

Form PTO-1594 (Rev. 06/04)
OMB Collection 0851-0027 (exp. 6/30/2005)

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

RECORDATION FORM COVER SHEET TRADEMARKS ONLY

To the Director of the U. S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

Lynx Therapeutics, Inc.

- Individual(s)
- General Partnership
- Corporation-State
- Other: _____
- Association
- Limited Partnership

Citizenship: DE

Execution Date(s): 12/28/04

Additional names of conveying parties attached? Yes No

2. Name and address of receiving party(ies):

Additional names, addresses, or citizenship attached? Yes No

Name: Silicon Valley Bank dba Silicon Valley East

Internal Address: _____

Street Address: 3003 Tasman Drive

City: Santa Clara

State: CA

Country: US Zip: 95054

- Association
- General Partnership
- Limited Partnership
- Corporation
- Other: Chartered Bank

Citizenship: _____
Citizenship: _____
Citizenship: _____
Citizenship: _____
Citizenship: CA

If assignee is not domiciled in the United States, a domestic representative designation is attached: Yes No
(Designations must be a separate document from assignment)

4. Application number(s) or registration number(s) and

A. Trademark Application No.(s):

75/631946 76/162496

Identification or description of the Trademark(s):

B. Trademark Registration No.(s):

2607815 2756427 2650334 2503036 2505260
2646805 2640604 2661846 2661848 2586627
2856295

Additional sheet(s) attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Christopher E. Kondracki

Address: 2001 Jefferson Davis Highway

Suite 1007

Arlington, Virginia 22202

Phone Number: (703) 415-1555

Fax Number: (703) 415-1557

Email Address: _____

6. Total number of applications and registrations involved:

13

7. Total Fee (37 CFR 2.6(b)(6) & 3.41):


\$ 340.00

- Authorized to be charged by credit card
- Authorized to be charged by Deposit Account
- Fees Enclosed

8. Payment Information:

Deposit Account Number: 19-3545

Authorized User Name: Christopher E. Kondracki

9. Signature: 
Signature

January 4, 2005
Date

Christopher E. Kondracki
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: **32**

CH \$340.00 193545 75631946

INTELLECTUAL PROPERTY SECURITY AGREEMENT

This Intellectual Property Security Agreement (this "IP Agreement") is made as of the 28th day of December, 2004 by and between LYNX THERAPEUTICS, INC., a Delaware corporation with its principal place of business at 25861 Industrial Boulevard, Hayward, California 94545 ("Grantor"), and SILICON VALLEY BANK, a California-chartered bank, with its principal place of business at 3003 Tasman Drive, Santa Clara, California 95054 and with a loan production office located at One Newton Executive Park, Suite 200, 2221 Washington Street, Newton, Massachusetts 02462, doing business under the name "Silicon Valley East" ("Lender").

RECITALS

A. Lender has agreed to make advances of money and to extend certain financial accommodations to Grantor (the "Loan"), pursuant to a certain Loan and Security Agreement dated as of December 28, 2004 between Grantor and Lender, as amended from time to time (as amended, the "Loan Agreement"). The Loan is secured pursuant to the terms of the Loan Agreement. Lender is willing to enter into certain financial accommodations with Grantor, but only upon the condition, among others, that Grantor shall grant to Lender a security interest in certain Copyrights, Trademarks, Patents, and Mask Works, and other assets, to secure the obligations of Grantor under the Loan Agreement. Defined terms used but not defined herein shall have the same meanings as in the Loan Agreement.

B. Pursuant to the terms of the Loan Agreement, Grantor has granted to Lender a security interest in all of Grantor's right title and interest, whether presently existing or hereafter acquired in, to and under all of the Collateral (as defined therein).

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged and intending to be legally bound, as collateral security for the prompt and complete payment when due of Grantor's Indebtedness (as defined below), Grantor hereby represents, warrants, covenants and agrees as follows:

1. Grant of Security Interest. As collateral security for the prompt and complete payment and performance of all of Grantor's present or future indebtedness, obligations and liabilities to Lender (hereinafter, the "Indebtedness"), including, without limitation, under the Loan Agreement, Grantor hereby grants a security interest in all of Grantor's right, title and interest in, to and under its registered and unregistered intellectual property collateral (all of which shall collectively be called the "Intellectual Property Collateral"), including, without limitation, the following:

(a) Any and all copyright rights, copyright applications, copyright registrations and like protections in each work or authorship and derivative work thereof, whether published or unpublished, registered or unregistered, and whether or not the same also constitutes a trade secret, now or hereafter existing, created, acquired or held, including without limitation those set forth on EXHIBIT A attached hereto (collectively, the "Copyrights");

(b) Any and all trade secret rights, including any rights to unpatented inventions, know-how, operating manuals, license rights and agreements, and confidential information, and any and all intellectual property rights in computer software and computer software products now or hereafter existing, created, acquired or held;

(c) Any and all design rights which may be available to Grantor now or hereafter existing, created, acquired or held;

(d) All patents, patent applications and like protections including, without limitation, improvements, divisions, continuations, renewals, reissues, extensions and continuations-in-part of the same, including without limitation the patents and patent applications set forth on EXHIBIT B attached hereto (collectively, the "Patents");

(e) Any trademark and service mark rights, slogans, trade dress, and tradenames, trade styles, whether registered or not, applications to register and registrations of the same and like protections, and the entire goodwill of the business of Grantor connected with and symbolized by such trademarks, including without limitation those set forth on EXHIBIT C attached hereto (collectively, the "Trademarks");

(f) All mask works or similar rights available for the protection of semiconductor chips, now owned or hereafter acquired, including, without limitation those set forth on EXHIBIT D attached hereto (collectively, the "Mask Works");

(g) Any and all claims for damages by way of past, present and future infringements of any of the rights included above, with the right, but not the obligation, to sue for and collect such damages for said use or infringement of the intellectual property rights identified above;

(h) All licenses or other rights to use any of the Copyrights, Patents, Trademarks, or Mask Works and all license fees and royalties arising from such use to the extent permitted by such license or rights, including, without limitation those set forth on EXHIBIT E attached hereto (collectively, the "Licenses");

(i) All amendments, extensions, renewals and extensions of any of the Copyrights, Trademarks, Patents, or Mask Works; and

(j) All proceeds and products of the foregoing, including without limitation all payments under insurance or any indemnity or warranty payable in respect of any of the foregoing.

2. Authorization and Request. Grantor authorizes and requests that the Register of Copyrights and the Commissioner of Patents and Trademarks record this IP Agreement, and any amendments thereto, or copies hereof.

3. Covenants and Warranties. Grantor represents, warrants, covenants and agrees as follows:

(a) Except as set forth in the Perfection Certificate, Grantor is now the sole owner of the Intellectual Property Collateral, except for non-exclusive licenses granted by Grantor to its customers in the ordinary course of business;

(b) Performance of this IP Agreement does not conflict with or result in a breach of any material agreement to which Grantor is bound;

(c) During the term of this IP Agreement, Grantor will not transfer or otherwise encumber any interest in the Intellectual Property Collateral, except for non-exclusive licenses granted by Grantor in the ordinary course of business or as set forth in this IP Agreement;

(d) To its knowledge, each of the Patents is valid and enforceable, and no part of the Intellectual Property Collateral has been judged invalid or unenforceable, in whole or in part, and no claim has been made that any part of the Intellectual Property Collateral violates the rights of any third party;

(e) Grantor shall promptly advise Lender of any material adverse change in the composition of the Collateral, including but not limited to any subsequent ownership right of the Grantor in or to any Trademark, Patent, Copyright, or Mask Work specified in this IP Agreement;

(f) Grantor shall (i) protect, defend and maintain the validity and enforceability of the Trademarks, Patents, Copyrights, and Mask Works, (ii) use its best efforts to detect infringements of the Trademarks, Patents, Copyrights, and Mask Works and promptly advise Lender in writing of material infringements detected and (iii) not allow any Trademarks, Patents, Copyrights, or Mask Works to be abandoned, forfeited or dedicated to the public without the written consent of Lender, which shall not be

unreasonably withheld, unless Grantor determines that reasonable business practices suggest that abandonment is appropriate;

(g) Grantor shall take such further actions as Lender may reasonably request from time to time to perfect or continue the perfection of Lender's interest in the Intellectual Property Collateral;

(h) This IP Agreement creates, and in the case of after acquired Intellectual Property Collateral this IP Agreement will create, at the time Grantor first has rights in such after acquired Intellectual Property Collateral, in favor of Lender a valid and perfected first priority security interest and collateral assignment in the Intellectual Property Collateral in the United States securing the payment and performance of the obligations evidenced by the Loan Agreement;

(i) To its knowledge, except for, and upon, the filing of UCC financing statements, or other notice filings or notations in appropriate filing offices, if necessary to perfect the security interests created hereunder, no authorization, approval or other action by, and no notice to or filing with, any U.S. governmental authority or U.S. regulatory body is required either (a) for the grant by Grantor of the security interest granted hereby, or for the execution, delivery or performance of this IP Agreement by Grantor in the U.S. or (b) for the perfection in the United States or the exercise by Lender of its rights and remedies thereunder;

(j) All information heretofore, herein or hereafter supplied to Lender by or on behalf of Grantor with respect to the Intellectual Property Collateral is accurate and complete in all material respects;

(k) Grantor shall not enter into any agreement that would materially impair or conflict with Grantor's obligations hereunder without Lender's prior written consent, which consent shall not be unreasonably withheld. Grantor shall not permit the inclusion in any material contract to which it becomes a party of any provisions that could or might in any way prevent the creation of a security interest in Grantor's rights and interest in any property included within the definition of the Intellectual Property Collateral acquired under such contracts; and

(l) Upon any executive officer of Grantor obtaining actual knowledge thereof, Grantor will promptly notify Lender in writing of any event that materially adversely affects the value of any material Intellectual Property Collateral, the ability of Grantor to dispose of any material Intellectual Property Collateral or the rights and remedies of Lender in relation thereto, including the levy of any legal process against any of the Intellectual Property Collateral.

4. Lender's Rights. Lender shall have the right, but not the obligation, to take, at Grantor's sole expense, any actions that Grantor is required under this IP Agreement to take but which Grantor fails to take, after fifteen (15) days' notice to Grantor. Grantor shall reimburse and indemnify Lender for all reasonable costs and reasonable expenses incurred in the reasonable exercise of its rights under this section 4.

5. Inspection Rights. Grantor hereby grants to Lender and its employees, representatives and agents the right to visit, during reasonable hours upon prior reasonable written notice to Grantor, any of Grantor's plants and facilities that manufacture, install or store products (or that have done so during the prior six-month period) that are sold utilizing any of the Intellectual Property Collateral, and to inspect the products and quality control records relating thereto upon reasonable written notice to Grantor and as often as may be reasonably requested, but not more than once in every six (6) months; provided, however, nothing herein shall entitle Lender access to Grantor's trade secrets and other proprietary information.

