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United States District Court  
For the Northern District of California

UNITED STATES DISTRICT COURT  
NORTHERN DISTRICT OF CALIFORNIA

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, ABBOTT MOLECULAR INC., and ABBOTT LABORATORIES, INC.,

No. C 05-03955 MHP

Plaintiffs,

**MEMORANDUM & ORDER**

v.

**Re: Defendants’ Motions for Summary Judgment of Invalidity and Inequitable Conduct, Plaintiff’s Motion for Summary Judgment of No Inequitable Conduct, and Plaintiff’s Motion to Strike**

DAKO NORTH AMERICA, INC. and DAKO DENMARK A/S,

Defendants.

The Regents of the University of California, Abbott Molecular Inc., and Abbott Laboratories Inc. (collectively, “plaintiffs”) filed this action against Dako North America, Inc. and Dako Denmark A/S (collectively, “Dako” or “defendants”), alleging infringement of two United States patents related to *in situ* DNA hybridization. Now before the court are defendants’ motions for summary judgment of invalidity of United States Patent No. 5,447,841 (“the ‘841 patent”), the sole remaining patent at issue, and unenforceability of the same based on inequitable conduct, plaintiffs’ motion for summary judgment of no inequitable conduct, and plaintiffs’ motion to strike an exhibit. Having considered the parties’ arguments and submissions, and for the reasons set forth below, the court enters the following memorandum and order.

**BACKGROUND**

The Regents of the University of California (“UC Regents”) owns the rights to the ‘841 patent-in-suit. Second Amended Compl., Docket No. 203, ¶ 2. Abbott Molecular Inc. is the wholly-

1 owned subsidiary of Abbott Laboratories Inc., which is the exclusive licensee of the ‘841 patent. Id.  
2 ¶¶ 3-5. The ‘841 patent relates to methods for identifying target genes through *in situ* DNA  
3 hybridization.<sup>1</sup> Dako manufactures and sells diagnostic kits which make use of *in situ* DNA  
4 hybridization to determine the presence and frequency of certain genes of interest, including but not  
5 limited to, the HER2 FISH pharmDx kit™, which is used for determination of *HER2* gene  
6 amplification. Id. ¶ 8. Plaintiffs filed suit against Dako on September 29, 2005, asserting claims for  
7 infringement of the ‘841 patent and a related patent, United States Patent No. 6,596,479 (“the ‘479  
8 patent”).

9 Further details regarding the parties’ background and the technology at issue in this action  
10 can be found in prior orders issued by the court. See, e.g., Regents of Univ. of Cal. v.  
11 DakoCytomation Cal., 2006 WL 618769 (N.D. Cal. 2006), Docket No. 81 (“PI Order”), Regents of  
12 Univ. of Cal. v. DakoCytomation Cal., 2006 WL 1343950 (N.D. Cal. 2006), Docket No. 110  
13 (“Amended PI Order”), Regents of Univ. of Cal. v. Dako N. Am., Inc., 2006 WL 1867618 (N.D.  
14 Cal. 2006), Docket No. 164 (“Claim Construction Order”), and Regents of Univ. of Cal. v. Dako N.  
15 Am., Inc., 448 F. Supp. 2d 1145 (N.D. Cal. 2006), Docket No. 178 (“First SJ Order”), aff’d in part  
16 and rev’d in part, 517 F.3d 1364 (Fed. Cir. 2008).

17 On October 17, 2005, plaintiffs moved for a preliminary injunction to enjoin defendants from  
18 continuing to sell, offer for sale, or import into the United States defendants’ HER2 FISH  
19 pharmDx™ kit. On November 21, 2005, upon stipulation and leave of court, Dako filed its answer  
20 and asserted counterclaims for noninfringement, invalidity and unenforceability of the ‘841 and ‘479  
21 patents. On March 10, 2006, the court denied plaintiffs’ motion for a preliminary injunction. In  
22 denying the motion, the court concluded that plaintiffs failed to show a likelihood of success on the  
23 merits of their infringement claims based on the court’s claim construction of several claim  
24 limitations. See PI Order at 6-13. On March 30, 2006, plaintiffs appealed the court’s denial of a  
25 preliminary injunction. On May 17, 2006, while plaintiffs’ appeal was pending, the court amended  
26 its preliminary injunction ruling with respect to one of its bases for finding that plaintiffs were not  
27 likely to succeed on the merits of their claims related to the ‘479 patent. See Amended PI Order at  
28 3. On May 22, 2006, plaintiffs appealed the court’s amended preliminary injunction ruling.

1 On May 22, 2006, Dako moved for summary judgment of noninfringement of the ‘841 and  
2 ‘479 patents. The court held a Markman hearing for several disputed claim limitations, and on July  
3 5, 2006, the court issued its claim construction order. On August 1, 2006, the court issued a  
4 memorandum and order granting in part and denying in part Dako’s motion for summary judgment  
5 of noninfringement. For the ‘479 patent, the court granted Dako’s motion with respect to all of the  
6 accused products. For the ‘841 patent, the court granted Dako’s motion with respect to two accused  
7 products—including its HER2 FISH pharmDx™ kit—but denied Dako’s motion with respect to its  
8 remaining accused products. See First SJ Order at 18. Plaintiffs appealed to the Federal Circuit,  
9 during which time this court stayed any further proceedings in this action.

10 The Federal Circuit considered the preliminary injunction appeals and the summary  
11 judgment appeal together and issued its decision on February 28, 2008. See Regents of Univ. of Cal.  
12 v. Dakocytomation Cal., Inc., 517 F.3d 1364 (Fed. Cir. 2008). The Federal Circuit affirmed the  
13 denial of a preliminary injunction and the grant of summary judgment of noninfringement as to the  
14 ‘479 patent. Id. at 1380. However, it reversed and remanded the court’s grant of summary judgment  
15 of noninfringement as to the ‘841 patent for the two products. Id. As to the ‘841 patent, the Federal  
16 Circuit held that plaintiffs were not precluded by prosecution history estoppel from asserting that  
17 Dako’s accused synthetic nucleic acids, referred to as peptide nucleic acids (“PNA”), were  
18 equivalents that infringed the ‘841 patent. Id. at 1376-78. The Federal Circuit stated “[w]hether  
19 they do infringe is a question of fact for the trial court to consider on remand.” Id. at 1378.

20 On August 4, 2008, plaintiffs filed a second amended complaint, asserting claims for  
21 infringement of the ‘841 patent only, and Dako filed its answer and asserted counterclaims for  
22 noninfringement, invalidity and unenforceability of the ‘841 patent. On December 8, 2008, Dako  
23 moved for summary judgment of invalidity of the ‘841 patent, arguing that the ‘841 patent is invalid  
24 under 35 U.S.C. section 112, paragraph 1, for failure to comply with the written description and  
25 enablement requirements. At the same time, Dako moved for summary judgment of  
26 unenforceability for inequitable conduct during the prosecution of the ‘841 patent. Also at that time,  
27 plaintiffs moved for summary judgment of no inequitable conduct during the prosecution of the ‘841  
28 patent.

1 On January 12, 2009, plaintiffs moved to strike the report of Dako’s expert, Dr. Robert  
2 Singer, for two reasons. Plaintiffs argue that because Dr. Singer’s report was unsworn, it constitutes  
3 inadmissible hearsay, and that while Dr. Singer may be an expert in the biological sciences, he is not  
4 competent as an expert in interpreting notes, and, therefore, Federal Rules of Evidence 702 and 703  
5 renders his opinions based on other people’s handwritten notes inadmissible.

6 Details of the ‘841 patent are provided in the court’s Claim Construction Order. The claims  
7 at issue in the present summary judgment motion are summarized below.

8 I. The ‘841 Patent

9 The ‘841 patent teaches methods and compositions for staining chromosomes by *in situ*  
10 hybridization using “chromosome specific staining reagents” that comprise “heterogeneous mixtures  
11 of labeled nucleic acid fragments having substantial portions of substantially complementary base  
12 sequences to the chromosomal DNA for which specific staining is desired.” ‘841 patent at 3:62-68.  
13 There are 17 claims at issue for the ‘841 patent. Claim 1, the only independent claim of the ‘841  
14 patent, claims as follows:

15 A method of staining target chromosomal DNA comprising:

16 (a) providing 1) labeled nucleic acid that comprises fragments which are  
17 substantially complementary to nucleic acid segments within the  
18 chromosomal DNA for which detection is desired, and 2) blocking nucleic  
acid that comprises fragments which are substantially complementary to  
repetitive segments in the labeled nucleic acid; and

19 (b) employing said labeled nucleic acid, blocking nucleic acid, and  
20 chromosomal DNA in *in situ* hybridization so that labeled repetitive  
21 segments are substantially blocked from binding to the chromosomal DNA,  
while hybridization of unique segments within the labeled nucleic acid to  
22 the chromosomal DNA is allowed, wherein blocking of the labeled  
23 repetitive segments is sufficient to permit detection of hybridized labeled  
nucleic acid containing unique segments, and wherein the chromosomal  
DNA is present in a morphologically identifiable chromosome or cell  
nucleus during the *in situ* hybridization.

