

10-25-2000

10-10-00



101496040

PATENT
:ket No. 1621.002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Susan W. Barnett et al.

Serial No.: 09/475,515

Group Art Unit: 1643

Filed: December 30, 1999

Examiner: to be assigned

For: EXPRESSION OF HIV POLYPEPTIDES AND PRODUCTION OF VIRUS-LIKE PARTICLES

ASSIGNMENT DOCUMENT COVER LETTER

Box Assignment
Assistant Commissioner for Patents
Washington, D.C. 20231

1. The accompanying assignment covers the patent or application identified above.

X No other patents or applications are covered by the assignment.

Other patents and/or applications covered by the assignment as shown on the attached LIST OF PATENTS AND/OR APPLICATIONS COVERED BY ASSIGNMENT.

NAMES OF PARTY MAKING TRANSFER

- 2. Name 1: Susan W. Barnett
- Name 2: Jan zur Megede
- Name 3: Indresh Srivastava
- Name 4: Ying Lian
- Name 5: Karin Hartog
- Name 6: Hong Liu
- Name 7: Catherine Greer
- Name 8: Mark Selby
- Name 9: Christopher Walker

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231,

on this 26 day of September, 2000.

By [Signature]

IDENTITY OF PARTY TO WHOM TRANSFER IS MADE

3. Transfer is being made to:

Chiron Corporation
4560 Horton Street - R440
Emeryville, CA 94608-2916
United States of America

INTENTION OF DOCUMENT

4. The accompanying document is an:

X Assignment (original) License
 Security Interest Other

X Execution Date(s): February 7, 2000, February 9, 2000, February 10, 2000,
February 11, 2000, February 14, 2000, February 16, 2000,
February 28, 2000, March 30, 2000, and
September 21, 2000

FEE PAYMENT

5. Total fee due \$40.00

 Charge Deposit Account No. 03-1664 in the sum of \$40.00.

X Enclosed is a check for \$40.00.

X The Commissioner is hereby authorized to charge any additional fees
which may be required or credit any overpayment to Deposit Account No.
03-1664. THIS IS NOT AN AUTHORIZATION FOR PAYMENT OF
ANY ISSUE FEES.

**ADDRESS TO WHICH DOCUMENT SHOULD BE RETURNED
AFTER RECORDAL BY PTO**

6. Please return the recorded document to:

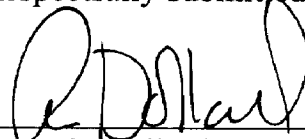
CHIRON CORPORATION
Intellectual Property - R440
P.O. Box 8097
Emeryville, California 94662-8097
United States of America

STATEMENT BY THE PARTY

7. I hereby submit that, to the best of my knowledge and belief, the information contained herein is true and correct and any copy submitted herewith is a true and correct copy of the original document.

Respectfully submitted,

By:



Anne S. Dollard
Attorney for Applicants
Reg. No. 43,935

September 26, 2000

CHIRON CORPORATION
Intellectual Property - R440
P.O. Box 8097
Emeryville, California 94662-8097
(510) 923-2719
(510) 655-3542 (fax)

Total number of pages comprising cover sheet: 17 (cover Letter plus Original Assignment)

ASSIGNMENT

WHEREAS, We, Susan W. Barnett, Jan zur Megede, Indresh Srivastava, Ying Lian, Karin Hartog, Hong Liu, Catherine Greer, Mark Selby, and Christopher Walker, hereinafter referred to as **ASSIGNORS**, have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: **EXPRESSION OF HIV POLYPEPTIDES AND PRODUCTION OF VIRUS-LIKE PARTICLES**

Date(s) of Execution: 02/07/00, 02/09/00, Filing Date: December 30, 1999

 02/10/00, 02/11/00, 02/14/00,
 02/16/00, 02/28/00, and 03/30/00
Serial No: 09/475,515

WHEREAS, CHIRON CORPORATION, 4560 Horton Street, Emeryville, California 94608-2916, a corporation of the State of Delaware, hereinafter referred to as **ASSIGNEE**, is desirous of acquiring the entire right, title and interest in the above invention and application and in any Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for and in consideration of the sum of One Dollar (\$1.00) lawful money paid to **ASSIGNORS** by **ASSIGNEE**, receipt of which is hereby acknowledged, **ASSIGNORS** have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said **ASSIGNEE**, and **ASSIGNEE'S** successors and assigns, all right, title and interest in and to the said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions (including conversions claiming priority under 35 U.S.C. §119(e)), reissues, prolongations or extensions thereof, the said interest to be held and enjoyed by said **ASSIGNEE** as fully and exclusively as it would have been held and enjoyed by said **ASSIGNORS** had this assignment and transfer not been made, to the full end and term of any Letters Patent.