6. Further Assurances; Attorney in Fact.

(a) On a continuing basis, Grantor will, upon request by Lender, subject to any prior licenses, encumbrances and restrictions and prospective licenses, make, execute, acknowledge and deliver, and file and record in the proper filing and recording places in the United States, all such instruments, including appropriate

financing and continuation statements and collateral agreements and filings with the United States Patent and Trademarks Office and the Register of Copyrights, and take all such action as may reasonably be deemed necessary or advisable, or as requested by Lender, to perfect Lender's security interest in all Copyrights, Patents, Trademarks, and Mask Works and otherwise to carry out the intent and purposes of this IP Agreement, or for assuring and confirming to Lender the grant or perfection of a security interest in all Intellectual Property Collateral.

(b) In addition to section 6(a) above, Grantor shall not register any Copyrights or Mask Works in the United States Copyright Office unless it: (i) has given at least fifteen (15) days' prior written notice to Lender of its intent to register such Copyrights or Mask Works and has provided Lender with a copy of the application it intends to file with the United States Copyright Office (excluding exhibits thereto); (ii) executes a security agreement or such other documents as Lender may reasonably request in order to maintain the perfection and priority of Lender's security interest in the Copyrights proposed to be registered with the United States Copyright Office; and (iii) records such security documents with the United States Copyright Office contemporaneously with filing the Copyright application(s) with the United States Copyright Office. Grantor shall promptly provide to Lender a copy of the Copyright application(s) filed with the United States Copyright Office, together with evidence of the recording of the security documents necessary for Lender to maintain the perfection and priority of its security interest in such Copyrights or Mask Works. Grantor shall provide written notice to Lender of any application filed by Grantor in the United States Patent Trademark Office for a patent or to register a trademark or service mark within 30 days of any such filing.

(c) Grantor hereby irrevocably appoints Lender as Grantor's attorney-in-fact, with full authority in the place and stead of Grantor and in the name of Grantor, Lender or otherwise, from time to time in Lender's discretion, upon Grantor's failure or inability to do so, to take any action and to execute any instrument which Lender may deem necessary or advisable to accomplish the purposes of this IP Agreement, including:

(i) To modify, in its sole discretion, this IP Agreement without first obtaining Grantor's approval of or signature to such modification by amending Exhibit A, Exhibit B, Exhibit C, and Exhibit D hereof, as appropriate, to include reference to any right, title or interest in any Copyrights, Patents, Trademarks or Mask Works acquired by Grantor after the execution hereof or to delete any reference to any right, title or interest in any Copyrights, Patents, Trademarks, or Mask Works in which Grantor no longer has or claims any right, title or interest; and

(ii) To file, in its sole discretion, one or more financing or continuation statements and amendments thereto, or other notice filings or notations in appropriate filing offices, relative to any of the Intellectual Property Collateral, without notice to Grantor, with all appropriate jurisdictions, as Lender deems appropriate, in order to further perfect or protect Lender's interest in the Intellectual Property Collateral.

7. Events of Default. The occurrence of any of the following shall constitute an Event of Default under this IP Agreement:

- (a) An Event of Default occurs under the Loan Agreement; or
- (b) Grantor breaches any warranty or agreement made by Grantor in this IP Agreement.

8. Remedies. Upon the occurrence and continuance of an Event of Default, Lender shall have the right to exercise all the remedies of a secured party under the California Uniform Commercial Code, including without limitation the right to require Grantor to assemble the Intellectual Property Collateral and any tangible property in which Lender has a security interest and to make it available to Lender at a place designated by Lender. Lender shall have a nonexclusive, royalty free license to use the Copyrights, Patents, Trademarks, and Mask Works to the extent reasonably necessary to permit Lender to exercise its rights and remedies upon the occurrence of an Event of Default. Grantor will pay any expenses (including reasonable attorney's fees) incurred by Lender in connection with the exercise of any of Lender's rights hereunder, including without limitation any expense incurred

in disposing of the Intellectual Property Collateral. All of Lender's rights and remedies with respect to the Intellectual Property Collateral shall be cumulative.

9. Indemnity. Grantor agrees to defend, indemnify and hold harmless Lender and its officers, employees, and agents against: (a) all obligations, demands, claims, and liabilities claimed or asserted by any other party in connection with the transactions contemplated by this IP Agreement, and (b) all losses or expenses in any way suffered, incurred, or paid by Lender as a result of or in any way arising out of, following or consequential to transactions between Lender and Grantor, whether under this IP Agreement or otherwise (including without limitation, reasonable attorneys fees and reasonable expenses), except for losses arising from or out of Lender's gross negligence or willful misconduct.

10. Termination. At such time as Grantor shall completely satisfy all of the obligations secured hereunder, Lender shall execute and deliver to Grantor all releases, terminations, and other instruments as may be necessary or proper to release the security interest hereunder.

11. Course of Dealing. No course of dealing, nor any failure to exercise, nor any delay in exercising any right, power or privilege hereunder shall operate as a waiver thereof.

12. Amendments. This IP Agreement may be amended only by a written instrument signed by both parties hereto.

13. Counterparts. This IP Agreement may be executed in two or more counterparts, each of which shall be deemed an original but all of which together shall constitute the same instrument.

14. Law and Jurisdiction. This IP Agreement shall be governed by and construed in accordance with the laws of the State of California. GRANTOR ACCEPTS FOR ITSELF AND IN CONNECTION WITH ITS PROPERTIES, UNCONDITIONALLY, THE NON-EXCLUSIVE JURISDICTION OF ANY STATE OR FEDERAL COURT OF COMPETENT JURISDICTION IN THE STATE OF CALIFORNIA, AND GRANTOR ACCEPTS JURISDICTION OF THE COURTS AND VENUE IN SANTA CLARA COUNTY, CALIFORNIA, IN ANY ACTION, SUIT, OR PROCEEDING OF ANY KIND, AGAINST IT WHICH ARISES OUT OF OR BY REASON OF THIS AGREEMENT. NOTWITHSTANDING THE FOREGOING, THE LENDER SHALL HAVE THE RIGHT TO BRING ANY ACTION OR PROCEEDING AGAINST THE GRANTOR OR ITS PROPERTY IN THE COURTS OF ANY OTHER JURISDICTION WHICH THE LENDER DEEMS NECESSARY OR APPROPRIATE IN ORDER TO REALIZE ON THE COLLATERAL OR TO OTHERWISE ENFORCE THE LENDER'S RIGHTS AGAINST THE GRANTOR OR ITS PROPERTY.

GRANTOR AND LENDER EACH HEREBY WAIVE THEIR RESPECTIVE RIGHTS TO A JURY TRIAL OF ANY CLAIM OR CAUSE OF ACTION BASED UPON OR ARISING OUT OF ANY OF THE LOAN DOCUMENTS OR ANY OF THE TRANSACTIONS CONTEMPLATED THEREIN, INCLUDING CONTRACT CLAIMS, TORT CLAIMS, BREACH OF DUTY CLAIMS, AND ALL OTHER COMMON LAW OR STATUTORY CLAIMS. EACH PARTY RECOGNIZES AND AGREES THAT THE FOREGOING WAIVER CONSTITUTES A MATERIAL INDUCEMENT FOR IT TO ENTER INTO THIS AGREEMENT. EACH PARTY REPRESENTS AND WARRANTS THAT IT HAS REVIEWED THIS WAIVER WITH ITS LEGAL COUNSEL AND THAT IT KNOWINGLY AND VOLUNTARILY WAIVES ITS JURY TRIAL RIGHTS FOLLOWING CONSULTATION WITH LEGAL COUNSEL.

15. Confidentiality. In handling any confidential information, Lender shall exercise the same degree of care that it exercises for its own proprietary information, but disclosure of information may be made: (i) to Lender's subsidiaries or affiliates in connection with their present or prospective business relations with Grantor; (ii) to prospective transferees or purchasers of any interest in the Loans; (iii) as required by law, regulation, subpoena, or other order, (iv) as required in connection with Lender's examination or audit; and (v) as Lender considers appropriate in exercising remedies under this Agreement. Confidential information does not include information that either: (a) is in the public domain or in Lender's possession when disclosed to Lender, or becomes part of the

lic domain after disclosure to Lender; or (b) is disclosed to Lender by a third party, if Lender reasonably does not know that the third party is prohibited from disclosing the information.

[Remainder of page intentionally left blank]

EXECUTED under the laws of the State of California on the day and year first written above.

Address of Grantor:

25861 Industrial Boulevard
Hayward, California 94545

GRANTOR:

LYNX THERAPEUTICS, INC.

By: Mary L. Schramke

Name: MARY L. SCHRAMKE

Title: ACTING CHIEF EXECUTIVE OFFICER

SILICON VALLEY BANK

By: _____

Name: _____

Title: _____

EXECUTED under the laws of the State of California on the day and year first written above.

Address of Grantor:

25861 Industrial Boulevard

Hayward, California 94545

GRANTOR:

LYNX THERAPEUTICS, INC.

By: _____

Name: _____

Title: _____

SILICON VALLEY BANK

By:  _____

Name: Michael J. Hammer

Title: SR Vice President Life Sciences

Exhibit "A" attached to that certain Intellectual Property Security Agreement dated December 28, 2004.

EXHIBIT "A"

COPYRIGHTS

SCHEDULE A - ISSUED COPYRIGHTS

| <u>COPYRIGHT DESCRIPTION</u> | <u>REGISTRATION NUMBER</u> | <u>DATE OF ISSUANCE</u> |
|------------------------------|----------------------------|-------------------------|
|------------------------------|----------------------------|-------------------------|

None.

SCHEDULE B - PENDING COPYRIGHT APPLICATIONS

| <u>FIRST DATE COPYRIGHT DESCRIPTION</u> | <u>APPLICATION NUMBER</u> | <u>DATE OF FILING</u> | <u>DATE OF CREATION</u> | <u>OF PUBLIC DISTRIBUTION</u> |
|---|---------------------------|-----------------------|-------------------------|-------------------------------|
|---|---------------------------|-----------------------|-------------------------|-------------------------------|

None.

SCHEDULE C - UNREGISTERED COPYRIGHTS (Where No Copyright Application is Pending)

| <u>COPYRIGHT DESCRIPTION</u> | <u>DATE OF CREATION</u> | <u>FIRST DATE OF DISTRIBUTION</u> | <u>DATE AND RECORDATION NUMBER OF IP AGREEMENT WITH OWNER OR ORIGINAL GRANTOR IF AUTHOR OR OWNER OF COPYRIGHT IS DIFFERENT FROM GRANTOR</u> | <u>ORIGINAL AUTHOR OR OWNER OF COPYRIGHT IS DIFFERENT FROM GRANTOR</u> |
|------------------------------|-------------------------|-----------------------------------|---|--|
|------------------------------|-------------------------|-----------------------------------|---|--|

None.

Exhibit "B" attached to that certain Intellectual Property Security Agreement dated December 28, 2004.

EXHIBIT "B"

PATENTS

| <u>PATENT</u> | | | | | |
|--------------------|-------------------|----------------|-------------------|--------------------|---------------|
| <u>DESCRIPTION</u> | <u>DOCKET NO.</u> | <u>COUNTRY</u> | <u>SERIAL NO.</u> | <u>FILING DATE</u> | <u>STATUS</u> |

See Attached.