24 Id. at 17:4-25.

25 Claims 2 through 5, which depend from claim 1, detail the order in which the blocking  
26 nucleic acid is hybridized with the labeled nucleic acid and the chromosomal DNA. Dependent  
27 claims 6 through 12 further characterize the labeled nucleic acid. Claim 6, for example, claims  
28 “wherein the labeled nucleic acid comprises fragments which are designed to allow detection of

1 extra or missing chromosomes, extra or missing portions of a chromosome, or chromosomal  
2 rearrangements.” Id. at 18:1-5. Claim 11 depends from claim 1 and claims the labeled nucleic acid  
3 comprising “fragments complementary to the total genomic complement of chromosomes, fragments  
4 complementary to a single chromosome, fragments complementary to a subset of chromosomes, or  
5 fragments complementary to a subregion of a single chromosome.” Id. at 18:16-22. Claims 8 and  
6 12 limit the nucleic acid to human chromosomal DNA. Id. at 18:8-11; 18:23-25.

7 Defendants’ invalidity argument centers around the assertion that the claims of the ‘841  
8 patent encompass a broad genera of methods of *in situ* hybridization but the specification describes  
9 only one hybridization method, which uses a single example of a probe that targets one entire  
10 chromosome from one species in one type of sample. With relevance to that argument, one working  
11 example is provided, in Section VI of the patent, that describes human chromosome 21-specific  
12 staining on human metaphase spreads by using blocking nucleic acids to inhibit the binding of  
13 repetitive sequences to the target chromosome in *in situ* hybridization. Id. at 15:58-16:57. The  
14 specification cites references that teach *in situ* hybridization on cells or chromosomes in suspension  
15 and formalin-fixed paraffin-embedded (“FFPE”) tissue. Id. at 10:35-38; 11:1-15; 11:45-48. The  
16 specification teaches that the nucleic acid fragments or “probes” used for *in situ* hybridization may  
17 be of different sizes. Id. at 4:2-9. In preferred embodiments, the initial chromosomal DNA  
18 sequences used to create the probes are “long sequences, e.g., 35-45 kilobases” that are “cut into  
19 smaller fragments and labeled” for use as probes. Id. at 6:21-27. The specification does not limit  
20 itself to a type of organism as the source of chromosomal DNA for probes, but expressly  
21 acknowledges the applicability of its invention to a variety of species other than human. Id. at  
22 3:33-39, 7:44-45, and 8:11-19. Neither does the specification limit itself to the use of a particular  
23 organism as the biological target sample for detection by *in situ* hybridization.

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1 II. Prosecution History of the ‘841 Patent

2 UC Regents filed the first patent application in a chain of applications leading to the ‘841  
3 patent on January 16, 1986. Joint Statement of Undisputed Facts Re: Defs.’ Mot. for Summ. J. that  
4 ‘841 Is Unenforceable for Inequitable Conduct During the Patent Prosecution, Docket No. 241  
5 (“Undisputed Facts”) ¶ 1. The application described a lack of staining specificity in prior art  
6 techniques and sought to increase the specificity by disabling the hybridization capacity of repetitive  
7 nucleotide sequences, so as to limit false-positive results. The application disclosed three methods  
8 for disabling the hybridization capacity of repetitive sequences: (1) selective removal of repetitive  
9 sequences from the DNA probe; (2) creation of a probe substantially free of repetitive sequences;  
10 and (3) blocking the repetitive sequences with repetitive sequence enriched DNA. Id. ¶ 2. The ‘841  
11 patent claims are directed to the third method, of blocking the repetitive sequences. Defendants’  
12 inequitable conduct allegations are based on alleged failures to disclose and misrepresentations  
13 regarding prior art relating to the blocking method.

14 The original application filed in January 1986 described methods of blocking repetitive  
15 sequences, but did not include a working example of a method of blocking repetitive sequences (i.e.,  
16 it did not include Section VI, the working example of the ‘841 patent). Id. ¶ 4. Although Dr. Pinkel,  
17 one of the named inventors of the ‘841 patent, does not recall the date of their first successful  
18 experiment using human genomic DNA to block repetitive sequences with a unique sequence probe,  
19 the earliest records put the date of the first successful experiment as May 21, 1986. Derrick Dec.,  
20 Docket No. 224, Exh. 3 at 100-02. The original application includes the following two statements  
21 regarding blocking: (1) “Hybridization capacity can be disabled in several ways, e.g., . . . selective  
22 blocking of repetitive sequences by pre-reassociation with complementary fragments . . . “ and “the  
23 method [of blocking repetitive sequences] is generally described by Sealey et al., ‘Removal of  
24 Repeated Sequences for Hybridization Probes,’ Nucleic Acid Research, Vol. 13, pp. 1905-1922  
25 (1985).” Id., Exh. 2 at 10:1-10 and 23:1-23; Undisputed Facts ¶ 3.

26 Prosecution of the ‘841 patent took nearly nine years, during which time the patent examiner  
27 issued numerous rejections over the prior art. During prosecution, applicants limited the claims to  
28 the blocking method. In an August 12, 1992, Office Action, the U.S. Patent and Trademark Office

1 (“PTO”) rejected most of the pending claims as allegedly being obvious, under 35 U.S.C. section  
2 103, in view of the aforementioned Sealey reference (“Sealey et al.”) and another reference,  
3 Weissman et al. Id. ¶ 5. Specifically, the patent examiner stated that “it would have been obvious to  
4 someone of ordinary skill in the art at the time of the instant invention to use the conventional  
5 technique of Sealey et al. with the *in situ* hybridization technique of Weissman et al. to practice the  
6 instant invention.” Id. ¶ 7.

7 In response, on March 4, 1993, applicants filed a declaration in which Dr. Pinkel stated that it  
8 was his opinion that “a person skilled in the art of *in situ* hybridization would not have considered  
9 the blocking technique of Sealey et al to be useful in *in situ* hybridizations prior to the filing of our  
10 grandparent application in January 1986.”<sup>2</sup> Id. ¶¶ 8-11. In the same declaration, Dr. Pinkel also  
11 stated that prior to January 1986, “the use of blocking copies of a sequence in *in situ* hybridization  
12 had been limited to testing whether a hybridization signal was due to repeat sequences.” Id. ¶ 12.

13 In remarks accompanying the Pinkel declaration, applicants referred to another reference, a  
14 1987 article by Landegent et al. Applicants stated that the Landegent reference, which discussed  
15 “the use of blocking in *in situ* hybridization as a novel technique,” was “another indication of the  
16 failure of the art to consider blocking in connection with *in situ* hybridization.” Id. ¶ 14. The PTO  
17 ultimately issued a Notice of Allowability for the ‘841 patent on May 3, 1995. Id. ¶ 22. In the  
18 Notice of Allowability, the examiner cited the March 4, 1993, Pinkel declaration and the 1987  
19 Landegent reference among the reasons for allowing the claims. Id.

## 20 21 LEGAL STANDARD

### 22 I. Summary Judgment

23 As in any other civil action, summary judgment is proper in a patent infringement action  
24 when the pleadings, discovery and affidavits show that there is “no genuine issue as to any material  
25 fact and that the moving party is entitled to judgment as a matter of law.” Fed. R. Civ. P. 56(c); see  
26 also Southwall Techs., Inc. v. Cardinal IG Co., 54 F.3d 1570, 1575 (Fed. Cir. 1995). Material facts  
27 are those which may affect the outcome of the case. Anderson v. Liberty Lobby, Inc., 477 U.S. 242,  
28 248 (1986). A dispute as to a material fact is genuine if there is sufficient evidence for a reasonable

1 jury to return a verdict in favor of the nonmoving party. Id. The party moving for summary  
2 judgment bears the burden of identifying those portions of the pleadings, discovery and affidavits  
3 that demonstrate the absence of a genuine issue of material fact. Celotex Corp. v. Catrett, 477 U.S.  
4 317, 323 (1986). On an issue for which the opposing party will have the burden of proof at trial, the  
5 moving party need only point out “that there is an absence of evidence to support the nonmoving  
6 party’s case.” Id.

7       Once the moving party meets its initial burden, the nonmoving party must go beyond the  
8 pleadings and, by its own affidavits or discovery, “set forth specific facts showing that there is a  
9 genuine issue for trial.” Fed. R. Civ. P. 56(e). Mere allegations or denials do not defeat a moving  
10 party’s allegations. Id.; Gasaway v. Nw. Mut. Life Ins. Co., 26 F.3d 957, 960 (9th Cir. 1994). The  
11 court may not make credibility determinations, and inferences to be drawn from the facts must be  
12 viewed in the light most favorable to the party opposing the motion. Masson v. New Yorker  
13 Magazine, 501 U.S. 496, 520 (1991); Anderson, 477 U.S. at 249.

