

## PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	CHANGE OF NAME
CONVEYING PARTY DATA	
Name	Execution Date
TRELLIS BIOINFORMATICS, INC.	10/04/2001
RECEIVING PARTY DATA	
Name:	TRELLIS BIOSCIENCE, INC.
Street Address:	Two-B Corporate Drive
City:	South San Francisco
State/Country:	CALIFORNIA
Postal Code:	94080
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	10714163
CORRESPONDENCE DATA	
Fax Number:	(858)720-5125
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	8587205112
Email:	dbethune@mofo.com
Correspondent Name:	Morrison & Foerster LLP
Address Line 1:	12531 High Bluff Drive
Address Line 2:	Suite 100
Address Line 4:	San Diego, CALIFORNIA 92130
ATTORNEY DOCKET NUMBER:	388512010411
NAME OF SUBMITTER:	Kate H. Murashige
Total Attachments: 15 source=Name Change#page1.tif source=Name Change#page2.tif source=Name Change#page3.tif source=Name Change#page4.tif	

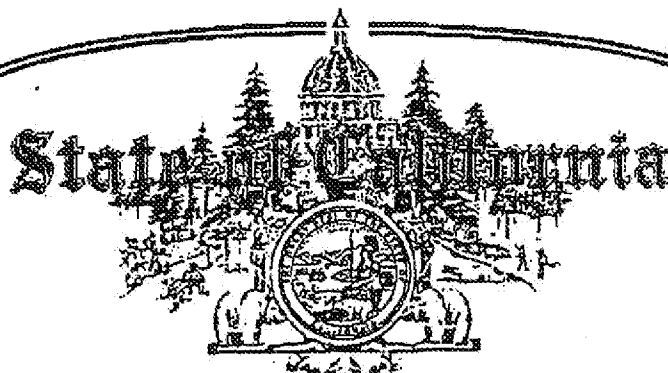
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## SECRETARY OF STATE

I, *BILL JONES*, Secretary of State of the State of California, hereby certify:

That the attached transcript of 14 page(s) has been compared with the record on file in this office, of which it purports to be a copy, and that it is full, true and correct.



IN WITNESS WHEREOF, I execute this certificate and affix the Great Seal of the State of California this day of

OCT 5 2001

Secretary of State

A0571040

ENDORSED - FILED  
in the office of the Secretary of State  
of the State of California

OCT 4 2001

BILL JONES, Secretary of State

AMENDED AND RESTATED ARTICLES OF INCORPORATION  
OF TRELLIS BIOINFORMATICS, INC.  
A CALIFORNIA CORPORATION

The undersigned Lawrence M. Kauvar and John Sedat hereby certify that:

ONE: They are the duly elected and acting President and Secretary, respectively, of Trellis Bioinformatics, Inc. (the "Corporation").

TWO: The Articles of Incorporation of the Corporation shall be amended and restated to read in full as follows:

## Article 1.

The name of the Corporation is Trellis Bioscience, Inc.

## Article 2.

The purpose of the Corporation is to engage in any lawful act or activity for which a corporation may be organized under the General Corporation Law of California other than the banking business, the trust company business or the practice of a profession permitted to be incorporated by the California Corporations Code.

## Article 3.

A. Classes of Stock. The Corporation is authorized to issue two classes of stock to be designated, respectively, "Common Stock" and "Preferred Stock." The total number of shares which the Corporation is authorized to issue is Twenty Two Million Nine Hundred Sixty Eight Thousand Three Hundred (22,968,300) shares. Fourteen Million Four Hundred Eight Thousand Three Hundred (14,408,300) shares shall be Common Stock and Eight Million Five Hundred Sixty Thousand (8,560,000) shares shall be Preferred Stock.

B. Rights, Preferences and Restrictions of Preferred Stock. The rights, preferences, privileges, and restrictions granted to and imposed on the "Series A Preferred Stock," which series shall consist of Eight Million Five Hundred Sixty Thousand (8,560,000) shares are as set forth in this Article 3(B).