HN-500643-v1-Lynn Patent List.XLS

Exhib. A-B Patents

| Title/Brief Description | Pub. No. | Country | Serial No. | Filed | Status | App. Ref. No. | App. No. | Patent No. | Issued |
|--|---------------|---------|-------------|----------|---------|---------------|----------|------------|--------|
| Method for Detecting Foreign DNA in a Host Genome | 1004 | US | 10/606,400 | 6/20/03 | Pending | 10/606,400 | | | |
| Method and Compositions for Ordering Restriction Fragments | 1002-02 2D | US | 10/706,118 | 11/12/03 | Pending | 10/706,118 | | | |
| Method of Nucleic Acid Amplification | 1005-C | US | 10/449,010 | 6/2/03 | Pending | 10/449,010 | | | |
| Methods of Nucleic Acid Amplification and Sequencing | 1006 | US | 09/806,531 | 10/10/01 | Pending | 09/806,531 | | | |
| Isothermal Amplification of Nucleic Acids on a Solid Support | 1007 | US | 10/433,965 | 11/3/03 | Pending | 10/433,965 | | | |
| Methods for Detecting Genome-wide Sequence Variations Associated with a Phenotype | 1008 | US | 10/378,688 | 3/4/03 | Pending | 10/378,688 | | | |
| Stacked Microfluidic Device | 1009 | US | 10/138,889 | 5/2/02 | Pending | 10/138,889 | | | |
| Molecular Tagging System | 802-02 JP DIV | JP | 2003-350142 | | Filed | 2003-350142 | | | |
| Method of Nucleic Acid Amplification | 1005 | US | 09/402,277 | 9/30/99 | Pending | 09/402,277 | | | |
| Electrophoresis Apparatus and Method | 818 WOAU | AU | 40929/99 | 5/21/99 | Granted | 40929/99 | | | |
| Method for Making Complementary Oligonucleotide Tag Sets | 817 AU | AU | 1603100 | 11/1/99 | Granted | 1603100 | | | |
| Molecular Tagging System | 802-02 AU-2D | AU | 52663/99 | 10/4/99 | Filed | 52663/99 | | | |
| Polymorphic DNA Fragments and Uses Thereof | 826-02 AU | AU | 32378/00 | 2/2/00 | Filed | 32378/00 | | | |
| DNA Sequencing by Stepwise Ligation and Cleavage | 801-05 WOAU | AU | 23791/95 | 3/24/95 | Granted | 23791/95 | | | |
| Solid Phase Synthesis of Oligonucleotide N ^{3'} -P ^{5'} Phosphoram | 035-01 WOAU | AU | 6178/96 | 6/14/96 | Granted | 6178/96 | | | |
| Oligonucleotide N ^{3'} -P ^{5'} Phosphoramidates: Hybridization and | 005-01 AU | AU | 21900/95 | 3/20/95 | Granted | 21900/95 | | | |
| Molecular Tagging System | 802-02 WOAU | AU | 42778/96 | 10/12/95 | Granted | 42778/96 | | | |
| Oligonucleotide Tags for Sorting and Identification | 802-05 WOAU | AU | 61020/96 | 6/6/96 | Granted | 61020/96 | | | |
| DNA Sequencing by Parallel Oligonucleotide Extensions | 805 AU | AU | 55490/96 | 4/16/96 | Granted | 55490/96 | | | |
| Sequencing by Ligation of Encoded Adaptors | 808-1 WOAU | AU | 33740/97 | 6/2/97 | Granted | 33740/97 | | | |
| System and Apparatus for Sequential Processing of Analyses | 815 WOAU | AU | 77155/98 | 5/22/98 | Granted | 77155/98 | | | |
| Improvements in Adaptor-Based Sequence Analysis | 814 WOAU | AU | 71213/98 | 4/14/98 | Granted | 71213/98 | | | |
| Method of mapping restriction sites in polynucleotides | 816-01 WOAU | AU | 81709/98 | 6/25/98 | Granted | 81709/98 | | | |

HN-500643-v1-Lynx Patent List.xls

| | | | | | | | | | |
|---|---------------|------|------------|----------|---------|------------|----------|------------|----------|
| Soft Phase Selection of Differentially Expressed Genes | 822-02 AU | AU | 21139/99 | 1/8/99 | Granted | 21139/99 | 1/8/99 | 754929 | |
| DNA Sequencing by Parallel Oligonucleotide Extensions | 805-01 AU DIV | AU | 4871300 | 4/16/96 | Granted | 4871300 | 4/16/96 | 754991 | 3/20/03 |
| DNA Sequencing by Stepwise Ligation and Cleavage | 801-05 AS | AT | 95916916 | 3/24/95 | Granted | 95916916 | 3/24/95 | EP00703991 | 5/16/01 |
| DNA Sequencing by Stepwise Ligation and Cleavage | 801-05 BE | BELG | 95916916 | 3/24/95 | Granted | 95916916 | 3/24/95 | EP0703991 | 5/16/01 |
| Electrophoresis Apparatus and Method | 818 WOCA | CA | 2232775 | 5/21/99 | Filed | 2232775 | 5/21/99 | | |
| Method of Mapping Restriction Sites in Polynucleotides | 818-01 WOCA | CA | 2295325 | 6/25/98 | Filed | 2295325 | 6/25/98 | | |
| Oligonucleotide N3->P5' Phosphoranimides: Hybridization and | 805-01 CA | CA | 2184375 | 3/20/95 | Filed | 2184375 | 3/20/95 | | |
| DNA Sequencing by Stepwise Ligation and Cleavage | 801-05 CA | CA | 2163662 | 3/24/95 | Filed | 2163662 | 3/24/95 | | |
| Oligonucleotide Tags for Sorting and Identification | 802-05 CA | CA | 2222581 | 6/6/96 | Granted | 2222581 | 6/6/96 | 2222581 | 5/11/04 |
| DNA Sequencing by Parallel Oligonucleotide Extensions | 805 CA | CA | 2218017 | 4/16/96 | Granted | 2218017 | 4/16/96 | 2218017 | 12/2/03 |
| Massively Parallel Signature Sequencing by Ligation of Encoded Adaptors | 808-1 WOCA | CA | 2256700 | 6/2/97 | Filed | 2256700 | 6/2/97 | | |
| Data Analysis and Display System for Ligation-Based DNA Sequ | 833-01 CA | CA | 2386738 | 2/15/01 | Filed | 2386738 | 2/15/01 | | |
| Improvements in Adaptor-Based Sequence Analysis | 814 WOCA | CA | 2286400 | 4/14/98 | Filed | 2286400 | 4/14/98 | | |
| Polymorphic DNA Fragments and Uses Thereof | 826-02 CA | CA | 2372131 | 2/18/00 | Filed | 2372131 | 2/18/00 | | |
| Oligonucleotide Tags for Sorting and Identification | 802-05 CA DIV | CA | 2332731 | 6/6/96 | Filed | 2332731 | 6/6/96 | | |
| Molecular Tagging System | 802-02 CA | CA | 2202167 | 10/12/95 | Granted | 2202167 | 10/12/95 | 2202167 | 12/16/03 |
| Solid Phase Synthesis of Oligonucleotide N3->P5' Phosphoram | 035-01 WOCA | CA | 2245666 | 6/14/96 | Filed | 2245666 | 6/14/96 | | |
| Method for Making Complementary Oligonucleotide Tag Sets | 817 WOCA | CA | 2349836 | 11/1/99 | Filed | 2349836 | 11/1/99 | | |
| System and Apparatus for Sequential Processing of Analytes | 815 WOCA | CA | 2291180 | 5/22/98 | Filed | 2291180 | 5/22/98 | | |
| Solid Phase Selection of Differentially Expressed Genes | 822 WOCA | CA | 2317695 | 1/8/99 | Filed | 2317695 | 1/8/99 | | |
| Oligonucleotide Tags for Sorting and Identification | 802-05 CN | CHIN | 96196135.X | 6/6/96 | Granted | 96196135.X | 6/6/96 | 96196135.X | 4/21/04 |

| | | | | | | | | | |
|---|--------------|------|-------------|----------|-----------|-------------|----------|-----------|---------|
| Massively Parallel Signature Sequencing by Ligation of Encoded Adaptors | 808-1 WOEN | CHIN | 97197101.3 | 6/2/97 | Filed | 97197101.3 | 6/2/97 | | |
| Solid Phase Selection of Differentially Expressed Genes | 822 WOCCZ | CZ | PV2000-2545 | 1/8/99 | Filed | PV2000-2545 | 1/8/99 | | |
| Molecular Tagging System | 802-02 WOCCZ | CZ | PV 866-97 | 10/12/95 | Inactive | PV 866-97 | 10/12/95 | | |
| Sequencing by Ligation of Encoded Adaptors | 808-1 WOCCZ | CZ | PV-397898 | 6/2/97 | Inactive | PV-397898 | 6/2/97 | | |
| Oligonucleotide Tags for Sorting and Identification | 802-05 CZ | CZ | PV3926-97 | 6/6/96 | Inactive | PV3926-97 | 6/6/96 | | |
| Solid Phase Synthesis of Oligonucleotide N3->P5' Phosphoramidates | 035-01 WOCCZ | CZ | PV2629-98 | 6/14/96 | Filed | PV2629-98 | 6/14/96 | | |
| Oligonucleotide N3->P5' Phosphoramidates: Hybridization and | 005-01 CZ | CZ | PV2745-96 | 3/20/95 | Filed | PV2745-96 | 3/20/95 | | |
| DNA Sequencing by Stepwise Ligation and Cleavage | 801-05 DN | DENM | 85816916 | 3/24/95 | Granted | 95916816 | 3/24/95 | EP0703991 | 5/18/01 |
| Electrophoresis Apparatus and Method | 818 WOEP | EPC | 98924423.9 | 5/21/99 | Pending | 98924423.9 | 5/21/99 | | |
| High Resolution Physical Maps of Genomic DNA | 816-01 WOEP | EPC | 98931639.3 | 6/25/98 | Pending | 98931639.3 | 6/25/98 | | |
| Synthesis of Branched Nucleic Acids | 003 WOEP | EPC | 94923335.7 | 7/5/94 | Abandoned | 94923335.7 | 7/5/94 | | |
| Oligonucleotide N3->P5' Phosphoramidates: Hybridization and | 005-01 EP | EPC | 95914800.8 | 3/20/95 | Pending | 95914800.8 | 3/20/95 | | |
| Solid Phase Synthesis of Oligonucleotide N3->P5' Phosphoramidates | 035-01 WOEP | EPC | 96919449.7 | 6/14/96 | Granted | 96919449.7 | 6/14/96 | | |
| Oligonucleotide Tags for Sorting and Identification | 802-05 EP | EPC | 96918333.4 | 6/6/96 | Pending | 96918333.4 | 6/6/96 | | |
| DNA Sequencing by Parallel Oligonucleotide Extensions | 805 EP | EPC | 96912800.8 | 4/16/96 | Pending | 96912800.8 | 4/16/96 | | |
| Measurement of Gene Expression Profiles in Toxicly Determin | 813 EP | EPC | 96940238.7 | 10/11/96 | Abandoned | 96940238.7 | 10/11/96 | | |
| Massively Parallel Sequencing of Sorted Polynucleotides | 803-01 EP | EPC | 99105019.6 | 3/19/99 | Pending | 99105019.6 | 3/19/99 | | |
| Data Analysis and Display System for Ligation-Based DNA Sequ | 833-01 EP | EPC | 1910827.3 | 2/15/01 | Pending | 1910827.3 | 2/15/01 | | |
| Improvements in Adaptor-Based Sequence Analysis | 814 WOEP | EPC | 98918252.2 | 4/14/98 | Pending | 98918252.2 | 4/14/98 | | |
| Massively Parallel Signature Sequencing by Ligation of Encoded Adaptors | 808-1 WOEP | EPC | 97929757.9 | 6/2/97 | Pending | 97929757.9 | 6/2/97 | | |
| Polymorphic DNA Fragments and Uses Thereof | 826-02 | EPC | 910255.9 | 2/2/00 | Pending | 910255.9 | 2/2/00 | | |
| Methods for Sorting Polynucleotides Using Oligonucleotide Tag | 802-02 EP | EPC | 95941325.3 | 10/12/95 | Pending | 95941325.3 | 10/12/95 | | |

