

EXHIBIT H-8



**UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office**

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| SERIAL NUMBER | FILING DATE | FIRST NAMED APPLICANT | ATTORNEY DOCKET NO. |
|---------------|-------------|-----------------------|---------------------|
| 08/07/01/098 | 11/30/01 | LIN | 7100 |

DEWEY, MARSHALL & BIGNELL
TWO FIRST NATIONAL PLAZA STE. 2100
20 SOUTH CLARK ST.
CHICAGO, IL 60600

| EXAMINER | |
|-----------|--------------|
| MUSCHENNA | |
| ART UNIT | PAPER NUMBER |
| 1.01 | 1 |

DATE MAILED: JUN 28 2002

This is a communication from the examiner in charge of your application.
COMMISSIONER OF PATENTS AND TRADEMARKS

This application has been examined Responsive to communication filed on _____ This action is made final.

A shortened statutory period for response to this action is set to expire 3 month(s), _____ days from the date of this letter.
Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133

Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:

- | | |
|---|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited by Examiner, PTO-692. | 2. <input type="checkbox"/> Notice re Patent Drawing, PTO-948. |
| 3. <input checked="" type="checkbox"/> Notice of Art Cited by Applicant, PTO-1449 | 4. <input type="checkbox"/> Notice of Informal Patent Application, Form PTO-152 |
| 5. <input type="checkbox"/> Information on How to Effect Drawing Changes, PTO-1474 | 6. <input type="checkbox"/> _____ |

Part II SUMMARY OF ACTION

1. Claims 1-72 are pending in the application.
Of the above, claims 1-13, 16, 37-37 and 59-60 are withdrawn from consideration.
2. Claims _____ have been cancelled.
3. Claims _____ are allowed.
4. Claims 14, 15, 17-36, 58 and 61-72 are rejected.
5. Claims _____ are objected to.
6. Claims 1-72 are subject to restriction or election requirement.
7. This application has been filed with informal drawings which are acceptable for examination purposes until such time as allowable subject matter is indicated.
8. Allowable subject matter having been indicated, formal drawings are required in response to this Office action.
9. The corrected or substitute drawings have been received on _____. These drawings are acceptable; not acceptable (see explanation).
10. The proposed drawing correction and/or the proposed additional or substitute sheet(s) of drawings, filed on _____, has (have) been approved by the examiner, disapproved by the examiner (see explanation).
11. The proposed drawing correction, filed _____, has been approved, disapproved (see explanation). However, the Patent and Trademark Office no longer makes drawing changes. It is now applicant's responsibility to ensure that the drawings are corrected. Corrections **MUST** be effected in accordance with the instructions set forth on the attached letter "INFORMATION ON HOW TO EFFECT DRAWING CHANGES", PTO-1474.
12. Acknowledgment is made of the claim for priority under 35 U.S.C. 119. The certified copy has been received not been received been filed in parent application, serial no. _____; filed on _____.
13. Since this application appears to be in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213. 205
14. Other

PTOL-326 (Rev. 7-82)

EXAMINER'S ACTION

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Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-13, 16, 39-41, 47-54 and 59, drawn to polypeptide, classified in Class 260, subclass 112.
- II. Claims 14, 15, 17-36, 58 and 61-72, drawn to DNA, classified in Class 536, subclass 27.
- III. Claims 37-38, drawn to plasmid, classified in Class 435, subclass 317.
- IV. Claims 42-46, drawn to cells, classified in Class 435, subclass 240.
- V. Claims 55-57, drawn to pharmaceutical composition, classified in Class 435, subclass 177.
- VI. Claim 60, drawn to assay, classified in Class 435, subclass 6.

Inventions I and II are related as process of making and product made.

The inventions are distinct if either (1) the process as claimed can be used to make another and materially different product, or (2) the product as claimed can be made by another and materially different process. MPEP 806.05(f).

In this case, the product as claimed may be made by a materially different product, such as isolation from a naturally occurring source.

Inventions II and III are related as product and process of use.

The inventions are distinct if either (1) the process for using the product as claimed can be practiced with another and materially different product, or (2) the product as claimed can be used in a materially different process of using the product. MPEP 806.05(h).

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In this case, the product as claimed may be made by a materially different product, such as isolation from urine.

Inventions I and V are related as subcombinations disclosed as useable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately useable. In the instant case, invention I has separate utility such as use in an assay. See MPEP 806.05(d).

Inventions I and VI are related as subcombinations disclosed as useable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately useable. In the instant case, invention I has separate utility such as use as a pharmaceutical. See MPEP 806.05(d).

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter restriction for examination purposes as indicated is proper.

In a preliminary amendment, filed April 24, 1986, Applicant elected group II, claims 14, 15, 17-36, 58 and 61-72 without traverse. The non-elected claims are withdrawn from further consideration.

Chingwin et al (Ref. C8) has not been considered because a complete copy of the article was not among the papers in applicants prior art statement.

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The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

The specification is objected to under 35 U.S.C. 112, first paragraph, as failing to provide an enabling disclosure. The invention depends on certain specific plasmids/microorganisms. As such, a deposit is required under 35 USC 112. Conditions surrounding the deposit which must be met are enumerated in MPEP 608.01(p)(C). The deposit papers supplied with the preliminary amendment have been considered. However, it is not clear that applicants promises to replace these cultures should this become necessary. Assurance of compliance may be in the form of an oath or declaration.

