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UNITED STATES DISTRICT COURT
SOUTHERN DISTRICT OF CALIFORNIA

PROMETHEUS LABORATORIES, INC.,
Plaintiff,
v.
MAYO COLLABORATIVE SERVICES
dba MAYO MEDICAL LABORATORIES
and MAY CLINIC ROCHESTER,
Defendants.

AND RELATED COUNTER-CLAIM.

Civil No. 04cv1200 JAH (RBB)

ORDER:

1. **GRANTING DEFENDANTS' MOTION FOR SUMMARY JUDGMENT OF PATENT INVALIDITY PURSUANT TO 35 U.S.C. § 101 [Doc. No. 502];**
2. **DENYING AS MOOT PLAINTIFF'S MOTION FOR SUMMARY JUDGMENT OF NO PATENT EXHAUSTION [Doc. No. 494];**
3. **DENYING AS MOOT PLAINTIFF'S MOTION FOR SUMMARY JUDGMENT OF DECLARATORY INFRINGEMENT OF PATENT NOS. 6,355,623 AND 6,680,302 [Doc. No. 439];**
4. **DENYING AS MOOT PLAINTIFF'S MOTION TO STRIKE DECLARATION OF DR. BRUCE BOSTROM [Doc. No. 549]**

INTRODUCTION

Now before the Court are three motions for summary judgment filed by the parties, and a motion to strike the declaration of Dr. Bruce Bostrom filed by Plaintiff. The motions have each been fully briefed and oral argument has been entertained. After careful consideration of the pleadings and relevant exhibits presented by the parties, the oral argument presented at the hearing, and for the reasons set forth below, this Court **GRANTS** Defendants' motion for

1 summary judgment of patent invalidity thereby invalidating the patents-in-suit as violative of
2 35 U.S.C. § 101. Accordingly, Plaintiff's motions for summary judgment of no patent
3 exhaustion and for declaratory judgment of infringement are **DENIED as moot**, and will not
4 be addressed herein. Plaintiff's motion to strike the declaration of Dr. Bruce Bostrom is also
5 **DENIED as moot**.

6 BACKGROUND

7 **A. Factual Background**

8 Plaintiff, Prometheus Laboratories ("Plaintiff" or "Prometheus"), is the exclusive licensee
9 of two patents: U.S. Patent Nos. 6,355,623 ("the '623 patent") and 6,680,302 ("the '302
10 patent") (collectively "the patents-in-suit"). The patents-in-suit involve measurements of the
11 level of certain metabolites in the blood of patients taking thiopurine drugs, including the anti-
12 Crohn's disease drug azathioprine ("AZA"), for treatment of either gastrointestinal autoimmune
13 diseases or non-gastrointestinal autoimmune diseases. The patented test provides a means to
14 measure the level of two metabolites: 6-thioguanine ("6-TG") and 6-methylmercaptopurine
15 ("6-MMP"), which, according to the patent, indicates that an adjustment in drug dosage may
16 be required at metabolite levels "greater than about 400" and "greater than about 7000,"
17 respectively, in order to avoid toxic side effects.

18 Defendants, Mayo Collaborative Services dba Mayo Medical Laboratories and Mayo
19 Clinic Rochester (collectively "Defendants" or "Mayo") developed a test ("the accused test")
20 to measure the same metabolites but using different levels, 450 6-TG and 5700 6-MMP. In
21 June 2004, Defendants announced they intended to begin use of their accused test, offering it
22 for sale to potential purchasers, but the announcement was later rescinded. The instant lawsuit
23 followed.

24 **B. Procedural History**

25 Plaintiff filed its patent infringement complaint on June 15, 2004. On January 27, 2005,
26 Defendants filed a motion for summary judgment seeking a declaration of non-infringement,
27 which this Court denied on November 22, 2005. Doc. No. 227. Plaintiff filed a cross-motion
28 for summary judgment, seeking a judicial declaration that Defendants' accused test literally

1 infringes Claim 7 of the '623 patent, which this Court granted in its November 22, 2005 order.¹
2 Defendants filed a motion seeking relief from the Court's November 22, 2005 order, which the
3 Court denied. Doc. Nos. 230 and 260.

4 On December 13, 2005, this Court granted both parties' motions to amend their
5 respective pleadings. Doc. No. 234. Plaintiff filed a first amended complaint ("FAC") on
6 December 22, 2005. Doc. No. 236. Defendants filed an answer to the FAC, along with
7 amended counterclaims, on January 13, 2006. Doc. No. 241. On April 14, 2006, the parties
8 stipulated to the filing of a second amended complaint ("SAC"). Doc. No. 267.

9 Three separate motions for summary judgment followed. On January 9, 2007, Plaintiff
10 filed a motion for summary judgment of no patent exhaustion. Doc. No. 494. Defendants filed
11 an opposition to Plaintiff's motion on February 22, 2007. Doc. No. 519. Plaintiff filed a reply
12 on March 1, 2007. Doc. No. 529.

13 Defendants filed a motion for summary judgment of patent invalidity under 35 U.S.C.
14 § 101 on January 29, 2007.² Doc. No. 502. Plaintiff filed an opposition to Defendants'
15 motion on February 28, 2007. Doc. No. 528. Defendants filed their reply on March 9, 2007.
16 Doc. No. 542. Included in Defendants' reply brief was a declaration by Dr. Bruce Bostrom.
17 Plaintiff subsequently filed a motion to strike Dr. Bostrom's declaration. Doc. No. 549.
18 Defendants filed an opposition to Plaintiff's motion and Plaintiff filed a reply. Doc. Nos. 566
19 and 568.

20 On March 8, 2007, Plaintiff filed a motion for summary judgment of declaratory
21 judgment of infringement. Doc. No. 539. Defendants filed an opposition to Plaintiff's motion
22 on April 12, 2007. Doc. No. 561. Plaintiff filed a reply on April 19, 2007. Doc. No. 565.

23 The Court rescheduled the motion hearing on the first summary judgment motions so

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25 ¹ In its November 22, 2005 order, this Court construed the following terms contained in the patents-
26 in-suit: (1) "greater than about 400" was construed to mean "any level above 340 to 460"; and
"indicates a need" was construed to mean "a warning that an adjustment in dosage may be required." Doc.
No. 227 at 18.

27 ² Defendants also filed, on January 25, 2007, a motion to strike Plaintiff's jury demand. Doc. No. 501.
28 Because Plaintiff did not oppose the motion, the Court subsequently granted the motion and struck the jury
demand. Doc. No. 546.

1 that all motions (including the motion to strike the declaration of Bruce Bostrom) could be
2 heard on the same day, May 10, 2007, and set a briefing schedule for the remaining pleadings.
3 On May 10, 2007, after all the motions were fully briefed, this Court heard oral argument from
4 the parties and took all four motions under submission.