HN-500643-v1-Lynn Patent List.XLS

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| Oligonucleotide Clamps Having Diagnostic and Therapeutic App | 004 EP | EPC | 94921471.2 | 7/1/94 | Abandoned | 94921471.2 | 7/1/94 | | |
| Method for Making Complementary Oligonucleotide Tag Sets | 817 WOEP | EPC | 98958733 | 11/1/99 | Pending | 98958733 | 11/1/99 | | |
| System and Apparatus for Sequential Processing of Analytes | 815 WOEP | EPC | 98925137.6 | 5/22/98 | Pending | 98925137.6 | 5/22/98 | | |
| Solid Phase Selection of Differentially Expressed Genes | 822 WOEP | EPC | 99901448.3 | 1/8/99 | Pending | 99901448.3 | 1/8/99 | | |
| DNA Sequencing by Stepwise Ligation and Cleavage | 801-05 EP | EPC | 95916916 | 3/24/95 | Granted | 95916916 | 3/24/95 | EP0703991 | 5/16/01 |
| Massively Parallel Sequencing of Sorted Polynucleotides | 803 EP | EPC | 95937322.6 | 10/12/95 | Granted | 95937322.6 | 10/12/95 | EP0786014 | |
| Simultaneous Sequencing of Tagged Polynucleotides | 807 EP | EPC | 96942790.5 | 11/19/96 | Granted | 96942790.5 | 11/19/96 | EP0940803 | 5/2/03 |
| Oligonucleotide N3->PS Phosphoramidates: Hybridization and | 005-01 FI | FINL | 963581 | 3/20/95 | Filed | 963581 | 3/20/95 | | |
| Molecular Tagging System | 802-02 WOFN | FINL | 971473 | 10/12/95 | Filed | 971473 | 10/12/95 | | |
| DNA Sequencing by Stepwise Ligation and Cleavage | 801-05 FR | FR | 95916916 | 3/24/95 | Granted | 95916916 | 3/24/95 | EP0703991 | 5/16/01 |
| Massively Parallel Sequencing of Sorted Polynucleotides | 803 FR | FR | 95937322.6 | 10/12/95 | Granted | 95937322.6 | 10/12/95 | EP0786014 | 12/15/99 |
| DNA Sequencing by Stepwise Ligation and Cleavage | 801-05 GB | GB | 95916916 | 3/24/95 | Granted | 95916916 | 3/24/95 | EP0703991 | 5/16/01 |
| mRNA Molecules for Use as Indicators for the Activation and | 501 DE | GERM | 10021834.2 | 5/6/00 | Filed | 10021834.2 | 5/6/00 | | |
| Massively Parallel Sequencing of Sorted Polynucleotides | 803 DE | DE | 95937322.6 | 10/12/95 | Granted | 95937322.6 | 10/12/95 | EP0786014 | 12/15/99 |
| DNA Sequencing by Stepwise Ligation and Cleavage | 801-05 DE | DE | 69520917.5-0 | 3/24/95 | Granted | 69520917.5-08 | 3/24/95 | EP0703991 | 5/16/01 |
| System and Apparatus for Sequential Processing of Analytes | 815 WOEPHK | HK | 105481.5 | 9/1/00 | Filed | 105481.5 | 9/1/00 | | |
| Massively Parallel Signature Sequencing by Ligation of Encoded Adaptors | 808-1 HK | HK | 99105687.9 | 12/4/99 | Filed | 99105687.9 | 12/4/99 | | |
| Oligonucleotide Tags for Sorting and Identification | 802-05 HK | HK | 99100227.7 | 1/16/99 | Filed | 99100227.7 | 1/16/99 | | |
| Solid Phase Selection of Differentially Expressed Genes | 822 WOHH | HU | P0100242 | 1/8/99 | Inactive | P0100242 | 1/8/99 | | |
| Molecular Tagging System | 802-02 HU | HU | P8801187 | 10/12/95 | Filed | P8801187 | 10/12/95 | | |
| Sequencing by Ligation of Encoded Adaptors | 809-1 WOHH | HU | P0003944 | 6/2/97 | Filed | P0003944 | 6/2/97 | | |

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| Oligonucleotide Tags for Sorting and Identification | 802-05 HU | HU | P9900910 | 6/6/96 | Filed | P9900910 | 6/6/96 | | |
| Solid Phase Synthesis of Oligonucleotide N3'->P5' Phosphoramidates | 035-01 WO/HU | HU | P9902526 | 6/14/96 | Filed | P9902526 | 6/14/96 | | |
| Oligonucleotide N3'->P5' Phosphoramidates: Hybridization and | 005-01 HU | HU | P9602549 | 3/20/95 | Filed | P9602549 | 3/20/95 | | |
| DNA Sequencing by Stepwise Ligation and Cleavage | 801-05 IR | IREL | 95916916 | 3/24/95 | Granted | 95916916 | 3/24/95 | EP0703991 | 5/16/01 |
| DNA Sequencing by Stepwise Ligation and Cleavage | 801-05 IT | ITAL | 95916916 | 3/24/95 | Granted | 95916916 | 3/24/95 | EP0703991 | 5/16/01 |
| Electrophoresis Apparatus and Method | 818 WO/JP | JP | 2000-551249 | 5/21/99 | Filed | 2000-551249 | 5/21/99 | | |
| High Resolution Physical Maps of Genomic DNA | 816-01 WO/JP | JP | 11-505776 | 6/25/98 | Filed | 11-505776 | 6/25/98 | | |
| Synthesis of BranchedNucleic Acids | 003 JP | JP | 7-503693 | 7/5/94 | Inactive | 7-503693 | 7/5/94 | | |
| Solid Phase Synthesis of Oligonucleotide N3'->P5' Phosphoramidates | 035-01 WO/JP | JP | 9-530107 | 6/14/96 | Filed | 9-530107 | 6/14/96 | | |
| Molecular Tagging System | 802-02 WO/JP | JP | 8513298 | 10/12/95 | Filed | 8513298 | 10/12/95 | | |
| DNA Sequencing by Parallel Oligonucleotide Extensions | 805 JP | JP | 8531848 | 4/16/96 | Filed | 8531848 | 4/16/96 | | |
| Sequencing by Ligation of Encoded Adaptors | 808-1 WO/JP | JP | 10-500755 | 6/2/97 | Filed | 10-500755 | 6/2/97 | | |
| Measurement of Gene Expression Profiles in Toxicity Determin | 813 WO/JP | JP | 09/515,240 | 10/11/96 | Filed | 09/515,240 | 10/11/96 | | |
| Improvements in Adaptor-Based Sequence Analysis | 814 WO/JP | JP | 10544260 | 4/14/98 | Filed | 10544260 | 4/14/98 | | |
| DNA Extension and Analysis with Rolling Primers | 811-01 JP | JP | 10-237840 | 8/24/98 | Filed | 10-237840 | 8/24/98 | | |
| Polymorphic DNA Fragments and Uses Thereof | 826-02 JA | JP | 2000-601195 | 2/2/00 | Filed | 2000-601195 | 2/2/00 | | |
| Oligonucleotide Tags for Sorting and Identification | 802-05 JP | JP | 9-501818 | 6/6/96 | Filed | 9-501818 | 6/6/96 | | |
| DNA Sequencing by Stepwise Ligation and Cleavage | 801-05 JP | JP | 7525765 | 3/24/95 | Filed | 7525765 | 3/24/95 | | |
| Oligonucleotide N3'->P5' Phosphoramidates: Hybridization and | 005-01 JP | JP | 7-524793 | 3/20/95 | Filed | 7-524793 | 3/20/95 | | |
| Method for Making Complementary Oligonucleotide Tag Sets | 817 WO/JP | JP | 2000-579783 | 11/1/99 | Filed | 2000-579783 | 11/1/99 | | |
| System and Apparatus for Sequential Processing of Analytes | 815 WO/JP | JP | 10-550757 | 5/22/98 | Filed | 10-550757 | 5/22/98 | | |
| Solid Phase Selection of Differentially Expressed Genes | 822 WO/JP | JP | 2000-527674 | 1/8/99 | Filed | 2000-527674 | 1/8/99 | | |