1. Dividend Provisions. The holders of shares of Series A Preferred Stock shall be entitled to receive dividends, out of any assets legally available therefor, prior and in preference to any declaration or payment of any dividend (payable other than in Common Stock or other securities and rights convertible into or entitling the holder thereof to receive, directly or indirectly, additional shares of Common Stock of the Corporation) on the Common Stock, at the rate of \$0.04 per share of Series A Preferred Stock (subject to appropriate adjustments for stock splits, dividends, combinations or other recapitalizations) per annum. Subject to Section B(2) below, such Series A Preferred Stock dividends shall be payable only when, as and if declared by the Corporation's Board of Directors (the "Board") and shall not be cumulative. Without

limiting the foregoing, no dividend or distribution shall be made to the holders of Common Stock unless the holders of Series A Preferred Stock shall receive a proportionate share of any such dividend or distribution.

2. Liquidation Preference.

(a) In the event of any liquidation, dissolution or winding up of the Corporation, either voluntary or involuntary, the holders of Series A Preferred Stock shall be entitled to receive, prior and in preference to any distribution of any of the assets or surplus funds of the Corporation to the holders of Common Stock by reason of their ownership thereof, an amount per share (the "Series A Liquidation Preference") equal to the sum of (i) \$0.50 for each outstanding share of Series A Preferred Stock (subject to appropriate adjustment for stock splits, stock dividends, combinations or other recapitalizations) (the "Original Series A Issue Price") and (ii) an amount equal to the dividends at the rate set forth in Section B(1) whether or not declared by the Board on each such share. If upon the occurrence of such event, the assets and funds to be distributed among the holders of the Series A Preferred Stock shall be insufficient to permit the payment to such holders of the full Series A Liquidation Preference, then the assets and funds of the Corporation legally available for distribution shall be distributed ratably among the holders of Series A Preferred Stock based on the number of shares of Series A Preferred Stock then held by such holder.

(b) Upon the completion of the distributions required by subparagraph (a) of this Section B(2), the remaining assets and funds of the Corporation legally available for distribution to shareholders shall be distributed among the holders of Series A Preferred Stock and Common Stock pro rata based on the number of shares of Common Stock held by each (assuming conversion of all Series A Preferred Stock).

(c) For purposes of this Section B(2), a liquidation, dissolution, or winding up of the Corporation shall be deemed to be occasioned by, or to include, (A) any reorganization, consolidation or merger (or similar transaction or series of transactions) of the Corporation with or into any other entity or entities in which the holders of the Corporation's outstanding shares immediately before such transaction or series of transactions do not, immediately after such transaction or series of transactions, hold stock representing a majority of the voting power of the surviving entity (or its parent entity if the surviving entity is wholly owned by the parent entity) of such transaction or series of transactions; or (B) a sale of all or substantially all of the assets of the Corporation by means of any transaction or series of transactions (each of the transactions described in clauses (A) and (B) of this Section hereinafter referred to as a "Sale of the Corporation").

(i) In any such transaction, if the consideration received by the Corporation is other than cash, its value will be deemed its fair market value. Any securities shall be valued as follows:

(A) Securities not subject to investment letter or other similar restrictions on free marketability:

(1) If traded on a securities exchange or through The Nasdaq National Market System, the value shall be deemed to be the average of the closing prices of the securities on such exchange over the thirty (30)-day period ending three (3) days prior to the closing of such transaction;

(2) If actively traded over-the-counter, the value shall be deemed to be the average of the closing bid or sale prices (whichever is applicable) over the thirty (30)-day period ending three (3) days prior to the closing of such transaction; and

(3) If there is no active public market, the value shall be the fair market value thereof, as determined reasonably and in good faith by the Board.

(B) The method of valuation of securities subject to investment letter or other restrictions on free marketability (other than restrictions arising solely by virtue of a shareholder's status as an affiliate or former affiliate) shall be to make an appropriate discount from the market value determined as above in (A) (1), (2) or (3) to reflect the approximate fair market value thereof, as determined reasonably and in good faith by the Board.

(ii) In the event the requirements of this Section B(2) are not complied with, the Corporation shall forthwith either:

(A) cause the closing of any such transaction to be postponed until such time as the requirements of this Section B(2) have been complied with; or

(B) cancel such transaction, in which case the rights, preferences and privileges of the holders of the Series A Preferred Stock shall revert to and be the same as such rights, preferences and privileges existing immediately prior to the date of the first notice referred to in Section B(2)(d)(iii).