5 On October 1, 2007, while the motions were still under submission, the parties filed a
6 joint application requesting permission to submit additional briefing on two recently decided
7 Federal Circuit cases: In re Comiskey, 499 F.3d 1365 (Fed. Cir. 2007), and In re Nuijten, 500
8 F.3d 1346 (Fed. Cir. 2007). Doc. No. 584. The Court granted the request, and on October
9 26, 2007, Defendants submitted a brief regarding Comiskey and Nuijten. Doc. No. 586.
10 Plaintiff submitted its own brief on November 9, 2007. Doc. No. 588. Defendants then
11 requested, and were granted, leave to file a reply brief, which they filed on November 19, 2007.
12 Doc. No. 590, Exhibit A. Plaintiff then submitted a sur-reply brief on November 30, 2007.
13 Doc. No. 593.

14 DISCUSSION

15 Defendants have moved for summary judgment on the grounds that the patents-in-suit
16 are invalid because they impermissibly claim unpatentable subject matter under 35 U.S.C. §
17 101. Specifically, Defendants contend that the patents impermissibly claim natural phenomena
18 – the correlations between thiopurine drug metabolite levels on the one hand and therapeutic
19 efficacy and toxicity on the other – and the claims “wholly pre-empt” use of the natural
20 phenomena. See Doc. No. 502 at 11-12.

21 **A. Legal Standards**

22 **I. Summary Judgment**

23 Summary judgment is appropriate under Rule 56(c) of the Federal Rules of Civil
24 Procedure where the moving party demonstrates the absence of a genuine issue of material fact
25 and entitlement to judgment as a matter of law. Fed. R. Civ. P. 56(c); Celotex Corp. v. Catrett,
26 477 U.S. 317, 322 (1986). A fact is material when, under the governing substantive law, it
27 could affect the outcome of the case. See Anderson v. Liberty Lobby, Inc., 477 U.S. 242, 248
28 (1986); Freeman v. Arpaio, 125 F.3d 732, 735 (9th Cir. 1997). A dispute about a material fact

1 is genuine if “the evidence is such that a reasonable jury could return a verdict for the
2 nonmoving party.” Anderson, 477 U.S. at 248.

3 A party seeking summary judgment always bears the initial burden of establishing the
4 absence of a genuine issue of material fact. See Celotex, 477 U.S. at 323. The moving party
5 may satisfy this burden in two ways: (1) by presenting evidence that negates an essential
6 element of the nonmoving party’s case or (2) by demonstrating that the nonmoving party failed
7 to make a showing sufficient to establish an element essential to that party’s case on which that
8 party will bear the burden of proof at trial. Id. at 322-23. “Disputes over irrelevant or
9 unnecessary facts will not preclude a grant of summary judgment.” T.W. Elec. Serv., Inc. v.
10 Pacific Elec. Contractors Ass’n, 809 F.2d 626, 630 (9th Cir. 1987). “The district court may
11 limit its review to the documents submitted for purpose of summary judgment and those parts
12 of the record specifically referenced therein.” Carmen v. San Francisco Unified Sch. Dist., 237
13 F.3d 1026, 1030 (9th Cir. 2001). Therefore, the court is not obligated “to scour the record in
14 search of a genuine issue of triable fact.” Keenan v. Allen, 91 F.3d 1275, 1279 (9th Cir. 1996)
15 (citing Richards v. Combined Ins. Co., 55 F.3d 247, 251 (7th Cir. 1995)). If the moving party
16 fails to discharge this initial burden, summary judgment must be denied and the court need not
17 consider the nonmoving party’s evidence. See Adickes v. S.H. Kress & Co., 398 U.S. 144, 159-
18 60 (1970).

19 If the moving party meets the initial burden, the nonmoving party cannot defeat summary
20 judgment merely by demonstrating “that there is some metaphysical doubt as to the material
21 facts.” Matsushita Elec. Indus. Co., Ltd. v. Zenith Radio Corp., 475 U.S. 574, 586 (1986); see
22 also Anderson, 477 U.S. at 252 (“The mere existence of a scintilla of evidence in support of the
23 nonmoving party’s position is not sufficient.”). Rather, the nonmoving party must “go beyond
24 the pleadings and by her own affidavits, or by the depositions, answers to interrogatories, and
25 admissions on file, designate specific facts showing that there is a genuine issue for trial.”
26 Celotex, 477 U.S. at 324 (quoting Fed. R. Civ. P. 56(e)) (internal quotations omitted).

27 When ruling on summary judgment, the court may not make credibility determinations,
28 and inferences to be drawn from the facts must be viewed in the light most favorable to the

1 party opposing the motion. Masson v. New Yorker Magazine, 501 U.S. 496 (1991); see also
2 Anderson, 477 U.S. at 249, Matsushita, 475 U.S. at 587.

3 2. Section 101

4 Defendants move for summary judgment for patent invalidity under 35 U.S.C. § 101.
5 Section 101 provides that:

6 Whoever invents or discovers any new and useful process, machine, manufacture, or
7 composition of matter, or any new and useful improvement thereof, may obtain a
patent therefore, subject to the conditions and requirements of this title.³

8 35 U.S.C. § 101.

9 The Supreme Court has construed section 101 broadly, observing that Congress intended
10 statutory subject matter to include “anything under the sun that is made by man.” Diamond
11 v. Chakrabarty, 447 U.S. 303, 309 (1980). However, it is well settled that there are
12 qualifications to the apparent sweep of this statement. In Chakrabarty, the Supreme Court
13 explained that:

14 [A] new mineral discovered in the earth or a new plant found in the wild is not
15 patentable subject matter. Likewise, Einstein could not patent his celebrated law that
16 $E = mc^2$; nor could Newton have patented the law of gravity. Such discoveries are
‘manifestations of . . . nature, free to all men and reserved exclusively to none.’

17 447 U.S. at 309 (quoting Funk Bros. Seed Co. v. Kalo Inoculant Co., 333 U.S. 127, 130
18 (1948)). Accordingly, the Supreme Court has specifically excluded from patentable subject
19 matter: “laws of nature, natural phenomena, and abstract ideas.” Diamond v. Diehr, 450 U.S.
20 175, 185 (1981). As the Court explained, “[p]henomena of nature, though just discovered,
21 mental processes and abstract intellectual concepts are not patentable, as they are the basic
22 tools of scientific and technological work.” Gottschalk v. Benson, 409 U.S. 63, 67 (1972).