Claims 14, 15, 17-36, 58 and 61-72 are rejected under 35 U.S.C. 112, first paragraph, for the reasons set forth in the above objection to the specification.

Claims 14, 15, 17-36, 58 and 61-72 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 14, 15, 62, 64, 66,

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68, and claims depending from them are unduly alter-
native in their recitation of "procaryotic or
eucaryotic" host cell as these are not equivalent terms.
Claims 14, 17, 34, 58, 69-72 and claims depending from
them are indefinite in that the fragment size claimed is
so vague as to read on single base pairs. Purported
limitations as to "biological properties" without
further characterizations are so indefinite as to be
meaningless. Claims 14, 20, 23, 27, 30, 58 and those
depending on them are indefinite in that they refer to a
figure when they can be adequately expressed in words.
Claim 14 has improper Markush language. Claim 69 omits
the number of the claim it is dependent upon.

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful
process, machine, manufacture, or composition of
matter or any new and useful improvement thereof,
may obtain a patent therefor, subject to the con-
ditions and requirements of this title.

Claims 14, 15, 17-36, 58 and 61-72 provisionally
rejected under 35 U.S.C. 101 as claiming the same inven-
tion as that of claims 13-24 and 27 of copending appli-
cation Serial No. 582185.

This is a provisional double patenting rejection
since the conflicting claims have not in fact been
patented.

Claims 14, 15, 17-36, 58 and 61-72 are provi-
sionally rejected under 35 U.S.C. 101 as claiming the
same invention as that of claims 1-48 of copending
application Serial No. 655841.

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This is a provisional double patenting rejection since the conflicting claims have not in fact been patented.

Claims 14, 24, 34 and 36 are rejected under 35 U.S.C. 101 because the claimed invention is directed towards non-statutory subject matter. claims 14, 24, 34 and 36 all read on the naturally occurring erythropoietin gene and portions of it present in erythropoietin-producing cells. The purported limitation of "manufactured" in claim 24 does not distinguish over naturally occurring as it could read on DNA manufactured by the cell naturally. As products of nature, these DNA sequences are not subject to patent protection.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless-

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for patent.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 14, 24, 34 and 36 are rejected under 35 U.S.C. 102 (b) as anticipated by or, in the alternative, under 35 U.S.C. 103 as obvious over Sugimoto et al. Sugimoto et al teach a cell line which produces erythropoietin. It appears that the DNA inherently present in

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these cells is the same as the DNA claimed. Thus applicants DNA is the same as or obvious over that of Sugimoto et al.

Claims 14, 15, 17, 18, 20, 24, 25, 26, 27, 33, 34, 58, 61, 62, 63, 64, 65, 66, 69, 70, and 71 are rejected under 35 U.S.C. 102(a) as being anticipated by Lee-Huang et al. The DNA sequences specifically claimed appear to be the same as those made by Lee-Huang et al.

Claims 14, 15, 17-20, 24, 33, 34, 36, 58, 61, 62, 63, 64, 65, 66, 69, 70, 71 are rejected under 35 U.S.C. 102 (a) as anticipated by or, in the alternative, under 35 U.S.C. 103 as obvious over anticipated Lin et al.

The sequences cloned by Lin et al appear to be the same as those of the instant case.

The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) and (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

Lee Huang

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Claims 14, 15, 17, 18, 20, 21, 22, 23, 24, 34, 35, 36, 58 and 61-72 rejected under 35 U.S.C. 103 as being unpatentable over Sugimoto et al in view of Sugimoto et al in view of Paddock and Cohen et al. Sugimoto et al teach cells from which erythropoietin RNA can be isolated, as they have a high erythropoietin production. Paddock teaches making cDNA from RNA, and Cohen et al teach cloning of a desired strand of DNA. Further, Sugimoto et al suggest that the erythropoietin gene could be so cloned. Thus it would be obvious to one of ordinary skill in the art to isolate and clone the erythropoietin gene, as the techniques for doing so are well known in the art and the expected result is obtained.

Claim 19 is rejected under 35 U.S.C. 103 as being unpatentable over Sugimoto et al in view of Paddock and Cohen et al as applied to claims 14, 15, 17, 18, 20, 21, 22, 23, 24, 34, 35, 36, 58 and 61-72 above, and further in view of Farber et al. The process and production of human EPO DNA is obvious as explained supra. Farber et al teach a monkey source of RNA for erythropoietin, and its subsequent translation. Thus in the absence of unexpected results, it would be obvious to substitute one source of the mRNA for another known source.

Claims 25-30 are rejected under 35 U.S.C. 103 as being unpatentable over Sugimoto et al in view of Paddock and Cohen et al as applied to claims 14, 15, 17,

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18, 20, 21, 22, 23, 24, 25, 34, 35, 36 58 and 61-72 above, and further in view of Bennetzen et al or Gouy et al. The process and production of the DNA is obvious, as discussed supra. Using codons which are known to be preferred by Lewin. The process and production of the DNA is obvious, as discussed supra. Lewin teaches radioactively labeled DNA, and its use. Thus in the absence of unexpected results, it would be obvious to be label applicants' DNA, as its use is the same.