(iii) The Corporation shall give each holder of record of Series A Preferred Stock written notice of such impending transaction not later than twenty (20) days prior to the shareholders' meeting called to approve such transaction, or twenty (20) days prior to the closing of such transaction, whichever is earlier, and shall also notify such holders in writing of the final approval of such transaction. The first of such notices shall describe the material terms and conditions of the impending transaction and the provisions of this Section B(2), and the Corporation shall thereafter give such holders prompt notice of any material changes. The transaction shall in no event take place sooner than twenty (20) days after the Corporation has given the first notice provided for herein or sooner than ten (10) days after the Corporation has given notice of any material changes as provided for herein; provided, however, that such periods may be shortened upon the written consent of the holders of the Series A Preferred Stock that are entitled to such notice rights or similar notice rights and that represent at

least fifty-one percent (51%) of the voting power of all then outstanding shares of the Series A Preferred Stock.

3. Redemption. The Series A Preferred Stock is not redeemable.

4. Conversion. The holders of the Series A Preferred Stock shall have conversion rights as follows (the "Conversion Rights"):

(a) Right to Convert. Each share of Series A Preferred Stock shall be convertible, at the option of the holder thereof, at any time after the date of issuance of such share at the office of the Corporation or any transfer agent for such stock, into such number of fully paid and nonassessable shares of Common Stock as is determined by dividing the Original Series A Issue Price by the Conversion Price applicable to such share, determined as hereafter provided, in effect on the date the certificate is surrendered for conversion. The initial conversion price per share for shares of Series A Preferred Stock (the "Conversion Price") shall be the Original Series A Issue Price provided, however, that the Conversion Price for the Series A Preferred Stock shall be subject to adjustment as set forth in Section B(4)(d) below.

(b) Automatic Conversion. Each share of Series A Preferred Stock shall automatically be converted into shares of Common Stock at the Conversion Price at the time in effect for such Series A Preferred Stock immediately upon the earlier of (i) the Corporation's sale of its Common Stock in a firm commitment underwritten public offering pursuant to a registration statement under the Securities Act of 1933, as amended, the public offering price of which is not less than \$2.50 per share (subject to appropriate adjustment for stock splits, stock dividends, combinations or other recapitalizations) and \$15,000,000 (before deducting underwriter's discounts and commissions) in the aggregate or (ii) the date specified by written consent or agreement of the holders of at least sixty-six and two-thirds percent (66-2/3%) of the then outstanding shares of Series A Preferred Stock voting together as a single class.

(c) Mechanics of Conversion. Before any holder of Preferred Stock shall be entitled to convert the same into shares of Common Stock, such holder shall surrender the certificate or certificates therefor, duly endorsed, at the office of the Corporation or of any transfer agent for the Preferred Stock, and shall give written notice by mail, postage prepaid to the Corporation at its principal corporate office, of the election to convert the same and shall state therein the name or names in which the certificate or certificates for shares of Common Stock are to be issued. The Corporation shall, as soon as practicable thereafter, issue and deliver at such office to such holder of Preferred Stock, or to the nominee or nominees of such holder, a certificate or certificates for the number of shares of Common Stock to which such holder shall be entitled as aforesaid. Such conversion shall be deemed to have been made immediately prior to the close of business on the date of such surrender of the shares of Preferred Stock to be converted, and the person or persons entitled to receive the shares of Common Stock issuable upon such conversion shall be treated for all purposes as the record holder or holders of such shares of Common Stock as of such date. If the conversion is in connection with an underwritten offering of securities registered pursuant to the Securities Act of 1933, as amended, the conversion may, at the option of any holder

tendering Preferred Stock for conversion, be conditioned upon the closing with the underwriters of the sale of securities pursuant to such offering, in which event the person(s) entitled to receive the Common Stock issuable upon such conversion of the Preferred Stock shall not be deemed to have converted such Preferred Stock until immediately prior to the closing of such sale of securities.