23 In assessing patentability under section 101 in the context of method patents, the
24 Supreme Court has explained that a method patent is not invalid “simply because it contains
25 a law of nature or a mathematical algorithm.” Parker v. Flook, 437 U.S. 584, 590 (1978). But,
26 if the claim “recites” a law of nature or a mathematical algorithm, the court must analyze

27 ³The word “process” is defined in 35 U.S.C. § 100(b): “The term ‘process’ means process, art, or
28 method, and includes a new use of a known process, machine, manufacture, composition of matter, or
material.”

1 whether the claim is seeking patent protection for the phenomenon “in the abstract” or whether
2 the claim implements a natural phenomenon “in a structure or process which, when considered
3 as a whole, is performing a function which the patent laws were designed to protect.” Diehr,
4 450 U.S. at 191. Thus, where the claim “wholly pre-empts” all uses of the natural phenomenon
5 or abstract idea such that the “practical effect is a patent on the [phenomenon] itself” the claim
6 is invalid under section 101. Benson, 409 U.S. at 71-72; see also Diehr, 450 U.S. at 187.

7 It is also important to note that “[p]atentability does not depend on which form the claim
8 takes.” Nuijten, 500 F.3d at 1362. As the Supreme Court has repeatedly explained, an
9 “unpatentable principle” will not transform into a “patentable process” simply by adding
10 conventional method steps. Flook, 437 U.S. at 588-90; see also Diehr, 450 U.S. at 191-92.
11 If such were the case, “the determination of patentable subject matter [would] depend simply
12 on the draftman’s art.” Id. at 593.

13 Whether a patent claim is invalid for failure to comply with section 101 is a question of
14 law appropriate for summary judgment. AT&T Corp. v. Excel Comm. Inc., 172 F.3d 1352,
15 1355 (Fed. Cir. 1999). When conducting the section 101 analysis, the claims must be
16 examined “as a whole.” Diehr, 450 U.S. at 188. The Supreme Court has specifically cautioned
17 that it is “inappropriate to dissect the claims into old and new elements and then to ignore the
18 presence of the old elements in the analysis.” Id. at 188. Moreover, it is improper to consider
19 the “novelty” of an element or step in a process claim. Id. at 188-89. Instead, novelty is a
20 separate requirement set forth in 35 U.S.C. § 102.

21 Finally, Defendants who are challenging the validity of the claims of the patents-in-suit
22 must show that the claims at issue are invalid by clear and convincing evidence. Minnesota
23 Mining and Mfg. Co. v. Chemque Inc., 303 F.3d 1294, 1301 (Fed. Cir. 2002). Thus,
24 Defendants must show by clear and convincing evidence that the claims at issue (1) recite a
25 “natural phenomenon,” and (2) “wholly pre-empt” use of said phenomenon.

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1 **B. Analysis**

2 Defendants contend that (1) the patents-in-suit claim the “correlation between the recited
3 metabolite levels and therapeutic efficacy and/or toxicity” which is an unpatentable “natural,
4 observable phenomenon”; and (2) the patents impermissibly preempt use of the correlation.
5 Doc. No. 502 at 11, 13.

6 **I. Recitation of Unpatentable Natural Phenomena**

7 The first step in determining patentability under section 101 is to determine whether the
8 claims “recite” a “natural phenomenon.” See Diehr, 450 U.S. at 187; see also In re Meyer, 688
9 F.2d 789, 795 (C.C.P.A. 1982). For the reasons set forth below, this Court finds the patents-in-
10 suit claim the correlations between certain thiopurine drug metabolite levels and therapeutic
11 efficacy and toxicity, and said correlations are natural phenomena.

12 **a. The Patents-in-Suit Recite the Correlations**

13 Defendants assert that the patents-in-suit recite the correlation between thiopurine drug
14 metabolite levels on the one hand and therapeutic efficacy and toxicity on the other. See Doc.
15 No. 502 at 11-12. According to Defendants, the patents contain these correlations in the
16 “wherein” clauses at the end of each claim. Though the “wherein” clauses are preceded by two
17 steps – (1) “administering” a drug and (2) “determining” metabolite levels – Defendants argue
18 that because both these steps have been performed in the prior art for decades, and each is a
19 necessary step to making any use of metabolite levels, the claims cover the correlations
20 themselves. Plaintiff counters that the claims at issue do not “recite” the correlations, rather
21 the claims recite treatment methods which do not run afoul of section 101. See Doc. No. 528
22 at 1 n.1, 13.

23 Plaintiff has framed the patents-in-suit as treatment methods in that the claims purport
24 to cover a “method for optimizing therapeutic efficacy” and/or “reducing toxicity” in patients
25 taking AZA drugs for treatment of either gastrointestinal autoimmune diseases or non-
26 gastrointestinal autoimmune diseases. For example, Claim 1 of the ’302 patent states:

- 27 1. A method of optimizing therapeutic efficacy for treatment of an immune mediated
28 gastrointestinal disorder, comprising:
(a) administering a drug providing 6-thioguanine to a subject having said
immune-mediated gastrointestinal disorder; and
(b) determining the level of 6-thioguanine in said subject having said

1 immune-mediated gastrointestinal disorder wherein the levels of 6-thioguanine less than
2 about 230 pmol per 8×10^8 red blood cells indicates a need to increase the amount of said
3 drug subsequently administered to said subject and wherein the levels of 6-thioguanine
greater than about 400 pmol per 8×10^8 red blood cells indicates a need to decrease the
amount of said drug subsequently administered to said subject.

4 In the summary judgment order filed November 22, 2005, this Court construed the “indicates
5 a need” language found in the “wherein” clause to mean “when the identified metabolites reach
6 the specified level, the doctor is warned or notified that a dosage adjustment may be required.”
7 Doc. No. 227 at 17. As construed, the claims have three steps: (1) administer the drug to a
8 subject; (2) determine metabolite levels; and (3) be warned that an adjustment in dosage may
9 be required.

10 However, the fact that the inventors have framed the claims as “treatment methods” does
11 not make the claims patentable. Indeed, “one can reduce any process to a series of steps. The
12 question is what those steps embody.” Lab. Corp. of Am. Holdings v. Metabolite, Inc., 126
13 S.Ct. 2921 (2006) (Breyer, J., dissenting from dismissal of certiorari) (emphasis in original); see
14 also In re Grams, 888 F.2d 835, 839 (Fed. Cir. 1989) (explaining that the critical question is:
15 “What did applicants invent?”) (quoting In re Abele, 684 F.2d 902, 907 (C.C.P.A. 1982)).

