

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

| SUBMISSION TYPE:                                                                                                                                                                                                                                                                                                                                                                                                                         | NEW ASSIGNMENT                                               |               |                                                              |                           |                       |               |                    |                |            |                |            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|---------------|--------------------------------------------------------------|---------------------------|-----------------------|---------------|--------------------|----------------|------------|----------------|------------|
| NATURE OF CONVEYANCE:                                                                                                                                                                                                                                                                                                                                                                                                                    | ASSIGNMENT                                                   |               |                                                              |                           |                       |               |                    |                |            |                |            |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                                                                                                                                                                                                                                                              |                                                              |               |                                                              |                           |                       |               |                    |                |            |                |            |
| <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>Maria Emilia DI FRANCESCO</td> <td>12/01/2008</td> </tr> <tr> <td>Emanuela NIZI</td> <td>12/01/2008</td> </tr> <tr> <td>Paola PACE</td> <td>12/01/2008</td> </tr> <tr> <td>Vincenzo SUMMA</td> <td>12/01/2008</td> </tr> </tbody> </table> |                                                              | Name          | Execution Date                                               | Maria Emilia DI FRANCESCO | 12/01/2008            | Emanuela NIZI | 12/01/2008         | Paola PACE     | 12/01/2008 | Vincenzo SUMMA | 12/01/2008 |
| Name                                                                                                                                                                                                                                                                                                                                                                                                                                     | Execution Date                                               |               |                                                              |                           |                       |               |                    |                |            |                |            |
| Maria Emilia DI FRANCESCO                                                                                                                                                                                                                                                                                                                                                                                                                | 12/01/2008                                                   |               |                                                              |                           |                       |               |                    |                |            |                |            |
| Emanuela NIZI                                                                                                                                                                                                                                                                                                                                                                                                                            | 12/01/2008                                                   |               |                                                              |                           |                       |               |                    |                |            |                |            |
| Paola PACE                                                                                                                                                                                                                                                                                                                                                                                                                               | 12/01/2008                                                   |               |                                                              |                           |                       |               |                    |                |            |                |            |
| Vincenzo SUMMA                                                                                                                                                                                                                                                                                                                                                                                                                           | 12/01/2008                                                   |               |                                                              |                           |                       |               |                    |                |            |                |            |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                                                                                                                                                                                                                                                              |                                                              |               |                                                              |                           |                       |               |                    |                |            |                |            |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Istituto Di Ricerche Di Biologia Molecolare P. Angeletti SpA</td> </tr> <tr> <td>Street Address:</td> <td>Via Pontina KM 30.600</td> </tr> <tr> <td>City:</td> <td>00040 Pomezia Rome</td> </tr> <tr> <td>State/Country:</td> <td>ITALY</td> </tr> </table>                                                               |                                                              | Name:         | Istituto Di Ricerche Di Biologia Molecolare P. Angeletti SpA | Street Address:           | Via Pontina KM 30.600 | City:         | 00040 Pomezia Rome | State/Country: | ITALY      |                |            |
| Name:                                                                                                                                                                                                                                                                                                                                                                                                                                    | Istituto Di Ricerche Di Biologia Molecolare P. Angeletti SpA |               |                                                              |                           |                       |               |                    |                |            |                |            |
| Street Address:                                                                                                                                                                                                                                                                                                                                                                                                                          | Via Pontina KM 30.600                                        |               |                                                              |                           |                       |               |                    |                |            |                |            |
| City:                                                                                                                                                                                                                                                                                                                                                                                                                                    | 00040 Pomezia Rome                                           |               |                                                              |                           |                       |               |                    |                |            |                |            |
| State/Country:                                                                                                                                                                                                                                                                                                                                                                                                                           | ITALY                                                        |               |                                                              |                           |                       |               |                    |                |            |                |            |
| PROPERTY NUMBERS Total: 1                                                                                                                                                                                                                                                                                                                                                                                                                |                                                              |               |                                                              |                           |                       |               |                    |                |            |                |            |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12300887</td> </tr> </tbody> </table>                                                                                                                                                                        |                                                              | Property Type | Number                                                       | Application Number:       | 12300887              |               |                    |                |            |                |            |
| Property Type                                                                                                                                                                                                                                                                                                                                                                                                                            | Number                                                       |               |                                                              |                           |                       |               |                    |                |            |                |            |
| Application Number:                                                                                                                                                                                                                                                                                                                                                                                                                      | 12300887                                                     |               |                                                              |                           |                       |               |                    |                |            |                |            |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                                                                                                                                                                                                                                                               |                                                              |               |                                                              |                           |                       |               |                    |                |            |                |            |
| <p>Fax Number: (732)594-4720</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 732-594-7159</p> <p>Email: kelly_panno@merck.com</p> <p>Correspondent Name: Julie M. Lake</p> <p>Address Line 1: 126 East Lincoln Avenue</p> <p>Address Line 2: RY60-30</p> <p>Address Line 4: Rahway, NEW JERSEY 07065-0907</p>                                                                  |                                                              |               |                                                              |                           |                       |               |                    |                |            |                |            |
| ATTORNEY DOCKET NUMBER:                                                                                                                                                                                                                                                                                                                                                                                                                  | IRT-IFD-0116                                                 |               |                                                              |                           |                       |               |                    |                |            |                |            |
| NAME OF SUBMITTER:                                                                                                                                                                                                                                                                                                                                                                                                                       | Julie M. Lake                                                |               |                                                              |                           |                       |               |                    |                |            |                |            |
| <p>Total Attachments: 2</p> <p>source=ASSIGNMENT-IRBM-14May2009#page1.tif</p>                                                                                                                                                                                                                                                                                                                                                            |                                                              |               |                                                              |                           |                       |               |                    |                |            |                |            |