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| Solid Phase Selection of Differentially Expressed Genes | 822 WO/KR | KR | 2000-7007584 | 1/8/99 | Granted | 2000-7007585 | 1/8/99 | 433782 | 5/16/04 |
| Oligonucleotide Tags for Sorting and Identification | 802-05 KR | KR | 97-709024 | 6/6/96 | Inactive | 97-709024 | 6/6/96 | | |
| Molecular Tagging System | 802-02 WO/KR | KR | 97-702433 | 10/12/95 | Inactive | 97-702433 | 10/12/95 | | |
| Oligonucleotide N3->P5' Phosphoramidates: | 005-01 KR | KR | 96-705131 | 3/20/95 | Filed | 96-705131 | 3/20/95 | | |
| Hybridization and | 801-05 LX | LUXE | 95916916 | 3/24/95 | Granted | 95916916 | 3/24/95 | EP0703991 | 5/16/01 |
| DNA Sequencing by Stepwise Ligation and | 801-05 NL | NETH | 95916916 | 3/24/95 | Granted | 95916916 | 3/24/95 | EP0703991 | 5/16/01 |
| Cleavage | 822 WO/NO | NO | 20003531 | 1/8/99 | Filed | 20003531 | 1/8/99 | | |
| Solid Phase Selection of Differentially Expressed Genes | 802-05 NO | NO | P975744 | 6/6/96 | Filed | P975744 | 6/6/96 | | |
| Oligonucleotide Tags for Sorting and Identification | 808-1 WO/NO | NO | P13985698 | 6/2/97 | Filed | P13985698 | 6/2/97 | 733782 | |
| Sequencing by Ligation of Encoded Adaptors | 802-02 WO/NO | NO | P971644 | 10/12/95 | Filed | P971644 | 10/12/95 | | |
| Molecular Tagging System | 005-01 NO | NO | P963891 | 3/20/95 | Filed | P963891 | 3/20/95 | | |
| Oligonucleotide N3->P5' Phosphoramidates: | 826-02 WO | PCT | 00/04349 | 2/2/00 | Inactive | 00/04349 | 2/2/00 | | |
| Hybridization and | 818 WO | PCT | PCT/US99/11 | 5/21/99 | Inactive | PCT/US99/1127 | 5/21/99 | | |
| Polymorphic DNA Fragments and Uses Thereof | 822 WO | PCT | 99/00666 | 1/8/99 | Inactive | 99/00666 | 1/8/99 | | |
| Electrophoresis Apparatus and Method | 816-01 WO | PCT | 98/13335 | 6/25/99 | Inactive | 98/13335 | 6/25/99 | | |
| Solid Phase Selection of Differentially Expressed Genes | 003 WO | PCT | 94/07557 | 7/5/94 | Inactive | 94/07557 | 7/5/94 | | |
| High Resolution Physical Maps of Genomic DNA | 005-01 WO | PCT | 95/03575 | 3/20/95 | Inactive | 95/03575 | 3/20/95 | | |
| Synthesis of Branches/Nucleic Acids | 035-01 WO | PCT | 96/10418 | 6/14/96 | Inactive | 96/10418 | 6/14/96 | | |
| Oligonucleotide N3->P5' Phosphoramidates: | 801-05 WO | PCT | 95/03678 | 3/24/95 | Inactive | 95/03678 | 3/24/95 | | |
| Hybridization and | 802-05 WO | PCT | 96/09513 | 6/6/96 | Inactive | 96/09513 | 6/6/96 | | |
| Solid Phase Synthesis of Oligonucleotide N3->P5' Phosphoram | 805 WO | PCT | 96/05245 | 4/16/96 | Inactive | 96/05245 | 4/16/96 | | |
| DNA Sequencing by Stepwise Ligation and | 807 WO | PCT | 96/18708 | 11/19/96 | Inactive | 96/18708 | 11/19/96 | | |
| Cleavage | 828 WO | PCT | 01/24271 | 8/3/01 | Abandoned | 01/24271 | 8/3/01 | | |
| Oligonucleotide Tags for Sorting and Identification | | | | | | | | | |
| DNA Sequencing by Parallel Oligonucleotide | | | | | | | | | |
| Extensions | | | | | | | | | |
| Simultaneous Sequencing of Tagged | | | | | | | | | |
| Polynucleotides | | | | | | | | | |
| Electrophoresis Apparatus and Method | | | | | | | | | |

HN-500643-v1-Lynx Patent List.XLS

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| Measurement of Gene Expression Profiles in Toxicity Determin | 813 WO | PCT | 96/16342 | 10/11/96 | Inactive | 96/16342 | 10/11/96 |
| Polymorphic DNA Fragments and Uses Thereof Sequencing By Proxy | 826-03WO 843 WO | PCT PCT | 04/26115 02/16792 | 8/21/01 5/29/02 | Abandoned Abandoned | 01/26115 02/16792 | 8/21/01 5/29/02 |
| Genetic Analysis of Gene Expression in Helicobacter Method for the Analysis of Differential Gene Expression | 903 WO 906 WO | PCT PCT | 02/38591 02/36950 | 12/10/02 12/10/02 | Abandoned Abandoned | 02/38591 02/36950 | 12/10/02 12/10/02 |
| Identification of Genes Controlling Complex Traits Method for Determining Relative Abundance of Nucleic Acid Se | 907 WO 832-01WO | PCT PCT | 02/41381 01/30396 | 12/30/02 9/27/01 | Abandoned Abandoned | 02/41381 01/30396 | 12/30/02 9/27/01 |
| Improvements in Adaptor-Based Sequence Analysis | 814 WO | PCT | 98/07592 | 4/14/98 | Inactive | 98/07592 | 4/14/98 |
| Enzymatic Synthesis of Oligonucleotide Tags | 810-01 WO | PCT | 99/22585 | 9/28/99 | Inactive | 99/22585 | 9/28/99 |
| Massively Parallel Signature Sequencing by Ligation of Encoded Adaptors | 808-1 WO | PCT | 97/09472 | 6/2/97 | Inactive | 97/09472 | 6/2/97 |
| Polynucleotide Detection by Isothermal Amplification | 806 WO | PCT | 98/15384 | 9/26/98 | Abandoned | 98/15384 | 9/26/98 |
| Massively Parallel Sequencing of Sorted Polynucleotides | 803 WO | PCT | 95/12678 | 10/12/95 | Inactive | 95/12678 | 10/12/95 |
| Molecular Tagging System | 802-02 WO | PCT | 95/12791 | 10/12/95 | Inactive | 95/12791 | 10/12/95 |
| Polynucleotide Purification Method | 038-01 WO | PCT | 99/19273 | 9/14/98 | Abandoned | 99/19273 | 9/14/98 |
| Auto-Ligating Oligonucleotide Antisense Compounds Having Dia | 001-00 WO | PCT | PCT/US9407 | 7/11/94 | Inactive | PCT/US940792 | 7/11/94 |
| Oligonucleotide Clamps Having Diagnostic and Therapeutic App | 004 WO | PCT | 94/07541 | 7/1/94 | Inactive | 94/07541 | 7/1/94 |
| Method for Making Complementary Oligonucleotide Tag Sets | 817 WO | PCT | 99/25680 | 11/1/99 | Inactive | 99/25680 | 11/1/99 |
| System and Apparatus for Sequential Processing of Analytes | 815 WO | PCT | 98/11224 | 5/22/98 | Inactive | 98/11224 | 5/22/98 |
| Method of Screening for Genetic Polymorphism | 819 WO | PCT | 99/20047 | 8/31/99 | Abandoned | 99/20047 | 8/31/99 |
| Method and Compositions for Ordering Restriction Fragments | 845-03 WO | PCT | PCT/US01/11 | 4/12/01 | Inactive | PCT/US01/1198 | 4/12/01 |
| Data Analysis and Display System for Ligation-Based DNA Sequ | 833-01 WO | PCT | 01/05032 | 2/15/01 | Inactive | 01/05032 | 2/15/01 |
| Solid Phase Selection of Differentially Expressed Genes | 822 WO/PL | PL | Unknown | 1/8/99 | Filed | Unknown | 1/8/99 |
| Sequencing by Ligation of Encoded Adaptors | 808-1 WO/PL | PL | P331513 | 6/2/97 | Inactive | P331513 | 6/2/97 |

HN-500643-v1-Lynn Patent List.xls

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| Oligonucleotide Tags for Sorting and Identification | 802-05 WQPL | PL | P324000 | 6/6/96 | Inactive | P324000 | 6/6/96 | | |
| Solid Phase Synthesis of Oligonucleotide N3->P5' Phosphoramidite | 036-01 WQPL | PL | P328639 | 6/14/96 | Filed | P328639 | 6/14/96 | | |
| Oligonucleotide N3->P5' Phosphoramidates: Hybridization and | 005-01 PL | PL | P316434 | 3/20/95 | Filed | P316434 | 3/20/95 | | |
| DNA Sequencing by Stepwise Ligation and Cleavage | 801-05 SG | SING | 9501952-7 | 3/24/95 | Granted | 9501952-7 | 3/24/95 | 23650 | 5/18/98 |
| Molecular Tagging System | 802-02 SG | SG | 9701328-8 | 10/12/95 | Granted | 9701328-8 | 10/12/95 | 39092 | 5/25/99 |
| Oligonucleotide Tags for Sorting and Identification Sequencing by Ligation of Encoded Adaptors | 802-05 SG | SG | 9706203-6 | 6/6/96 | Granted | 9706203-6 | 6/6/96 | 53428 | 5/25/99 |
| Solid Phase Selection of Differentially Expressed Genes | 808-1 WOSG | SG | 9805810-0 | 6/2/97 | Granted | 9805810-0 | 6/2/97 | 60647 | |
| DNA Sequencing by Stepwise Ligation and Cleavage | 822 WOSG | SG | 200003472-8 | 1/8/99 | Granted | 200003472-8 | 1/8/99 | 74272 | 7/9/02 |
| DNA Sequencing by Stepwise Ligation and Cleavage | 801-05 SE | SWED | 95916916 | 3/24/95 | Inactive | 95916916 | 3/24/95 | EP0703991 | 5/18/01 |
| Massively Parallel Signature Sequencing by Ligation of Encoded Adaptors | 801-05 CH | SWIT | 95916916 | 3/24/95 | Granted | 95916916 | 3/24/95 | EP0703991 | 5/18/01 |
| Method and Compositions for Ordering Restriction Fragments | 808-1 TW | TAIW | 86107846 | 6/6/97 | Inactive | 86107846 | 6/6/97 | | |
| Polymorphic DNA Fragments and Uses Thereof | 1002-02 | US | 09/549,748 | 4/14/00 | Granted | 09/549,748 | 4/14/00 | 6720179 | 11/25/03 |
| Polymorphic DNA Fragments and Uses Thereof | 826P | US | 60/121,023 | 2/22/99 | Inactive | 60/121,023 | 2/22/99 | | |
| Polymorphic DNA Fragments and Uses Thereof | 826-01 | US | 60/158,483 | 10/8/99 | Inactive | 60/158,483 | 10/8/99 | | |
| Method and Compositions for Enhancing Signal-to-Noise Ratios | 832P | US | 60/235,940 | 9/27/00 | Inactive | 60/235,940 | 9/27/00 | | |
| Data Analysis and Display System for Ligation-Based DNA Sequencing | 833-01 | US | 09/654,187 | 9/1/00 | Pending | 09/654,187 | 9/1/00 | | |
| Chemical Mismatch Detection | 838 | US | | | To be filed | | | | |
| Detecting Genetically Engineered Modifications in Host Organ | 844 | US | | | To be filed | | | | |
| Sequencing By Proxy | 843 | US | 09/867,201 | 5/29/01 | Pending | 09/867,201 | 5/29/01 | | |
| Fluid Delivery Apparatus | 839 | US | | | To be filed | | | | |
| Nucleic Acid Analysis by Sequence Transformations | 820P | US | 60/143,705 | 7/14/99 | Inactive | 60/143,705 | 7/14/99 | | |
| System and Apparatus for Sequential Processing of Analytes | 815-01 | US | 09/908,130 | 7/17/01 | Pending | 09/908,130 | 7/17/01 | | |