#### 14 II. Patent Validity Under 35 U.S.C., Section 112, First Paragraph

15       An issued patent enjoys a presumption of validity, 35 U.S.C. section 282, which can only be  
16 overcome through clear and convincing evidence. U.S. Surgical Corp. v. Ethicon, Inc., 103 F.3d  
17 1554, 1563 (Fed. Cir. 1997). A party asserting invalidity on summary judgment, therefore, has the  
18 burden of establishing such invalidity by clear and convincing evidence. U.S. Gypsum Co. v. Nat’l  
19 Gypsum Co., 74 F.3d 1209, 1212 (Fed. Cir. 1996). The validity of a patent depends, among other  
20 things, on compliance with the written description and enablement requirements of 35 U.S.C. section  
21 112, first paragraph. See Univ. of Rochester v. G.D. Searle & Co., 358 F.3d 916, 921 (Fed. Cir.  
22 2004). Section 112, paragraph 1, states:

23       The specification shall contain a written description of the invention, and of the  
24 manner and process of making and using it, in such full, clear, concise, and exact  
25 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.

26 35 U.S.C. § 112, ¶ 1.

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1           A.     Written Description

2           The written description requirement serves a teaching function by providing a “quid pro quo”  
3 in which the public is given “meaningful disclosure in exchange for being excluded from practicing  
4 the invention for a limited period of time.” Rochester, 358 F.3d at 922, quoting Enzo Biochem, Inc.  
5 v. Gen-Probe Inc., 323 F.3d 956, 970 (Fed. Cir. 2002). Although a patent specification need not  
6 include information that is already known and available to one of ordinary skill in the art to which  
7 the patent pertains, its description of the invention claimed must be sufficient to convey to such an  
8 ordinarily skilled artisan that the inventor was in possession of the invention on the date that the  
9 patent application was filed. Carnegie Mellon Univ. v. Hoffmann-La Roche Inc., 541 F.3d 1115,  
10 1122 (Fed. Cir. 2008); Vas-Cath Inc. v. Mahurkar, 935 F.2d 1555, 1563-64 (Fed. Cir. 1991)  
11 (recognizing that the written description of the invention is separate and distinct from the  
12 enablement requirement). However, even if possession can be shown, the written description  
13 requirement will still not be met if the specification does not adequately describe the claimed  
14 invention. See Enzo, 323 F.3d at 969-70. An applicant is required to “recount his invention in such  
15 detail that his future claims can be determined to be encompassed within his original creation.” Vas-  
16 Cath, 935 F.2d at 1561. Whether the written description requirement has been satisfied is a question  
17 of fact that depends on the nature of the claimed invention and the knowledge of a person skilled in  
18 the art at the time the invention was made and the patent application was filed. Carnegie Mellon,  
19 541 F.3d at 1122.

20           B.     Enablement

21           To satisfy the enablement requirement of 35 U.S.C. section 112, “the specification of the  
22 patent must teach those skilled in the art how to make and use the full scope of the claimed invention  
23 without ‘undue experimentation.’” Monsanto Co. v. Syngenta Seeds, Inc., 503 F.3d 1352, 1360  
24 (Fed. Cir. 2007). Whether a claimed invention requires undue experimentation involves  
25 consideration of a number of factors, including the quantity of the experimentation necessary, the  
26 amount of guidance provided, the availability of working examples, the nature of the invention, the  
27 state of the prior art, the relative skill of those in the art, the predictability of the art, and the breadth  
28 of the claims. In re Wands, 858 F.2d 731, 737 (Fed. Cir. 1988). Enablement is determined as of the

1 filing date of the patent. See AK Steel Corp. v. Sollac, 344 F.3d 1234, 1244 (Fed. Cir. 2003).

2 Whether a disclosure is enabling is a question of law based on underlying facts. Id. at 1238.

3 III. Inequitable Conduct

4 A patent may be rendered unenforceable for inequitable conduct if an applicant, with intent  
5 to mislead or deceive the examiner, fails to disclose material information or submits materially false  
6 information to the PTO during prosecution. Digital Control Inc. v. Charles Mach. Works, 437 F.3d  
7 1309, 1313 (Fed. Cir. 2006). The party asserting inequitable conduct must prove a threshold level of  
8 materiality and intent by clear and convincing evidence. Id. The court must then determine whether  
9 the questioned conduct amounts to inequitable conduct by balancing the levels of materiality and  
10 intent, with a greater showing of one factor allowing a lesser showing of the other. Id. “The  
11 required showings of materiality and intent are separate, and a showing of materiality alone does not  
12 give rise to a presumption of intent to deceive.” Praxair, Inc. v. ATMI, Inc., 543 F.3d 1306, 1313  
13 (Fed. Cir. 2008)

14 It is permissible, but uncommon, to determine at the summary judgment stage that a patent is  
15 unenforceable for inequitable conduct if there is no genuine issue of material fact. Monsanto Co. v.  
16 Bayer BioScience N.V., 363 F.3d 1235, 1240 (Fed. Cir. 2004). However, a genuine issue of  
17 material fact is not raised by the submission of “merely conclusory statements or completely  
18 insupportable, specious, or conflicting explanations or excuses.” Id.

19  
20 DISCUSSION

21 I. Summary Judgment of Invalidity

22 In its motion for summary judgment, Dako’s principal argument is that the claims of the ‘841  
23 patent encompass an extremely broad genera of methods of *in situ* hybridization. Dako characterizes  
24 independent claim 1 as encompassing “all in situ hybridization methods using probes of all lengths  
25 that target all regions of all chromosome of all species to detect all chromosomal abnormalities in all  
26 biological samples.” Defs.’ SJ Mot. for Invalidity, Docket No. 227, at 1-2 (emphasis in original).  
27 Dako asserts that the ‘841 patent specification contains only a single working example—the  
28 detection of an extra human chromosome 21 using a human whole-chromosome 21 probe—and that

1 this single example does not adequately describe such a broad invention or enable the full scope of  
2 the claims.

3 As the party moving for summary judgment, Dako bears not only the burden of  
4 demonstrating the absence of a genuine issue of material fact, Celotex, 477 U.S. at 323, but also  
5 proving invalidity by clear and convincing evidence. 35 U.S.C. § 282; U.S. Gypsum Co., 74 F.3d at  
6 1212. Plaintiffs oppose Dako’s motion for summary judgment on the ground that the ‘841 patent  
7 claims are not directed to a genus of probes, but rather are directed to one particular method of  
8 staining target chromosomal DNA in *in situ* hybridization by disabling the hybridization capacity of  
9 repetitive sequences through the use of blocking nucleic acids. Plaintiffs assert that the claimed  
10 blocking method can be used universally with different probes to detect different abnormalities in  
11 different organisms because, in all cases, the claimed blocking technique is the same. Plaintiffs  
12 assert the ‘841 patent satisfies the written description requirement by showing that the inventors had  
13 possession of the full scope of their claimed invention, and the disclosures in the specification are  
14 enabling in that they are sufficient to allow one of ordinary skill in the art to practice the claimed  
15 method without undue experimentation.

16 The adequacy of a written description is determined by evaluating whether the description is  
17 sufficient to show possession of the generic scope of the claims. See Enzo, 323 F.3d at 966.  
18 Similarly, the degree of enablement that is required varies depending on the scope of the claimed  
19 invention and must be commensurate with the scope of the claims. See Sitrick v. DreamWorks,  
20 LLC, 516 F.3d 993, 999 (Fed. Cir. 2008).

21 A. Written Description Requirement

22 The court begins with plaintiffs’ assertion that the claimed invention is a single method  
23 rather than a genus of probes. This is true, although the plain language of the claims places few  
24 limitations on the types of probes that can be used in the method. For example, claim 1 limits the  
25 detecting probes to “labeled nucleic acid that comprises fragments which are substantially  
26 complementary to nucleic acid segments within the chromosomal DNA for which detection is  
27 desired” and the blocking probes to “blocking nucleic acid that comprises fragments which are  
28 substantially complementary to repetitive segments in the labeled nucleic acid . . . .” See ‘841 patent

1 at 17:4-25. The claim does not recite any limitations on the size of the probe fragments or on the  
2 source of the nucleic acid for the probes (e.g., the organism or genomic region from which the  
3 nucleic acid is derived). The only limitation claim 1 places on the biological target sample upon  
4 which *in situ* hybridization will be performed is that it requires the chromosomal DNA to be present  
5 “in a morphologically identifiable chromosome or cell nucleus.” Id.<sup>3</sup> Plaintiffs dispute none of this  
6 and themselves assert that the claimed method is “broadly applicable to a wide variety of staining  
7 reagents” and “can be used with different probes to detect different abnormalities in different  
8 organisms.” Pls.’ Opp. to SJ for Invalidity, Docket No. 235 at 1:25-28.

