

EXHIBIT 33



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
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 Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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 201 SOUTH WATER ST. 11TH
 CHICAGO, IL 60605-1111

1100921959

EXAMINER

ART UNIT	PAPER NUMBER
1905	38

DATE MAILED: 09/16/94

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 04/08/94 + 06/13/94 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. Notice of References Cited by Examiner, PTO-892.
- 2. Notice of Draftsman's Patent Drawing Review, PTO-948.
- 3. Notice of Art Cited by Applicant, PTO-1449.
- 4. Notice of Informal Patent Application, PTO-152.
- 5. Information on How to Effect Drawing Changes, PTO-1474.
- 6. Copy of p. 62
Methods in Yeast Genetics

Part II SUMMARY OF ACTION

- 1. Claims 87-97 are pending in the application.
 Of the above, claims _____ are withdrawn from consideration.
- 2. Claims 1-83 have been cancelled.
- 3. Claims _____ are allowed.
- 4. Claims _____ are rejected.
- 5. Claims _____ are objected to.
- 6. Claims _____ are subject to restriction or election requirement.
- 7. This application has been filed with informal drawings under 37 C.F.R. 1.85 which are acceptable for examination purposes.
- 8. Formal drawings are required in response to this Office action.
- 9. The corrected or substitute drawings have been received on _____. Under 37 C.F.R. 1.84 these drawings are acceptable; not acceptable (see explanation or Notice of Draftsman's Patent Drawing Review, PTO-948).
- 10. 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).
- 12. Acknowledgement 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 *Ei parte Quayle*, 1935 C.D. 11; 453 O.G. 213.
- 14. Other claims 84-86 (filed 03/16/90) were not entered.

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EXAMINER'S ACTION

PTOL-328 (Rev. 2/83)

Serial No. 08/202,874

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The amendment filed March 16, 1990 and adding claims 84-86 has not been entered. The amendment filed June 13, 1994 has been entered. Applicant should note that the numbering of claims 84-94 submitted in the amendment filed June 13, 1994 has been changed. Claims 84-94 have been renumbered as claims 87-97 and the claim dependencies have also been changed accordingly. Applicant's attention is directed to 37 CFR § 1.126.

The Information Disclosure Statement filed April 8, 1994 has been received. The following are noted in connection with the Information Disclosure Statement.

- (a) Farber et al (reference C 71) was not considered because the submitted copy is illegible.
- (b) A copy of reference C 217 was not found in the submitted references. However, this reference was readily available to the PTO and was considered. A copy is enclosed with this Office action for applicant's convenience.
- (c) A copy of "Points to consider . . .", reference C 259 could not be found in the references submitted by applicant. This reference is not readily available to the PTO and has not been considered.
- (d) The copy of Testa et al, reference C 313, is illegible and has not been considered.

The disclosure is objected to because of the following informalities.

- (a) In claim 96, "to mammal" should be changed to "to a mammal".
- (b) At page 64, line 30, "recombinent" is a typographical error.
- (c) At page 9, line 20, "(Citations omitted)" is not understood.
- (d) The status of each of the parent applications should be updated.

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- (e) The specification needs a section entitled "Brief Description of the Drawings". The description of the drawings included in the amendment filed October 23, 1987 is inadequate because it does not describe each of the figures. Any amendment to correct this deficiency should point to basis in the application as filed for the amendment.

Appropriate correction is required.

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 the specification, as originally filed, does not provide support for the invention as is now claimed. The recitation of "fragment thereof" in claim 89 is new matter.

Claims 89-91 are rejected under 35 U.S.C. § 112, first paragraph, for the reasons set forth in the objection to the specification.

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.

Claims 87 and 89-97 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and

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distinctly claim the subject matter which applicant regards as the invention. The claims are vague, indefinite, and incomplete.

- (a) Claim 87 is vague and indefinite for reciting "in vivo biological activity". It is not clear whether the claimed material has all or only some of the properties of EPO.
- (b) The recitation of "having glycosylation which differs from that of human urinary erythropoietin" (claim 87) is vague and indefinite because there is no glycosylated standard for human urinary EPO. The record has evidence in it which indicates that the amount of glycosylation of EPO is variable. For example:

- (1) The Strickland declaration (filed 12/5/88) at page 10, lane (4) of the isoelectric focusing gel shows several faint bands for u-EPO. If u-EPO were a single species, it would show as only one band. Likewise, at page 14 of the same declaration, in lane 3 the u-EPO digested with sialidase results in several bands.
- (2) Takeuchi et al (J. Biol. Chem. 263(8), 3657 (1988)) at page 3660 indicates that variation of glycosylation depends on the level of glycotransferases in the cells. This paper also shows levels of glycosylation of EPO vary. Even though the publication date is later than the effective filing date of the application, the information can be used to support the § 112 rejection and reasoning supporting the rejection.

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(3) Chiba et al (Biochem. Biophys. Res. Comm. 47: 1372 (1972)) discloses variations in glycosylation of u-EPO depending on the degree of degradation of the glycoprotein that occurs during collection, extraction, purification, and storage of the u-EPO.

Thus, the amount of glycosylation of EPO is variable and no standard exists in the art to disclose what the glycosylation composition of EPO is. Neither does the instant application fill this void. Therefore, one of skill in the art would not know whether a given sample of EPO infringed the claims. Hence, the claims are vague and indefinite.

- (c) The recitation of "fragment thereof" (claim 89) is vague and indefinite because no lower limit of fragment size is mentioned.
- (d) Claim 90 is vague, indefinite, and incomplete because there is no antecedent basis for "the signal sequence of human erythropoietin set out in FIG 5". There is no signal sequence identified as such in FIG 6.
- (e) Claims 95 and 96 are vague, indefinite, and incomplete in reciting "effective amount" because the "effect" is not mentioned.
- (f) Claim 97 is vague and indefinite in reciting "enhancing". Substituting "increasing" for "enhancing" would be sufficient to overcome this part of this rejection.

Claims 89, 91, and 92 are each rejected over either one of the remaining two as being duplicate claims. The protein product is the same whether the exogenous DNA in the host cell is cDNA or genomic DNA.

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Claims 87 and 95-97 are rejected under 35 U.S.C. § 112, first paragraph, as the disclosure is enabling only for claims limited to those EPOs shown in the instant application. See M.P.E.P. §§ 706.03(n) and 706.03(z). The instant application does not teach the extraction and purification of EPO from any and all sources. Additionally, the instant application does not give guidance as to which "fragments" of EPO may have any activity. Accordingly, the claims are broader than the enabling disclosure.