Any inquiry concerning this communication should be directed to Joanne M. Giesser at telephone number 703-557-0296.

Giesser:st. *st*
6-16-86


THOMAS G. WISEMAN
SUPERVISORY PATENT EXAMINER
ART UNIT 127

| FORM PTO 892 (REV. 3-78) | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | SERIAL NO. 175298 | GROUP/UNIT 127 | ATTACHMENT TO PAPER NUMBER 8 | | |
|---|---|--|----------------|----------------------|-------------------|--|---------------------|-----------|
| NOTICE OF REFERENCES CITED | | | | APPLICANT(S) Lin | | | | |
| U.S. PATENT DOCUMENTS | | | | | | | | |
| | DOCUMENT NO. | DATE | NAME | CLASS | SUB-CLASS | FILING DATE IF APPROPRIATE | | |
| *A | 4377513 | 3/22/83 | Sugimoto et al | 260 | 112 | 8/10/81 | | |
| *B | 4503151 | 3/5/85 | Paddock | 435 | 68 | 11/22/82 | | |
| *C | 4468464 | 8/28/84 | Cohen et al | 435 | 317 | 11/9/78 | | |
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| FOREIGN PATENT DOCUMENTS | | | | | | | | |
| | DOCUMENT NO. | DATE | COUNTRY | NAME | CLASS | SUB-CLASS | PERTINENT SHTS. DWG | PP. SPEC. |
| L | | | | | | | | |
| M | | | | | | | | |
| N | | | | | | | | |
| O | | | | | | | | |
| P | | | | | | | | |
| Q | | | | | | | | |
| OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | | |
| *R | Lee-Huang, 1984 "Cloning and expression of human erythropoietin cDNA in <i>E. coli</i> ." <u>PNAS</u> v 81 p 2705-12 | | | | | | | |
| S | Lin et al, 1984 "Cloning of the monkey erythropoietin gene" (Abstract) <u>J Cell Biochem</u> Suppl 8 B p 45 | | | | | | | |
| *T | Farber et al, 1983 "Translation of mRNA from anemic baboon kidney into biologically active erythropoietin" <u>Exp. Hematol</u> v 11 Suppl 4 Abstr 101 | | | | | | | |
| U | Gouy et al, 1983 "Codon usage in bacteria; correlation with gene expressivity" <u>Nucleic Acids Res.</u> v 10 7055-7074 | | | | | | | |
| EXAMINER | | DATE | | | | | | |
| Janne M. Giesch | | 6/2/86 | | | | | | |
| * A copy of this reference is not being furnished with this office action. (See Manual of Patent Examining Procedure, section 707.05 (a).) | | | | | | | | |

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|---|--|------------------------------|-----------------------|
| Form PTO-1449 REV. 5-82 | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO. 7183 | SERIAL NO. 675,298 |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) | | APPLICANT FU-KUEN LIN | |
| | | FILING DATE NOV. 30, 1984 | GROUP 127 |

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|------------------|-------------------|---------|------------------|-------|----------|----------------------------|
| JMY | A1 3 0 3 3 7 5 3 | 5/8/52 | White, et al. | | | |
| JMY | A2 3 8 6 5 8 0 1 | 2/11/75 | Chiba, et al. | | | |
| JMY | A3 4 2 3 7 2 2 4 | 12/2/80 | Cohen et. al. | | | |
| JMY | A4 4 2 6 4 7 3 1 | 4/28/81 | Shine | | | |
| JMY | A5 4 2 7 3 8 7 5 | 6/16/81 | Manis | | | |
| JMY | A6 4 2 9 3 6 5 2 | 10/6/81 | Cohen | | | |
| JMY | A7 4 3 5 8 5 3 5 | 11/9/82 | Falkow, et al. | | | |
| JMY | A8 4 3 7 7 5 1 2 | 2/22/83 | Sugimoto, et al. | | | |
| JMY | A9 4 3 9 4 4 4 3 | 7/19/83 | Weissman, et al. | | | |
| JMY | A10 4 3 9 7 8 4 0 | 8/9/83 | Takezawa, et al. | | | |
| JMY | A11 4 3 9 9 2 1 6 | 8/16/83 | Axel, et al. | | | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
|------------------|------------------|---------|------------------------|-------|----------|-------------|----|
| | | | | | | YES | NO |
| JMY | B1 0 0 7 0 6 8 5 | 1/26/83 | European Patent Office | | | | |
| JMY | B2 0 0 7 0 6 8 7 | 1/26/83 | European Patent Office | | | | |
| JMY | B3 0 0 7 7 6 7 0 | 4/27/83 | European Patent Office | | | | |
| JMY | B4 0 0 9 3 6 1 9 | 11/9/83 | European Patent Office | | | | |
| JMY | B5 0 1 1 6 4 4 6 | 8/22/84 | European Patent Office | | | | |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | |
|-----|----|--|
| JMY | C1 | Adanson, Hosp.Practice, 18(12), 49-57 (1983) |
| JMY | C2 | Anderson, et al., P.N.A.S. (USA), 80, pp. 6838-6842 (1983) |
| JMY | C3 | Baciu, et al., Ann.N.Y.Acad.Sci., 414, pp. 66-72 (1983) |

| | |
|------------------------------|---------------------------------|
| EXAMINER Jeanne M. Gieser | DATE CONSIDERED June 2, 1986 |
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*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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| | | |
|---|------------------------------|-----------------------|
| Form PTO-1448 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) | ATTY. DOCKET NO. 7183 | SERIAL NO. 675,298 |
| | APPLICANT FU-KUEN LIN | |
| | FILING DATE Nov. 30, 1984 | GROUP 127 |