9       Whether a patent specification satisfies the written description requirement is a question of  
10 fact, judged from the perspective of one of ordinary skill in the art as of the relevant filing date.  
11 Falkner v. Inglis, 448 F.3d 1357, 1363 (Fed. Cir. 2006). As a general principle, when the claims  
12 encompass a broad genus or when there is substantial variation within the genus, the written  
13 description requirement will not likely be satisfied by disclosing only a single species within the  
14 genus. Carnegie Mellon, 541 F.3d at 1124-25. However, a patent specification need not describe  
15 every detail of every embodiment. Vas-Cath, 935 F.2d at 1563. Examples are not required, and “[a]  
16 claim will not be invalidated on section 112 grounds simply because the embodiments of the  
17 specification do not contain examples explicitly covering the full scope of the claim language.”  
18 LizardTech, Inc. v. Earth Res. Mapping, PTY, Inc., 424 F.3d 1336, 1345 (Fed. Cir. 2005). An actual  
19 reduction to practice is also unnecessary to satisfy the written description requirement. Falkner, 448  
20 F.3d at 1364 n.8; Rochester, 358 F.3d at 926 (“Constructive reduction to practice is an established  
21 method of disclosure”).

22       In this case, the ‘841 patent claims a method of staining target chromosomal DNA, by  
23 disabling the hybridization capacity of repetitive sequences through the use of blocking nucleic  
24 acids. All of the asserted claims are directed to that single blocking method. Dako argues that the  
25 method comprises several broad genera, e.g., claim 1 encompasses the use of nucleic acid probes of  
26 any size and derived from any organism or genomic region, while dependent claims 5-7 and 11-13  
27 can be applied to biological samples from all organisms, and the biological samples can take any  
28 form that presents a morphologically identifiable chromosome or cell nucleus. Dako argues that

1 because the patent specification provides only a single working example of a whole-chromosome  
2 nucleic acid probe for human chromosome 21 (i.e., a “single species”) for use in *in situ*  
3 hybridization, it does not sufficiently describe a representative number of species of the components  
4 used in the method so as to satisfy the written description requirement. See Carnegie Mellon, 541  
5 F.3d at 1124 (a “sufficient description of a representative number of species . . . means that the  
6 species which are adequately described are representative of the entire genus.”).

7 The court disagrees with this reasoning, because it is not the number of probe species used in  
8 the generic method that must be described in representative number in order to meet the written  
9 description requirement. That the claimed blocking method functions with a broad range of probes  
10 is not the issue—it is the method itself that is a “genus.” This is not a situation where the patent  
11 describes a method but discloses no species used to carry out the method. See, e.g., Rochester, 358  
12 F.3d at 920 (a patent fails to satisfy the written description requirement if it claims a method of  
13 achieving a biological effect, but discloses no compounds that can accomplish that result). The ‘841  
14 patent describes a method of *in situ* hybridization using blocking nucleic acids that has wide breadth  
15 and applicability and discloses one detailed, working example of that method.

16 The example of the claimed blocking method uses one type of probe to chromosome 21,  
17 because that example sought to specifically stain human chromosome 21. The patent specification  
18 describes that “a sensitive method for detecting chromosomal abnormalities would be a highly useful  
19 tool for genetic screening” and provides the example that Down’s syndrome is caused by having an  
20 additional copy of chromosome 21. ‘841 patent at 1:45-55. Nowhere does the specification limit  
21 the invention to detecting trisomy 21, nor does it need to in order to meet the written description  
22 requirement. Dr. Harper testified that the claimed blocking method “utilizes DNA hybridization  
23 principles that apply equally to all types of chromosomal DNA.” Harper Dec., Docket No. 242, ¶  
24 28. Because Dako has not refuted this testimony with clear and convincing evidence of substantial  
25 variation within the performance of the blocking method, the “representative species” requirement is  
26 low. To hold otherwise would place improper and undue limitations on the breadth of the claimed  
27 invention.

28

1 To illustrate this principle, the court offers the following analogy. Imagine that the Wright  
2 Brothers had patented a method for flying, comprising a wing with certain physical characteristics.  
3 Assume the wing material was claimed generically and the patent provided one working example of  
4 an airplane with wooden wings. Later-developed airplanes used titanium wings. Because the  
5 Wright Brothers had not described titanium wings in their application, and had admitted in  
6 depositions that it would have been undue experimentation at the time to do so (either because  
7 titanium did not exist or was not used in that manner at the time of filing the patent application),  
8 their claimed flying method was held invalid for lack of written description.

9 This outcome contravenes the patent laws. Yet, it represents the fundamental premise of  
10 Dako’s argument. It cannot succeed because, as defendant should well know, “an applicant is not  
11 required to describe in the specification every conceivable and possible future embodiment of his  
12 invention.” Rexnord Corp. v. Laitram Corp., 274 F.3d 1336, 1344 (Fed. Cir. 2001). Nor are claims  
13 perforce limited to the embodiments disclosed in the specification. Amgen Inc. v. Hoechst Marion  
14 Roussel, Inc., 314 F.3d 1313, 1328 (Fed. Cir. 2003). Plaintiffs are not required to describe a high  
15 number of species of the genus method because the ‘841 patent, and the prior art cited therein,  
16 describes little variation within the salient characteristics of that genus.<sup>4</sup> Nor are plaintiffs required  
17 to describe a “representative number of species” of the “broad genera” of components used in the  
18 claimed method of staining chromosomal DNA, as Dako contends, because plaintiffs are not  
19 claiming the components as novel compositions themselves.

20 Dako either fails to appreciate or intentionally disregards the pivotal distinction between a  
21 product claimed qua product versus a component claimed as part of a method. As a result, Dako  
22 relies upon case law inapposite to the inquiry and wholly misdirects the court to genus-species case  
23 law, while ignoring after-invented technology case law, i.e., case law that addresses the situation  
24 where a later state of the art came into existence after the filing date of the application. See infra,  
25 Section IB, Enablement.

26 For example, Dako relies on Regents of the University of California v. Eli Lilly & Co., 119  
27 F.3d 1559 (Fed. Cir. 1997), to argue that the adequate description of claimed nucleic acid probes  
28 requires a precise definition of the types and lengths of probes, and not merely a recitation of the

1 probe's blocking function. Eli Lilly, however, was focused on product claims, namely, claims to  
2 recombinant plasmids and microorganisms that produce human insulin. The Federal Circuit held the  
3 disclosure of the cDNA sequence of the rat insulin gene did not provide an adequate written  
4 description of the cDNA required by the asserted claims, i.e., the cDNA sequence of the insulin gene  
5 for every vertebrate. Id. at 1569. Likewise, in Carnegie Mellon, claims directed to recombinant  
6 plasmids containing "gene coding region isolated from a bacterial source for the expression of DNA  
7 polymerase I" were held invalid for lack of written description because the coding sequence for  
8 DNA polymerase I from one specific type of bacteria (*E. coli*) did not adequately describe coding  
9 sequences originating from any bacterial source. 541 F.3d at 1125. Finally, in a third case relied on  
10 by Dako, the Federal Circuit held the disclosure of a single antibody insufficiently described a  
11 method for treating neurofibrosarcoma (a rare cancer) by administering human monoclonal  
12 antibodies targeted at a patient's tumor, because the antibodies required to perform the claimed  
13 method vary substantially in their composition. See In re Alonso, 545 F.3d 1015, 1020 (Fed. Cir.  
14 2008).

15         Dako's attempt to analogize the DNA claims from Eli Lilly and Carnegie Mellon to the  
16 components of the method—namely, the probes—in the '841 patent must fail. The '841 patent does  
17 not claim probes with a particular DNA sequence from a particular source, like Eli Lilly and  
18 Carnegie Mellon, nor does it claim a specific target for treatment or diagnosis, like Alonso. The  
19 probes of the '841 patent are inherently generic, so that the method can be tailored to stain the  
20 desired target DNA, whatever it may be. Anything more limiting would be a method for identifying  
21 a particular DNA target, which was the case in Eli Lilly but is clearly not the case here. This  
22 important distinction resonates throughout Federal Circuit case law. The Eli Lilly court, for  
23 example, held that an "adequate written description of a DNA sequence claim requires a precise  
24 definition, such as structure, formula, chemical name, or physical properties . . ." for claims directed  
25 to recombinant plasmids and microorganisms containing a human insulin cDNA—a specific DNA  
26 sequence. 119 F.3d at 1566. Likewise, in Noelle v. Lederman, 355 F.3d 1343, 1349 (Fed. Cir.  
27 2004), the Federal Circuit held that disclosure of an antibody's binding affinity to a "fully  
28 characterized antigen,' either by its structure, formula, chemical name, or physical properties. . . "

1 satisfies written description for claims directed to mouse, human and genus forms of CD40CR  
2 antibodies—still specific antibodies. See also id. at 1352 (distinguishing between the patentability  
3 bounds of product and method claims, noting that “Noelle does not claim a method of isolating  
4 CD40CR antigens, CD40-Ig, or the receptor CD40 itself.”).