Claims 96 and 97 are each rejected over the other as duplicate claims. The intended outcome of the therapy (claim 97) does not change the method of administration (claim 96).

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 --

(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.

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 negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (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.

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Claims 87 and 95-97 are rejected under 35 U.S.C. § 102(b) as being clearly anticipated by Eschbach et al (Clin. Res. 29(2), 518A (1981)). The reference teaches the administration of a preparation of sheep EPO to nephrectomized sheep to increase hematocrit levels. The claims embrace the EPO preparation of the reference as well as the methods of the reference.

Claims 87-94 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 either one of Sugimoto et al (U.S. 4,377,513) or Chiba et al. Sugimoto et al fused human kidney tumor cells that produce EPO with human leukemic lymphoblastoid cells (cancer cells) to get hybridoma cells that produce EPO. The idea here was to produce an immortal cell line capable of producing EPO much like one would produce monoclonal antibody producing hybridoma cell lines. After screening the hybridomas for EPO producing clones and isolating an EPO producing clone, Sugimoto et al grew up large amounts of the hybridomas as ascites tumors (in the peritoneal cavity of nude mice) and recovered preparations of human EPO (h-EPO). There's a good chance that h-EPO is not the same as u-EPO because as Chiba et al reports, degradation (via de-glycosylation) of u-EPO is a problem. Thus, one would reasonably expect the EPO circulating in the blood to be more glycosylated than u-EPO. Additionally, the h-EPO of Sugimoto et al is not "naturally-occurring" in the sense that some EPO producing cells were excised from the body, cultured to produce EPO, and then the EPO collected. Sugimoto et al made a hybridoma. As Takeuchi et al disclose, the glycosylation can vary depending on the enzymes present in the producing cell. Absent evidence to the contrary, the hybridoma-produced EPO is considered to have a different glycosylation pattern than the original kidney-cell-produced EPO. Thus, the

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claimed EPOs read on the EPO of Sugimoto et al. Applicant asserts (paper no. 15, filed July 12, 1999) that there was no reason to believe that the EPOs were different. This assertion is not convincing. On page 5 of the response, applicant states, "Applicant submits that there is no evidence or reason to believe that erythropoietin produced by a human lymphoblastoid cell line is identical to the glycosylation product produce by a non-human transformed or transfected cell line." This misrepresents the issue. The claims embrace all EPOs that have an average carbohydrate composition that differs from the carbohydrate composition of "naturally-occurring" EPO (whatever that is, see the rejections under 5 112 above). For purposes of this rejection, the average carbohydrate composition of naturally-occurring EPO is taken as that for u-EPO because that is what was measured by applicant (see page 65 of the specification). Thus, the EPO produced by the hybridoma of Sugimoto et al does not have to be identical to the EPO produced by any of the specific transformed cells disclosed in the instant application (although it may indeed be, no evidence or reasons are in the record to indicate otherwise). The EPO of Sugimoto et al has merely to have a different average carbohydrate composition than naturally-occurring EPO (i.e. u-EPO) in order to meet the claims. The same can be said for the various EPOs of Chiba et al. Additionally, the burden is on the applicant to provide evidence. If the EPOs differ, then at least one of the EPOs reads on the claimed EPO. Note that the EPOs at issue are the various intermediately degraded u-EPOs which are isolated from urine (Chiba et al) and h-EPO (human EPO) which is produced in the hybridoma cells of Sugimoto et al. Applicant has not carried his burden to show a difference between what exists in the prior art and what is claimed

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(In re Brown, 173 USPQ 685, CCPA 1972). Finally, the term "exogenous" in claim 84 means only that the gene has an origin outside of the host cell. It does not mean that the host cell has to be non-human in this claim. Thus, the claim reads on human EPO produced in human cells.

Claims 95-97 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 discloses pharmaceutical preparations of EPO for the administration of EPO to animals. These preparations are embraced by the claims. The discussion in the previous rejection is incorporated here.

Claims 98-94 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 either one of Espada et al (Fed. Proc. 41: 1158 (1982)) or Miyake et al (J. Biol. Chem. 252: 5558 (1977)). Each of the references discloses the purification of human EPO. Absent evidence to the contrary, the EPO of the references is the same or essentially the same as the EPO of the claims. It is not evident that the process of production defines the product. Since the PTO has no laboratories, the burden is on applicant to show a difference between a claimed product and a product of the prior art (see In re Brown, 173 USPQ 685, CCPA 1972).

Claim 95 is rejected under 35 U.S.C. § 103 as being unpatentable over either one of Sugimoto et al or Chiba et al as applied to claims 87-94 above, and further in view of applicant's admitted state of the prior art (page 87, line 29 through page 88, line 28). Applicant acknowledges pharmaceutically acceptable carriers, adjuvants, and diluents to be standard. It would be obvious for one of ordinary skill in the art to prepare a pharmaceutically acceptable composition containing the EPO of either one of the primary

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references in order to administer the EPO to an animal or human to effect a higher hematocrit.

Claim 95 is rejected under 35 U.S.C. § 103 as being unpatentable over either one of Espada et al (Fed. Proc. 41: 1159 (1982)) or Miyake et al (J. Biol. Chem. 252: 5558 (1977)) as applied to claims 89-94 above, and further in view of applicant's admitted state of the prior art (page 87, line 29 through page 88, line 28). Applicant acknowledges pharmaceutically acceptable carriers, adjuvants, and diluents to be standard. It would be obvious for one of ordinary skill in the art to prepare a pharmaceutically acceptable composition containing the EPO of either one of the primary references in order to administer the EPO to an animal or human to effect a higher hematocrit.

Claims 96 and 97 are rejected under 35 U.S.C. § 103 as being unpatentable over either one of Sugimoto et al or Chiba et al as applied to claims 87-94 above, and further in view of Papayannopoulou et al. Papayannopoulou et al teaches the administration of compositions containing EPO to animals including mammals. The reference further discloses higher hematocrits in animals receiving EPO. It would be obvious for one of ordinary skill in the art to administer the compositions of either one of Sugimoto et al or Chiba et al to animals in the manner of Papayannopoulou et al in order to increase hematocrits in animals as disclosed by Papayannopoulou et al.