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|------------------|---------------------|----------|------------------------------|----------|----------|----------------------------|
| JMY | A12 4 4 6 5 6 2 4 | 8/14/84 | Chiba, et al. | | | |
| JMY | A13 4 6 3 7 2 4 | | Earle (not enclosed) | See, B5 | | |
| JMY | A14 4 8 3 4 5 1 | 4/15/83 | Alfon, et al. (not enclosed) | See, B11 | | |
| JMY | A15 4 8 7 7 5 3 | | Bitter (not enclosed) | See, B9 | | |
| JMY | A16 6 3 6 7 2 7 | | Morris (not enclosed) | See, B12 | | |
| JMY | A17 4 4 6 8 4 6 6 | 8/28/84 | Cohen et al. | | | |
| JMY | A18 4 5 0 3 2 5 2 | 3/5/85 | Paddock | | | |
| JMY | A19 4 4 4 2 2 0 5 4 | 10/84 | Hamer et al. | | | |
| JMY | A20 4 4 1 1 9 9 4 | 10/25/83 | Gilbert et al. | | | |
| JMY | A21 4 3 3 3 3 9 7 | 7/6/82 | Gilbert et al. | | | |
| JMY | A22 4 5 6 8 4 8 8 | 2/4/86 | Lee-Huang | | | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
|------------------|-------------------|---------|------------------------|-------|----------|-------------|----|
| | | | | | | YES | NO |
| JMY | B6 0 1 1 7 0 5 8 | 8/29/84 | European Patent Office | | | | |
| JMY | B7 0 1 1 7 0 5 9 | 8/29/84 | European Patent Office | | | | |
| JMY | B8 0 1 1 7 0 6 0 | 8/2/84 | European Patent Office | | | | |
| JMY | B9 0 1 2 3 2 9 4 | 4/19/84 | European Patent Office | | | | |
| JMY | B10 2 0 8 5 8 8 7 | 5/6/82 | United Kingdom | | | | |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | |
|-----|----|---|
| JMY | C4 | Baron, et al., Cell, 28, pp. 395-404 (1982) |
| JMY | C5 | Beaucage, et al., Tetrahedron Letters, 22, pp. 1859-1862 (1981) |
| JMY | C6 | Billat, et al., Expt. Hematol., 10(1) 133-140 (1982) |

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|------------------------------|---------------------------------|
| EXAMINER Joanne M. Giesse | DATE CONSIDERED June 2, 1986 |
|------------------------------|---------------------------------|

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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ORM PTO-1449

Atty. Docket No.
7183

Serial No.
675,298

Applicant: FU-KUEN LIN

Filing Date: November 30, 1984 Group Art Unit 127

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

OTHER DOCUMENTS (cont'd.)
(Including Author, Title, Date, Pertinent pages, etc.)

| | | | |
|------------|-----|----------------------|--|
| <i>JMY</i> | C10 | Choo, et al. | <u>Nature</u> , 299, pp. 178-180 (1982) <i>14</i> |
| <i>JMY</i> | C11 | Choppin, et al. | <u>Blood</u> , 64(2) 341-347 (1984) <i>14</i> |
| <i>JMY</i> | C12 | Chou, et al. | <u>Biochem.</u> , 13, 222-245 (1974) <i>14</i> |
| <i>JMY</i> | C13 | Chou, et al. | <u>Advances in Enzymology</u> , 47, 45-47 (1978) <i>14</i> |
| <i>JMY</i> | C14 | Chou, et al. | <u>Ann.Rev.Biochem.</u> , 47, 251-77 (1978) <i>14</i> |
| <i>JMY</i> | C15 | Claus-Walker, et al. | <u>Arch.Phys.Med.Rehabil.</u> , 65, 370- 374 (1984) <i>14</i> |
| <i>JMY</i> | C16 | Congote | <u>Biochem.Biophys.Res.Comm.</u> , 115(2), 477-483 (1983) <i>14</i> |
| <i>JMY</i> | C17 | Congote | <u>Anal.Biochem.</u> , 140, 428-433 (1984) <i>14</i> |
| <i>JMY</i> | C18 | Congote, et al. | Abstract 364, Proceedings 7th International Congress of Endo- crinology (Quebec City, Quebec, July 1-7, 1984) <i>14</i> |
| <i>JMY</i> | C19 | Cotes, et al. | <u>Nature</u> , 191, 1065-1067 (1961) <i>14</i> |
| <i>JMY</i> | C20 | Cotes, et al. | <u>Brit.J.Obstet.Gyneacol.</u> , 90(4), 304-311 (1983) <i>14</i> |
| <i>JMY</i> | C21 | Dainiak, et al. | <u>Cancer</u> , 51(6), 1101-1106 (1983) <i>14</i> |
| <i>JMY</i> | C22 | Das, et al. | <u>P.N.A.S. (USA)</u> , 80, pp. 1531-1535 (1983) <i>14</i> |
| <i>JMY</i> | C23 | Davis, et al. | "A Manual for Genetic Engineer- ing, Advanced Bacterial Genetics", Cold Spring Harbor Laboratory, Cold Spring Harbor, N.Y. (1980), pp. 55-58 & 174-176 <i>14 14</i> |

