**PATENT ASSIGNMENT**

Electronic Version v07  
Stylesheet Version v02

**SUBMISSION TYPE:** NEW ASSIGNMENT  
**NATURE OF CONVEYANCE:** ASSIGNMENT OF ASSIGNOR'S INTEREST

**CONVEYING PARTY DATA**

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<th>Name</th>
<th>Execution Date</th>
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<tr>
<td>Rainer ORTMANN</td>
<td>2004-01-06</td>
</tr>
<tr>
<td>Rainer LUOND</td>
<td>2003-12-12</td>
</tr>
<tr>
<td>Matthias STAUFENBIEL</td>
<td>2003-12-15</td>
</tr>
<tr>
<td>Peter FREY</td>
<td>2003-12-12</td>
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**RECEIVING PARTY DATA**

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<th>Name</th>
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<th>State/Country</th>
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<td>Novartis Pharma AG</td>
<td>Lichtstrasse 35</td>
<td></td>
<td>Basel</td>
<td>SWITZERLAND</td>
<td>CH-4002</td>
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**PROPERTY NUMBERS  Total: 1**

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<td>Application Number</td>
<td>10622087</td>
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**CORRESPONDENCE DATA**

FAX NUMBER: 202-371-2540  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*

When the customer number has been provided, the Office of Public Records will obtain the correspondence data from the official record on file at the USPTO.

CUSTOMER NUMBER: 026111

**NAME OF PERSON SIGNING:** Brian J. Del Buono

**DATE SIGNED:** 2004-01-22

Total Attachments: 4  
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ASSIGNMENT

In consideration of the sum of One Dollar ($1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventors: (1) Rainer ORTMANN, (2) Rainer LÜOND, (3) Matthias STAUFENBIEL and (4) Peter FREY, the undersigned inventors hereby sells and assigns to Novartis Pharma AG (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages:

check applicable box(es)

☑ for the United States of America (as defined in 35 U.S.C. § 100),
☑ and throughout the world,

(a) in the invention known as Molecular Antigen Arrays for which application for patent in the United States of America has been executed by the undersigned on (1) 1/6/04, (2) 1/12/05, (3) 1/15/03 and (4) 12/12/03, (also known as United States Application No. 10/622,087, filed July 18, 2003), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing (continuation, divisional, or continuation-in-part) applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor’s certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.
The undersigned inventors hereby represent that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventors hereby grant Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 28,893; Tracy-Gene G. Durkin, Esquire, Registration No. 34,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokoohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; Steven R. Ludwig, Esquire, Registration No. 36,203; John M. Covert, Esquire, Registration No. 38,759; Linda E. Alcorn, Esquire, Registration No. 39,588; Lawrence B. Bugaisky, Esquire, Registration No. 35,086; Donald J. Featherstone, Esquire, Registration No. 33,876; Robert C. Millonig, Esquire, Registration No. 34,395; Michael V. Messinger, Esq., Registration No. 37,575; Judith U. Kim, Esq., Registration No. 40,679; Timothy J. Shea, Jr., Esq., Registration No. 41,306; and Patrick E. Garrett, Esq., Registration No. 39,987; all of TERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventors on the date opposite his/her name.

Date: 01/06/2004  Signature of Inventor: ____________________________

Rainer ORTMANN

Date: ____________________________________________  Signature of Inventor: ____________________________

Rainer LUÖND

Date: ____________________________________________  Signature of Inventor: ____________________________

Matthias STAUFENBIEL

Date: ____________________________________________  Signature of Inventor: ____________________________

Peter FREY

SKGF_OCI:19191R1
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Rainer ORTMANN

Date: ____________________________  Signature of Inventor: ____________________________
Rainer LUOND

Date: ____________________________  Signature of Inventor: ____________________________
Mathias STAUFENBIEL

Date: ____________________________  Signature of Inventor: ____________________________
Peter FREY
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Date: ___________________________ Signature of Inventor: ________________

Rainer ORTMANN

Date: ___________________________ Signature of Inventor: ________________

Rainer LOÜND

Date: 15.12.2003 Signature of Inventor: _____________________________

Matthias STAUFENBIHEL

Date: 12.12.2003 Signature of Inventor: _____________________________

Peter FREY