Claims 96 and 97 are rejected under 35 U.S.C. § 103 as being unpatentable over either one of Espada et al (Fed. Proc. 41: 1159 (1982)) or Miyake et al (J. Biol. Chem. 252: 5558 (1977)) as applied to claims 89-94 above, and further in view of Papayannopoulou et al. Papayannopoulou et al

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teaches the administration of compositions containing EPO to animals including mammals. The reference further discloses higher hematocrits in animals receiving EPO. It would be obvious for one of ordinary skill in the art to administer the compositions of either one of Espada et al or Miyake et al to animals in the manner of Papayannopoulou et al in order to increase hematocrits in animals as disclosed by Papayannopoulou et al..

The Group and/or Art Unit location of your application in the PTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Group Art Unit 1805.

Certain papers related to this application may be submitted to Group 1800 by facsimile transmission. Papers should be faxed to Group 1800 at (703) 305-3014. The faxing of such papers must conform with the rules published in the Official Gazette, 1156 OG 61 (November 16, 1993).

Any inquiry concerning this communication should be directed to J. Martinell at telephone number (703) 303-6296.


JAMES MARTINELL, PH.D.
SENIOR LEVEL EXAMINER
GROUP 1800

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No. 1

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METHODS IN YEAST GENETICS

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ASSIGN
A.U. 1805
QR J. Montuori
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This 1982 edition was revised by Fred Sherman, Gerald R. Fink, and James B. Hicks. Contributors to earlier editions include Bruce Lukins, Thomas Petes, and Christopher W. Lawrence.

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SAN 203-6185

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SD. A synthetic minimal medium containing salts, trace elements, vitamins, nitrogen source (Bacto-yeast nitrogen base without amino acids) and dextrose. Each flask containing 200 ml of medium should be inoculated with 0.2 ml of a 10% suspension of the organism. The following ingredients are required for 600 ml of medium:

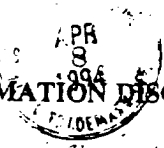
Bacto-yeast nitrogen base without amino acids	12 gm
Bacto-rose bengal	12 gm
Bacto-agar	12 gm
Distilled water	600 ml

Synthetic complete medium. The synthetic minimal medium with various constituents. It is convenient to prepare sterile stock solutions which can be stored for extensive periods. All stock solutions can be autoclaved for 15 minutes at 250°F. The appropriate volume of the stock solutions (see below) is added to the ingredients of SD medium and sufficient distilled water is added so that the total volume is 600 ml. The threonine and aspartic acid solutions should be added separately after autoclaving. Given below are the concentrations of the stock solutions (amount per 200 ml) and the volume added to 600 ml of medium. Some stock solutions should be stored at room temperature in order to prevent precipitation while the other solutions may be refrigerated.

Constituent	Final mg/l	Stock per 200 ml	ml for 600 ml
adenine sulfate	20	240 mg*	10
uracil	20	480 mg*	5
L-tryptophan	20	480 mg	5
L-histidine-HCl	20	480 mg	5
L-arginine-HCl	20	480 mg	5
L-methionine	20	480 mg	5
L-tyrosine	30	180 mg*	20
L-leucine	30	720 mg*	5
L-isoleucine	30	720 mg	5
L-lysine-HCl	30	720 mg	5
L-phenylalanine	50	600 mg*	10
L-glutamic acid	100	1.2 gm*	10
L-aspartic acid	100	800 mg**	15
L-valine	150	3.6 gm	5
L-threonine	200	4.8 gm†	5
L-serine	375	9 gm	5

*Store at room temperature
 †Add after autoclaving the media.

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Form PTO-1449	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 11009/D31956	Serial No. 08/202.874
 <p>INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)</p>		Applicant Fu-Kuen Lin	
		Filing Date February 28, 1994	Group 1812 1805


U.S. PATENT DOCUMENTS								
*Examiner Initials		Document #	Issue Date	Name	Class	Subclass	Source	Filing Date
<i>de</i>	A1	3,033,753	5/8/62	White et al.	530**	395**	A,F	
<i>de</i>	A2	4,237,224	12/2/80	Cohen et al.	435	69.1**	A,D	
<i>de</i>	A3	4,254,095	3/3/81	Fisher et al.	424	88**	F	
<i>de</i>	A4	4,264,731	4/28/81	Shine	435	91.41**	A	
<i>de</i>	A5	4,273,875	6/16/81	Manis	435	310/253.5**	A	
<i>de</i>	A6	4,293,652	10/6/81	Cohen	435	172.3**	A	
<i>de</i>	A7	4,338,397	7/6/82	Gilbert et al.	435	69.1**	A	
<i>de</i>	A8	4,358,535	11/9/82	Falkow et al.	435	5	A	
<i>de</i>	A9	4,394,443	7/19/83	Weissman et al.	435	6	A	
<i>de</i>	A10	4,399,216	8/16/83	Axel et al.	435	6	A,D	
<i>de</i>	A11	4,411,994	10/25/83	Gilbert et al.	435	69.7**	A	
<i>de</i>	A12	4,442,205	4/10/84	Hamer et al.	435	69.1**	A	
<i>de</i>	A13	4,465,624	8/14/84	Chiba et al.	530**	395**	A,F	
<i>de</i>	A14	4,468,464	8/28/84	Cohen et al.	435	320.1**	A	
<i>de</i>	A15	4,503,151	3/5/85	Paddock	435	69.1**	A	
<i>de</i>	A16	4,695,542	9/22/87	Yokata et al.	435	172.3 68	B	
<i>de</i>	A17	4,710,473	12/1/87	Morris	435	320.1**	A	
<i>de</i>	A18	4,757,006	7/12/88 10/28/83	Toole et al.	435	69.6**	D,E	

As re-classified from original.

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EXAMINER <i>A Hill</i>	DATE CONSIDERED <i>8/5/84</i>
<p>*EXAMINER: Initial if reference 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.</p>	

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Form PTO-1449  INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	U.S. Department of Commerce Patent and Trademark Office	App. Docket No. 11009/D31956	Serial No. 08/202,874
	Applicant Fu-Kuen Lin		
	Filing Date February 28, 1994	Group 1812 / 103	

FOREIGN PATENT DOCUMENTS

*Examiner Initials	Document #	Publication Date	Country	Source	Class/ Subclass	Translation	
						Yes	No
de	B1	0070685	1/26/83	EPØ	A	—	
de	B2	0070687	1/26/83	EPØ	A	—	
de	B3	0077670	4/27/83	EPØ	A	—	
de	B4	0093619	11/9/83	EPØ	A,B,D	—	
de	B5	0116446	8/22/84	EPØ	A,F	—	
de	B6	0117058	8/29/84	EPØ	A	—	
de	B7	0117059	8/29/84	EPØ	A,B	—	
de	B8	0117060	8/29/84	EPØ	A,B	—	
de	B9	0123294	10/31/84	EPØ	A	—	
de	B10	0136490	4/10/85	EPØ	A	—	
de	B11	2085887	5/6/82	U.K.	A,F	—	
de	B12	83/04053	11/24/83	PCT WO	A	—	
de	B13	85/01961	5/9/85	PCT WO	A	—	
de	B14	85/03079	7/18/85	PCT WO	A,D	—	
de	B15	85/04419	10/10/85	PCT WO	A	—	
de	B16	86/03520	6/19/86	PCT WO	A	—	


OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) [SOURCE]

de	C1	Abraham et al., "Nucleotide Sequence of a Bovine Clone Encoding the Angiogenic Protein, Basic Fibroblast Growth Factor," <i>Science</i> , 233, 545-548 (August 1, 1986) [F]
de	C2	Adamson, "The Polycythemias: Diagnosis and Treatment," <i>Hosp. Practice</i> , 18(12), 49-57 (December 1983) [A]
de	C3	Aebi, "Sequence Requirements for Splicing of Higher Eukaryotic Nuclear Pre-mRNA," <i>Cell</i> , 47, 555-565 (Nov. 21, 1986) [F]
de	C4	Agarwal et al., "A General Method for Detection and Characterization of an mRNA using an Oligonucleotide Probe," <i>J. Biol. Chem.</i> , 256, 1023-1028 (Jan. 25, 1981) [F]

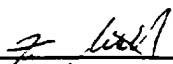
EXAMINER de	DATE CONSIDERED 8/5/84
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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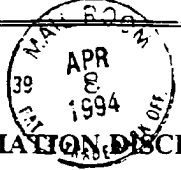
m PTO-1449 	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 11009/D31956	Serial No. 08/202,874
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	C4	Agarwal et al., "A General Method for Detection and Characterization of an mRNA using an Oligonucleotide Probe," <i>J. Biol. Chem.</i> , 256, 1023-1028 (Jan. 25, 1981) [F]
h	C5	Anderson et al., "Isolation of a genomic clone for bovine pancreatic trypsin inhibitor by using a unique-sequence synthetic DNA probe," <i>P.N.A.S. (USA)</i> , 80, 6838-6842 (November 1983) [A,F]
h	C6	Baciu et al., "Erythropoietin Interaction with the Mature Red Cell Membrane," <i>Ann. N.Y. Acad. Sci.</i> , 414, 66-72 (1983) [A]
h	C7	Baron et al., "Antibodies against the Chemically Synthesized Genome-Linked Protein of Poliovirus React with Native Virus-Specific Proteins," <i>Cell</i> , 28, 395-404 (February 1982) [A]
h	C8	Beaucage et al., "Deoxynucleoside Phosphoramidites-A new Class of Key Intermediates for Deoxypolynucleotide Synthesis," <i>Tetrahedron Letters</i> , 22(20), 1859-1862 (1981) [A,F]
h	C9	Benedum et al., "The primary structure of bovine chromogranin A: a representative of a class of acidic secretory proteins common to a variety of peptidergic cells," <i>EMBO J.</i> 5(7), 1495-1502 (1986) [F]
h	C10	Bennetzen et al., "Codon Selections in Yeast," <i>J. Biol. Chem.</i> , 257(6), 3026-3031 (March 25, 1982) [A]
h	C11	Bentley et al., "Human immunoglobulin variable region genes-DNA sequences of two V _k genes and a pseudogene," <i>Nature</i> , 288, 730-733 (December 1980) [F]
h	C12	Benton et al., "Screening λgt Recombinant Clones by Hybridization to single Plaques in situ," <i>Science</i> , 196, 180-182 (April 8, 1977) [F]
h	C13	Berzofsky et al., "Topographic Antigenic Determinants Recognized by Monoclonal Antibodies to Sperm Whale Myoglobin," <i>J. Biol. Chem.</i> 257(6), 3189-3198 (March 25, 1982) [F]
h	C14	Berzofsky et al., "Properties of Monoclonal Antibodies Specific for Determinants of a Protein Antigen, Myoglobin," <i>J. Biol. Chem.</i> 255(23), 11188-11191 (Dec. 10, 1980) [F]
h	C15	Betsholtz et al., "cDNA sequence and chromosomal localization of human platelet-derived growth factor A-chain and its expression in tumour cell lines," <i>Nature</i> 320, 695-699 (April 24, 1986) [F]
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h	C17	Blattner et al., "Charon Phages: Safer Derivatives of Bacteriophage Lambda for DNA Cloning," <i>Science</i> , 196, 161-169 (April 8, 1977) [A,F]

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<i>h</i>	C18	Bos et al., "Eukaryotic Expression of Cloned cDNA Coding for Influenza Viral Glycoproteins Using an SV40 Vector: Use of Recombinant DNA Mutants to Study Structure-Function Relationships ¹ ," <i>Proc. Symp. Mol. Biol. Negar., Strand Viruses Meeting</i> , pages 125-130, Compans et al., eds., Acad. Press (1984) [B]
<i>h</i>	C19	Bray et al., "Human cDNA clones for four species of G α -signal transduction protein," <i>P.N.A.S. (USA)</i> , 83, 8893-8897 (December 1986) [F]
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<i>h</i>	C22	Canaani et al., "Regulated expression of human interferon β 1 gene after transduction into cultured mouse and rabbit cells," <i>P.N.A.S. (USA)</i> , 79, 5166-5170 (Sept. 1982) [D]
<i>h</i>	C23	Chan et al., "Construction and selection of recombinant plasmids containing full-length complementary DNAs corresponding to rat insulins I and II," <i>P.N.A.S. (USA)</i> , 76(10), 5036-5040 (October 1979) [F]
<i>h</i>	C24	Chia et al., "The construction of cosmid libraries of eukaryotic DNA using the Homer series of vectors," <i>Nucleic Acids Res.</i> 10(8), 2503-2520 (1982) [F]
<i>h</i>	C25	Chirgwin et al., "Isolation of Biologically Active Ribonucleic Acid from Sources Enriched in Ribonuclease," <i>Biochemistry</i> , 18(24), 5294-5299 (1979) [A,F]
<i>h</i>	C26	Chisholm, "On the Trail of the Magic Bullet: Monoclonal antibodies promise perfectly targeted chemicals," <i>High Technology</i> , Vol. 2(1), 57-63 (Jan. 1983) [A]
<i>h</i>	C27	Chomczynski et al., "Alkaline Transfer of DNA to Plastic Membrane," <i>Biochem. Biophys. Res. Commun.</i> , 122(1), 340-44 (1984) [A]
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<i>h</i>	C29	Choppin et al., "Characterization of Erythropoietin Produced by IW32 Murine Erythroleukemia Cells," <i>Blood</i> , 64(2), 341-347 (August 1984) [A,F]
<i>h</i>	C30	Chou et al., "Prediction of Protein Conformation," <i>Biochem.</i> , 13(2), 222-245 (1974) [A]
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<i>h</i>	C32	Chou et al., "Empirical Predictions of Protein Conformation," <i>Ann. Rev. Biochem.</i> , 47, 251-277 (1978) [A] 76 (1978) [A]
<i>h</i>	C33	Christman et al., "Amplification of expression of hepatitis B surface antigen in 3T3 cells cotransfected with a dominant-acting gene and cloned viral DNA," <i>P.N.A.S. (USA)</i> , 79, 1815-1819 (March 1982) [F]