Considered 6/2/86 Joanne M. Gresser
489 211

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FORM PTO-1449

Atty. Docket No.
7183Serial No.
675,298

Applicant: FU-KUEN LIN

Filing Date: November 30, 1984

Group Art Unit 127

INFORMATION DISCLOSURE
STATEMENT BY APPLICANTOTHER DOCUMENTS (cont'd.)

(Including Author, Title, Date, Pertinent pages, etc.)

| | | |
|----------------|-------------------|--|
| <i>JMY</i> C24 | Dessypris, et al. | <u>Brit.J.Haematol.</u> , <u>56</u> , 295-306 (1984) ¹⁴ |
| <i>JMY</i> C25 | Dreesman, et al. | <u>Nature</u> , <u>295</u> , 158-160 (1982) |
| <i>JMY</i> C26 | Dunn | "Current Concepts in Erythro- poiesis", John Wiley & Sons, Chichester, England, 1983 |
| <i>JMY</i> C27 | Dunn, et al. | <u>Expt.Hematol.</u> , <u>11(7)</u> , 590-600 (1983) ¹⁴ |
| <i>JMY</i> C28 | Dunn, et al. | <u>Eur.J.Appln.Physiol.</u> , <u>52</u> , 178-182 (1984) ¹⁴ |
| <i>JMY</i> C29 | Emmanouel, et al. | <u>Am.J.Physiol.</u> , <u>247</u> (1 Pt 2), <u>F168-76</u> (1984) |
| <i>JMY</i> C30 | Eschbach, et al. | <u>J.Clin.Invest.</u> , <u>74(2)</u> , pp. 434- 441 (1984) ¹⁴ |
| <i>JMY</i> C31 | Farber | <u>Clin.Res.</u> , <u>31(4)</u> 769A (1983) |
| <i>JMY</i> C32 | Farber, et al. | <u>Exp.Hematol.</u> , <u>11.</u> , Supp. 14, Abstract 101 (1983) |
| <i>JMY</i> C33 | Farber, et al. | <u>Blood</u> , <u>62</u> , No. 5, Supp. No. 1, Abstract 397, 122a (1983) |
| <i>JMY</i> C34 | Fiddes, et al. | <u>J.Mol. & App.Genetics</u> , <u>1</u> , pp. 3- 18 (1981) ¹⁴ |
| <i>JMY</i> C35 | Finch | <u>Blood</u> , <u>60(6)</u> , 1241-1246 (1982) |
| <i>JMY</i> C36 | Fisher, et al. | <u>Steroids</u> , <u>30(6)</u> , 833-845 (1977) |
| <i>JMY</i> C37 | Gasser, et al. | <u>P.N.A.S. (USA)</u> , <u>79</u> , 6522-6526 (1982) ¹⁴ |
| <i>JMY</i> C38 | Gene Screen | New England Nuclear, Catalog No. NEF-972 |
| <i>JMY</i> C39 | Gibson, et al. | <u>Pathology</u> , <u>16</u> , 155-156 (1984) ¹⁴ |

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STATEMENT BY APPLICANTOTHER DOCUMENTS (cont'd.)

(Including Author, Title, Date, Pertinent pages, etc.)