16 Here, a careful review of the claims of the patents-in-suit reveals that the steps embody
17 only the correlations themselves. First, the “administering” and “determining” steps are merely
18 necessary data-gathering steps for any use of the correlations. However, an “unpatentable
19 principle” will not transform into a “patentable process” simply by adding conventional method
20 steps. Flook, 437 U.S. at 588-90; accord Meyer, 688 F.2d at 794 (“[data-gathering] step[s]
21 cannot make an otherwise nonstatutory claim statutory”). Thus, the Court must look to the
22 third step to determine what the applicants claim to have invented. However, as construed, the
23 final step – the “warning” step (i.e. the “wherein” clause) – is only a mental step. That is, the
24 “warning” step does not require that dosage be adjusted, or any other action. Indeed, contrary
25 to Plaintiff’s assertion, the “warning step” does not require that the doctor (or any person)
26 “provide” a warning. See Doc. No. 528 at 14. Rather, it is the metabolite levels themselves
27 that “warn” the doctor that an adjustment in dosage may be required.

28 Thus, the claims include only two active steps: “administering” the drug and
“determining” metabolite levels, which are merely data-gathering steps; plus the additional

1 mental step that the doctor be warned (by the metabolite levels) that an adjustment in dosage
2 may be required. Therefore, the claims recite the correlations themselves. That is, what the
3 inventors claim to have discovered is that particular concentrations of 6-TG and 6-MMP
4 correlate with therapeutic efficacy and toxicity in patients taking AZA drugs.

5 **b. The Correlations Are Natural Phenomena**

6 Because the patents-in-suit claim the correlations, the Court must next determine whether
7 the correlations are “natural phenomena.” Defendants argue that the correlation between
8 thiopurine drug metabolite levels and therapeutic efficacy and toxicity results from innate
9 metabolic activity in the human body, and the correlations are therefore “natural phenomena.”
10 Doc. No. 542 at 5.⁴ Plaintiff counters that the claimed correlations cannot be natural
11 phenomena because the correlations would not have existed without the intervention of man-
12 made drugs.⁵ Doc. No. 528 at 8.

13 This Court finds that there can be little doubt that the claimed correlations are “natural
14 phenomena.” According to Plaintiff’s own expert, Dr. Bloomfield, “the key therapeutic aspect

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16 ⁴Doc. No. 542 is Defendants’ reply in support of their motion for summary judgment of patent
17 invalidity. Defendants submitted, in support of their reply brief, the declaration of Dr. Bruce Bostrom, which
18 declaration Plaintiff separately moves to strike. See Doc. No. 549. Specifically, Plaintiff contends (1) Dr.
19 Bostrom presents purely expert opinion but was not disclosed as an expert witness during discovery; (2) to the
20 extent Dr. Bostrom’s declaration is factual, Defendants also never disclosed him as a fact witness during
21 discovery; and (3) Defendants should have presented the declaration with their moving papers and the late
22 presentation is prejudicial to Plaintiff. Plaintiff argues that the declaration should be stricken for any of these
23 reasons. See id. In the alternative, if the Court does not strike the declaration, Plaintiff requests it be
24 permitted to file a sur-reply and attaches a proposed sur-reply to the motion as an exhibit. See id., Exh. A.
25 Defendants filed an opposition to Plaintiff’s motion to strike and Plaintiff filed a reply to Defendants’
26 opposition. However, this Court has not considered Dr. Bostrom’s declaration in deciding the instant motion
27 and, therefore, Plaintiff’s motion to strike is DENIED as moot.

28 ⁵ Plaintiff contends “Congress has not excluded treatment methods or discovered correlations occurring
from a man-made drug from patent protection and, in fact, has rejected proposed legislation to make treatment
methods unpatentable. Id. (citing Morgan Decl., Exh. 11 (1995 Cong. U.S. HR 1127 (104th Congr., 1st
Sess.)). The bill proposed that “a patent may not be issued for any invention or discovery of a technique,
method, or process for performing a surgical or medical procedure, administering a surgical or medical therapy,
or making a medical diagnosis, except that if the technique, method, or process is performed by or as a
necessary component of a machine, manufacture, or composition of matter or improvement thereof which is
itself patentable subject matter, the patent on such machine, manufacture, or composition of matter may claim
such technique, method, or process.” 1995 Cong. HR 1127 (104th Congr., 1st Sess.). However, Defendants,
in reply, urge the Court to ignore this irrelevant point because the failure to enact this legislation provides no
support for the validity of the claims at bar. Doc. No. 542 at 14. This Court agrees with Defendants. The fact
that Congress rejected legislation making treatment methods unpatentable is irrelevant, and not an appropriate
basis for a determination of Congressional intent.

1 of such thiopurine drugs is that they are converted *naturally* by enzymes within the patient's
2 body to form an agent that is therapeutically active.” Doc. No. 542, Exh. R ¶ 15 (emphasis
3 added). Moreover, Dr. Seidman, one of the patents’ inventors, concedes that the inventors
4 merely observed these natural correlations by studying a “database of patient’s information”
5 which included patients taking 6-MP drugs. See Doc. No. 502, McClenahan Decl., Exh. K at
6 103-105. Dr. Seidman further testified that he believes the correlation still exists in the current
7 patient population. Thus, the inventors of the patents-in-suit did not “invent” the claimed
8 correlation. Rather, 6-TG and 6-MMP are products of the natural metabolizing of thiopurine
9 drugs, and the inventors merely observed the relationship between these naturally produced
10 metabolites and therapeutic efficacy and toxicity.

11 The case law supports this conclusion. In Funk Bros., for example, an inventor discovered
12 a previously unknown feature of certain types of bacteria – that they could, “by certain methods
13 of selection and testing, be isolated and used in mixed cultures” without inhibiting the
14 properties of one another. 333 U.S. at 130. The patents at issue in that case claimed an
15 inoculant for crops comprising a combination of these bacteria. Id. at 128, n.1. The Supreme
16 Court held the claims invalid. The Court explained that the inventor did not “create” the “state
17 of inhibition or non-inhibition in bacteria.” Id. at 130. Rather, “[t]heir qualities are the work
18 of nature.” Id.

19 The same is true in the present case. The inventors here did not “create” the correlation
20 between thiopurine drug metabolite levels and therapeutic efficacy and toxicity. Instead, the
21 correlation results from a natural body process, which as the inventors concede, was pre-existing
22 in the patient population, and it exists in the patient population today. Thus, just as in Funk
23 Bros., the claimed correlations are “the work of nature.”

24 The facts of the present case are also similar to those of Lab. Corp.⁶ The patent in Lab.
25 Corp. claimed a method of measuring the level of an amino acid, called homocysteine, in the

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27 ⁶The Court takes note of Plaintiff’s objections to the Lab Corp. opinion, namely that the opinion is not
28 binding precedent and the dissent was issued on an incomplete record. And although at the time of the
hearing on Defendants’ motion this Court was not of the opinion that Lab. Corp. is directly relevant, after
further review, this Court now finds that while Lab. Corp. does not hold precedential value, its reasoning is
persuasive and relevant. A review of the case law in this area reveals that Lab Corp. is the case that is most
factually similar to the present case. Thus, the Court would be remiss to ignore the case entirely.