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✓	C34	Claus-Walker et al., "Spinal Cord Injury and Serum Erythropoietin," <i>Arch. Phys. Med. Rehabil.</i> , 55, 370-374 (July 1984) [A]
✓	C35	Colby et al., "Immunological Differentiation Between <i>E. coli</i> and CHO Cell-Derived Recombinant and Natural Human β -Interferons ¹ ," <i>J. Immunol.</i> , 133(6), 3091-3095 (1984) [B]
✓	C36	Collen et al., "Biological Properties of Human Tissue-Type Plasminogen Activator Obtained by Expression of Recombinant DNA," <i>J. of Pharmacology and Exp. Therapeutics</i> , 231(1), 146-152 (1984) [B]
✓	C37	Colman, "Cells that secrete foreign proteins," <i>TIBS</i> , 435-437 (December 1982) [D]
✓	C38	Comb et al., "Primary structure of the human Met- and Leu-enkephalin precursor and its mRNA " <i>Nature</i> , 295, 663-666 (February 25, 1982) [F]
✓	C39	Congote et al., "The Erythropoietins, New Erythroid Cell Stimulating Factors Extracted From Human and Bovine Fetal Tissues," Abstract 364, Proceedings 7th International Congress of Endocrinology (Quebec City, Quebec, July 1-7, 1984) [A]
✓	C40	Congote, "Extraction from Fetal Bovine Serum of Erythropoietin, an Erythroid Cell-Stimulating Factor," <i>Anal. Biochem.</i> , 140, 428-433 (1984) [A]
✓	C41	Congote, "Regulation of Fetal Liver Erythropoiesis," <i>J. of Steroid Biochemistry</i> , 3, 423-428 (1977); [F]
✓	C42	Congote, "Isolation of Two Biologically Active Peptides, Erythropoietin I and Erythropoietin II from Fetal Calf Intestine," <i>Biochem. Biophys. Res. Comm.</i> , 115(2), 477-483 (September 15, 1983) [A]
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✓	C44	Costantini et al., "Introduction of a Rabbit Betaglobin Gene into the Mouse Germ Line," <i>Nature</i> , 294, 92-94 (November 5, 1982) [D]
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✓	C46	Cotes et al., "Changes in serum immunoreactive erythropoietin during the menstrual cycle and normal pregnancy," <i>Brit. J. Obstet. Gynecol.</i> , 90, 304-311 (April 1983) [A]
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✓	C48	Dainiak et al., "Mechanisms of Abnormal Erythropoiesis in Malignancy," <i>Cancer</i> , 51(6), 1101-1106 (1983) [A]

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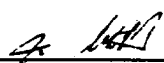
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sh	C49	Das et al., "Use of synthetic oligonucleotide probes complementary to genes for human HLA-DR α and β as extension primers for the isolation of 5'-specific genomic clones." <i>P.N.A.S. (USA)</i> , 80, 1531-1535 (March 1983) [A]
sh	C50	Davis et al., "A Manual for Genetic Engineering, Advanced Bacterial Genetics", Cold Spring Harbor Laboratory, Cold Spring Harbor, NY (1983), pp. 55-58 & 174-176 [A]
sh	C51	Davis et al., "Active Influenza Virus Neuraminidase is Expressed in Monkey Cells from cDNA Cloned in Simian Virus 40 Vectors," <i>Proc. Nat'l. Acad. Sci. (USA)</i> , 80, 3976-3980 (1983) [B]
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sh	C55	Devos et al., "Purification of Recombinant Glycosylated Human Gamma Interferon Expressed in Transformed Chinese Hamster Ovary Cells," <i>J. Interferon Research</i> , 4, 461-468 (1984) [B]
sh	C56	Docherty et al., "Sequence of human tissue inhibitor of metalloproteinases and its identity to erythroid-potentiating activity," <i>Nature</i> , 318, 66-69 (Nov. 7, 1985) [F]
sh	C57	Dreesman et al., "Antibody to hepatitis B surface antigen after a single inoculation of uncoupled synthetic HBsAg peptides," <i>Nature</i> , 295, 158-160 (Jan. 14, 1982) [A]
sh	C58	Dunn et al., "Erythropoietin Bioassays Using Fetal Mouse Liver Cells: Validations and Technical Improvements," <i>Exp. Hematol.</i> , 11(7), 590-600 (August 1983) [A]
sh	C59	Dunn, "Current Concepts in Erythropoiesis," John Wiley & Sons, Chichester, England, 1983 [A], pp. 13, 14, 86, and 190 [A]
sh	C60	Dunn et al., "Use of a computer model in the understanding of erythropoietic control mechanisms." <i>Chemical Abstracts</i> , 91, 190417r (1979) [A]
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sh	C62	Edman et al., "A Protein Sequenator," <i>Eur. J. Biochem.</i> 1, 80-91 (1967) [F]
sh	C63	Emmanouel et al., "Metabolism of pure human erythropoietin in the rat," <i>Am. J. Physiol.</i> , 247 (1 Pt 2), F168-76 (1984) [A]

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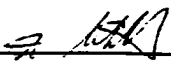
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oh	C66	Espada et al., "Purification of Human Urinary Erythropoietin," <i>Fed. Proc.</i> 41, 1159 (1982) [F]
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oh	C72	Fiddes et al., "The Gene Encoding the Common Alpha Subunit of the Four Human Glycoprotein Hormones." <i>J. Mol. & App. Genetics</i> , 1, 3-18 (1981) [A]
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oh	C76	Fisher et al., "Effects of testosterone, cobalt & hypoxia on erythropoietin production in the isolated perfused dog kidney," <i>Ann. N.Y. Acad. Sci.</i> , 75-87 (1967) [D]
oh	C77	Fisher, "Erythropoietin: Pharmacology, Biogenesis and Control of Production," <i>Pharmacological Review</i> , 24(3), 459-508 (1972) [D,E]