| | | |
|----------------|------------------------|---|
| <i>Jmy</i> C40 | Goldwasser, | <u>J.Cell.Physiol.</u> , <u>110(Supp. 1)</u> , <u>133-135 (1982)</u> <i>14</i> |
| <i>Jmy</i> C41 | Goldwasser, et al. | <u>Endocrinology</u> , <u>97</u> , 2, 315-323 (1975) <i>14</i> |
| <i>Jmy</i> C42 | Gray, et al. | <u>Nature</u> , <u>295</u> , 503-508 (1982) <i>14</i> |
| <i>Jmy</i> C43 | Gray, et al. | <u>Biotechnology</u> , <u>2</u> , 161-165 (1984) <i>14</i> |
| <i>Jmy</i> C44 | Green, et al. | <u>Cell</u> , <u>28</u> , 477-487 (1982) <i>14</i> |
| <i>Jmy</i> C45 | Haddy | <u>Am.Jour.Ped.Hematol./Oncol.</u> , <u>4</u> , <u>191-196 (1982)</u> <i>14</i> |
| <i>Jmy</i> C46 | Haga, et al. | <u>Acta.Pediatr.Scand.</u> , <u>72</u> , 827-831, (1983) <i>14</i> |
| <i>Jmy</i> C47 | Hagiwara, et al. | <u>Blood</u> , <u>63(4)</u> , 828-835 (1984) <i>14</i> |
| <i>Jmy</i> C48 | Hammond, et al. | <u>Ann.N.Y.Acad.Sci.</u> , <u>149</u> , 516-527 (1968) <i>14</i> |
| <i>Jmy</i> C49 | Hellmann, et al. | <u>Clin.Lab.Haemat.</u> , <u>5</u> , 335-342 (1983) <i>14</i> |
| <i>Jmy</i> C50 | Hewick, et al. | <u>J.Biol.Chem.</u> , <u>256</u> , 7990-7997 (1981) <i>14</i> |
| <i>Jmy</i> C51 | Hopp, et al. (1981) | <u>P.N.A.S. (USA)</u> , <u>78</u> , 3824-3828 <u>D-7182</u> <i>14</i> |
| <i>Jmy</i> C52 | Jaye, et al. | <u>Nuc.Acids Res.</u> , <u>11</u> , pp. 2325-2335 (1983) <i>14</i> |
| <i>Jmy</i> C53 | Jelkman, et al. | <u>Expt.Hematol.</u> , <u>11(7)</u> , 581-588 (1983) <i>14</i> |
| <i>Jmy</i> C54 | Kaiser, et al. | <u>Science</u> , <u>223</u> , pp. 249-255 (1984) <i>14</i> |
| <i>Jmy</i> C55 | Kalmanti | <u>Kidney Int.</u> , <u>22</u> , 383-391 (1982) <i>14</i> |
| <i>Jmy</i> C56 | Karn, et al. | <u>P.N.A.S. (USA)</u> , <u>77</u> , pp. 5172-5176 (1980) <i>14</i> |

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OTHER DOCUMENTS (cont'd.)

(Including Author, Title, Date, Pertinent pages, etc.)

| | | | |
|------------|-----|-------------------|---|
| <i>gmy</i> | C57 | Katsuoka, et al. | <u>Gann</u> , 74, 534-541 (1983) |
| <i>gmy</i> | C58 | Kornblitt, et al. | <u>P.N.A.S. (USA)</u> , 80, pp. 3218-3222 (1982) |
| <i>gmy</i> | C59 | Krane | <u>Henry Ford Hosp.Med.J.</u> , 31(3) 177-181 (1983) |
| <i>gmy</i> | C60 | Krystal | <u>Expt.Hematol.</u> , 11(7), 649-660 (1983) |
| <i>gmy</i> | C61 | Kurachi, et al. | <u>P.N.A.S. (USA)</u> , 79, pp. 6461-6464 (1982) |
| <i>gmy</i> | C62 | Kurtz | <u>FEBS Letters</u> , 149(1), 105-108 (1982) |
| <i>gmy</i> | C63 | Kyte, et al. | <u>J.Mol.Biol.</u> , 157, 105-132 (1982) |
| <i>gmy</i> | C64 | Lappin, et al. | <u>Exp.Hematol.</u> , 11(7), 661-666 (1983) |
| <i>gmy</i> | C65 | Lawn, et al. | <u>Cell</u> , 15, pp. 1157-1174 (1978) |
| <i>gmy</i> | C66 | Lawn, et al. | <u>Cell</u> , 18 - Typographical error, should be <u>Cell</u> , 15 - See C65 |
| <i>gmy</i> | C67 | Ledeem, et al. | <u>Methods in Enzymology</u> , 83(Part D), 139-191 (1982) |
| <i>gmy</i> | C68 | Lee-Huang | <u>Proc.Nat.Acad.Sci (USA)</u> , 81, 2708-2712 (1984) |
| <i>gmy</i> | C69 | Lee-Huang | <u>Abstract No. 1463, Fed.Proc.</u> , 41, 520 (1982) |
| <i>gmy</i> | 70 | Lerner | <u>Scientific American</u> , 248, No. 2, 66-74 (1983) |
| <i>gmy</i> | 71 | Lerner, et al. | <u>Cell</u> , 23, 309-310 (1981) |
| <i>gmy</i> | 72 | Lerner, et al. | <u>P.N.A.S. (USA)</u> , 78, 3403-3407 (1981) |