1 blood, which correlated with a deficiency in two vitamins: cobalamin and folate. Lab. Corp.,
2 126 S.Ct. at 2923-24. At the trial level, Lab. Corp. (the alleged infringers) did not argue
3 invalidity under section 101, and instead based their invalidity arguments on other grounds.
4 See Metabolite Labs., Inc. v. Lab. Corp. of Am. Holdings, 370 F.3d 1354 (Fed. Cir. 2004). The
5 Federal Circuit, on appeal, rejected the invalidity arguments without addressing section 101.
6 Id. The Supreme Court granted certiorari in order to determine whether the claim was invalid
7 on the grounds that it improperly seeks to “claim a monopoly over a basic scientific
8 relationship,” Pet. for Cert. i, namely, the relationship between homocysteine and vitamin
9 deficiency. Lab. Corp., 126 S.Ct. at 2922. However, the Court never reached the issue because
10 the writ was subsequently dismissed as improvidently granted apparently because the issue was
11 not raised below. Id.

12 Nonetheless, Justice Breyer (joined by Justices Stevens and Souter), dissented from the
13 dismissal of certiorari, and presented a lengthy dissenting opinion explaining why the patent
14 should be found invalid under section 101. See id. at 2922-29. Justice Breyer, after reviewing
15 the relevant cases in the subject area, stated:

16 Even were I to assume (purely for argument’s sake) that [the claim] meets certain
17 general definitions of process patentability, however, it still fails the one at issue
18 here: the requirement that it not amount to a simple natural correlation, *i.e.*, a
19 ‘natural phenomenon’ . . .

20 At most, respondents have simply described the natural law at issue in the abstract
21 patent language of a ‘process.’ But they cannot avoid the fact that the process is no
22 more than an instruction to read some numbers in light of medical knowledge. One
23 might, of course, reduce the ‘process’ to a series of steps, *e.g.*, Step 1: gather data;
24 Step 2: read a number; Step 3: compare the number with the norm; Step 4: act
25 accordingly. But one can reduce *any* process to a series of steps. The question is
26 what those steps embody. And here, aside from the unpatented test, they embody
27 only the correlation between homocysteine and vitamin deficiency that the
28 researchers uncovered. In my view, that correlation is an unpatentable ‘natural
phenomenon’ and I can find nothing in [the claim] that adds anything more of
significance.

24 Id. at 2928 (Breyer, J., dissenting from dismissal of certiorari) (internal citations omitted)
25 (emphasis in original).

26 Although this Court notes that the dissent in Lab. Corp. does not have precedential value,
27 the Court finds Justice Breyer’s reasoning persuasive. Indeed, the claims in the patents-in-suit
28 are clearly analogous to the claim in Lab. Corp. The claim at issue in Lab Corp. comprised two

1 steps: “[(1)] assaying a body fluid for an elevated level of total homocysteine; and [(2)]
2 correlating an elevated level of total homocysteine in said body fluid with deficiency of
3 cobalamin or folate.” Id. at 2924. The “assaying” step in Lab Corp. is akin to the
4 “administering” and “determining” steps in the claims of the patents-in-suit as both are
5 necessary steps for any use of the correlations. Similarly, Lab Corp.’s “correlating” step is akin
6 to the “wherein” clause in the present case as both recite the claimed correlation. Thus, the
7 same reasoning that led Justice Breyer to conclude that the correlation between elevated
8 homocysteine levels and deficiency of cobalamin or folate is a natural phenomenon supports
9 the finding that the correlation between thiopurine drug metabolite levels and therapeutic
10 efficacy and toxicity is a natural phenomenon.

11 Plaintiff argues, however, that the claimed correlations cannot be found to be natural
12 phenomena because the correlations would not have existed without the intervention of man-
13 made drugs. Plaintiff points out that thiopurine drugs are man-made drugs. Doc. No. 528 at
14 10. When these drugs are introduced into the body, they metabolize “to form an ‘active
15 metabolite’ which then treats the patient’s disease.” Id. at 10-11. Thus, according to Plaintiff,
16 because “the 6-TG and 6-MMP metabolites do not naturally exist in the body . . . [and would
17 not exist] but for the administration of a man-made drug” the claimed correlations cannot be
18 deemed “natural phenomena.” Id. at 11. In support of this argument, Plaintiff cites to cases
19 where courts have upheld as patentable claims involving the efficacy of man-made
20 compositions, see e.g., Merck & Co. v. Teva Pharm., Inc., 347 F.3d 1367, 1369, 1372 (Fed.
21 Cir. 2003), as well as claims involving portions of genes and proteins (which do not exist in
22 nature). See e.g., Fiers v. Revel, 984 F.2d 1164, 1166, 1172 (Fed. Cir. 1993).

23 However, in the Court’s view, the cases Plaintiff cites do not support the patentability of
24 the claims because the claims in the present case, unlike the claims in the cases cited by
25 Plaintiff, do not cover the man-made compositions themselves or use of man-made
26 compositions to treat inflammatory bowel disease or autoimmune diseases. In Merck, for
27 example, the claims covered a method for treating osteoporosis through the administration of
28 a bisphosphonic acid, a man-made composition. 347 F.3d at 1369. The claims at issue in that
case specifically covered use of the acid in the treatment method. Id. at 1369. This contrasts

1 with the present case where the claims cover the correlations themselves, rather than use of the
2 man-made composition to treat the targeted disease, as this Court has already found. Because
3 the patents-in-suit claim the correlations, the relevant inquiry is whether the correlations are
4 “man-made,” not whether a man-made drug was used to produce the correlation.⁷

5 Again, the present case is most similar to Funk Bros. In that case, the claimed
6 combination of bacteria was “man-made.” That is, the claimed strains of bacteria had to be
7 manually isolated and mixed, and therefore would not exist in nature without human
8 intervention. 333 U.S. at 130. Despite this human intervention, the claim was nonetheless
9 unpatentable under section 101. Id. at 132. As such, per Funk Bros., claims do not gain
10 patentability simply by including man-made compositions. Thus, the patents-in-suit do not
11 gain patentability solely by virtue of the fact that man-made drugs are used in connection with
12 the claimed correlation.