ASSIGNORS also agree that the U.S. application number may be entered above by **ASSIGNEE** or its agents upon designation of the application number by the U.S. Patent and Trademark Office.

ASSIGNORS further agree that they will, without charge to said **ASSIGNEE**, but at **ASSIGNEE'S** expense, cooperate with **ASSIGNEE** in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as **ASSIGNEE** lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said **ASSIGNEE**, or **ASSIGNEE'S** successors and assigns.

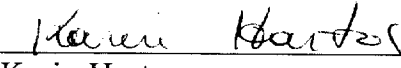
IN TESTIMONY WHEREOF, **ASSIGNORS** have hereunto signed their names to this assignment on the dates indicated below.

DATE 2/7/00 
 Susan W. Barnett

DATE 2/11/00 
 Jan zur Megede


DATE 2/14/00 
 Indresh Srivastava

DATE 2/28/00 
 Ying Lian

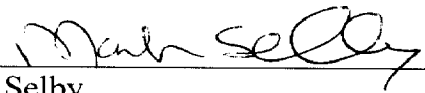
DATE 3/30/00 
 Karin Hartog

DATE 2/10/2000 
 Hong Liu

DATE 2/16/00


Catherine Greer

DATE 2/9/00


Mark Selby

DATE _____

Christopher Walker

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

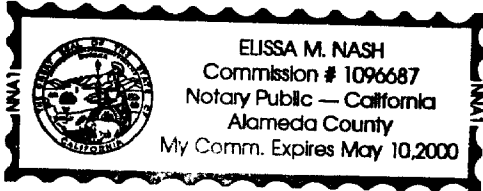
State of California

County of Alameda

On February 7, 2000 before me, Elissa M. Nash
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Susan W. Barnett
Name(s) of Signer(s)

personally known to me – **OR** – approved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

Elissa M. Nash
Signature of Notary Public

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Assignment for Case No. 1621.002

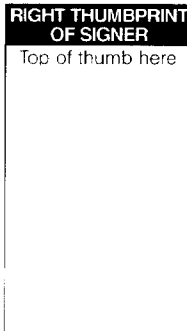
Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

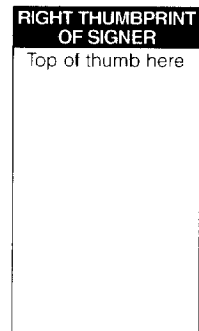
- Individual
- Corporate Officer
Title(s): _____
- Partner — Limited General
- Attorney-in-Fact
- Trustee
- Guardian or Conservator
- Other: _____



Signer Is Representing:

Signer's Name: _____

- Individual
- Corporate Officer
Title(s): _____
- Partner — Limited General
- Attorney-in-Fact
- Trustee
- Guardian or Conservator
- Other: _____



Signer Is Representing:

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

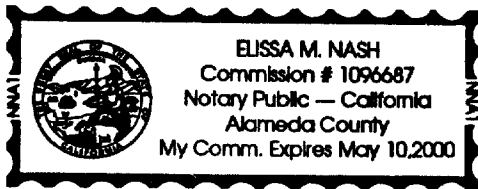
State of California

County of Alameda

On January 10, 2000 before me, Hong Liu
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Elissa M. Nash
Name(s) of Signer(s)

personally known to me – **OR** – proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

Elissa M. Nash
Signature of Notary Public

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Assignment

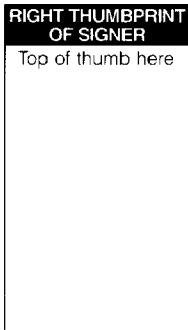
Document Date: _____ Number of Pages: 2

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

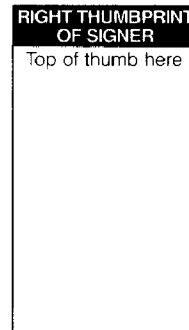
- Individual
- Corporate Officer
Title(s): _____
- Partner — Limited General
- Attorney-in-Fact
- Trustee
- Guardian or Conservator
- Other: _____



Signer Is Representing:

Signer's Name: _____

- Individual
- Corporate Officer
Title(s): _____
- Partner — Limited General
- Attorney-in-Fact
- Trustee
- Guardian or Conservator
- Other: _____



Signer Is Representing:

