Panket No.: P-IX 1653

FORM PTO-1595 (Modified) (Rev. 6-93) OMB No. 0651-0011 (exp.4/94) Copyright 1994-97 LegalStar P08/REV02 4nD RECC 04-06-1998



U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

To the Honorable Commissioner of Patents and  1. Name of conveying party(les):  Mare Ballivet    Name of conveying party(les):   Name of conveying party(les):   Name of conveying party(les):   Name: Stuart Kaufman	Tab settings → → ▼	00672075
Name: Stuart Kauffman Internal Address: SANTA FE INSTITUTE  Additional names(s) of conveying party(ies)   Yes	To the Honorable Commissioner of Patents and	Mass-Testing the attached original documents or copy thereof.
Additional names(s) of conveying party(tes)		Name: Stuart Kauffman
3. Nature of conveyance:    Security Agreement		Internal Address: SANTA FE INSTITUTE
Street Address: 1399 Hyde Park Road    Security Agreement	Additional names(s) of conveying party(ies)	
Security Agreement Change of Name  City: Santa Fe Institute State: NM ZIP: 87501  Execution Date: February 17, 1998  Additional name(s) & address(es) attached? Yes No  B. Patent No.(s)  Security Agreement Security 17, 1998  Additional name(s) & address(es) attached? Yes No  B. Patent No.(s)  Security Agreement Security 17, 1998  Additional name(s) & address(es) attached? Yes No  B. Patent No.(s)  Security Agreement Security 17, 1998  Additional name(s) & address(es) attached? Yes No  B. Patent No.(s)  Security Agreement Security 17, 1998  Additional name(s) & address(es) attached? Yes No  B. Patent No.(s)  Security Agreement Security 17, 1998  Additional name(s) & address(es) attached? Yes No  B. Patent No.(s)  Total fee (37 CFR 3.41):	3. Nature of conveyance:	
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4. Application number(s) or registration numbers(s):  If this document is being filed together with a new application, the execution date of the application is:  A. Patent Application No.(s)  B. Patent No.(s)  6. Total number of applications and patents involved:  1. Total fee (37 CFR 3.41):		
If this document is being filed together with a new application, the execution date of the application is:  A. Patent Application No.(s)  B. Patent No.(s)  B. Patent No.(s)  B. Patent No.(s)  Additional numbers attached? Yes No  5. Name and address of party to whom correspondence concerning document should be mailed:  Name: Cathryn Campbell  Internal Address: CAMPBELL & FLORES LLP  B. Patent No.(s)  6. Total number of applications and patents involved:  7. Total fee (37 CFR 3.41):	Execution Date: February 17, 1998	Additional name(s) & address(es) attached?   Yes   No
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5. Name and address of party to whom correspondence concerning document should be mailed:  Name: Cathryn Campbell Internal Address: CAMPBELL & FLORES LLP    Total fee (37 CFR 3.41):	ύ8/464,142	
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Internal Address: CAMPBELL & FLORES LLP    Street Address: 4370 La Jolla Village Drive, Suite 700	Name: Cathryn Campbell	
Street Address: 4370 La Jolla Village Drive, Suite 700  8. Deposit account number:  03-0370  City: San Diego  State: CA ZIP: 92122  DO NOT USE THIS SPACE  9. Statement and signature.  To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy in a true copy of the original document.  David A. Gay, Reg. No. 39,200  Name of Person Signing  March 19, 1598  Date of PATEN 53  Date of Parson Signing		7. Total fee (37 CFR 3.41):\$ 40.00
Street Address: 4370 La Jolla Village Drive, Suite 700  8. Deposit account number:  03-0370  Do Not Use This space  9. Statement and signature.  To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.  David A. Gay, Reg. No. 39,200  Name of Person Signing  Name of Person Signing  Name of Parson Signing  Name of Parson Signing	Internal Address. Cath Babb & Florida Sala	⊠ Enclosed
O3-0370  City: San Diego  State: CA ZIP: 92122  DO NOT USE THIS SPACE  9. Statement and signature.  To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.  David A. Gay, Reg. No. 39,200  Name of Person Signing  Name of Person Signing  Name of Patenta A. Gay, Reg. No. 39,200  Date of Patenta A. Gay, Reg. No. 39,200  March 19, 1598  Date of Patenta A. Gay, Reg. No. 39,200		☐ Authorized to be charged to deposit account
O3-0370  City: San Diego  State: CA ZIP: 92122  DO NOT USE THIS SPACE  9. Statement and signature.  To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.  David A. Gay, Reg. No. 39,200  Name of Person Signing  Name of Person Signing  Name of Patenta A. Gay, Reg. No. 39,200  Date of Patenta A. Gay, Reg. No. 39,200  March 19, 1598  Date of Patenta A. Gay, Reg. No. 39,200	Street Address: 4370 La Jolla Village Drive, Suite 700	· · · · · •
City: San Diego  State: CA ZIP: 92122  DO NOT USE THIS SPACE  9. Statement and signature.  To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy in a true copy of the original document.  David A. Gay, Reg. No. 39,200  Name of Person Signing  Signature  PATEN [7]  Date of Paramatical Carrier and Carr	Official Address.	8. Deposit account number:
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Of the original document.  David A. Gay, Reg. No. 39,200  Name of Person Signing  Signature  PATEN [73]  Date of Particular Patential Pa	9. Statement and signature.  To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy	
Name of Person Signing  Signature  PATEN [7]  Date of Person Signing		10/
Name of Ferson Signing		
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## **ASSIGNMENT**