13 The recent Federal Circuit case, Nuijten, further supports this finding. Nuijten concerned
14 a patent application which disclosed “a technique for reducing distortion induced by the
15 introduction of ‘watermarks’ into signals.” 500 F.3d at 1348. The court analyzed whether
16 Nuijten’s “signal claim” fell within any of the four statutory classes of patentable subject matter:
17 process, machine, manufacture, or composition of matter. Id. at 1353. Ultimately, the court
18 concluded that the claim was unpatentable because it did not fit within any of the statutory
19 categories. Id. at 1357. In ruling that the claim was not a “manufacture” the court explained
20 that the claimed signal was “man-made, in the sense of having been encoded, generated, and
21 transmitted by artificial means,” however “artificiality is insufficient by itself to render
22 something a ‘manufacture.’” Id. at 1356. Thus, the fact that the claimed signal was “man-
23 made” did not automatically make the claim patentable. To the contrary, although the claimed
24 signal was “man-made,” it was still unpatentable.⁸

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26 ⁷This same reasoning makes Fiers inapposite as well. Plaintiff cites to Fiers merely because it involved
27 man-made compositions – purified DNA. Plaintiff argues that if claims to portions of genes and proteins
(which do not exist in nature) are not “natural phenomenon” then the correlations cannot be “natural
phenomenon” either. Doc. No. 528 at 11.

28 ⁸Plaintiff’s argument that Nuijten is “irrelevant to the present case” is to no avail. Doc. No. 588 at 25.
Plaintiff would have the Court believe that the Nuijten holding “had nothing to do with whether or not the
claimed subject matter was ‘man-made.’” Id. This is incorrect. The Federal Circuit’s finding that the claimed

1 In short, the correlation between particular 6-TG and 6-MMP metabolite levels and
2 therapeutic efficacy and toxicity is not an “invention.” Rather, 6-TG and 6-MMP are products
3 of the natural metabolizing of thiopurine drugs, and the inventors merely discovered the
4 relationship between these naturally produced metabolites and therapeutic efficacy and toxicity.

5 2. Preemption

6 Because the Court has determined that the claims of the patents-in-suit recite a natural
7 phenomenon, the Court must next determine whether the claims “wholly pre-empt” use of the
8 natural phenomenon such that the “practical effect is a patent on the [phenomenon] itself.”
9 Benson, 409 U.S. at 71-72; see also Diehr, 450 U.S. at 187. Defendants argue that because
10 the “administering” and “determining” steps are necessary to using the correlations, Plaintiff’s
11 claims “wholly pre-empt” use of the correlations in violation of Supreme Court precedent, and
12 are thus invalid under section 101. Doc. No. 502 at 13-14. In opposition, Plaintiff argues
13 first, that the relevant tests is the alternative “transformation/results” test not the preemption
14 test. See Doc. No. 528 at 7-8. Second, even if the Court applies the preemption test, the
15 claims do not “wholly pre-empt” all uses of the correlations. This Court finds that (a) the
16 preemption test is the relevant test and (b) Plaintiff’s claims “wholly pre-empt” use of the
17 correlations.

18 a. The Preemption Test

19 The case law is clear, if a claim that recites unpatentable subject matter “wholly pre-empts”
20 all practical use of the unpatentable subject matter, the claim is invalid under section 101.
21 Benson, 409 U.S. at 71-72; see also Diehr, 450 U.S. at 187. Benson involved an attempt to
22 patent “a method of programming a general-purpose digital computer to convert signals from
23 binary-coded decimal form into pure binary form.” Id. at 65. The conversion was achieved
24 through use of an algorithm, defined as “[a] procedure for solving a given type of mathematical
25 problem.” Id. at 67. The claims “were not limited to any particular art or technology, to any

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signal was “man-made” and yet not a “manufacture,” was one of several reasons why the court ultimately
determined that the claim was unpatentable. Thus, Nuijten confirms that claims do not gain patentability
simply because they incorporate something that is “man-made.” Finally, Plaintiff’s argument that Nuijten is
irrelevant because the present case recites “a process” is similarly unpersuasive. As the Court already found,
although the patents-in-suit are framed as “method claims,” they claim the correlations themselves.

1 particular apparatus or machinery, or to any particular end use.” Id. at 64. The Supreme Court
2 concluded that because the claimed process “has no substantial practical application except in
3 connection with a digital computer” the patent “would wholly pre-empt the mathematical
4 formula and in practical effect would be a patent on the algorithm itself.” Id. at 71-72. For this
5 reason, the Court held the patent invalid. Benson is binding Supreme Court precedent, and the
6 preemption test articulated therein is clearly applicable to the present case.

7 Moreover, contrary to Plaintiff’s contention, Defendants need not meet the additional
8 burden of showing that the claims do not “transform” an article or physical object to a different
9 state or thing and/or do not produce a “useful, concrete and tangible result.” Doc. No. 528 at
10 7-8 (citing AT&T, 172 F.3d at 1357-58). The case law in this area reveals that the additional
11 showing urged by Plaintiff is not required. In Flook, for example, the Supreme Court did not
12 even mention the alternative transformation/result standard, and instead focused on whether
13 the claims “wholly pre-empt” all uses of the natural phenomenon. 437 U.S. at 589-90.⁹ Also,
14 although Comiskey mentions the “transformation” test, it does so in regards to process patents
15 reciting algorithms or abstract concepts in claims directed to industrial processes. Such claims
16 clearly differ from those in the present case. The Comiskey court specifically noted that
17 “process claims not limited to claiming an abstract concept or algorithm (i.e., a mental process)
18 **may not be subject to the same requirements.**” 499 F.3d at 1377 n.12 (emphasis added).

19 As for the “useful, concrete and tangible result” standard, the Supreme Court has never
20 applied that standard. See Lab. Corp., 126 S. Ct. at 2928 (pointing out that the Supreme
21 Court has never held “that a process is patentable if it produces a ‘useful, concrete, and tangible
22 result’ . . . and if taken literally, the statement would cover instances where this Court has held
23 the contrary”) (Breyer, J., dissenting). Furthermore, while the Federal Circuit has applied the
24 standard, it has always done so in the context of computer-related inventions involving
25 algorithms for data manipulation. See e.g., State Street Bank and Trust Co. v. Signature Fin.
26 Group, Inc., 149 F.3d 1368 (Fed. Cir. 1998).

27
28 ⁹During oral argument, Plaintiff argued that Flook was “overruled” by the Supreme Court in Diehr.
See May 10, 2007 Hearing Transcript at 38:14-24. However, in Comiskey, the Federal Circuit repeatedly
cited Flook and also explained the case. 499 F.3d at 1371, 1375, 1376, 1377-78. This confirms that Flook
remains good law.

1 Thus, this Court finds that the claims at issue are not subject to either the transformation
2 test or the “useful, concrete and tangible” result test.

3 **b. The Claims “Wholly Pre-empt” the Use of the Correlation**

4 Defendants argue that the claims “wholly pre-empt” use of the correlation because the
5 only practical use of the correlation is in drug treatment for gastrointestinal autoimmune
6 diseases and non-gastrointestinal autoimmune diseases, and anyone seeking to employ the
7 correlation must conduct the only active steps recited in the claims – administer the drug and
8 determine metabolite levels. Doc. No. 502 at 13-15. This Court agrees.