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

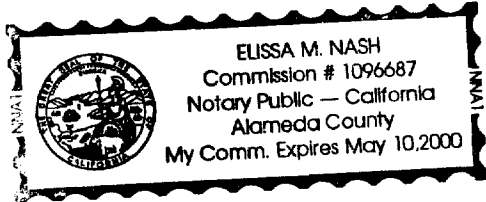
State of California

County of Alameda

On February 11, 2000 before me, Elissa M. Nash
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Jan zur Megede
Name(s) of Signer(s)

personally known to me - **OR** - proved to me on the basis of satisfactory evidence to be the person ~~or~~ whose name ~~s/he~~ subscribed to the within instrument and acknowledged to me that he ~~she~~ ~~they~~ executed the same in his ~~her~~ ~~their~~ authorized capacity ~~(ies)~~, and that by his ~~her~~ ~~their~~ signature ~~(s)~~ on the instrument the person ~~or~~ or the entity upon behalf of which the person ~~or~~ acted, executed the instrument.



WITNESS my hand and official seal.

Elissa M. Nash
Signature of Notary Public

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Assignment

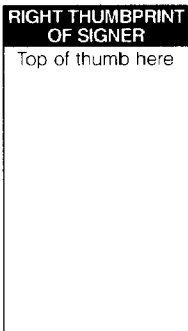
Document Date: _____ Number of Pages: 2

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

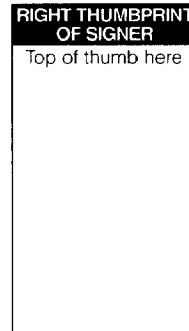
- Individual
- Corporate Officer
Title(s): _____
- Partner — Limited General
- Attorney-in-Fact
- Trustee
- Guardian or Conservator
- Other: _____



Signer Is Representing:

Signer's Name: _____

- Individual
- Corporate Officer
Title(s): _____
- Partner — Limited General
- Attorney-in-Fact
- Trustee
- Guardian or Conservator
- Other: _____



Signer Is Representing:

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

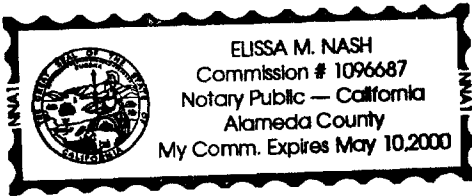
State of California

County of Alameda

On February 14, 2000 before me, Elissa M. Nash
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Indresh Srivastava
Name(s) of Signer(s)

personally known to me – **OR** – proved to me on the basis of satisfactory evidence to be the person whose name ~~is~~ subscribed to the within instrument and acknowledged to me that ~~he~~ she executed the same in his/~~her~~ her authorized capacity(~~ies~~), and that by his/~~her~~ her signature(~~s~~) on the instrument the person(~~s~~), or the entity upon behalf of which the person(~~s~~) acted, executed the instrument.



WITNESS my hand and official seal.

Elissa M. Nash
Signature of Notary Public

OPTIONAL

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Description of Attached Document

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Document Date: _____ Number of Pages: 2

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

- Individual
- Corporate Officer
Title(s): _____
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- Trustee
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- Other: _____

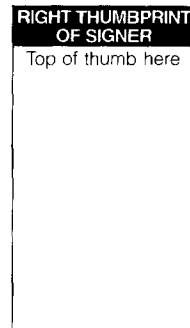
Signer Is Representing:



Signer's Name: _____

- Individual
- Corporate Officer
Title(s): _____
- Partner — Limited General
- Attorney-in-Fact
- Trustee
- Guardian or Conservator
- Other: _____

Signer Is Representing:



CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

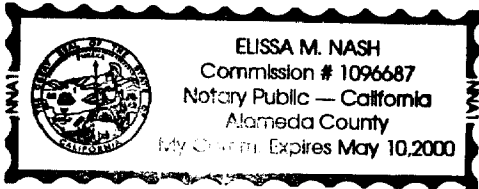
State of California

County of Alameda

On February 17, 2000 before me, Elissa M. Nash
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Catherine Greer
Name(s) of Signer(s)

personally known to me – **OR** – proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

Elissa M. Nash
Signature of Notary Public

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Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

- Individual
- Corporate Officer
Title(s): _____
- Partner — Limited General
- Attorney-in-Fact
- Trustee
- Guardian or Conservator
- Other: _____

Signer Is Representing: _____

RIGHT THUMBPRINT
OF SIGNER
Top of thumb here

Signer's Name: _____

- Individual
- Corporate Officer
Title(s): _____
- Partner — Limited General
- Attorney-in-Fact
- Trustee
- Guardian or Conservator
- Other: _____