(d) Conversion Price Adjustments of Preferred Stock. The Conversion Price of the Series A Preferred Stock shall be subject to adjustment from time to time as follows:

(i) (a) If the Corporation shall issue, after the date upon which any shares of Series A Preferred Stock were first issued (the "Purchase Date" with respect to such series), any Additional Stock (as defined below) without consideration or for a consideration per share less than the Conversion Price for such series in effect immediately prior to the issuance of such Additional Stock, the Conversion Price for such series in effect immediately prior to each such issuance shall forthwith (except as otherwise provided in this clause (i)) be adjusted to a price determined by multiplying such Conversion Price by a fraction, the numerator of which shall be the number of shares of Common Stock outstanding immediately prior to such issuance (including the number of shares of Common Stock issuable upon the conversion of all outstanding shares of Preferred Stock) plus the number of shares of Common Stock that the aggregate consideration received by the Corporation for such issuance would purchase at such Conversion Price, and the denominator of which shall be the number of shares of Common Stock outstanding immediately prior to such issuance (including the number of shares of Common Stock issuable upon the conversion of all outstanding shares of Preferred Stock) plus the number of shares of such Additional Stock.

(A) No adjustment of the Conversion Price for the Series A Preferred Stock shall be made in an amount less than one cent (\$0.01) per share, provided that any adjustments which are not required to be made by reason of this sentence shall be carried forward and shall be either taken into account in any subsequent adjustment made prior to three (3) years from the date of the event giving rise to the adjustment being carried forward, or shall be made at the end of three (3) years from the date of the event giving rise to the adjustment being carried forward. Except to the limited extent provided for in Sections B(4)(d)(i)(E)(3) and (4), no adjustment of such Conversion Price pursuant to this Section B(4)(d)(i) shall have the effect of increasing the Conversion Price above the Conversion Price in effect immediately prior to such adjustment.

(B) In the case of the issuance of Additional Stock for cash, the consideration shall be deemed to be the amount of cash paid therefor before deducting any reasonable discounts, commissions or other expenses allowed, paid or incurred by the Corporation for any underwriting or otherwise in connection with the issuance and sale thereof.



(C) In the case of the issuance of Additional Stock for a consideration in whole or in part other than cash, the consideration other than cash shall be deemed to be the fair value thereof as determined reasonably and in good faith by the Board irrespective of any accounting treatment.

(D) In the case of the issuance (whether before, on or after the applicable Purchase Date) of options to purchase or rights to subscribe for Common Stock or of securities by their terms convertible into or exchangeable for Common Stock or options to purchase or rights to subscribe for such convertible or exchangeable securities, the following provisions shall apply for all purposes of this Section B(4)(d)(i) and Section B(4)(d)(ii):

(1) The aggregate maximum number of shares of Common Stock deliverable upon exercise (assuming the satisfaction of any conditions to exercisability, including without limitation, the passage of time, but without taking into account potential antidilution adjustments) of such options to purchase or rights to subscribe for Common Stock shall be deemed to have been issued at the time such options or rights were issued and for a consideration equal to the consideration (determined in the manner provided in Sections B(4)(d)(i)(C) and (D)), if any, received by the Corporation upon the issuance of such options or rights plus the minimum exercise price provided in such options or rights (without taking into account potential antidilution adjustments) for the Common Stock covered thereby.

(2) The aggregate maximum number of shares of Common Stock deliverable upon conversion of or in exchange for (assuming the satisfaction of any conditions to convertibility or exchangeability, including, without limitation, the passage of time, but without taking into account potential antidilution adjustments) any such convertible or exchangeable securities or upon the exercise of options to purchase or rights to subscribe for such convertible or exchangeable securities and subsequent conversion or exchange thereof shall be deemed to have been issued at the time such securities were issued or such options or rights were issued and for a consideration equal to the consideration, if any, received by the Corporation for any such securities and related options or rights (excluding any cash received on account of accrued interest or accrued dividends), plus the minimum additional consideration, if any, to be received by the Corporation (without taking into account potential antidilution adjustments) upon the conversion or exchange of such securities or the exercise of any related options or rights (the consideration in each case to be determined in the manner provided in Sections B(4)(d)(i)(C) and (D)) hereof.