9 This Court has already found that the claims recite the correlations. Specifically, the
10 Court has found that the “administering” and “determining” steps are merely necessary data-
11 gathering steps for any use of the correlations, and the “warning” step is only a mental step
12 whereby the metabolite levels warn the doctor that an adjustment in dosage may be required.
13 Thus, the claims cover the correlations themselves. That is, what the inventors claim to have
14 discovered is that particular concentrations of 6-TG and 6-MMP correlate with therapeutic
15 efficacy and/or toxicity in patents taking AZA drugs. Because the claims cover the correlations
16 themselves, it follows that the claims “wholly pre-empt” the correlations.

17 For the same reason, the Court rejects Plaintiff’s argument that it may preclude others
18 from using the correlations “in conjunction with all the other steps in their claimed process.”
19 Doc. No. 528 at 19 (citing Diehr, 450 U.S. at 187; Arrhythmia Research Tech., Inc. v.
20 Corazoniz Corp., 958 F.2d 1053, 1059 (Fed. Cir. 1992)). Again, the only “other steps” recited
21 in the claims are the “administering” and “determining” steps, which are necessary data-
22 gathering steps. And, the inclusion of such steps cannot “transform an unpatentable principle
23 into a patentable process.” Diehr, 450 U.S. at 191-192.

24 The Court also finds Plaintiff’s supposed examples of other permissible uses of the
25 correlations unavailing. Doc. No. 528 at 19-20. First, the law does not require that every
26 conceivable use be preempted to invalidate the claim. Rather, it is enough that the
27 unpatentable subject matter recited in the claims has “no substantial practical application”
28 outside the context of the claims. Benson, 409 U.S. at 71-72. In Benson, the Court found that
the mathematical formula involved in that case had “no substantial practical application except

1 in connection with a digital computer.” Id. Thus, a patent which claimed “a method of
2 programming a general-purpose digital computer to convert signals from binary-coded decimal
3 form into pure binary form” through the use of a mathematical formula would “wholly pre-empt
4 the mathematical formula and in practical effect would be a patent on the algorithm itself.” Id.
5 at 65, 71-72. The same is true in the present case. Because the correlations have “no
6 substantial practical application” outside of the treatment for immune mediated gastrointestinal
7 disorders and autoimmune diseases, it does not matter that uses outside of this context are not
8 foreclosed.

9 Second, the alternate uses cited by Plaintiff as not being preempted do not change the fact
10 that the “practical effect” of the patent would be a “patent on the [phenomenon] itself.” Id.
11 at 72. Plaintiff outlines six possible uses not foreclosed by the claimed methods: (1) use in
12 research; (2) for diseases other than autoimmune or gastrointestinal diseases;¹⁰ (3) use when
13 results are given in units other than red blood cells; (4) building upon the correlations; (5)
14 publishing articles in scientific journals concerning the correlations; and (6) testing and
15 determining metabolite levels so long as no warning is given. Doc. No. 528 at 20. None of
16 these uses, however, make the subject claims patentable. In Benson, the claimed algorithm
17 could have been used in research and scientific journals could have published articles about it,
18 however, the claim was still invalid. Also, as discussed above, there are no known practical uses
19 other than treatment for autoimmune or gastrointestinal diseases. Thus, the fact that uses for
20 other diseases are not foreclosed, if true, is of no consequence. Finally, that testing and
21 determining metabolite levels is not preempted “so long as the doctors are not warned that
22 doses may need to be adjusted” does not aid Plaintiff’s argument because under this scenario
23 the correlations would not be used at all. Thus, despite these supposed alternate uses, the
24 claims “wholly pre-empt” use of the correlation such that the “practical effect is a patent on the
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27 ¹⁰The Court notes that Plaintiff’s position taken here is inconsistent with the record in this case.
28 Plaintiff has accused Defendants’ researcher, Dr. Rokea el-Azhary, of infringement for conducting a study to
determine whether there were different correlations for dermatologic diseases than for gastrointestinal diseases.
Plaintiff’s expert opined that this research amounted to infringement, and at oral argument, Plaintiff argued
that its claims covered dermatologic diseases. See May 10, 2007 Hearing Transcript at 21:10-13.

1 [correlation] itself.” Benson, 409 U.S. at 71-72.¹¹

2 3. In re Comiskey Cannot Save Plaintiff’s Claims

3 The recent Federal Circuit case In re Comiskey does not change the result. Plaintiff argues
4 that even if the Court determines that the correlations are natural phenomena, Comiskey
5 demonstrates that the inclusion of patentable subject matter (i.e. machines) in the claim makes
6 the claims patentable under section 101. Doc. No. 593 at 1. The Court disagrees. First, this
7 Court notes that Comiskey is not directly on point because the facts of that case are wholly
8 dissimilar from the facts of the present case. Second, contrary to Plaintiff’s argument,
9 Comiskey does not hold that the inclusion of a machine in the claim automatically makes the
10 claims patentable. Third, if the Court were to apply the Comiskey analysis to the present case,
11 the claims of the patents-in-suit are still unpatentable under section 101.

12 Comiskey involved an application for a business method patent on a system of mandatory
13 arbitration of disputes involving legal documents such as wills and contracts. 499 F.3d at 1368.
14 Some of the claims contained multiple mental steps, but did not require the use of any
15 technology, while other claims required the use of a computer or other device to perform the
16 steps of the method. Id. at 1369, 1379. Indeed, the later claims recited the use of technology
17 in the claims themselves: “wherein access to the mandatory arbitration is established through
18 the Internet, intranet, World Wid Web, software applications, telephone, television, cable,
19 video [or radio], magnetic, electronic communication, or other communication means.” Id. at
20 1379. The Federal Circuit reviewed the claims for compliance with section 101, and held that
21 the claims which did not require the use of a computer amounted to abstract mental processes
22 that could not be patented under section 101. Id. at 1381. At the same time, however, the

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24 ¹¹Plaintiff seeks to bolster its claims by distinguishing Benson and instead relying on Chakrabarty and
25 Arrhythmia. See Doc. No. 528 at 21. Plaintiff argues that Benson is inapplicable because the claim in that case
26 was only to the mathematical algorithm and included no limitation to any art, technology, or use. Id. Instead,
27 Plaintiff points to Chakrabarty and Arrhythmia as support for its argument that the claims do not wholly
28 preempt use of the correlations. However, this Court has already held that the claims in this case, similar to
the claims in Benson, are only to the correlations themselves. Moreover, Chakrabarty is distinguishable on its
facts. The claims in that case were to a new, non-naturally occurring bacterium. Conversely, in the present
case the inventors did not invent a new organism, rather, they merely discovered an unpatentable natural
correlation. Arrhythmia is also inapposite. In that case the court applied the so-called Freeman-Walter-Abele
test, which the Federal Circuit has since held “has little, if any, applicably to determining the presence of
statutory subject matter.” See Arrhythmia, 958 F.2d at 1059-60; State Street, 149 F.3d at 1374.