5 In stark contrast to the cases claiming specific sequences, antibodies, or targets, the ‘841  
6 patent contemplates the use of the staining method to detect chromosomal abnormalities on a broad  
7 scale, i.e., for genetic screening and for the total genomic complement of chromosomes. See ‘841  
8 patent at 1:53-54 and 4:57-62. Dako’s argument that *in situ* hybridization is an unpredictable art  
9 does not compel the conclusion that the claimed blocking method, i.e., the method of disabling the  
10 hybridization capacity of repetitive sequences by blocking in *in situ* hybridization, should be limited  
11 to any specific probes or targets. Dako’s further assertion on oral argument that one exemplified  
12 probe cannot be enough because “in an unpredictable art, like biology, one example is not enough”  
13 is simply wrong. The correct law is that “a patentee of a biotechnological invention cannot  
14 necessarily claim a genus after only describing a limited number of species because there may be  
15 unpredictability in the results obtained from species other than those specifically enumerated.”  
16 Noelle, 355 F.3d at 1350, citing Enzo, 323 F.3d at 965 and Eli Lilly, 119 F.3d at 1568. The  
17 unpredictability factor only applies when there is unpredictability in the results themselves and even  
18 then the law does not preclude genus claims. If the law were to hold all of biology to a higher  
19 standard, as Dako asserts, no seminal biotechnological advancement would be patentable as  
20 anything more than a modest development limited in literal scope to its concrete examples.  
21 Prophetic examples would be worthless and the doctrine of equivalents would be nullified. Indeed,  
22 the value of the patent system itself would be diminished if every slight alteration, substitution or  
23 improvement upon a fundamental biotechnology method could escape infringement of a literally-  
24 claimed (or invalidate a more broadly-claimed) patent to a pioneer invention.<sup>5</sup> Put another way,  
25 “[i]f later states of the art could be employed as a basis for rejection under 35 U.S.C. section 112, the  
26 opportunity for obtaining a basic patent upon early disclosure of pioneer inventions would be  
27 abolished.” In re Hogan, 559 F.2d 595, 606 (C.C.P.A. 1977).

28

1           The case law on after-invented technology is instructive here. The Federal Circuit has held  
2 that the written description inquiry “focuses on a comparison between the specification and the  
3 invention referenced by the terms of the claim—not comparison between how the product was made  
4 as disclosed in the patent and future developments of this process that might alter or even improve  
5 how the same product is made.” Amgen, 314 F.3d at 1332. The ‘841 patent specification describes  
6 an invention that has broad application for use with labeled probes designed for detection of a wide  
7 variety of chromosomal abnormalities. Harper Dec. ¶ 11-32. The patent need neither exemplify nor  
8 even describe prophetically the use of all possible lengths of probes generated from all possible  
9 chromosomes from all possible species, in order to sufficiently describe the claimed method. This is  
10 so even if, as Dako contends, there is unpredictability in applying the method for staining target  
11 chromosomal DNA to, e.g., a much shorter length probe than the “whole-chromosome probe” used  
12 in the example or to genomes that are not closely related to humans.<sup>6</sup> As the Federal Circuit has  
13 noted, “[a] general allegation of ‘unpredictability in the art’ is not a sufficient reason to support a  
14 rejection for lack of adequate written description.” Hyatt v. Dudas, 492 F.3d 1365, 1370 (Fed. Cir.  
15 2007) (citation omitted).<sup>7</sup>

16           Adequate written description means that, in the specification, the applicant must “convey  
17 with reasonable clarity to those skilled in the art that, as of the filing date sought, he or she was in  
18 possession of the [claimed] invention.” Vas-Cath, 935 F.2d at 1563-64. Dako argues that the  
19 inventors’ testimony made during prosecution of the ‘841 patent suggests that they were not fully in  
20 possession of the invention as defined by the claims at the date of filing. Dako cites to a March 16,  
21 1992, declaration submitted to the PTO in which the inventors stated: “we had conceived of making  
22 a heterogeneous mixture that contains labeled nucleic acid fragments of a complexity greater than 35  
23 kb for staining chromosomes by *in situ* hybridization.” Dec. of Daniel Pinkel and Joe Gray, Docket  
24 No. 224, Exh. 13 at 3. Dako alleges that this statement constituted an admission by the inventors  
25 that limited the “conceived” scope of the probes of the invention.<sup>8</sup> Because the claimed method uses  
26 nucleic acid probes of any size (not just probes larger than 35 kb), Dako argues the inventors were  
27 not in possession of the full scope of the claimed invention at the date of filing and the ‘841 patent  
28 specification thus fails to satisfy the written description requirement.

1           The court disagrees. The '841 patent plainly discloses the use of a “blocking nucleic acid”  
2 probe, and the Federal Circuit has held that the scope of the “nucleic acid” limitation was not  
3 narrowed during prosecution such that it gives rise to any estoppel concerning the type of nucleic  
4 acid that could perform the blocking. Dakocytomation, 517 F.3d at 1378. Nor does the patent  
5 specification limit the scope of the probe to a specific size, as Dako seems to deem necessary to  
6 satisfy the written description requirement. Rather, the specification states that the probes could be  
7 used to detect a whole-chromosome target sequence or a target sequence much shorter than a whole  
8 chromosome. See, e.g., '841 patent at 6:28-30, describing an embodiment where “the chromosomal  
9 binding sites of the fragments are clustered in the chromosomal regions complementary to the  
10 cloned ‘parent’ nucleic acid sequence.” See also id. at 5:63-66, noting “[t]he precise number of  
11 distinct labeled nucleic acid fragments, or probes . . . *is not a critical feature of the invention.*”  
12 (emphasis added). In addition, Dr. Harper testified that “the '841 patent discloses principles for  
13 probe design to tune the length of probe depending on the requirements of the particular  
14 application.” Harper Dec. ¶ 31.

15           Moreover, contrary to Dako’s assertions, plaintiffs are not required to actually have *physical*  
16 *possession* of the potential universe of probe sets in order to have “possession” of the invention.<sup>9</sup>  
17 Dako takes the possession standard far too literally. Possession of the breadth of a genus claim can  
18 be established by showing that a person of skill in the art would glean from the written description  
19 that the inventors had made a generic invention. See Enzo, 323 F.3d at 966-67, 974 (contrasted with  
20 “a research plan” which does not show “possession” of any invention). Plaintiffs, too, advance  
21 arguments far beyond what is required to rebut Dako’s assertions. Plaintiffs need not prove that the  
22 inventors were actually working with the potential universe of probes in 1986, just as the '841 patent  
23 specification need not expressly list them all to sufficiently describe the generic class of probes for  
24 use in the claimed method. See U.S. Steel Corp. v. Phillips Petroleum Co., 865 F.2d 1247, 1252  
25 (Fed. Cir. 1989) (“[c]ertainly, the disclosure of specifics adds to the understanding one skilled in the  
26 art would glean from a generic term, but it does not follow that such added disclosure limits the  
27 meaning thereof.”). It is for Dako to prove that a skilled worker would not glean from the  
28

1 specification the generic invention, directed to a specific method of staining target chromosomal  
2 DNA in *in situ* hybridization using blocking nucleic acids, as claimed. Dako has not done so.

3         The case law makes clear that, even in unpredictable arts, the written description requirement  
4 can be met when a patent specification frames functional descriptions of biologic materials used in  
5 related methods if those functional definitions are coupled with a disclosed correlation between that  
6 function and a structure that is sufficiently known or disclosed. See Enzo, 323 F.3d at 964. In this  
7 case, the “relevant identifying characteristics” between the structure and function of the nucleic acid  
8 components of the invention, therefore, need not be any more specific than the labeled nucleic acid  
9 probe being substantially complementary to the target chromosomal DNA and the blocking nucleic  
10 acid having fragments complementary to repetitive sequences in the labeled nucleic acid. To satisfy  
11 the written description requirement, “the applicant does not have to utilize any particular form of  
12 disclosure to describe the subject matter claimed, but the description must clearly allow persons of  
13 ordinary skill in the art to recognize that he or she invented what is claimed.” In re Alton, 76 F.3d  
14 1168, 1172 (Fed. Cir. 1996). For the purposes of this motion, the court finds that Dako has failed to  
15 meet its burden to provide clear and convincing evidence that nucleic acid sequences, of differing  
16 lengths or types, could not be used to detect different chromosomal abnormalities in different  
17 biological samples, other than those exemplified in the ‘841 patent, in a manner so described and as  
18 required by the claims.