CH \$40.00 12300887

**500860017**

**PATENT**  
**REEL: 022684 FRAME: 0342**



**ASSIGNMENT AND AGREEMENT**

For value received, I/we, Maria Emilia DI FRANCESCO; Emanuela NIZI; Paola PACE; Vincenzo SUMMA

residing at: Istituto di Ricerche di Biologia Molecolare P. Angeletti SpA, Via Pontina KM 30.600, I-00040 Pomezia, (Rome) ITALY

hereby sell, assign and transfer to Istituto di Ricerche di Biologia Molecolare P. Angeletti SpA, a corporation having an office at Via Pontina KM 30.600, I-00040 Pomezia, (Rome), ITALY, and its successors, assigns and legal representatives, my/our entire right, title and interest, for all countries, in and to certain inventions relating to

**MACROCYCLIC COMPOUNDS AS ANTIVIRAL AGENTS**

described in an application for Patents having Attorney Docket Number IRT-IFD-0116 and in application(s)

Serial No. 0609492.4 filed on 05/15/2006 ; Serial No. filed on ;

Serial No. filed on (if applicable),

and all my/our rights and privileges, including any and all benefits under the International Convention for the Protection of Industrial Property, under any and all Patents which may be granted therefor, and under any and all extensions, divisionals, reissues and continuations of said application for Patents, including any foreign applications derived therefrom, equivalent thereto or claiming priority thereof.

I/we request that any and all Patents for said inventions be issued to said assignee, its successor, assigns and legal representatives, or to such nominees as it may designate.

I/we agree that, when requested, I/we will, without charge to said assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining Patents for said inventions in any and all countries and for vesting title thereto in said assignee, its successors, assigns and legal representatives or nominees.

I/we covenant with said assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that I/we have full right to convey the same as herein expressed.

This document may be executed in any number of counterparts, each of which so executed shall be deemed to be an original, but all such counterparts shall together constitute but one and the same document.

I/we hereby authorize the attorney, Julie M. Lake or an attorney with Power of Attorney in this application, to insert Serial No. (s), PCT Appl. No. (s) and Filing Date (s) of said application(s) when known.

Attorney Docket Number IRT-IPD-0116U.S. Serial No. 12/300,887Filing Date Nov. 14, 2008PCT Appl. No. PCT/EP2007/054594Filing Date May 11, 2007

## ASSIGNMENT AND AGREEMENT

Signed at ROMEZIA (Rome) this 1st day of DECEMBER 2008

Maria Emilia Di Francesco  
Maria Emilia DI FRANCESCO

Emanuela Nizi  
Emanuela NIZI

Paola Pace  
Paola PACE

Vincenzo Summa  
Vincenzo SUMMA

Personally appeared before me the above-named Maria Emilia DI FRANCESCO,  
Emanuela NIZI,  
Paola PACE,  
Vincenzo SUMMA

to me known and known to me to be the person(s) who executed the foregoing instrument and acknowledged said instrument to be  
their free act and deed this 1st day of DECEMBER, 2008

James J. [Signature]