(3) In the event of any change in the number of shares of Common Stock deliverable or in the consideration payable to the Corporation upon exercise of such options or rights or upon conversion of or in exchange for such convertible or exchangeable securities, including, but not limited to, a change resulting from the antidilution provisions thereof, the Conversion Price of the Series A Preferred Stock to the extent in any way affected by or computed using such options, rights or securities, shall be recomputed to

reflect such change, but no further adjustment shall be made for the actual issuance of Common Stock or any payment of such consideration upon the exercise of any such options or rights or the conversion or exchange of such securities.

(4) Upon the expiration of any such options or rights, the termination of any such rights to convert or exchange or the expiration of any options or rights related to such convertible or exchangeable securities, the Conversion Price of the Series A Preferred Stock to the extent in any way affected by or computed using such options, rights or securities or options or rights related to such securities, shall be recomputed to reflect the issuance of only the number of shares of Common Stock (and convertible or exchangeable securities which remain in effect) actually issued upon the exercise of such options or rights, upon the conversion or exchange of such securities or upon the exercise of the options or rights related to such securities.

(5) The number of shares of Common Stock deemed issued and the consideration deemed paid therefor pursuant to Sections B(4)(d)(i)(E)(1) and (2) hereof shall be appropriately adjusted to reflect any change, termination or expiration of the type described in either Section B(4)(d)(i)(E)(3) or (4).

(ii) "Additional Stock" shall mean any shares of Common Stock issued (or deemed to have been issued pursuant to Section B(4)(d)(i)(E)) by the Corporation after the Purchase Date other than:

(A) shares of Common Stock issued pursuant to a transaction described in Section B(4)(d)(iii), or

(B) up to 1,623,000 shares of Common Stock (or options, warrants or other rights to purchase such Common Stock) issued or issuable to employees, consultants, officers or directors of the Corporation pursuant to a stock option plan or restricted stock plan and any other equity incentive plan or agreement approved by the Board and both Series A Directors (as defined below), whether issued or issuable before or after the Purchase Date, net of any such shares of Common Stock repurchased by the Corporation and any such options, warrants or other rights to purchase such Common Stock that expire unexercised, and subject to appropriate adjustment for stock splits, stock dividends, combinations or other recapitalizations with respect to such shares; or

(C) shares of Common Stock issued or issuable upon conversion of the Series A Preferred Stock; or

(D) up to 300,289 shares of Common Stock (subject to appropriate adjustment for stock splits, stock dividends, combinations or other recapitalizations) issued or issuable upon the exercise of certain currently outstanding warrants; or

(E) shares of Common Stock issued or issuable to strategic partners approved by the Board; or

(F) up to 15,000 shares of Common Stock issued or issuable in connection that certain License Agreement with The Board of Trustees of the Leland Stanford Junior University dated as of October 3, 2001; or

(G) up to 10,000 shares of Common Stock issued or issuable in connection with that certain License Agreement and Subscription Agreement with National Jewish Medical and Research Center dated as of October 5, 2001; or

(H) shares of Common Stock issued or issuable (I) in a public offering in connection with which all outstanding shares of Series A Preferred Stock will be converted to Common Stock or (II) upon exercise of warrants or rights granted to underwriters in connection with such a public offering; or

(I) shares of Common Stock issued in connection with acquisitions by the Company that are approved by the Board.

(iii) In the event the Corporation should at any time or from time to time after the Purchase Date fix a record date for the effectuation of a split or subdivision of the outstanding shares of Common Stock or the determination of holders of Common Stock entitled to receive a dividend or other distribution payable in additional shares of Common Stock or other securities or rights convertible into, or entitling the holder thereof to receive directly or indirectly, additional shares of Common Stock (hereinafter referred to as "Common Stock Equivalents") without payment of any consideration by such holder for the additional shares of Common Stock or Common Stock Equivalents (including the additional shares of Common Stock issuable upon conversion or exercise thereof), then, as of such record date (or the date of such dividend distribution, split or subdivision if no record date is fixed), the Conversion Price of the Series A Preferred Stock shall be appropriately decreased so that the number of shares of Common Stock issuable on conversion of each share of such series shall be increased in proportion to such increase of the aggregate of shares of Common Stock outstanding and those issuable with respect to such Common Stock Equivalents with the number of shares issuable with respect to Common Stock Equivalents determined from time to time in the manner provided for deemed issuances in Section B(4)(d)(i)(E) above.