*Considered June 2, 1986
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OTHER DOCUMENTS (cont'd.)
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| | | | |
|------------|-----|---------------------|---|
| <i>Jmy</i> | C73 | Lipschitz, et al. | <u>Blood</u> , <u>63(3)</u> , 502-509 (1983) 14 |
| <i>Jmy</i> | C74 | Maniatis, et al. | "Molecular Cloning, a Laboratory Manual", Cold Springs Harbor, N.Y. (1982) |
| <i>Jmy</i> | C75 | McGonigle, et al. | <u>Kidney Int.</u> , <u>25(2)</u> , 437-444 (1984) 14 |
| <i>Jmy</i> | C76 | Messing | <u>Methods in Enzymology</u> , <u>101</u> , 20-78 (1983) 14 |
| <i>Jmy</i> | C77 | Methods in Yeast... | Methods in Yeast Genetics, Cold Spring Harbor Lab., Cold Spring Harbor, N.Y. p. 62 (1983) (not enclosed) |
| <i>Jmy</i> | C78 | Miller, et al. | <u>Brit.J.Haematol.</u> , <u>52</u> , 545-549 (1982) 14 |
| <i>Jmy</i> | C79 | Miyake, et al. | <u>J.Biol.Chem.</u> , Vol. 252, No. 15, pp. 5558-5564 (1977) 14 |
| <i>Jmy</i> | C80 | Morrison | "Bioprocessing in Space -- an Overview", pp. 557-571 in The World Biotech Report, 1984, Volume 2:USA |
| <i>Jmy</i> | C81 | Murphy, et al. | <u>Acta.Haematologica Japonica</u> , <u>46(7)</u> , 1380-1396 (1983) |
| <i>Jmy</i> | C82 | Nathan, et al. | <u>New Eng.J.Med.</u> , <u>308(9)</u> , 520-522 (1983) 14 |
| <i>Jmy</i> | C83 | Naughton, et al. | <u>Ann.Clin.Lab.Sci.</u> , <u>13(5)</u> , 432-438 (1983) 14 |
| <i>Jmy</i> | C84 | Naughton, et al. | <u>Acta.Haemat.</u> , <u>69</u> , 171-179 (1983) 14 |
| <i>Jmy</i> | C85 | Neeser, et al. | <u>Anal.Biochem.</u> , <u>142</u> , 58-67 (1984) 14 |
| <i>Jmy</i> | C86 | Nigg, et al. | <u>P.N.A.S. (USA)</u> , <u>79</u> , 5322-5326 (1982) 14 |

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OTHER DOCUMENTS (cont'd.)

(Including Author, Title, Date, Pertinent pages, etc.)

| | | |
|---------------------------|--------------------------------|--|
| <i>Jmy</i> C87 | Ohkubo, et al. | <u>P.N.A.S. (USA), 80</u> , pp. 2196-2200 (1983) ¹⁴ |
| <i>Jmy</i> C88 | Okayama, et al. | <u>Mol. & Cell. Biol.</u> , <u>2</u> , 161-170 (1982) ¹⁴ |
| <i>Jmy</i> C89 | Palmiter, et al. | <u>Science</u> , <u>222(4625)</u> , 809-814 (1983) ¹⁴ |
| <i>Jmy</i> C90 | Pavlovic-Kentera, et al. | <u>Expt. Hematol.</u> , <u>8(Supp. 8)</u> , <u>283-291</u> (1980) ¹⁴ |
| <i>Jmy</i> C91 | Pennathur-Das et al. | <u>Blood</u> , <u>63(5)</u> , 1168-71 (1984) ¹⁴ |
| <i>Jmy</i> C92 | Points to Consider. | "Points to Consider in the Characterisation of Cell Lines Used to Produce Biologics", June 1, 1984, Office of Biologics Research Review, Center for Drugs & Biologics, U.S. Food & Drug Administration (Section A, Part 2) (not enclosed) |
| <i>Jmy</i> C93 | Resegotti, et al. | <u>Panminerva Medica</u> , <u>23</u> , 243-248 (1981) ¹⁴ |
| <i>Jmy</i> C94 | Reyes, et al. | <u>P.N.A.S. (USA) 79</u> , pp. 3270-3274 (1982) ¹⁴ |
| <i>Jmy</i> C95 | Ross, et al. | <u>Nature</u> , <u>294</u> , 654-656 (1981) ¹⁴ |
| <i>Jmy</i> C96 | Rothmann, et al. | <u>J. Surg. Oncol.</u> , <u>20</u> , 105-108 (1982) ¹⁴ |
| <i>Jmy</i> C97 | Saito, et al. | <u>Jap. J. Med.</u> , <u>23(1)</u> , 16-21 (1984) ¹⁴ |
| <i>Jmy</i> C98 | Sanger, et al. | <u>P.N.A.S. (USA)</u> , <u>74</u> , 5463-5467 (1977) ¹⁴ |
| <i>Jmy</i> C99 | Sasaki | <u>Biomed. Biochim. Acta.</u> , <u>42(11/12)</u> , <u>S202-206</u> (1983) ¹⁴ |
| <i>Jmy</i> C100 | Schwartz, et al. | <u>Otolaryngol</u> , <u>109</u> , 269-272 (1983) ¹⁴ |

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(Including Author, Title, Date, Pertinent pages, etc.)