19         B. Enablement Requirement

20         Enablement requires that the specification teach those of skill in the art how to make and use  
21 the claimed invention without undue experimentation. In re Vaeck, 947 F.2d 488, 495 (Fed. Cir.  
22 1991). There must be a “reasonable correlation” between the scope of the claims and the scope of  
23 enablement provided by the specification. Id. When, as here, a patentee chooses broad claim  
24 language, he must make sure that the broad claims are fully enabled. Sitrick, 516 F.3d at 999. “A  
25 patent applicant is not required, however, to predict every possible variation, improvement or  
26 commercial embodiment of his invention.” Phillips Petroleum, 865 F.2d at 1250.

27         Dako asserts that undue experimentation would be required for a person having ordinary skill  
28 in the art to practice the claimed invention, in view of the breadth of the claims, the unpredictability

1 in the art, the single working example and the limited guidance provided in the specification.  
2 Because the adequacy of the disclosure must be judged from the perspective of a person of ordinary  
3 skill in the art, the court notes that the parties stipulated to a high level of skill in the art—a  
4 doctorate or medical degree with training and laboratory experience with specific experience in *in*  
5 *situ* hybridization principles and techniques. See Harper Dec ¶ 6; Hulse Dec., Docket No. 228, Exh.  
6 1 at 6. Plaintiffs argue that based on the skill of one in the art, the predictability of *in situ*  
7 hybridization, and the state of the prior art, including the extensive background teachings described  
8 and referenced in the specification, it would not require undue experimentation to practice the  
9 claimed invention. Dako agrees that the relative skill of one in the art is high but argues that this  
10 factor alone is not sufficient to find that enablement is satisfied. Dako also contends that, at the time  
11 the application was filed, *in situ* hybridization (and specifically, *in situ* hybridization with FFPE  
12 tissue) was highly unpredictable.

13 For the purposes of this motion, the court does not decide whether *in situ* hybridization was a  
14 predictable art, because even assuming it was unpredictable, this still does not compel a conclusion  
15 that one of skill in the art would not be able to carry out the claimed invention without undue  
16 experimentation. Unpredictability is but one of the Wands factors, to be weighed against all the  
17 other factual considerations. 858 F.2d at 737 (holding that whether undue experimentation is  
18 required is a “conclusion reached by weighing many factual considerations . . . includ[ing] (1) the  
19 quantity of experimentation necessary, (2) the amount of direction or guidance presented, (3) the  
20 presence or absence of working examples, (4) the nature of the invention, (5) the state of the prior  
21 art, (6) the relative skill of those in the art, (7) the predictability or unpredictability of the art, and (8)  
22 the breadth of the claims.”).

23 As to the amount of experimentation that would be required to practice the broad scope of  
24 the claimed invention, Dako argues that it would require a great amount of experimentation to  
25 design and prepare appropriately sized probes and to apply the claimed methods to allow detection  
26 on FFPE tissue. However, “the mere fact that the experimentation may have been difficult and time  
27 consuming does not mandate a conclusion that such experimentation would have been considered to  
28 be ‘undue’ in this art.” Falkner, 448 F.3d at 1365. The specification teaches that the procedures for

1 designing and preparing such probes and applying the methods to other types of samples were  
2 routine, and cites articles that describe using FFPE tissue in *in situ* hybridization. Dr. Harper  
3 testified that “one of ordinary skill would understand this specific technique to be broadly applicable  
4 to a wide variety of probes, targets, and organisms” and that “one of ordinary skill easily would have  
5 been able to practice the claimed method on FFPE tissue without undue experimentation.” Harper  
6 Dec. ¶¶ 15, 47.

7         Dako hangs its hat on the argument that the ‘841 patent does not satisfy several of the  
8 Wands factors because the patent allegedly does not enable a skilled artisan to practice the claimed  
9 methods on FFPE tissues. Here, Dako fails to meet its burden of proof required on summary  
10 judgment. Dako’s expert, Dr. Singer, distinguishes the prior art protocols for *in situ* hybridization  
11 on FFPE cited in the ‘841 patent on the basis that those protocols used repetitive sequence probes  
12 and did not permit detection of unique chromosomal sequences. See Hulse Dec., Exh. 1 at 15:5-21.  
13 However, plaintiff’s expert, Dr. Harper, testified that in her opinion, that distinction is irrelevant,  
14 and that “[t]he techniques for carrying out *in situ* hybridization on FFPE samples using probes  
15 directed to repetitive sequences would function to detect unique sequences in the claimed invention  
16 because those techniques enable probe DNA to hybridize with target.” Harper Dec. ¶ 41. Faced  
17 with this not uncommon “battle of the experts,” the court observes that the record may support  
18 differing factual conclusions. As such, this dispute is not well-suited for summary judgment and the  
19 inferences to be drawn from conflicting testimony are best left for the trier of fact. See, e.g.,  
20 Edwards Syst. Tech. Inc. v. Digital Control Syst. Inc., 99 Fed. Appx. 911, 921 (Fed. Cir. 2004)  
21 (noting that a classic “battle of the experts” situation renders summary judgment improper).

22         Dako contends that there is clear and convincing evidence that applying *in situ* hybridization  
23 to detect unique sequence chromosomal DNA on FFPE tissue was “not completely resolved”  
24 because there was allegedly still only very limited success in the field five years after the ‘841 patent  
25 application was filed. See Hulse Dec., Exh. 5 & 7. Dr. Singer alleges that the ‘841 patent fails to  
26 consider the partial penetration of probes into cell nuclei in FFPE tissue sections and the fact that the  
27 densely crosslinked FFPE tissues needed to be “undone” in order to reduce background “noise” and  
28 optimize probe penetration. See id. at Exh. 1, pages 15-18. Dr. Singer testified that “[i]t took years

1 to develop techniques that reduce this background and permit the detection of specific chromosomal  
2 hybridization signals in FFPE tissue.” Id. at 19:18-19. In his deposition, however, Dr. Singer  
3 testified that his own patent, U.S. Patent No. 4,888,278, filed in October 1985, which claimed a  
4 rapid *in situ* hybridization method, adequately described and enabled practicing the method in tissue  
5 sections even though the patent only exemplified using *in situ* hybridization in morphologically  
6 intact chicken embryonic cells. See Supp. Chang Dec., Docket No. 321, Exh. 1 at 7-10 (Singer  
7 Deposition Transcript). More importantly, the argument that the use of *in situ* hybridization in tissue  
8 had not been perfected, in and of itself, does not weigh in favor of finding that undue  
9 experimentation is required to practice the ‘841 patent claims using FFPE tissue. The evidence  
10 presented by Dako fails to show that the “limited success” or at least the “passage of time” was due  
11 to any aspect of the claimed method. That the FFPE tissue was sticky and needed to be un-  
12 crosslinked in order to work has little to do with the blocking method as claimed. The ‘841 patent  
13 does not purport to teach the steps necessary to optimize the sensitivity of *in situ* hybridization using  
14 FFPE tissue and it does not need to.

15         Once again, the case law on after-invented technology is applicable here. With after-  
16 invented technology, it does not matter whether performing the full range of was “completely  
17 resolved” or even possible when the application was filed. Hogan explains that enablement is not to  
18 be judged by a later publication or other evidence which shows that, *as of the application’s filing*  
19 *date*, undue experimentation would have been required to practice the claims with that later-existing  
20 state of the art technology. 559 F.2d at 605. Simply put, later existing state of the art cannot be used  
21 in determining enablement under 35 U.S.C. section 112. As such, Dako’s argument that the ‘841  
22 patent specification fails to enable one skilled in the art to practice the claimed invention cannot be  
23 couched in terms of the “claimed invention” being defined as the blocking method of *in situ*  
24 hybridization using FFPE tissue to permit detection of hybridized labeled nucleic acid containing  
25 unique segments with all non-specific background issues “completely resolved.” The ‘841 patent  
26 claims contain no sensitivity measurement or parameter requiring any particular level of detection of  
27 target chromosomal DNA to achieve diagnostic certainty or commercial viability in its results. That  
28 there were outstanding issues at the time the application was filed concerning the partial penetration

1 of probes into cell nuclei in FFPE tissue sections does not speak to the scope of enablement. See  
2 Phillips Petroleum, 865 F.2d at 1251 (“application sufficiency under § 112, first paragraph, must be  
3 judged as of the filing date” and “[r]ejections . . . on the ground that the scope of enablement is not  
4 commensurate with the scope of the claims, orbit around the more fundamental question: To what  
5 scope of protection is the applicant’s particular contribution to the art entitled?”). In sum, that the  
6 ‘841 patent claims may cover a later version of the claimed method (using FFPE tissue) relates to  
7 infringement, not to patentability. Id. To hold differently would “impose an impossible burden on  
8 inventors and thus on the patent system.” Hogan, 559 F.2d at 606.