(iv) If the number of shares of Common Stock outstanding at any time after the Purchase Date is decreased by a combination of the outstanding shares of Common Stock, then, following the record date of such combination, the Conversion Price for the Series A Preferred Stock shall be appropriately increased so that the number of shares of Common Stock issuable on conversion of each share of such series shall be decreased in proportion to such decrease in outstanding shares.

(e) Other Distributions. In the event the Corporation shall declare a distribution payable in securities of other persons, evidences of indebtedness issued by the Corporation or other persons, assets (excluding cash dividends) or options or rights not referred to in Section B(4)(d)(iii) above, then, in each such case for the purpose of this Section B(4)(e), the holders of the Series A Preferred Stock shall be entitled to a proportionate share of any such distribution as though they were the holders of the number of shares of Common Stock of the Corporation into which their shares of Series A Preferred Stock are convertible as of the record date fixed for the determination of the holders of Common Stock of the Corporation entitled to receive such distribution.

(f) Recapitalizations. If at any time or from time to time there shall be a recapitalization of the Common Stock (other than a subdivision, combination or merger or sale of assets transaction provided for elsewhere in this Section B(4)) provision shall be made so that the holders of the Series A Preferred Stock shall thereafter be entitled to receive upon conversion of the Series A Preferred Stock the number of shares of stock or other securities or property of the Corporation or otherwise, to which a holder of Common Stock deliverable upon conversion would have been entitled on such recapitalization. In any such case, appropriate adjustment shall be made in the application of the provisions of this Section B(4) with respect to the rights of the holders of the Series A Preferred Stock after the recapitalization to the end that the provisions of this Section B(4) (including adjustment of the Conversion Price then in effect and the number of shares purchasable upon conversion of the Series A Preferred Stock) shall be applicable after that event as nearly equivalent as may be practicable.

(g) No Impairment. The Corporation will not, by amendment of its Articles of Incorporation or through any reorganization, recapitalization, transfer of assets, consolidation, merger, dissolution, issue or sale of securities or any other voluntary action, avoid or seek to avoid the observance or performance of any of the terms to be observed or performed hereunder by the Corporation, but will at all times in good faith assist in the carrying out of all the provisions of this Section B(4) and in the taking of all such action as may be necessary or appropriate in order to protect the Conversion Rights of the holders of the Series A Preferred Stock against impairment.

(h) No Fractional Shares.

(i) No fractional shares shall be issued upon the conversion of any share or shares of the Series A Preferred Stock and the Corporation shall pay in cash the fair value of fractions of a share as of the time when those entitled to receive such fractions are determined. Whether or not fractional shares are issuable upon such conversion shall be determined on the basis of the total number of shares of Series A Preferred Stock the holder is at the time converting into Common Stock and the number of shares of Common Stock issuable upon such aggregate conversion.

(ii) Upon the occurrence of each adjustment or readjustment of a Conversion Price pursuant to this Section B(4), the Corporation, at its expense, shall promptly compute such adjustment or readjustment in accordance with the terms hereof and prepare and furnish to each holder of such Preferred Stock a

certificate setting forth such adjustment or readjustment and showing in detail the facts upon which such adjustment or readjustment is based. The Corporation shall, upon the written request at any time of any holder of Preferred Stock, furnish or cause to be furnished to such holder a like certificate setting forth (A) such adjustment and readjustment, (B) the Conversion Price for such series of Preferred Stock at the time in effect, and (C) the number of shares of Common Stock and the amount, if any, of other property which at the time would be received upon the conversion of a share of Preferred Stock.

(i) Notices of Record Date. In the event of any taking by the Corporation of a record of the holders of any class of securities for the purpose of determining the holders thereof who are entitled to receive any dividend (other than a cash dividend) or other distribution, any right to subscribe for, purchase or otherwise acquire any shares of stock of any class or any other securities or property, or to receive any other right, the Corporation shall mail to each holder of Series A Preferred Stock at least twenty (20) days prior to the date specified therein, a notice specifying the date on which any such record is to be taken for the purpose of such dividend, distribution or right, and the amount and character of such dividend, distribution or right.