| | | | |
|------------|------|--------------------|---|
| <i>gms</i> | C101 | Shahidi | <u>New.Eng.J.Med.</u> , <u>289</u> , 72-80 (1973) ₁₄ |
| <i>gms</i> | C102 | Singer-Sam, et al. | <u>P.N.A.S. (USA)</u> , <u>80</u> , pp. 802-806 (1983) ₁₄ |
| <i>gms</i> | C103 | Sue, et al. | <u>Proc.Nat.Acad.Sci. (USA)</u> , <u>80</u> , <u>3651-3655</u> (1983) ₁₄ |
| <i>gms</i> | C104 | Suggs, et al. | <u>P.N.A.S. (USA)</u> , <u>78</u> , pp. 6613- <u>6617</u> (1981) ₁₄ |
| <i>gms</i> | C105 | Sytowski, et al. | <u>Expt.Hematol.</u> , <u>8(Supp. 8)</u> , 52-63 (1980) ₁₄ |
| <i>gms</i> | C106 | Sytowski, et al. | <u>J.Immunol.Methods</u> , <u>69</u> , 181-186 (1984) ₁₄ |
| <i>gms</i> | C107 | Tambourin, et al. | <u>P.N.A.S. (USA)</u> , <u>80</u> , 6269-6273 (1983) ₁₄ |
| <i>gms</i> | C108 | Taub, et al. | <u>Anal.Biochem.</u> , <u>126</u> , 222-230 (1982) ₁₄ |
| <i>gms</i> | C109 | Testa, et al. | <u>Exp.Hematol.</u> , <u>8(Supp. 8)</u> , 144- <u>152</u> (1980) ₁₄ |
| <i>gms</i> | C110 | Tong, et al. | <u>J.Biol.Chem.</u> <u>256(24)</u> , 12666- <u>12672</u> (1981) ₁₄ |
| <i>gms</i> | C111 | Tramontano, et al. | <u>Nucleic Acids Research</u> , <u>12</u> , <u>5049-5059</u> (1984) ₁₄ |
| <i>gms</i> | C112 | Udupa, et al. | <u>J.Lab.Clin.Med.</u> , <u>103(4)</u> , 574-580 & 581-588 (1984) ₁₄ |
| <i>gms</i> | C113 | Urabe, et al. | <u>J.Exp.Med.</u> , <u>149</u> , 1314-1325 (1979) ₁₄ |
| <i>gms</i> | C114 | Urlaub, et al. | <u>Proc.Nat.Acad.Sci. (USA)</u> , <u>Vol.</u> <u>77</u> , 4216-4220 (1980) ₁₄ |

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(Including Author, Title, Date, Pertinent pages, etc.)

| | | | |
|------------|-----------------|---------------------------|---|
| <i>Jmy</i> | C115 | Vedovato, et al. | <u>Acta.Haematol</u> , <u>71</u> , 211-213 (1984) ¹⁴ |
| <i>Jmy</i> | C116 | Vichinsky, et al. | <u>J.Pediatr.</u> <u>105(1)</u> , 15-21 (1984) ¹⁴ |
| <i>Jmy</i> | C117 | Wallace, et al. | <u>Nuc.Acids Res.</u> , <u>9</u> , pp. 879-894 (1981) ¹⁴ |
| <i>Jmy</i> | C118 | Wallace, et al. | <u>Nuc.Acids Res.</u> , <u>6</u> , pp. 3543-3557 (1979) ¹⁴ |
| <i>Jmy</i> | C119 | Wallace, et al. | <u>Gene</u> , <u>16</u> , 21-26 (1981) ¹⁴ |
| <i>Jmy</i> | C120 | Walter, et al. | <u>P.N.A.S. (USA)</u> , <u>78</u> , 4882-4886 (1981) ¹⁴ |
| <i>Jmy</i> | C121 | Walter, et al. | <u>P.N.A.S. (USA)</u> , <u>77</u> , 5197-5200 (1980) ¹⁴ |
| <i>Jmy</i> | C122 | Weiland, et al. | <u>Blut</u> , <u>44(3)</u> , 173-175 (1982) ¹⁴ |
| <i>Jmy</i> | C123 | Weiss, et al. | <u>P.N.A.S. (USA)</u> , <u>79</u> , 5465-5469 (1982) ¹⁴ |
| <i>Jmy</i> | C124 | Weiss, et al. | <u>Am.J.Vet.Res.</u> , <u>44(10)</u> , 1832-1835 (1983) ¹⁴ |
| <i>Jmy</i> | C125 | Wong, et al. | <u>P.N.A.S. (USA)</u> , <u>78</u> , 7412-7416 (1981) ¹⁴ |
| <i>Jmy</i> | C126 | Woo | <u>Methods in Enzymology</u> , <u>68</u> , 389- 395 (1979) ¹⁴ |
| <i>Jmy</i> | C127 | World Biotech | World Biotech Report, 1984, Vol. 2:USA (See C80) |
| <i>Jmy</i> | C128 | Yanagawa, et al. | <u>Blood</u> , <u>64(2)</u> , 357-364 (1984) ¹⁴ |
| <i>Jmy</i> | C129 | Yanagawa, et al. | <u>J.Biol.Chem.</u> , <u>259(5)</u> , 2707-2710 (1984) ¹⁴ |
| <i>Jmy</i> | C130 | Broome, et al. | <u>P.N.A.S. (USA)</u>, <u>75</u>, 2746-2749 (1978) |

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OTHER DOCUMENTS (cont'd.)
(Including Author, Title, Date, Pertinent pages, etc.)

| | | |
|-----------------|-------------------|---|
| <i>Jmy</i> C131 | Dunn, et al. | <u>Chemical Abstracts</u> , 91, 190417r (1979) |
| <i>Jmy</i> C132 | Grantham, et al. | <u>Nuc. Acids. Res.</u> , 9, r43-r74 (1981) 14 |
| <i>Jmy</i> C133 | Bennetzen, et al. | <u>J. Biol. Chem.</u> , 257, 3026-3031 (1982) 14 |
| <i>Jmy</i> C134 | Hamer, et al. | <u>Nature</u> , 281, 35-40 (1979) 14 |

*Considered June 7, 1984
Joanne M. Giesler*

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