

Substitute Form PTO-1595
Attorney Docket No.: 09010-029007

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1. Name of conveying party(ies):
Jay M. Short, Keith Kretz, Kevin A. Gray, Nelson R. Barton, James B. Garrett, Eileen O'Donoghue, Eric J. Mathur and
Additional name(s) attached? Yes No

2. Name and address of receiving party(ies):
Diversa Corporation
4955 Directors Place
San Diego, CA 92121-1609
Additional names/addresses attached? Yes No

3. Nature of conveyance:
 Assignment
 Merger
 Security Agreement
 Change of Name
 Other:
Execution Date: 08/13/2002;
08/12/2002;08/16/2002; 08/09/2002; 08/16/2002;
08/14/2002; 08/13/2002

4. Application number(s) or patent number(s):
If this document is being filed with a new application, the execution date of the application is:
A. Patent Application No(s):
10/156,660
B. Patent No(s):
Additional numbers attached? Yes No

5. Name/address of party to whom correspondence concerning document should be mailed:
MI K. KIM
Fish & Richardson P.C.
4350 La Jolla Village Drive, Suite 500
San Diego, California 92122

6. Total number of applications/patents involved: 1

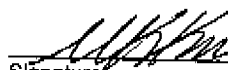
7. Total fee (37 CFR §3.41): \$40
 Enclosed
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8. Deposit Account No.: 06-1050
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Mi K. Kim
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Signature

Sept 25, 2002
Date

Total number of pages including coversheet, attachments and document: 6

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PATENT

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ASSIGNMENT

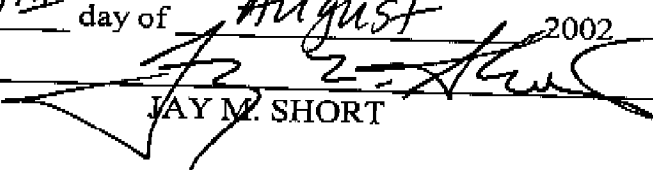
For valuable consideration, we, JAY M. SHORT of 6801 Paseo Delicias, Box 7214 Rancho Santa Fe, CA 92067-7214, KEITH KRETZ of 973 Hawthorne Court, San Marcos, CA 92069, KEVIN A. GRAY of 12119 Eleanore Court, San Diego, CA 92121, NELSON R. BARTON of 10928 Sunset Ridge Drive, San Diego, CA 92131, JAMES B. GARRETT of 13605 Sycamore Tree Lane, Poway, CA 92064, EILEEN O'DONOGHUE of 1073 Loring Street, San Diego, CA 92107, and ERIC J. MATHUR of 2654 Galicia Way, Carlsbad, CA 92009, hereby assign to: Diversa Corporation, a Delaware corporation having a place of business at:

4955 Directors Place
San Diego, CA 92121-1609

and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the invention(s) and improvement(s) which are subject of an application for United States Patent signed by us, entitled, PHYTASES, NUCLEIC ACIDS ENCODING THEM AND METHODS FOR MAKING AND USING THEM, filed May 24, 2002, and assigned U.S. Serial Number 10/156,660; and we authorize and request the attorney(s) appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of future related applications when known and to insert on this Assignment any further identification, including 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; and we authorize and request the attorney(s) appointed in said application to hereafter insert the filing date(s) and serial number(s) of related continuations, divisionals, continuations-in-part (CIPs), reissues, re-examinations, and international applications when known. This assignment includes the application(s) cited herein and any and all related United States patent applications, including divisionals, reissues, re-examinations, continuations, CIPs, any and all United States and foreign patents, utility models, and design registrations granted for any of said invention(s) or improvement(s), and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent

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Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said invention(s) and improvement(s); and we agree for us and our respective heirs, legal representatives, successors and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at San Diego, CA
this 13th day of August, 2002


JAY M. SHORT L.S.

IN WITNESS WHEREOF, I hereto set my hand and seal at _____
this _____ day of _____, 2002

KEITH KRETZ L.S.

IN WITNESS WHEREOF, I hereto set my hand and seal at _____
this _____ day of _____, 2002

KEVIN A. GRAY L.S.

Attorney Docket No: 09010-029007
United States Patent Application No. 10/156,660
Assignment
Page 2 of 3

Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said invention(s) and improvement(s); and we agree for us and our respective heirs, legal representatives, successors and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at _____,
this _____ day of _____, 2002

JAY M. SHORT L.S.

IN WITNESS WHEREOF, I hereto set my hand and seal at San Diego, CA,
this 12th day of August, 2002

Keith A. Kretz

KEITH KRETZ L.S.

IN WITNESS WHEREOF, I hereto set my hand and seal at _____,
this _____ day of _____, 2002

KEVIN A. GRAY L.S.

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United States Patent Application No. 10/156,660
Assignment
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Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said invention(s) and improvement(s); and we agree for us and our respective heirs, legal representatives, successors and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at _____
this _____ day of _____, 2002

JAY M. SHORT L.S.

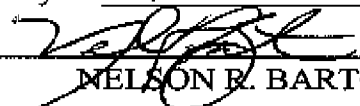
IN WITNESS WHEREOF, I hereto set my hand and seal at _____
this _____ day of _____, 2002

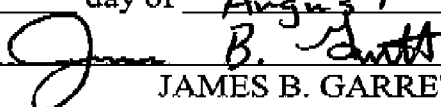
KEITH KRETZ L.S.

IN WITNESS WHEREOF, I hereto set my hand and seal at San Diego, CA
this 16th day of August, 2002


KEVIN A. GRAY L.S.

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Assignment
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IN WITNESS WHEREOF, I hereto set my hand and seal at SAN DIEGO,
this 9th day of AUGUST, 2002
 L.S.
NELSON R. BARTON

IN WITNESS WHEREOF, I hereto set my hand and seal at San Diego, CA,
this 16th day of August, 2002
 L.S.
JAMES B. GARRETT

IN WITNESS WHEREOF, I hereto set my hand and seal at SAN DIEGO CA.,
this 14 day of AUGUST, 2002
 L.S.
EILEEN O'DONOGHUE

IN WITNESS WHEREOF, I hereto set my hand and seal at DIVERSA,
this 13th day of AUGUST, 2002
 L.S.
ERIC J. MATHUR

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