9 Dr. Harper testified that “a person of ordinary skill would recognize that the basic problem of  
10 background staining and the solution of using blocking to diminish background noise described in  
11 the ‘841 patent would be generally applicable to *in situ* hybridization reactions.” Harper Dec. ¶ 12.  
12 Dr. Singer’s counter-testimony that the ‘841 patent “provides no teaching . . . on how to use the  
13 described techniques on samples that contain only hybridized cells lacking the full complement of  
14 cellular DNA” as might occur when, e.g., only partial cell nuclei were present in thin tissue sections  
15 or less than the entire FFPE tissue slice was accessible by the probes, is somewhat of a non-sequitur.  
16 See Singer Dec., Docket No. 228, at 14:10-21. The Federal Circuit has already ruled that the ‘841  
17 patent claims do not require that the cell nucleus retain its full complement of DNA. See supra n.3;  
18 Dakocytomation, 517 F.3d at 1379. It is a moot point, therefore, whether the patent enables any  
19 subject matter outside the scope of the claims. Now, if Dako is alleging that a person of ordinary  
20 skill in the art would have been wholly unable to determine whether the claimed blocking method  
21 could be carried out using FFPE tissue at all, i.e., to permit *any* observable detection of stained target  
22 chromosomal DNA, that is an assertion directly controverted by plaintiff’s expert. In viewing the  
23 facts in a light most favorable to plaintiffs, as the case law requires at this stage, the court finds  
24 Dako’s allegation unavailing as it requires a credibility determination not appropriate for summary  
25 judgment.

26 Beyond that, the court agrees with plaintiffs that a patent need not disclose every possible  
27 way to practice an invention in order to satisfy the enablement requirement, albeit noting that  
28 plaintiffs’ reliance on Invitrogen Corp. v. Clontech Labs., Inc., 429 F.3d 1052 (Fed. Cir. 2005) is

1 somewhat misplaced. There, the claims described a compound—an enzyme containing a genetic  
2 mutation—without regard to the method used to create the genetic mutation. Id. at 1070. Because  
3 the claims did not limit the method of making the mutation, the disclosure of one method of making  
4 the compound satisfied the enablement requirement. Id. at 1071. Here, by contrast, the issue is  
5 whether the specification teaches one of skill in the art how to make and use the claimed method,  
6 that is, a method of staining DNA using blocking probes in *in situ* hybridization to permit detection  
7 of unique nucleic acid segments in a target chromosome. In order to claim a broad method, the  
8 specification must teach those of skill in the art how to make and use the full scope of the claimed  
9 method. The method may be broad, but the method is still limited to the terms of the claims, unlike  
10 the method of making the claimed compound in Invitrogen. Thus, it is not enough to disclose one  
11 way of carrying out the method, if it does not teach one how to carry it out to a degree at least  
12 commensurate in scope with the claim under consideration. See, e.g., Warner-Lambert Co. v. Teva  
13 Pharms. USA, Inc., 418 F.3d 1326, 1337 (Fed. Cir. 2005) (“The purpose of [the enablement]  
14 requirement is to ensure that the public knowledge is enriched by the patent specification to a degree  
15 at least commensurate with the scope of the claims.”).

16           It is also not enough, however, to allege that the claimed method is not enabled because the  
17 specification does not teach technology that arose after the time the patent application was filed. See  
18 Chiron Corp. v. Genentech, Inc., 363 F.3d 1247, 1254 (Fed. Cir. 2004) (“new technology [that]  
19 arose after the filing date . . . was, by definition, outside the bounds of the enablement  
20 requirement”). It is not enough, therefore, for Dako to allege that the ‘841 patent fails to teach how  
21 to pre-treat FFPE tissue so that the labeled probes have optimal access to the target chromosomal  
22 DNA. This measure of diagnostic certainty in labeling results was not achieved, or indeed even  
23 possible, in *in situ* hybridization using FFPE tissue at the time the ‘841 application was filed.  
24 Because the optimization of such a protocol required significant experimentation in 1986, and  
25 apparently for several years thereafter, it is enough that the the ‘841 patent provided “reasonable  
26 detail” of how to modify its specific teachings in order to successfully carry out the claimed *in situ*  
27 hybridization method for a broad variety of applications. See Genentech, Inc. v. Novo Nordisk A/S,

28

1 108 F.3d 1361, 1366-68 (Fed. Cir. 1997) (contrasting an enabling “specific and useful teaching”  
2 with a non-enabling “mere germ of an idea”).

3 The court finds that Dako has failed to prove that the claimed *in situ* hybridization methods  
4 would not have generally been understood by one of ordinary skill in the art to apply similarly to the  
5 chromosomal DNA of different organisms, using different probes directed to different chromosomal  
6 targets. “Stripped to its basics, defendants’ argument is one of “overbreadth,” but that word alone  
7 has long ago been discredited as a basis for determining sufficiency of a specification.” Phillips  
8 Petroleum, 865 F.2d at 1251. A broad concept, which works in practice, is entitled to broad claims.  
9 See Hogan, 559 F.2d at 606. Because Dako has failed to present clear and convincing evidence that  
10 the specification does not satisfy the written description and enablement requirements of 35 U.S.C.  
11 section 112, defendants’ motion for summary judgment of invalidity of the ‘841 patent is **DENIED**.

12  
13 II. Summary Judgment on the Issue of Inequitable Conduct

14 Inequitable conduct is a judicially created doctrine designed to prevent fraudulent conduct  
15 before the PTO. Those who participate in proceedings before the PTO have a duty to do so with the  
16 “highest degree of candor and good faith.” Kingsland v. Dorsey, 338 U.S. 318, 319 (1949); see also  
17 37 C.F.R. § 1.56(a) (The “duty of candor and good faith in dealing with the [PTO] . . . includes a  
18 duty to disclose to the [PTO] all information known to that individual to be material to patentability  
19 . . .”). The inequitable conduct doctrine was “borne out of a series of Supreme Court cases in which  
20 the Court refused to enforce patents whereby the patentees had engaged in fraud in order to procure  
21 those patents.” Digital Control, 437 F.3d at 1315. As one court explained:

22 No man should be granted a patent where his conduct has been such that any grant to  
23 him will be clouded with forgery and perjury or fraud practiced upon the Patent  
24 Office; and where it appears, at any stage of the proceedings, that an applicant has  
25 been guilty of conduct of this sort, he should be denied all further relief.

26 Mas v. Coca-Cola Co., 163 F.2d 505, 510 (4th Cir. 1947); see also Precision Instrument Mfg. Co. v.  
27 Auto. Maint. Mach. Co., 324 U.S. 806, 819 (1945) (recognizing “the public policy against the  
28 assertion and enforcement of patent claims infected with fraud and perjury”).

Dako has moved for summary judgment that the ‘841 patent is unenforceable for inequitable  
conduct during the prosecution of the patent, on the grounds that one of the named inventors, Dr.

1 Pinkel, made three highly material false and misleading statements to the PTO during the  
2 prosecution of the patent application with an intent to deceive. Plaintiffs, in turn, have moved for  
3 summary judgment of no inequitable conduct. Plaintiffs contend that there is no clear and  
4 convincing evidence that Dr. Pinkel's statements were material misrepresentations, and even if Dr.  
5 Pinkel's statements were misrepresentations, there is no clear and convincing evidence that Dr.  
6 Pinkel intentionally lied, rather than erred, in making the statements. Both parties' motions turn on  
7 three specific statements made in Dr. Pinkel's declaration and in accompanying remarks that were  
8 submitted to the PTO in response to the patent examiner's rejection of then-pending claims. The  
9 court addresses each of the three allegedly material misrepresentations/omissions in the Pinkel  
10 declaration in turn.

11 (i) Usefulness of Sealey Reference

12 The first alleged misstatement is from a 1993 declaration to the PTO in which Dr. Pinkel  
13 stated it was his opinion that "a person skilled in the art of *in situ* hybridization would not have  
14 considered the blocking technique of Sealey et al[.] to be useful in *in situ* hybridizations prior to the  
15 filing of our grandparent application in January 1986." Derrick Dec., Exh. 6 ¶ 10. Dako argues that  
16 Dr. Pinkel knew this statement was false based on personal information he received from colleagues  
17 in the field. Dako alleges that before January 1986, several of Dr. Pinkel's colleagues brought the  
18 Sealey reference to Dr. Pinkel's attention as a reference that could be useful in *in situ* hybridization.  
19 In support of this allegation, Dako submitted internal notes sent in 1985 and deposition testimony  
20 from a colleague who recalled bringing up the Sealey reference to Dr. Pinkel because he believed it  
21 "was directly applicable" to Dr. Pinkel's work. Derrick Dec., Exh. 27; Exh. 28 at UCAT00000067-  
22 68. Therefore, Dako alleges, Dr. Pinkel knew his sworn statement about the lack of usefulness of  
23 the Sealey reference was false.