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✓	C79	Fisher, "Control of Erythropoietin Production," <i>Proc. Soc. Exp. Biol. & Med.</i> 173, 289-305 (1983) [F]
✓	C80	Garcia et al., "Immunological Neutralization of Various Erythropoietins," <i>Proc. Soc. Exptl. Biol. Med.</i> , 112, 712-714 (1963) [D], 712-714 (1963) [D] ✓
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✓	C82	Garcia et al., "Radioimmunoassay of Erythropoietin," <i>Blood Cells</i> 5, 405-419 (1979) [F]
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✓	C85	Gene Screen, New England Nuclear, Catalog No. NEF-972 [A]
✓	C86	Gething et al., "Comparison of Different Eukaryotic Vectors for the Expression of Hemagglutinin Glycoprotein of Influenza Virus," <i>Modern Approaches To Vaccines</i> , pages 263-268. Chanock et al., eds. Cold Spring Harbor Lab (1984) [B]
✓	C87	Gething et al., "Construction of influenza haemagglutinin genes that code for intracellular and secreted forms of the protein," <i>Nature</i> , 300, 598-603 (Dec. 16, 1982) [B]
✓	C88	Gibson et al., "An Evaluation of Serum Erythropoietin Estimation By a Hemagglutination Inhibition assay in the Differential Diagnosis of Polycythemia," <i>Pathology</i> , 16, 155-156 (April 1984) [A]
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✓	C91	Goeddel et al., "Human leukocyte Interferon Produced by <i>E. coli</i> is biologically active," <i>Nature</i> , 287:411-416 (October 2, 1980) [D]
✓	C92	Goldwasser et al., "Purification of Erythropoietin," <i>P.N.A.S. (USA)</i> , 68(4), 697-698 (April 1971) [F]
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sk	C94	Goldwasser, "Some Thoughts on the Nature of Erythropoietin-Responsive Cells," <i>J. Cell. Physiol.</i> , 110 (Supp. 1), 133-135 (1982) [A]
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sk	C97	Goldwasser, "Biochemical Control of Erythroid Development," <i>Current Topics in Developmental Biology</i> , ed. A. Monroy and A.A. Noscona, 173-211, Academic Press, NY (1966) [D]
L	C98	Goldwasser et al., "Erythropoietin: Assay and Study of Its Mode of Action," <i>Meth. in Enzymol.</i> , 37, 109-121 (1975) [F]
sk	C99	Goldwasser, "From Protein to Gene to Protein: The Molecular Biology of Erythropoietin," <i>Am. J. of Kidney Diseases</i> , 18(4) Supp. 1, 10-13 (Oct. 1991) [F]
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sk	C103	Goochee et al., "Environmental Effects on Protein Glycosylation," <i>Biotechnology</i> , 8, 421-427 (May 1990) [F]
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sk	C105	Goodman et al., "Cloning of Homone Genes from a Mixture of cDNA Molecules," <i>Meth. in Enzymol.</i> 68, 75-90 (1979) [F]
L	C106	Gordon et al., "A plasma extract with erythropoietic activity," <i>Proc. Soc. Expt. Biol. Med.</i> , 86:255-258 (1954) [D,E]
sk	C107	Goto et al., "Production of Recombinant Human Erythropoietin in Mammalian Cells: Host-Cell Dependency of the Biological Activity of the Cloned Glycoprotein," <i>Bio/Tech.</i> 6, 67-71 (January 1988) [F]
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sk	C110	Gouy et al., "Codon Usage in Bacteria: Correlation with Gene Expressivity," <i>Nucleic Acids Res.</i> 10, 7055-7074 (1982) [A]
sk	C111	Graham et al., "A New Technique for the Assay of Infectivity of Human Adenovirus 5 DNA," <i>Virology</i> 52, 456-467 (1973) [F]
sk	C112	Grantham et al., "Codon catalog usage is a genome strategy modulated for gene expressivity," <i>Nucleic Acids Res.</i> 9, r43-74 (1981) [A.F]
sk	C113	Gray et al., " <i>Pseudomonas Aeruginosa</i> Secretes and Correctly Processes Human Growth Hormone," <i>Biotechnology</i> , 2, 161-165 (February 1984) [A]
sk	C114	Gray et al., "Expression of human immune interferon cDNA in <i>E. coli</i> and monkey cells," <i>Nature</i> , 295, 503-508 (February 11, 1982) [A,D,E]
sk	C115	Green et al., "Immunogenic Structure of the Influenza Virus Hemagglutinin," <i>Cell</i> , 28, 477-487 (March 1982) [A]
sk	C116	Grimaldi et al., "Interspersed repeated sequences in the African green monkey genome that are homologous to the human Alu family," <i>Nucleic Acid Research</i> , 9(21):5553-5568 (1981) [D]
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sk	C118	Grundmann et al., "Characterization of cDNA coding for human factor XIIIa," <i>P.N.A.S. (USA)</i> , 83, 8024-8028 (November 1986) [F]
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✓	C126	Hamer et al., "Expression of the chromosomal mouse β^{H2k} -globin gene cloned in SV40," <i>Nature</i> , 281:35-40 (September 6, 1979) [A,D]
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✓	C129	Hanahan et al., "Plasmid screening at high colony density," <i>Gene</i> , 10, 63-67 (1980) [F]
✓	C130	Hartman et al., "Human Influenza Virus Hemagglutinin is Expressed in Monkey Cells Using Simian Virus 40 Vectors," <i>Proc. Nat'l. Acad. Sci. (USA)</i> , 79, 233-237 (1982) [B]
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Form PTO-1449 INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	U.S. Department of Commerce Patent and Trademark Office	
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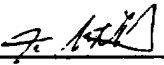
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✓	C163	Konrad, "Applications of Genetic Engineering to the Pharmaceutical Industry," <i>Ann. N.Y. Acad. Sci.</i> , 413, 12-22 (1983) [B]
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✓	C169	Krystal, "A Simple Microassay for Erythropoietin Based on ³ H-Thymidine Incorporation into Spleen cells from Phenylhydrazine Treated Mice," <i>Exp. Hematol.</i> , 11(7), 649-660 (August 1983) [A]
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✓	C172	Kuratowska et al., "Studies on the production of erythropoietin by isolated perfused organs." <i>Blood</i> , 18:527-534 (1961) [D]
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✓	C175	Lai, "Technical Improvements in Protein Microsequencing," <i>Analytica Chimica Acta</i> , 163, 243-248 (1984) [B,C]
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✓	C181	Lathe, "Synthetic Oligonucleotide Probes Deduced from Amino Acid Sequence Data," <i>J. Mol. Biol.</i> , 183, 1-12 (1985) [F]
✓	C182	Laub et al., "Synthesis of Hepatitis B Surface Antigen in Mammalian Cells: Expression of the Entire Gene and the Coding Region," <i>J. Virol.</i> , 48(1), 271-280 (1983) [B]
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✓	C184	Lauffer et al., "Topology of signal recognition particle receptor in endoplasmic reticulum membrane," <i>Nature</i> 318, 334-338 (1985) [F]
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Applicant: Fu-Kuen Lin