HN-500643-v1-Lynx Patent List.XLS

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| Genes | 822-01 | US | 09/130,546 | 8/6/98 | Granted | 09/130,546 | 8/6/98 | 6265163 | 7/24/01 |
| System and Apparatus for Sequential Processing of Analytes | 815-03 | US | 09/907,795 | 7/17/01 | Granted | 09/907,795 | 7/17/01 | 6654505 | 1/12/03 |
| Novel Oligonucleotides Having Modified Internucleoside Linka | 9213 | US | 08/012,050 | 2/1/93 | Inactive | 08/012,050 | 2/1/93 | | |
| Novel Oligonucleotides Having Modified Internucleoside Linka | 9213 FWC | US | 09/948,507 | 10/10/97 | Inactive | 08/948,507 | 10/10/97 | | |
| Novel Oligonucleotides Having Modified Internucleoside Linka | 9213 DIV A | US | 08/465,961 | 6/6/95 | Inactive | 08/465,961 | 6/6/95 | | |
| Novel Oligonucleotides Having Modified Internucleoside Linka | 9213 DIV D FWC | US | 08/885,827 | 6/30/97 | Inactive | 08/885,827 | 6/30/97 | | |
| Novel Oligonucleotides Having Modified Internucleoside Linka | 9213 DIV E | US | 08/659,924 | 6/7/96 | Inactive | 08/659,924 | 6/7/96 | | |
| Convergent Synthesis of Branched Multiply Connected Macromol | 003 | US | 08/087,386 | 7/2/93 | Inactive | 08/087,386 | 7/2/93 | | |
| Novel Oligonucleotides Having Modified Internucleoside Linka | 9213 DIV D | US | 08/500,524 | 7/1/95 | Inactive | 08/500,524 | 7/1/95 | | |
| Method for Making Complementary Oligonucleotide Tag Sets | 817P | US | 60/106,662 | 11/2/98 | Inactive | 60/106,662 | 11/2/98 | | |
| High Resolution Physical Maps of Genomic DNA Oligonucleotide N3'->P5' Phosphoramidates: Hybridization and | 005-04 | US | 08/711,384 | 9/3/96 | Inactive | 08/711,384 | 9/3/96 | | |
| System and Apparatus for Sequential Processing of Analytes | 815-02 | US | 09/908,131 | 7/17/01 | Pending | 09/908,131 | 7/17/01 | | |
| Oligodeoxyribonucleotide N3' P5' Phosphoramidates: Uses and | 006-00 | US | 08/210,505 | 3/18/94 | Inactive | 08/210,505 | 3/18/94 | | |
| Auto-Ligating Oligonucleotide Antisense Compounds Having Dia | 0012-01 | US | 08/478,721 | 6/6/95 | Inactive | 08/478,721 | 6/6/95 | | |
| Solid Phase Selection of Differentially Expressed Genes | 822 | US | 09/005,222 | 1/9/98 | Inactive | 09/005,222 | 1/9/98 | | |
| Method of Screening for Genetic Polymorphism DNA Sequencing by Stepwise Ligation and Cleavage | 801-01 (SLC1) | US | 09/222,300 | 4/4/94 | Inactive | 09/222,300 | 4/4/94 | | |
| Improved Combinatorial Tag Structures | 836 | US | | | To be filed | | | | |
| Method and Compositions for Arraying Microbeads on a Planar | 835 | US | | | To be filed | | | | |
| Molecular Tagging System | 802-01 | US | 08/322,348 | 10/13/94 | Inactive | 08/322,348 | 10/13/94 | | |

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|--|-------------------|----|--------------------------|---------------------|-----------------------|--------------------------|---------------------|--|--|
| Massively Parallel Signature Sequencing Methods Compositions for Sorting Polynucleotides | 833P 802-04 RE | US | 60/182,454 09/366,081 | 2/15/00 8/2/99 | Inactive Pending | 60/182,454 09/366,081 | 2/15/00 8/2/99 | | |
| Oligonucleotide Tags for Sorting and Identification Electrophoresis Apparatus and Method | 802-06 828 | US | 09/052,816 09/636,212 | 3/31/98 8/10/00 | Inactive Inactive | 09/052,816 09/636,212 | 3/31/98 8/10/00 | | |
| Polymorphic DNA Fragments and Uses Thereof Formation of Solid-Phase Arrays of Polynucleotides by Chemic | 826-03P 825 | US | 60/227,058 09/346,571 | 8/21/00 7/1/99 | Inactive Inactive | 60/227,058 09/346,571 | 8/21/00 7/1/99 | | |
| DNA Sequencing by Random Primer Extension Method for the Analysis of Differential Gene Expression | 804 906P | US | 08/091,603 60/341,030 | 7/13/93 12/11/01 | Inactive Abandoned | 08/091,603 60/341,030 | 7/13/93 12/11/01 | | |
| DNA Sequence Analysis By Stringency Class Primers | 804-02 | US | 08/436,528 | 5/8/95 | Abandoned | 08/436,528 | 5/8/95 | | |
| DNA Sequencing by Random Primer Extension Genetic Analysis of Gene Expression | 804-01 903P | US | 08/436,084 00/341,031 | 5/8/95 12/11/01 | Inactive Inactive | 08/436,084 60/341,031 | 5/8/95 12/11/01 | | |
| Identification of Candidate Genes for the Atherosclerosis Su | 901P | US | 60/341,973 | 12/18/01 | Abandoned | 60/341,973 | 12/18/01 | | |
| Identification of Genes Controlling Complex Traits Massively Parallel Signature Sequencing by Ligation of Encoded Adaptors | 907P 808-1 | US | 60/344,499 08/862,610 | 12/28/01 5/23/97 | Abandoned Inactive | 60/344,499 08/862,610 | 12/28/01 5/23/97 | | |
| Genes Affected by Cholesterol Treatment and During Adipogene | 902P | US | 60/347,286 | 1/9/02 | Inactive | 60/347,286 | 1/9/02 | | |
| Secreted and Cell Surface Polypeptides Affected by Cholesterol | 905P | US | 60/347,396 | 1/9/02 | Inactive | 60/347,396 | 1/9/02 | | |
| Enzymatic Synthesis of Oligonucleotide Tags | 810P | US | 60/103,030 | 10/5/98 | Inactive | 60/103,030 | 10/5/98 | | |
| Enzymatic Synthesis of Oligonucleotide Tags | 810-02 | US | 09/756,830 | 1/8/01 | Pending | 09/756,830 | 1/8/01 | | |
| Polymorphic DNA Fragments and Uses Thereof Identification of Genes Associated With Growth in Plants | 826-03 904P | US | 09/034,020 60/347,288 | 8/21/01 1/9/02 | Pending Inactive | 09/034,020 60/347,288 | 8/21/01 1/9/02 | | |
| System and Apparatus for Sequential Processing of Analyses | 815-04 | US | 09/907,787 | 7/17/01 | Pending | 09/907,787 | 7/17/01 | | |
| Palindrome Fix | 827 | US | | | Inactive | | | | |
| Use of encoded bead populations | 830 | US | | | Inactive | | | | |
| Decoder Pairs | 834 | US | | | Inactive | | | | |

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|---|---------------|----|------------|----------|-------------|------------|--|----------|-----------|--|---------|--|--|--|--|--|--|--|--|--|
| Bead subset Locator | 841 | US | | | | | | | | | | | | | | | | | | |
| DNA Restriction Site Mapping | 845-03 | US | 09/549,748 | 4/14/00 | Granted | 09/549,748 | | 4/14/00 | 6,720,179 | | 4/13/04 | | | | | | | | | |
| "Curvette" sequencing | 842 | US | | | To be filed | | | | | | | | | | | | | | | |
| Planar Arrays of Microparticle-Bound Polynucleotides | 815 US-C | US | 10/124,884 | 4/18/02 | Pending | 10/124,884 | | 4/18/02 | | | | | | | | | | | | |
| Method for Detecting Foreign DNA in a Host Genome | 1004P | US | 60/390,563 | 6/21/02 | Inactive | 60/390,563 | | 6/21/02 | | | | | | | | | | | | |
| Method for Determining Relative Abundance of Nucleic Acid Se | 832-01 | US | 09/967,238 | 9/27/01 | Pending | 09/967,238 | | 9/27/01 | | | | | | | | | | | | |
| Identification of Candidate Genes for the Atherosclerosis Su | 901 | US | 10/322,774 | 12/17/02 | Pending | 10/322,774 | | 12/17/02 | | | | | | | | | | | | |
| Method for Applying a pH Gradient to a Microchannel Device | 1000 | US | 10/322,000 | 12/17/02 | Pending | 10/322,000 | | 12/17/02 | | | | | | | | | | | | |
| Identification of Genes Associated With Growth in Plants | 904 | US | 10/338,777 | 1/7/03 | Pending | 10/338,777 | | 1/7/03 | | | | | | | | | | | | |
| Genes Affected by Cholesterol Treatment and During Adipogene | 902 | US | 10/339,793 | 1/8/03 | Pending | 10/339,793 | | 1/8/03 | | | | | | | | | | | | |
| Identification of Specific Biomarkers for Breast Cancer Cell | 900 | US | 10/339,782 | 1/8/03 | Pending | 10/339,782 | | 1/8/03 | | | | | | | | | | | | |
| Secreted and Cell Surface Polypeptides Affected By Cholesterol | 905 | US | 10/340,192 | 1/8/03 | Pending | 10/340,192 | | 1/8/03 | | | | | | | | | | | | |
| Polymorphic DNA Fragments and Uses Thereof | 826-02 US | US | 09/914,101 | 2/18/00 | Pending | 09/914,101 | | 2/18/00 | | | | | | | | | | | | |
| pH beads with xfer | 837 | US | | | Inactive | | | | | | | | | | | | | | | |
| Polymorph. Detections | 831 | US | | | Inactive | | | | | | | | | | | | | | | |
| Flg sequencing | 829 | US | | | Inactive | | | | | | | | | | | | | | | |
| Solid ph seq transfer w/RNA ampI | 824 | US | | | Inactive | | | | | | | | | | | | | | | |
| Method for Applying a pH Gradient to a Microchannel Device | 1003P | US | 60/341,916 | 12/18/01 | Inactive | 60/341,916 | | 12/18/01 | | | | | | | | | | | | |
| Identification of Specific Biomarkers for Breast Cancer Cell | 900P | US | 60/348,053 | 1/9/02 | Abandoned | 60/348,053 | | 1/9/02 | | | | | | | | | | | | |
| Massively Parallel Signature Sequencing by Ligation of Encoded Adaptors | 808 | US | 08/689,587 | 8/12/96 | Inactive | 08/689,587 | | 8/12/96 | | | | | | | | | | | | |
| Oligonucleotide Clamps Having Diagnostic Applications | 004 | US | 09/087,387 | 7/2/93 | Granted | 08/087,387 | | 7/2/93 | 5473060 | | 12/5/95 | | | | | | | | | |
| DNA Sequencing by Stepwise Ligation and Cleavage | 801-02 (SLC2) | US | 08/280,441 | 7/25/94 | Granted | 08/280,441 | | 7/25/94 | 5552278 | | 9/3/96 | | | | | | | | | |
| Convergent Synthesis of Branched Multiply Connected Macromolecular structures | 003-01 | US | 08/455,627 | 5/31/95 | Granted | 08/455,627 | | 5/31/95 | 5571677 | | 11/5/96 | | | | | | | | | |