1 court held that the claims which required the use of a computer or other device claimed
2 patentable subject matter under section 101 (though the claims were remanded so the Patent
3 Office could determine whether the use of the technology would have been non-obvious under
4 35 U.S.C. § 103). Id. In reaching this decision, the court explained that “while the mere use
5 of the machine to collect data necessary for application of the mental process may not make the
6 claim patentable subject matter, these claims in combining the use of machines with a mental
7 process, claim patentable subject matter.” Id. at 1380 (citations omitted). Thus, the
8 distinction between the patentable claims and the unpatentable claims was whether the claims
9 were “tied to a particular apparatus.” Id. at 1379.

10 Relying on Comiskey, Plaintiff argues that the patents-in-suit meet the requirements of
11 section 101 because the claims “involve specific machines.” Doc. No. 593 at 2. According to
12 Plaintiff, the asserted claims of the patents-in-suit “inherently require” the use of “specific
13 machines” to detect the levels of metabolites. Doc. No. 588 at 14. “These machines include
14 a detector, a pump and an injector.” Id. Moreover, Plaintiff asserts, “dependent claims 6, 14,
15 24, 30 and 53 of the ‘623 Patent expressly require the use of a machine capable of performing
16 high pressure liquid chromatography (HPLC).” Id. Thus, according to Plaintiff, the claims are
17 patentable.

18 However, even assuming *arguendo* that Comiskey is applicable, Plaintiff’s reading of the
19 case is too broad. Plaintiff would have the Court find that under Comiskey, any “involvement”
20 of a machine or composition of matter in a method claim is enough to render the claims
21 patentable under section 101. See id. at 1. However, prior case law suggests that this is not
22 the rule. Instead, the Supreme Court has previously held claims unpatentable under section
23 101 even though they “involve” a machine or composition of matter. In Flook the Supreme
24 Court held claims invalid under section 101 even though they involved the catalytic chemical
25 conversion of hydrocarbons, which are compositions of matter. 437 U.S. at 596. Similarly, in
26 Benson the patentees sought to claim “a method of programming a general-purpose digital
27 computer to convert signals from binary-coded decimal form into pure binary form,” and
28 despite the clear involvement of a computer, the Court held the claims unpatentable under
section 101. 409 U.S. at 65. The Federal Circuit has done the same. In Grams the court held

1 claims unpatentable under section 101 even though one step of the claim required the use of
2 a machine. 888 F.2d at 836. In that case the claims covered a “method of diagnosing an
3 abnormal condition in an individual.” Id. The first, and only physical, step in the claim was
4 “performing clinical tests on individuals to obtain data.” Id. at 840. The clinical tests were
5 “produced by a standard chemical analyzer that measures the levels of the chemical biological
6 components,” i.e. a machine. Nonetheless, the Federal Circuit held the claims unpatentable
7 under section 101. The difference between those cases and Comiskey is that in Flook, Benson
8 and Gram the use of the machine or composition of matter was merely incidental, while in
9 Comiskey the machine was “tied to” the operation of the claim and in fact recited in the claim.
10 Thus, the better reading of Comiskey is that claims which are “tied to a particular apparatus”
11 may be invalid, while claims that involve machines in a merely incidental fashion are not
12 foreclosed.

13 Applying Comiskey to the present case, the patents-in-suit would be invalid if the claims
14 were “tied to a particular apparatus.” However, this is not the case. Rather, the machines
15 identified by Plaintiff are merely incidental to the claims just as in Flook, Benson and Grams.
16 The present case is most similar to Grams as the “determining” step in the present case is
17 analogous to the “performing” step in Grams. In both instances, the mere involvement of a
18 machine in a data-gathering step cannot render the claim statutory. See Grams, 888 F.2d at
19 840. Moreover, the patents-in-suit are easily distinguishable from the claims at issue in
20 Comiskey. In Comiskey, the use of technology was explicitly recited in the claims. See id. at
21 1379. However, the patents-in-suit do not even mention any machines, thus it would be
22 disproportionate to conclude that the claims are “tied to a particular apparatus.” It follows that
23 even applying Comiskey, the claims of the patents-in-suit are invalid under section 101.

24 4. There Are No Genuine Issues of Material Fact Precluding Summary Judgment

25 In its final effort, Plaintiff argues that there are four underlying factual issues precluding
26 summary judgment in Defendants’ favor: (1) whether the claims at issue claim a “natural
27 phenomenon”; (2) whether the claims at issue transform an article into a different state or
28 thing; (3) whether the claims at issue produce a useful, concrete, and tangible result; and (4)
whether the claims at issue “wholly preempt” all uses of the inventors’ correlation. Doc. No.

1 528 at 27. However, these issues do not represent factual disputes, and instead concern
2 interpretation of the claims and the proper application of section 101 to the facts of this case.
3 These are clearly questions of law, and are thus appropriate for summary judgment. See AT&T
4 Corp., 172 F.3d at 1355 (explaining that whether a patent claim is invalid under section 101
5 is a question of law appropriate for summary judgment).

6 **5. Conclusion**

7 Based on the foregoing, this Court finds that there is no genuine issue of material fact to
8 be resolved as to whether the patents-in-suit are directed to statutory subject matter in
9 compliance with 35 U.S.C. § 101. This Court finds by clear and convincing evidence that the
10 patents-in-suit recite a natural phenomenon – the correlations between thiopurine drug
11 metabolite levels and therapeutic efficacy and/or toxicity – and the claims “wholly pre-empt”
12 use of said correlations. Therefore, the claims are invalid under section 101.

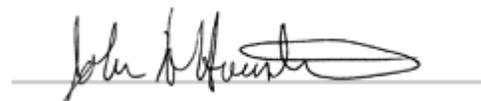
13 **CONCLUSION AND ORDER**

14 Accordingly, IT IS HEREBY ORDERED that Defendants’ motion for summary judgment
15 on patent invalidity pursuant to 35 U.S.C. § 101 is **GRANTED**.

16 IT IS FURTHER ORDERED that:

- 17 1. Plaintiff’s motion for summary judgment of no patent exhaustion is **DENIED**
18 **as moot**.
- 19 2. Plaintiff’s motion for summary judgment for declaratory infringement of patent
20 nos. 6,355,623 and 6,680,302 is **DENIED as moot**.
- 21 3. Plaintiff’s motion to strike the declaration of Dr. Bruce Bostrom is **DENIED**
22 **as moot**.

23
24
25 DATED: March 28, 2008

26 
27 JOHN A. HOUSTON
28 United States District Judge