use and behoof of said UNIVERSITA' DEGLI STUDI DI FERRARA and ASSOCIAZIONE VENETA PER LA LOTTA ALLA TALASSEMIA and their legal representatives, successors and assigns, to the full end of the term for which said Letters Patent are granted, as fully and entirely as the same would have been held by us had this assignment and sale not been made.

PATENT REEL: 017557 FRAME: 0939 We hereby authorize and request the law firm of SUGHRUE MION, PLLC (USPTO Customer Number 23373) the power to insert on this Assignment any further identification (such as series code along with U.S. Serial Number /Patent Number) 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.

Executed this 14th day of February

PRUF. ROBERTS HANSERVIGH

2005

Nicoletta BIANCH

Monica BORGATTI

Roberto GAMBARI

Carlo MISCHIATI

PATENT REEL: 017557 FRAME: 0940

RECORDED: 02/13/2006