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| Auto-Ligating Oligonucleotide Antisense Compounds | 0012-00 | US | 08/089,999 | 7/9/93 | Granted | 08/089,999 | 7/9/93 | 5571903 | 11/5/96 |
| Oligonucleotide N3'-fw/danw, P5' phosphoramidates; Iqplex DNA | 005-02 | US | 08/478,470 | 6/6/95 | Granted | 08/478,470 | 6/6/95 | 5591607 | 1/7/97 |
| DNA Sequencing by Stepwise Ligation and Cleavage | 801-05 (SLC3) | US | 08/410,116 | 3/24/95 | Granted | 08/410,116 | 3/24/95 | 5599675 | 2/4/97 |
| Oligonucleotide N3'->P5' Phosphoramidates; Hybridization and nuclease resistance properties | 005 | US | 214599 | 3/18/94 | Granted | 214599 | 3/18/94 | 5599922 | 2/4/97 |
| Methods for Sorting Polynucleotides Using Oligonucleotide Tag | 802-02 | US | 08/358,810 | 12/19/94 | Granted | 08/358,810 | 12/19/94 | 5604097 | 2/18/97 |
| Oligonucleotide N3'->P5' Phosphoramidates; Hybridization and | 005-03 | US | 08/473,015 | 6/6/95 | Granted | 08/473,015 | 6/6/95 | 5631135 | 5/20/97 |
| Minimally cross-hybridizing sets of oligonucleotide tags | 802-03 | US | 08/479,238 | 6/7/95 | Granted | 08/479,238 | 6/7/95 | 5635400 | 6/3/97 |
| Oligonucleotides having modified internucleoside linkages | 9213 DIV B | US | 08/471,248 | 6/6/95 | Granted | 08/471,248 | 6/6/95 | 5646260 | 7/18/97 |
| Process for making oligonucleotides having modified internuc | 9213 DIV C | US | 08/467,219 | 6/6/95 | Granted | 08/467,219 | 6/6/95 | 5648480 | 7/15/97 |
| Compositions for Sorting Polynucleotides | 802-04 | US | 08/484,712 | 6/7/95 | Granted | 08/484,712 | 6/7/95 | 5654413 | 9/5/97 |
| Oligo-2 - Fluoronucleotide N3'->P5' Phosphoramidates | 035-00 | US | 08/603,566 | 2/21/96 | Granted | 08/603,566 | 2/21/96 | 5684143 | 11/4/97 |
| DNA Sequencing by Stepwise Ligation and Cleavage | 801-06 (SLC4) | US | 08/667,689 | 6/21/96 | Granted | 08/667,689 | 6/21/96 | 5714330 | 2/3/98 |
| Oligodeoxyribonucleotide N3' P5' Phosphoramidates | 006-01 | US | 08/465,368 | 6/5/95 | Granted | 08/465,368 | 6/5/95 | 5726297 | 3/10/98 |
| Oligonucleotide Clamps | 004-01 | US | 08/461,271 | 6/5/95 | Granted | 08/461,271 | 6/5/95 | 5741643 | 4/21/98 |
| Polynucleotide Detection by Isothermal Amplification Using C | 806 | US | 08/536,743 | 9/29/95 | Granted | 08/536,743 | 9/29/95 | 5747255 | 5/5/98 |
| DNA Sequencing By Parallel Oligonucleotide Extensions | 805 | US | 08/424,663 | 4/11/95 | Granted | 08/424,663 | 4/11/95 | 5750341 | 5/12/98 |
| Simultaneous Sequencing of Tagged Polynucleotides | 807 | US | 08/560,313 | 1/11/95 | Granted | 08/560,313 | 1/11/95 | 5763175 | 6/9/98 |
| DNA Extension and Analysis with Rolling Primers | 811 | US | 08/611,155 | 3/5/96 | Granted | 08/611,155 | 3/5/96 | 5780231 | 7/14/98 |
| Oligonucleotide Clamps Having Diagnostic and Therapeutic Applications | 004-02 | US | 08/713,685 | 6/17/96 | Granted | 08/713,685 | 6/17/96 | 5817795 | 10/6/98 |
| Solid Phase Synthesis of Oligonucleotide N3'->P5' Phosphoram | 035-01 | US | 08/663,918 | 6/14/96 | Granted | 08/663,918 | 6/14/96 | 5824793 | 10/20/98 |

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| Convergent Synthesis of Branched Multiply Connected Macromolecular Structures Kits for DNA Sequencing by Stepwise Ligation and Cleavage | 003-02 | US | 08/689,856 | 6/15/96 | Granted | 08/689,856 | 6/15/96 | 5830658 | 11/3/98 |
| | 801-04 (SLC3C2) | US | 08/712,011 | 9/11/96 | Granted | 08/712,011 | 9/11/96 | 5831065 | 11/3/98 |
| Oligonucleotide N3->P5' Phosphoramidates: Hybridization and nuclease resistance properties | 005-01 | US | 08/477,306 | 6/6/95 | Granted | 08/477,306 | 6/6/95 | 5837835 | 11/7/98 |
| | 802-05 | US | 08/659,453 | 6/6/96 | Granted | 08/659,453 | 6/6/96 | 5848719 | 12/6/98 |
| Oligonucleotide Tags for Sorting and Identification Method of Determining Zygosity by Ligation and Cleavage | 801-03 (SLC3C1) | US | 08/478,239 | 7/6/95 | Granted | 08/478,239 | 7/6/95 | 5856093 | 1/5/99 |
| Synthon for Synthesis of Oligonucleotide N3-P5 Phosphoramid | 035-02 | US | 08/771,789 | 12/20/96 | Granted | 08/771,789 | 12/20/96 | 5859233 | 1/12/99 |
| Method of Sorting Polynucleotides | 803 | US | 08/485,105 | 6/7/95 | Granted | 08/485,105 | 6/7/95 | 5853722 | 1/28/99 |
| Massively Parallel Sequencing of Sorted Polynucleotides | 803-01 | US | 08/359,295 | 12/19/94 | Granted | 08/359,295 | 12/19/94 | 5869934 | 12/9/97 |
| Improvements in Adaptor-Based Sequence Analysis | 814 | US | 08/842,608 | 4/15/97 | Granted | 08/842,608 | 4/15/97 | 5888737 | 4/30/99 |
| Novel Oligonucleotides Having Modified Internucleoside Linka | 9213 DIV E CPA | US | 08/659,924 | 6/7/96 | Granted | 08/659,924 | 6/7/96 | 5932718 | 1/16/01 |
| DNA Extension and Analysis with Rolling Primers | 811-01 | US | 08/916,120 | 8/22/97 | Granted | 08/916,120 | 8/22/97 | 5962228 | 10/5/99 |
| Oligonucleotide N3'-wardam, P5' phosphoramidates | 005-05 US | US | 08/700,448 | 1/10/97 | Granted | 08/700,448 | 1/10/97 | 5965720 | 10/7/99 |
| DNA Sequencing by Parallel Oligonucleotide Extensions | 805-01 | US | 08/872,446 | 6/10/97 | Granted | 08/872,446 | 6/10/97 | 5989119 | 10/7/99 |
| Polynucleotide Purification Method | 038-00 | US | 08/929,620 | 9/15/97 | Granted | 08/929,620 | 9/15/97 | 5998604 | 12/7/99 |
| Electrophoresis Apparatus and Method | 818 | US | 09/084,041 | 5/22/98 | Granted | 09/084,041 | 5/22/98 | 6013165 | 1/1/00 |
| Massively Parallel Signature Sequencing by Ligation of Encoded Adaptors | 808-2 | US | 08/946,138 | 10/7/97 | Granted | 08/946,138 | 10/7/97 | 6013445 | 1/11/00 |
| Oligonucleotide Clamps Having Diagnostic and Therapeutic Applications | 004-03 | US | 09/070,477 | 4/30/98 | Granted | 09/070,477 | 4/30/98 | 6048974 | 4/11/00 |
| DNA Restriction Site Mapping | 845-01 | US | 09/028,128 | 2/23/98 | Granted | 09/028,128 | 2/23/98 | 6054276 | 4/25/00 |
| Gene Expression Analysis | 845-02 | US | 09/187,793 | 11/6/99 | Granted | 09/187,793 | 11/6/99 | 6136537 | 10/24/00 |
| Method, Apparatus and Computer Program Product for Determini | 802-11 | US | 09/089,853 | 6/3/98 | Granted | 09/089,853 | 6/3/98 | 6138077 | 10/24/00 |
| Compositions for Sorting Polynucleotides | 803-03 | US | 09/183,650 | 10/30/98 | Granted | 09/183,650 | 10/30/98 | 6140489 | 10/31/00 |
| Kits for Sorting and Identifying Polynucleotides | 802-13 | US | 09/166,543 | 11/20/98 | Granted | 09/166,543 | 11/20/98 | 6150516 | 11/21/00 |
| Oligonucleotide N3'-wardam, N5'-Phosphoramidate Duplexes | 005-06 | US | 09/923,386 | 8/3/97 | Granted | 09/923,386 | 9/3/97 | 6169170 | 11/2/01 |

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|---|---------------|-----|------------------------|--------------------|--------------------|------------------------|--------------------|----------|--|----------|
| Molecular Tagging System | 802-02 CA DIV | CA | 2,441,634 | 10/12/95 | Filed | 2,441,634 | 10/12/95 | | | |
| Massively Parallel Sequencing of Sorted Polynucleotides | 803 GB | GB | 95937322.6 | 10/12/95 | Filed | 95937322.6 | 10/12/95 | | | |
| Methods for Identifying Genes Regulating Desired Cell Phenotypes | 819-01D | US | 68263,807 10646,451 | 1/24/02 8/21/03 | Pending Pending | 68263,807 10646,451 | 1/24/02 8/21/03 | | | |
| Method of Screening for Genetic Polymorphism | 1004 | PCT | PCT/US2003/ | 6/21/02 | Pending | PCT/US2003/01 | 6/21/02 | | | |
| Method for Detecting Foreign DNA in a Host Genome | 802-10 | US | 09/131,009 | 8/7/98 | Granted | 09/131,009 | 8/7/98 | 6172214 | | 1/9/01 |
| Oligonucleotide Tags for Sorting and Identification | 802-09 | US | 09/092,226 | 6/5/98 | Granted | 09/092,226 | 6/5/98 | 6172218 | | 1/9/01 |
| Oligonucleotide Tags for Sorting and Identification | 814-01 | US | 09/225,652 | 1/5/99 | Granted | 09/225,652 | 1/5/99 | 6175002 | | 1/16/01 |
| Improvements in Adaptor-Based Sequence Analysis | 818-01 | US | 09/448,908 | 11/23/99 | Granted | 09/448,908 | 11/23/99 | 6214191 | | 4/10/01 |
| Measurement of Gene Expression Profiles in Toxicity Determin | 813 | US | 09/269,911 | 2/28/00 | Granted | 09/269,911 | 2/28/00 | 6228589 | | 5/6/01 |
| Oligonucleotide Tags for Sorting and Identification | 802-12 | US | 09/130,862 | 6/6/98 | Granted | 09/130,862 | 6/6/98 | 6235475 | | 5/22/01 |
| Method of Detecting the Presence or Absence of a Plurality of Target Sequences Using Oligonucleotide Tags | 802-08 | US | 09/090,809 | 6/4/98 | Granted | 09/090,809 | 6/4/98 | 6280935 | | 8/28/01 |
| DNA Sequencing by Parallel Oligonucleotide Extensions | 805-02 | US | 09/280,270 | 3/29/99 | Granted | 09/280,270 | 3/29/99 | 6306,597 | | 10/23/01 |
| Oligonucleotide Tags for Sorting and Identification | 802-07 | US | 09/053,116 | 4/1/98 | Granted | 09/053,116 | 4/1/98 | 6352828 | | 3/5/02 |
| Planar Arrays of Microparticle-Bound Polynucleotides | 816 US | US | 09/424,028 | 11/16/99 | Granted | 09/424,028 | 11/16/99 | 6406848 | | 6/18/02 |
| Solid Phase Selection of Differentially Expressed Genes | 822-02 | US | 09/227,694 | 1/8/99 | Granted | 09/227,694 | 1/8/99 | 6511,802 | | 1/29/03 |
| Method of mapping restriction sites in polynucleotides | 616-01 US | US | 09/446,081 | 3/27/00 | Granted | 09/446,081 | 3/27/00 | 6518023 | | 2/11/03 |
| SYSTEM AND APPARATUS FOR SEQUENTIAL PROCESSING OF ANALYTES | 815-01 AU | AU | 83651/01 | | Inactive | 83651/01 | | | | |
| METHOD OF MAPPING RESTRICTION SITES IN POLYNUCLEOTIDES | 816-01 WOJP | JP | 11505776 | 6/25/98 | Pending | 11505776 | 6/25/98 | | | |
| DATA ANALYSIS AND DISPLAY SYSTEM FOR LIGATION-BASED DNA SEQUENCING | | US | 10/407,089 | 4/2/03 | Pending | 10/407,089 | 4/2/03 | | | |
| LIGATION BASED DNA SEQUENCING | 833-01 AU | AU | 38391/01 | 2/15/01 | Filed | 38391/01 | 2/15/01 | | | |