(j) Reservation of Stock Issuable Upon Conversion. The Corporation shall at all times reserve and keep available out of its authorized but unissued shares of Common Stock, solely for the purpose of effecting the conversion of the shares of the Preferred Stock, such number of its shares of Common Stock as shall from time to time be sufficient to effect the conversion of all outstanding shares of the Preferred Stock; and if at any time the number of authorized but unissued shares of Common Stock shall not be sufficient to effect the conversion of all then outstanding shares of the Preferred Stock, in addition to such other remedies as shall be available to the holder of such Preferred Stock, the Corporation will take such corporate action as may, in the opinion of its counsel, be necessary to increase its authorized but unissued shares of Common Stock to such number of shares as shall be sufficient for such purposes.

(k) Notices. Any notice required by the provisions of this Section B(4) to be given to the holders of shares of Preferred Stock shall be deemed given if deposited in the United States mail, postage prepaid, and addressed to each holder of record at such holder's address appearing on the books of the Corporation.

##### 5. Voting Rights.

(a) General Voting Rights. The holder of each share of Series A Preferred Stock have the right to one vote for each share of Common Stock into which such Series A Preferred Stock could then be converted (with any fractional share determined on an aggregate conversion basis being rounded to the nearest whole share, with one-half being rounded up), and with respect to such vote, such holder shall have full voting rights and powers equal to the voting rights and powers of the holders of Common Stock, and shall be entitled, notwithstanding any provision hereof, to notice of any shareholders' meeting in accordance with the Corporation's Bylaws (the "Bylaws"), and shall be entitled to vote, together as a single class with holders of Common Stock,

with respect to any question upon which holders of Common Stock have the right to vote, except for the election of directors which shall be as provided in Section B(5)(b) below.

(b) : Election of Directors. Notwithstanding Section B(5)(a) above, the holders of then outstanding shares of Series A Preferred Stock voting as a separate class on an as-converted basis, shall be entitled to elect two (2) directors of the Corporation (the "Series A Directors") and to fill any vacancies thereto, the holders of then outstanding shares of Common Stock, voting as a separate class, shall be entitled to elect two (2) directors of the Corporation (the "Common Directors") and to fill any vacancies thereto, and the holders of then outstanding shares of Common Stock and Series A Preferred Stock, voting together as a single class on an as-converted basis, shall be entitled to elect one (1) director of the Corporation (the "Independent Director") and to fill any vacancies thereto. At any meeting held for the purpose of electing directors, the presence in person or by proxy of the holders of a majority of the Series A Preferred Stock, on an as-converted basis shall constitute a quorum of the Series A Preferred Stock for the election of directors to be elected solely by the holders of Series A Preferred Stock. At any meeting held for the purpose of electing directors, the presence in person or by proxy of the holders of a majority of the Common Stock then outstanding shall constitute a quorum of the Common Stock for the election of directors to be elected solely by the holders of Common Stock. At any meeting held for the purpose of electing directors, the presence in person or by proxy of the holders of a majority of the Series A Preferred Stock, on an as-converted basis, and Common Stock then outstanding, shall constitute a quorum of the Series A Preferred Stock and Common Stock for the election of the director to be elected by the holders of the Series A Preferred Stock and Common Stock.

6. Protective Provisions. So long as any Series A Preferred Stock remain outstanding, the Corporation shall not without first obtaining the approval (by vote or written consent, as provided by law) of the holders of at least sixty-six and two-thirds percent (66 2/3%) of the then outstanding shares of Series A Preferred Stock voting as a separate class:

- (a) consummate a Sale of the Corporation;
- (b) alter, change or amend the rights, preferences or privileges of the shares of the Series A Preferred Stock;
- (c) authorize, create or issue, or obligate itself to authorize, create or issue, any new equity security or series or class of equity securities, including any security convertible into or exercisable for any such equity security;
- (d) redeem, repurchase, or pay a dividend or make a distribution with respect to any security of the Corporation; provided, however, that this restriction shall not apply to the repurchase of shares of Common Stock from employees, officers, directors, consultants or other persons performing services for the Corporation or any subsidiary pursuant to agreements under which the Corporation has the option to repurchase such shares at cost upon the occurrence of certain events such as the termination of employment; and provided, further, that this restriction shall not apply to dividends to the holders of shares of Series A Preferred Stock pursuant to Section B(1);

(e) amend or waive any provision of the Corporation's Restated Articles of Incorporation or Bylaws;