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	✓	C225	Morrison, "Bioprocessing in Space -- an Overview," <i>The World Biotech Report</i> , Volume 2, USA, 557-571 (1984) [A]
	✓	C226	Munjaal et al., "A cloned calmodulin structural gene probe is complementary to DNA sequence from diverse species." <i>P.N.A.S. (USA)</i> , 78(4), 2330-2334 (April 1981) [D]
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	✓	C228	Myers et al., "Construction and Analysis of Simian Virus 40 Origins Defective in Tumor Antigen Binding and DNA Replication," <i>PNAS (USA)</i> , 77, 6491-6495 (Nov. 1980)
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	✓	C230	Naets, "The role of the kidney in erythropoiesis," <i>J. Clin. Invest.</i> , 39:102-110 (1960) [D]
	✓	C231	Nagata et al., "Synthesis in <i>E. Coli</i> of a polypeptide with human leukocyte interferon activity," <i>Nature</i> , 284, 316-320 (March 27, 1980) [F]
	✓	C232	Nakao et al., "Erythropoiesis in anephric or kidney transplated patients," <i>Israel J. Med. Sci.</i> , 7:986-989 (July-August 1971) [D] 986-990 (July-August 1971) [D]
	✓	C233	Nathan et al., "Erythropoietin and the Regulation of Erythropoiesis," <i>New Eng. J. Med.</i> , 308(9), 520-522 (March 3, 1983) [A]
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L	C236	Nayak et al., "Characterization of Influenza Virus Glycoproteins Expressed from Cloned cDNAs in Prokaryotic and Eukaryotic Cells," <i>Modern Approaches To Vaccines</i> , pages 165-172, Chanock et al., eds., Cold Spring Harbor Lab. (1984) [B]
L	C237	Neeser et al., "A Quantitative Determination by Capillary Gas-Liquid Chromatography of Neutral and Amino Sugars (as O-Methylxime Acetates), and a Study on Hydrolytic Conditions for Glycoproteins and Polysaccharides In Order to Increase Sugar Recoveries," <i>Anal. Biochem.</i> , 142, 58-67 (1984) [A]
L	C238	Newman et al., "Selection and Properties of a Mouse L-Cell Transformant Expressing Human Transferrin Receptor." <i>Nature</i> , 304, 643-645 (1983) [B]
L	C239	Nigg et al., "Immunofluorescent localization of the transforming protein of Rous sarcoma virus with antibodies against a synthetic src peptide," <i>P.N.A.S. (USA)</i> , 79, 5322-5326 (September 1982) [A]
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L	C241	Noda et al., "Cloning and sequence analysis of cDNA for bovine adrenal preproenkephalin," <i>Nature</i> , 295, 202-206 (January 21, 1982) [F]
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L	C246	Ohno et al., "Inducer-responsive expression of the cloned human interferons β 1 gene introduced into cultured mouse cells," <i>Nucleic Acids Res.</i> , 10(3):967-976 (1982) [D]
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✓	C249	Paabo et al., "Association Between Transplantation Antigens and a Viral Membrane Protein Synthesized from a Mammalian Expression Vector," <i>Cell</i> , 35, 445-453 (1983) [B]
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✓	C254	Pellicer et al., "Altering Genotype and Phenotype by DNA-Mediated Gene Transfer," <i>Science</i> , 209, 1414-1422 (Sept. 19, 1980) [F]
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✓	C256	Pennica et al., "Cloning and expression of human tissue-type plasminogen activator cDNA in <i>E-coli</i> ," <i>301</i> , 214-221 (Jan. 20, 1983) [B]
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✓	C260	Powell et al., "Human erythropoietin gene: High level expression in stably transfected mammalian cells and chromosome localization," <i>P.N.A.S. (USA)</i> , 83, 6465-6469 (September 1986) [F]
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<i>L</i>	C289	Sherwood et al., "Erythropoietin Titters in Sickle Cell Disease & Chronic Renal Failure," <i>Blood Suppl. 1</i> , 58, Abstract 105 (1981) [F]
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/	C303	Suggs et al., "Use of Synthetic Oligodeoxyribonucleotide for the Isolation of Specific Cloned DNA Sequences," <i>Developmental Biology Using Purified Genes</i> , 683-693 (D. Brown, Ed., 1981) [D,F]

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/	C309	Talmadge et al., "Eukaryotic Signal Sequence Transports Insulin Antigen in Escherichia coli," <i>P.N.A.S. USA</i> 77(6), 3369-3373 (June 1980) [A,B,D]
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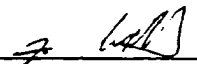
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✓	C327	Vedovato et al., "Erythropoietin Levels in Heterozygous Beta-Thalassemia," <i>Acta Haematol.</i> , 71, 211-213 (1984) [A]
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✓	C329	Vieira et al., "The pUC plasmids, an M13mp7-derived system for insertion mutagenesis and sequencing with synthetic universal primers," <i>Gene</i> , 19, 259-268 (1982) [F]
✓	C330	Villasante et al., "Binding of microtubule protein to DNA and chromatin: possibility of simultaneous linkage of microtubule to nucleic acid and assembly of the microtubule structure," <i>Nucleic Acids Res</i> , 9(4), 895 (1981) [F]
✓	C331	Walker et al., <i>Techniques in Molecular Biology</i> , Macmillan Pub. Co., N.Y., p. 280 (1983) [A]

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Form PTO-1449 INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary.)	U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. 11009/D31956	Serial No. 08/202,874
	Applicant Fu-Kuen Lin			
	Filing Date February 28, 1994	Group 1812 1005		