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| Constant Length Signatures for parallel sequencing of Polynucleotides | 1001 | US | 10/424,281 | 4/25/03 | Pending | 10/424,281 | 4/25/03 | | |
| Constant Length Signatures for Parallel Sequencing of Polynucleotides | 1001 W/O | PCT | US03/13076 | 4/25/03 | Pending | US03/13076 | 4/25/03 | | |
| SOLID PHASE SELECTION OF DIFFERENTIALLY EXPRESSED GENES | | PL | 342114 | 1/8/99 | Pending | 342114 | 1/8/99 | | |
| METHOD FOR APPLYING A PH GRADIENT TO A MICROCHANNEL DEVICE | 1000 W/O | PCT | 02/40176 | 12/17/02 | Inactive | 02/40176 | 12/17/02 | | |
| Adaptor-based sequence analysis | | US | 225652 | 1/5/99 | Granted | 225652 | 1/5/99 | 6175002 | 1/16/01 |
| Adaptor-based sequence analysis | | US | 842608 | 4/15/97 | Granted | 842608 | 4/15/97 | 5888737 | 3/30/99 |
| Chromatographic separation of phosphorothioate oligonucleotides | | US | 50288 | 5/10/93 | Granted | 50288 | 5/10/93 | 5395928 | 3/7/95 |
| Method of synthesizing sulfurylated oligonucleotide analogs | | US | 113725 | 8/27/93 | Granted | 113725 | 8/27/93 | 5292875 | 3/8/94 |

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Exhibit "C" attached to that certain Intellectual Property Security Agreement dated December 26, 2004.

EXHIBIT "C"

TRADEMARKS

| <u>TRADEMARK</u> <u>DESCRIPTION</u> | <u>COUNTRY</u> | <u>SERIAL NO.</u> | <u>REG. NO.</u> | <u>STATUS</u> |
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See Attached.

Exhib. 6, 7 & 8 - TRADEMARKS

| Class | Source | Country | Title | Goods or Nature of Mark | Serial No. | Registration No. |
|-------|----------------------|----------------|------------|---|------------|---|
| TM | CLOSED-To Dungeon | US | Megacclone | Reagents for scientific or research use; diagnostics reagents for clinical or medical laboratory use | 75/631946 | There is no Registration No. for this one as it was abandoned |
| TM | Registered | US | Megasort | Kits consisting primarily of probes for sorting particulate supports carrying immobilized biological molecules, such as nucleic acids, for scientific or research use | 75/653709 | 2,607,815 |
| TM | Registered | US | MPPSS | DNA sequence analyzer for parallel analysis of multiple nucleic acids attached to separate microparticles disposed in a planar array, and parts thereof | 75/368237 | 2,756,427 |
| SM | CLOSED-To Dungeon | US | Megatype | Providing DNA analysis services for others | 76/162496 | There is no Registration No. for this one as it was abandoned |
| SM | Registered | US | Lynx | Providing DNA analysis services for others | 76/163491 | 2,650,334 |
| TM | Registered | US | Combi-Bead | Microbead reagents used in scientific and clinical research procedures for separating, sorting, labeling, or analyzing polynucleotide analytes | 75/910313 | 2,503,036 |
| TM | Registered | US | Combi-Tag | Oligonucleotide reagents used in scientific research and clinical research procedures for separation, sorting, or labeling polynucleotide analytes | 75/788982 | 2,505,260 |
| TM | Registered | US | Megacclone | Reagents for scientific or research use | 76/163492 | 2,646,805 |
| SM | Registered | US | Megacclone | Providing DNA analysis services for others | 76/163424 | 2,640,604 |
| TM/S | Registered | Japan | Megasort | Kits for laboratory and/or clinical analysis, sorting, or segregation by flow sorting or flow cytometry particulate supports carrying immobilized biological molecules, such as nucleic acids; DNA analysis | 11-76484 | 04/19/2002 |
| TM/S | Registered | Europe Only | Megasort | Kits for carrying out analysis; Services for laboratory and/or clinical analysis; carrying out laboratory & clinical analysis by selection or segregation, flow separation or by flow | 1 261 791 | 11/28/2001 |

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| Trademark | Status | Country | Mark of Distinction | Class of Goods/Services | Registration No. | Registration Date |
|-----------|------------|-------------|--|--|------------------|-------------------|
| | | | | cytometry particulate supports carrying immobilized biological molecules | | |
| TM | Registered | Japan | Megacitone | Particulate supports with immobilized biological molecules for use in scientific research or clinical procedures, such as nucleic acid probe hybridization, gene expression analysis, DNA sequencing, drug discovery & kits that include such supports | 11-42716 | 10/20/2000 |
| TM | Registered | Japan | MPPSS | Equipment for nucleic acid analysis, other physical or chemical apparatus/instruments, measuring apparatus/instruments | 10-28514 | 12/24/1999 |
| TM | Registered | Japan | Combi-Tag | Oligonucleotide for separating, sorting and/or labeling polynucleotide analytes [other than for medical and veterinary purposes] | 2000-6598 | 07/27/2001 |
| TM | Registered | Japan | Combi-Tag | Oligonucleotide for clinical & medical purposes for separating, sorting and/or labeling polynucleotide analytes | 2001-32345 | 06/01/2001 |
| TM | Registered | Europe Cnty | Megacitone | Particulate supports with immobilized biological molecules for use in scientific research or clinical procedures, such as nucleic acid probe hybridization, gene expression analysis, DNA sequencing, drug discovery, and kits that include such supports | 1 163 609 | 10/03/2000 |
| TM | Registered | Europe Cnty | MPPSS | Chemicals used in industry and science; chemical reagents for scientific and diagnostic use, reagents for use in medicine; equipment for nucleic acid analysis | 779 363 | 09/08/1999 |
| TM | Registered | Europe Cnty | Combi-Tag | Oligonucleotide used in scientific research and clinical procedures for separating, sorting, and/or labeling polynucleotide analytes | 1 520 428 | 04/09/2001 |
| TM, SM | Registered | US | Lynx Genecatalog and design (box design) | Scientific apparatus & instruments...; med, hygienic & beauty care; veterinary & agricultural services, scientific & industrial research; computer programming; services of a medical bacteriological or chemical laboratory, technical advisory services... | 76/216817 | 2,661,846 |

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| TM | Status | Country | Mark or File | Class of Service or Goods | Serial No. | Registering To |
|------|------------|---------|---|--|------------|----------------|
| SM | Registered | US | Lynx Genecatalog and design (cat eyes design) | Scientific apparatus & instruments...; medical, hygienic & beauty care, veterinary & agricultural services, scientific & industrial research; computer programming, services of a medical bacteriological or chemical laboratory, technical advisory services. | 76/216971 | 2,661,848 |
| SM | CLOSED-To | Japan | Lynx | Analysis, cloning, sequencing, identification, characterization and research of genes | 41355/2001 | |
| SM | Registered | Japan | Megacclone | Providing DNA analysis services for others | 41356/2001 | 07/05/2002 |
| SM | Registered | Japan | Megatype | Providing DNA analysis services for others | 41357/2001 | 07/05/2002 |
| SM | Registered | Japan | MPPSS | Providing DNA analysis services for others | 41358/2001 | 07/05/2002 |
| TM/S | Registered | Europe | Lynx | Reagents for scientific or research use; reagents for clinical or medical laboratory use; providing DNA analysis services for others | 2 208 148 | 10/14/2002 |
| SM | Registered | Europe | Megacclone | Providing DNA analysis services for others | 2 208 767 | 05/17/2002 |
| SM | Registered | Europe | Megatype | Providing DNA analysis services for others | 2 207 421 | 06/12/2002 |
| SM | Registered | Europe | MPPSS | Providing DNA analysis services for others | 2 208 387 | 03/06/2002 |
| SM | Registered | US | Megasort | Providing DNA analysis services for others | 76/259442 | 2,586,627 |
| SM | Pending | US | MPPSS | Providing DNA analysis services for others | 76/259445 | 2,856,295 |
| TM | Registered | Japan | Lynx | Reagents for analysis, cloning, sequencing, identification, and research of genes for scientific or industrial use | 58162/2002 | 04/16/2004 |

TRADEMARK

Exhibit "D" attached to that certain Intellectual Property Security Agreement dated December 20, 2004.

EXHIBIT "D"

MASK WORKS

| <u>MASK WORK</u> <u>DESCRIPTION</u> | <u>COUNTRY</u> | <u>SERIAL NO.</u> | <u>REG. NO.</u> | <u>STATUS</u> |
|--|----------------|-------------------|-----------------|---------------|
|--|----------------|-------------------|-----------------|---------------|

None.

Exhibit "E" attached to that certain Intellectual Property Security Agreement dated December 20, 2004.

EXHIBIT "E"

LICENSES

1. Colony Technology Sharing Agreement, dated as of March 22, 2004, between Solexa Limited and the Company.
2. Deed, dated October 25, 2004, between Solexa Limited and the Company.
3. Master Development Agreement, dated October 28, 2004, by and between Solexa Limited and the Company.
4. Collaboration Agreement, dated October 1, 2000, by and between Takara Shuzo Co., Ltd. and the Company, as amended on December 19, 2002 and June 30, 2003.

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