Signer Is Representing: _____

RIGHT THUMBPRINT
OF SIGNER
Top of thumb here

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

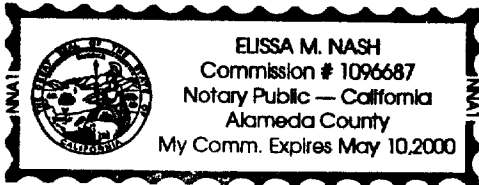
State of California

County of Alameda

On February 28, 2000 before me, Elissa M. Nash
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Ying Lian
Name(s) of Signer(s)

personally known to me - **OR** - approved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~is/are~~ subscribed to the within instrument and acknowledged to me that ~~he/she/they~~ executed the same in ~~his/her/their~~ authorized capacity(ies), and that by ~~his/her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

Elissa M. Nash
Signature of Notary Public

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Assignment document Case No. 1621.002

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

- Individual
- Corporate Officer
- Title(s): _____
- Partner — Limited General
- Attorney-in-Fact
- Trustee
- Guardian or Conservator
- Other: _____

RIGHT THUMBPRINT OF SIGNER
Top of thumb here

Signer Is Representing: _____

Signer's Name: _____

- Individual
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- Title(s): _____
- Partner — Limited General
- Attorney-in-Fact
- Trustee
- Guardian or Conservator
- Other: _____

RIGHT THUMBPRINT OF SIGNER
Top of thumb here

Signer Is Representing: _____

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

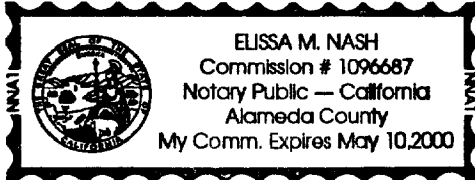
State of California

County of Alameda

On March 30, 2000 before me, Elissa M. Nash
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Karin Hartog
Name(s) of Signer(s)

personally known to me – OR – proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



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Description of Attached Document

Title or Type of Document: Assignment (Case No. 1621.002)

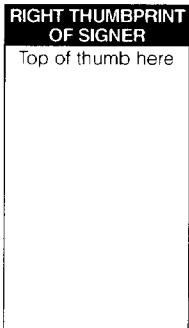
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Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

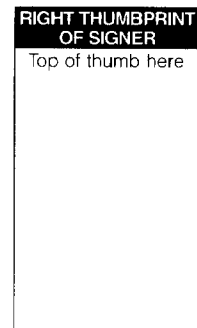
- Individual
- Corporate Officer
Title(s): _____
- Partner — Limited General
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- Guardian or Conservator
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Signer Is Representing:

Signer's Name: _____

- Individual
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- Partner — Limited General
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- Guardian or Conservator
- Other: _____



Signer Is Representing:

ASSIGNMENT

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Title of Invention: **EXPRESSION OF HIV POLYPEPTIDES AND PRODUCTION OF VIRUS-LIKE PARTICLES**

Date(s) of Execution: September 21, 2000 Filing Date: December 30, 1999

Serial No: 09/475,515

WHEREAS, CHIRON CORPORATION, 4560 Horton Street, Emeryville, California 94608-2916, a corporation of the State of Delaware, hereinafter referred to as **ASSIGNEE**, is desirous of acquiring the entire right, title and interest in the above invention and application and in any Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for and in consideration of the sum of One Dollar (\$1.00) lawful money paid to **ASSIGNORS** by **ASSIGNEE**, receipt of which is hereby acknowledged, **ASSIGNORS** have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said **ASSIGNEE**, and **ASSIGNEE'S** successors and assigns, all right, title and interest in and to the said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions (including conversions claiming priority under 35 U.S.C. §119(e)), reissues, prolongations or extensions thereof, the said interest to be held and enjoyed by said **ASSIGNEE** as fully and exclusively as it would have been held and enjoyed by said **ASSIGNORS** had this assignment and transfer not been made, to the full end and term of any Letters Patent.

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IN TESTIMONY WHEREOF, **ASSIGNORS** have hereunto signed their names to this assignment on the dates indicated below.

DATE _____

Susan W. Barnett

DATE _____

Jan zur Megede

DATE _____

Indresh Srivastava

DATE _____

Ying Lian

DATE _____

Karin Hartog

DATE _____

Hong Liu

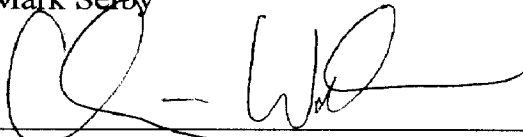
DATE _____

Catherine Greer

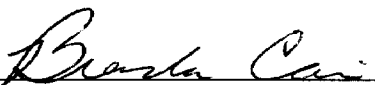
DATE _____

Mark Selby

DATE 9-21-2000



Christopher Walker



Witness Signature