This Assignment is made by Marc Ballivet of Geneva, Switzerland, Assignor, to Stuart Kauffman, Assignee, having a place of business at SANTA FE INSTITUTE, 1399 Hyde Park Road, Santa Fe Institute, New Mexico 87501.

WHEREAS, Assignor is a co-inventor of a new and useful invention entitled PROCESS FOR OBTAINING DNA, RNA, PEPTIDES, POLYPEPTIDES, OR PROTEIN, BY RECOMBINANT DNA TECHNIQUE for which an application for United States Letters Patent was filed on June 5, 1995, in the United States Patent and Trademark Office, bearing Serial No. 08/464,142 and listing as inventors Stuart Kauffman Marc Ballivet.

WHEREAS, Assignor believes himself to be an original inventor of the invention disclosed and claimed in said application for Letters Patent; and

WHEREAS, the parties desire to have a recordable instrument assigning to Stuart Kauffman the entire right, title and interest in and to said invention, said application and any Letters Patent that may be granted for said invention in the United States and throughout the world;

NOW, THEREFORE, in accordance with the obligations to assign the invention and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor sells, assigns, and transfers to Assignee Stuart Kauffman, the entire right, title, and interest in and to said invention, said application and any Letters Patent that have or may be granted for said invention in the United States and throughout the world, including the right to file foreign applications directly in the name of the Assignee and to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties, or otherwise.

Assignor agrees that, upon request and without further compensation, but at no expense to Assignor, he and his legal representatives and assigns will do all lawful acts, including the execution of papers and the giving of testimony, that may be necessary or desirable for obtaining, sustaining, reissuing, or enforcing Letters Patent in the United States and throughout the world for said invention, and for perfecting, recording, or maintaining the title of Assignee, its successors and assigns, to said invention, said application, and any Letters Patent granted for said invention in the United States and throughout the world.

Kauffman and Ballivet Serial No.: 08/464,142 Filed: June 5, 1995 Page 2

Assignor represents and warrants that he has not granted and will not grant to others any rights inconsistent with the rights granted herein.

Assignor authorizes and requests the Commissioner of Patents and Trademarks of the United States and of all foreign countries to issue any Letters Patent granted for said invention, whether on said application or on any subsequently filed divisional, continuation, continuation-in-part or reissue application, to Assignee, its successors and assigns, as the assignee of the entire interest in said invention.

IN WITNESS WHEREOF, Assignor has executed this Assignment on the date(s) provided below.

EXECUTED at	geneva
this 17th day of Fel	nucuy , 1998.
M2.	
Marc Ballivet (Signature)	
1- Clase.	J-M Matter
Witness (Signature)	(Name Printed)