(f) provide for the voluntary liquidation or dissolution, recapitalization, reorganization, or winding up of the Corporation;

(g) engage in any business fundamentally different than the business engaged in and/or contemplated by the Corporation as of the Series A Purchase Date;

(h) change the number of directors from five (5); or

(i) incur any indebtedness for money borrowed in excess of \$75,000 in the aggregate; or

(j) enter into any joint venture, partnership or similar arrangement involving obligations (contingent or otherwise) of, or obligations to, the Corporation having a value in excess of \$100,000; or

(k) sell a material portion of the assets of the Corporation outside ordinary course of business engaged in by the Corporation as of the Series A Purchase Date; or

(l) acquire any other corporation or entity; or

(m) issue any securities of the Corporation to strategic partners other than (i) up to 15,000 shares of Common Stock pursuant to that certain License Agreement with The Board of Trustees of the Leland Stanford Junior University dated as of October 3, 2001 and (ii) up to 10,000 shares of Common Stock pursuant to that certain License Agreement and Subscription Agreement with National Jewish Medical and Research Center dated as of October 5, 2001.

7. Status of Converted Stock. In the event any shares of Series A Preferred Stock shall be converted pursuant to Section B(4), the shares so converted shall be cancelled and shall not be issuable by the Corporation. The Articles of Incorporation of the Corporation shall be appropriately amended to effect the corresponding reduction in the Corporation's authorized capital stock.

8. Repurchase of Shares. In connection with repurchases by the Corporation of its Common Stock pursuant to agreements with certain of the holders thereof, Sections 502 and 503 of the California Corporations Code shall not apply in whole or in part with respect to such repurchases pursuant to Section 402.5 of the General Corporation Law of California.

C. Common Stock.

1. Dividend Rights. Subject to the prior rights of holders of all classes of stock at the time outstanding having prior rights as to dividends, the holders of Common Stock shall be entitled to receive, when and as declared by the Board, out of any assets of the Corporation legally available therefor, such dividends as may be declared from time to time by the Board.

2. Liquidation Rights. Upon the liquidation, dissolution or winding up of the Corporation, the assets of the Corporation shall be distributed as provided in Section B(2) of Article 3.

3. Redemption. The Common Stock is not redeemable.

4. Voting Rights. The holder of each share of Common Stock shall have the right to one vote, and shall be entitled to notice of any shareholders' meeting in accordance with the Bylaws, and shall be entitled to vote upon such matters and in such manner as may be provided by law.

#### Article 4.

A. The liability of the directors of the Corporation for monetary damages shall be eliminated to the fullest extent permissible under California law.

B. The Corporation is authorized to provide indemnification of agents (as defined in Section 317 of the California Corporations Code) through bylaw provisions, agreements with agents, vote of shareholders or disinterested directors, or otherwise in excess of the indemnification otherwise permitted by Section 317 of the California Corporations Code, subject only to applicable limits set forth in Section 204 of the California Corporations Code with respect to actions for breach of duty to the Corporation and its shareholders.

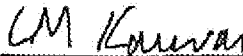
THREE: The foregoing restatement has been approved by the Board.

FOUR: The foregoing restatement has been approved by the holders of the requisite number of shares of the Corporation in accordance with Sections 902 and 903 of the California Corporations Code. The total number of outstanding shares of each class entitled to vote with respect to the foregoing amendment was 2,800,000 shares of Common Stock. The number of shares voting in favor of the foregoing amendment equaled or exceeded the vote required, such required vote being a majority of the outstanding shares of Common Stock.


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IN WITNESS WHEREOF, the undersigned have executed this certificate on  
October 4, 2001.



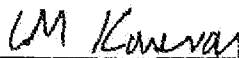
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Lawrence M. Kauvar, President



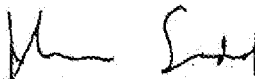
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John Sedat, Secretary

The undersigned certify under penalty of perjury that they have read the foregoing  
Certificate and know the contents thereof, and that the statements therein are true.

Executed in San Francisco, California, on October 4, 2001.



\_\_\_\_\_  
Lawrence M. Kauvar, President



\_\_\_\_\_  
John Sedat, Secretary



PATENT