EXHIBIT 1

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01 the above, claims <u>F13, 16, 37-37 and 59-60</u> are withdrawn from consideration. 2 Claims		
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 4. ∑ Claims <u>14</u>, <u>15</u>, <u>17</u>-36, <u>58</u> and <u>61</u>-73 are rejected. 5. Claims <u>1-72</u> are subject to restriction or election returement. 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. 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 areacceptable; and acceptable for examiner (see explanation). 18. The proposed drawing correction and/or the or proceed additional or substitute sheetits) of drawings, filed on, has there] approved by the examiner has been or association. 11. The proposed drawing correction, filed, has been or association. 12. The proposed drawing correction, filed, has been or association. 13. The proposed drawing correction, filed, has been or association. 14. The proposed drawing correction, filed, has been or association. 15. Corrections MUST be effected in accordance with the instructions set forth on the attached letter "INFORMATION ON HOW TO EFFECT DRAWING CHANCES", PTO-1414. 12. Acknowledgment is made of the claim for prionity under 35 U.S.C. 119. The certified copy has been received not been received		
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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 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

The following is a quotation of the first paragraph of 35 U.S.C. 112: The specification shall contain a written descrip-tion of the invention, and of the manner and pro-cess 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 con-templated 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 alternative 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 Kanguage. 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 invention as that of claims 13-24 and 27 of copending application 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.

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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 sub-ject 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) 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.

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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 claims14, 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 discused 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, M 6-16-86

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RAN THOMAS SUPERVISORY PATENT EXAMINE ART UNIT 127

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