✓	C332	Wallace et al., "The use of synthetic oligonucleotides as hybridization probes. II. Hybridization of oligonucleotides of mixed sequence to rabbit β-globin DNA," <i>Nuc. Acids Res.</i> , 9(4), 879-894 (1981) [A,D,E,F]
✓	C333	Wallace et al., "A set of synthetic oligodeoxyribonucleotide primers for DNA sequencing in the plasmid vector pBR322," <i>Gene</i> , 16, 21-26 (1981) [A]
✓	C334	Wallace et al., "Directed Deletion of a Yeast Transfer RNA Intervening Sequence," <i>Science</i> , 209, 1396-1400 (September 19, 1980) [D]
✓	C335	Wallace et al., "Oligonucleotide Directed Mutagenesis of the Human β-globin gene: A General Method for Producing Specific Point Mutations in cloned DNA," <i>Nucleic Acids Research</i> , 9(15), 3647-3657 (1981). [D]
✓	C336	Wallace et al., "Hybridization of synthetic oligodeoxyribonucleotides to Phi-chi 174 DNA: the effect of single base pair mismatch," <i>Nuc. Acids Res.</i> , 6(11), 3543-3557 (1979) [A,D,F]
✓	C337	Wallis et al., "The isolation of cDNA clones for human apolipoprotein E and the detection of apoE RNA in hepatic and extra-hepatic tissues," <i>EMBO J.</i> , 2, 2369-2373 (1983) [F]
✓	C338	Walter et al., "Antibodies specific for the carboxy- and amino-terminal regions of simian virus 40 large tumor antigen," <i>P.N.A.S. (USA)</i> , 77(9), 5197-5200 (September 1980) [A]
✓	C339	Walter et al., "Antibodies specific for the polyoma virus middle-size tumor antigen," <i>P.N.A.S. (USA)</i> , 78, 4882-4886 (August 1981) [A]
✓	C340	Wang et al., "Renal and extrarenal erythropoietin production in male and female rats of various ages," <i>J. Lab. Clin. Med.</i> , 79(2), 181-186 (February 1972) [D]
✓	C341	Weiland et al., "In vivo Activity of Asialo-Erythropoietin in Combination with Asialo-Glycoproteins," <i>Blut</i> , 44(3), 173-175 (1982) [A]
✓	C342	Weiss et al., "Studies of the pathogenesis of anemia of inflammation: Mechanism of impaired erythropoiesis," <i>Am. J. Vet. Res.</i> , 44(10), 1832-1835 (October 1983) [A]
✓	C343	Weissman et al., "Structure and expression of human IFN-α Genes," <i>Phil. Trans. R. Soc. Lond.</i> , B299, 7-28 (1982) [B]
✓	C344	White et al., "Studies on Erythropoietin," <i>Recent Progr. Hormone Res.</i> , 16, 219-262 (1960) [D]
✓	C345	White et al., "Haemagglutinin of influenza virus expressed from a cloned gene promotes membrane fusion," <i>Nature</i> , 300, 658-659 (1982) [B]

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Form 150-1446	U.S. Department of Commerce Patent and Trademark Office	App. Docket No. 11009/D31956	Serial No. 08/202,874
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Fu-Kuen Lin	
		Filing Date February 28, 1994	Group 1812 / fos

✓	C346	Whitehead et al., "Use of a cDNA Clone for the Fourth Component of Human Complement (C4) for Analysis of a Genetic Deficiency of C4 in Guinea Pig," <i>P.N.A.S. (USA)</i> , 80, 5387-5391 (September 1983) [D,E,F]
✓	C347	Wiaderkiewicz et al., "Mismatch and blunt to protruding-end joining by DNA ligases," <i>Nucleic Acids Res</i> , 15(19), 7831-7848 (1987) [F]
✓	C348	Wide et al., "Molecular charge heterogeneity of human serum erythropoietin," <i>British J. Haemat.</i> , 76, 121-127 (1990) [F]
✓	C349	Wiktor et al., "Protection from rabies by a vaccinia virus recombinant containing the rabies virus glycoprotein gene," <i>Proc. Nat'l. Acad. Sci. (USA)</i> , 81, 7194-7198 (1984) [B]
✓	C350	Wong et al., "Synthetic peptide fragment of <i>src</i> gene product inhibits the <i>src</i> protein kinase and crossreacts immunologically with avian <i>onc</i> kinases and cellular phosphoproteins," <i>P.N.A.S. (USA)</i> , 78(12), 7412-7416 (December 1981) [A]
✓	C351	Woo, "A Sensitive and Rapid Method for Recombinant Phage Screening," <i>Methods in Enzymology</i> , 68, 389-395 (1979) [A]
✓	C352	Wood et al., "Expression of active human factor VIII from recombinant DNA clones," <i>Nature</i> , 312, 330-336 (November 22, 1984) [F] 330-337 (November 22, 1984) [F]
✓	C353	Woods et al., "Isolation of Class III cDNA Clones," <i>Second Meeting on Cloning of the HLA and H-2 Regions</i> , Abstract (April 17-19, 1983) [E]
✓	C354	Woods et al., "Isolation of cDNA clones for the human complement protein factor B, a class III major histocompatibility complex gene product," <i>P.N.A.S. USA</i> 79, 5661-5665 (Sept. 1982) [A,D,E,F]
✓	C355	Woods et al., "Isolation of a cDNA Clone Corresponding to the MHC Linked Complement Protein Factor B," <i>Mol. Immunology</i> , 19, 1411 (1982) [F]
✓	C356	Yanagawa et al., "Isolation of Human Erythropoietin with Monoclonal Antibodies," <i>J. Biol. Chem.</i> , 259(5), 2707-2710 (March 10, 1984) [A,F]
✓	C357	Yanagawa et al., "Hybridomas for Production of Monoclonal antibodies to Human Erythropoietin," <i>Blood</i> , 64(2), 357-364 (August 1984) [A,F]
✓	C358	Young et al., "Efficient isolation of genes by using antibody probes," <i>P.N.A.S.</i> 80, 1194-1198 (March 1983) [A]
✓	C359	Yuen et al., "The Spectrum of N-linked oligosaccharide structures detected by enzymic microsequencing on a recombinant soluble CD4 glycoprotein from Chinese hamster ovary cells," <i>Eur. J. Biochem.</i> , 192, 523-528 (1990) [F]
✓	C360	Zinn et al., "Regulated expression of an extrachromosomal human β -interferon gene in mouse cells," <i>P.N.A.S. (USA)</i> , 79, 4897-4901 (August 1982) [D]

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