24 Plaintiffs, however, argue that Dr. Pinkel's statement regarding the applicability of the  
25 Sealey reference was not false because it was phrased as an opinion—Dr. Pinkel's advocacy of his  
26 own view of the prior art, a view that the examiner was free to accept or reject, and a view that Dr.  
27 Pinkel continues to stand by today. See Tyz First Dec., Docket No. 218, Exh. 10 at 129-31; see also  
28 Akzo N.V. v. U.S. Int'l Trade Comm'n, 808 F.2d 1471, 1482 (Fed. Cir. 1986) (holding that it was

1 not a material misrepresentation to advocate for a particular interpretation of the art, because the  
2 examiner was free to reach his own conclusion regarding how to interpret the art). Plaintiffs also  
3 contend that the inventors received the Sealey reference only after requesting references for blocking  
4 techniques from their colleagues, so the fact that the reference was provided does not show that one  
5 of skill in the art would have thought it useful without such a request. See Tyz Second Dec., Docket  
6 No. 233, Exh. 4 at 62:25-64:13, 65:17-66:1. Finally, plaintiffs argue that evidence of the work of  
7 other research groups in the field does not undermine the statement, because Dr. Pinkel does not  
8 recall learning before January 1986 that either group had successfully used the Sealey technique in  
9 *in situ* hybridization, and because the published articles from these groups that explicitly suggested  
10 using the Sealey technique were not published until after January 1986.

11 (ii) Limited Use of Blocking Copies

12 The second alleged misstatement comes from the same 1993 declaration. In it, Dr. Pinkel  
13 stated that prior to January 1986, “the use of blocking copies of a sequence in *in situ* hybridization  
14 had been limited to testing whether a hybridization signal was due to repeat sequences.” Derrick  
15 Dec., Exh. 6 ¶ 8. Dako argues that Dr. Pinkel knew this statement was false because he knew that  
16 prior to January 1986, the van der Ploeg research group had used blocking DNA in *in situ*  
17 hybridization to detect unique sequences. In September 1985, Dr. Pinkel visited the van der Ploeg  
18 laboratory, although Dr. Pinkel has no notes from the visit and has no recollection of what was  
19 discussed during the visit. Undisputed Facts ¶¶ 23-25. Dako asserts, and plaintiffs do not dispute,  
20 that Dr. Pinkel returned with a collection of protocols from the van der Ploeg lab. Shortly thereafter,  
21 on December 4, 1985, Dr. Pinkel presented a seminar at Lawrence Livermore National Laboratories  
22 (“LLNL”). Id. ¶ 26. On December 6, 1985, Dr. Pinkel and a colleague, Dr. Langlois, attended an  
23 internal meeting at LLNL. Id. ¶¶ 28-29. Dr. Langlois took notes at that meeting which referred to a  
24 European Meeting. Id. ¶ 30. The parties dispute the substance of Dr. Langlois’s notes. Dr. Langlois  
25 testified that he did not recall the meeting, but interpreted his note as saying that someone thought  
26 the pre-hybridization blocking technique to detect unique sequences in *in situ* hybridization might  
27 work. See Derrick Dec., Exh. 18 at 130:11-22.

28

1           Dako also points to language in a February 1986 grant application to support its contention  
2 that Dr. Pinkel knew others, specifically the van der Ploeg group, were using blocking DNA to  
3 detect unique sequences. In this grant application, Dr. Pinkel wrote that a method of “blocking of  
4 repetitive sequences by prehybridization of the probe and target with genomic DNA . . . has been  
5 demonstrated on Southern blot, but its effectiveness for *in situ* hybridization is not established  
6 except in specific instances (M van der Ploeg, private communication).” *Id.*, Exh. 21 at UCA003850  
7 (emphasis added). According to Dako, this language further demonstrates that prior to January  
8 1986, Dr. Pinkel knew that the van der Ploeg group had used blocking DNA to detect unique  
9 sequences, at least in limited instances, and therefore his 1993 declaration to the contrary was a  
10 misrepresentation to the PTO.

11           Plaintiffs argue that Dr. Pinkel’s statement was not a misrepresentation because it was  
12 another advocacy of an opinion—introducing and summarizing Dr. Pinkel’s opinion of two prior art  
13 references that were before the examiner. Plaintiffs argue that the language in the declaration is an  
14 excerpt of a sentence that, when viewed in full and in the context of the entire declaration, could not  
15 be considered a material misrepresentation of fact by any rational fact-finder. *See Chiron Corp. v.*  
16 *Abbott Labs.*, 902 F. Supp. 1103, 1114 (N.D. Cal. 1995) (Patel, J.). The relevant paragraph in Dr.  
17 Pinkel’s declaration reads:

18           8. *Until our grandparent application was filed in January 1986, the use of blocking*  
19 *copies of a sequence in in situ hybridization had been limited to testing whether a*  
20 *hybridization signal was due to repeat sequences.* Yunis et al, cited by the examiner,  
state at page 335, the last three lines that:

21           The experimental design used in this work favored hybridization of repeated  
22 gene sequences and provides cytological evidence for their widespread  
distribution in the human genome.

23           Yunis further states in the first three lines at the top of page 342 that:

24           This suggests that, under the *in situ* hybridization conditions used, the majority  
25 of the chromosomal labeling observed represents repeated rather than  
non-repeated gene sequences.

26           Thus, the focus of Yunis et al was on hybridization of sequences that are repeated in  
27 the normal genome, and there is no hint from the results of Yunis et al that unique  
sequences of chromosomal DNA could be targeted. Moreover, there is nothing to  
suggest what the remainder of the signal was due to.

28           Tyz First Dec., Exh. 4 at Tab 21, UCA001593 (emphasis added).

1 Plaintiffs argue that in this context, it is evident that Dr. Pinkel was advocating his view of  
2 the prior art that the examiner was free to accept or reject.<sup>10</sup> Plaintiffs also argue that Dr. Pinkel’s  
3 statement was accurate on its face, because there was no *prior art* disclosing the use of blocking in  
4 *in situ* hybridization to detect unique sequences and because the notes and comments in the grant  
5 application, taken together, do not prove by clear and convincing evidence that the van der Ploeg  
6 laboratory had used blocking in *in situ* hybridization prior to January 1986. Plaintiff also note that  
7 Dako does not contend the van der Ploeg work invalidates the ‘841 patent.

8 Dako counters that this statement should not be viewed as an opinion of the cited art, first  
9 because on its face the statement is not prefaced with qualifying language such as “in my opinion”  
10 or “in the cited references,” and second because Dr. Pinkel admitted in his deposition that the  
11 statement was essentially not true in light of the notes taken at the December 6, 1985, seminar, i.e.,  
12 “that [blocking] had been used” in *in situ* hybridization to detect unique sequences before the  
13 January 1986 filing date. Derrick Dec., Exh. 3 at 133-34. More fundamentally, Dako contends the  
14 statement was inaccurate because it was inconsistent with personal knowledge that Dr. Pinkel had  
15 gained and had a duty to disclose to the PTO.

16 (iii) Landegent Reference

17 The third alleged misstatement comes from remarks accompanying the 1993 Pinkel  
18 declaration, in which applicants stated that a 1987 article by Landegent et al. was “another indication  
19 of the failure of the art to consider blocking in connection with *in situ* hybridization” because the  
20 article, published more than a year after applicants’ January 1986 filing date, discussed “the use of  
21 blocking in *in situ* hybridization as a novel technique.” Derrick Dec., Exh. 5 at 12. Dako contends  
22 that this statement was grossly misleading because Dr. Pinkel knew the research group had used  
23 blocking in *in situ* hybridization long before the article was submitted for publication in 1987.

24 In support of its argument, Dako points to the February 1986 grant application in which Dr.  
25 Pinkel referred to “specific instances” in which the research group had used blocking in *in situ*  
26 hybridization. Id., Exh. 21 at UCA003850. Additionally, because they were in the same field, Dr.  
27 Pinkel and Dr. Gray were likely aware of a 1986 publication by that research group in which the  
28 authors stated they were currently investigating whether background in *in situ* hybridization could be

1 eliminated by competitive hybridization such as that taught by the Sealey reference. Id., Exh. 30.  
2 Plaintiffs, however, argue that the statement was not misleading because the examiner was not  
3 misled by applicants' characterization of the article but rather was influenced by the unsuccessful  
4 attempts at using blocking that were described in the article. See id., Exh. 12 at 4-5.

5 A. Dako's Motion for Summary Judgment of Unenforceability for Inequitable Conduct

6 Dako has moved for summary judgment that the '841 patent is unenforceable for inequitable  
7 conduct during the prosecution of the patent, on the grounds that these three statements were false or  
8 misleading, highly material and made with an intent to deceive the PTO. As the party asserting  
9 inequitable conduct, Dako must prove by clear and convincing evidence that "the applicant (1) made  
10 an affirmative misrepresentation of material fact, failed to disclose material information, or  
11 submitted false material information, and (2) intended to deceive the [PTO]." Star Scientific, Inc. v.  
12 R.J. Reynolds Tobacco Co., 537 F.3d 1357, 1365 (Fed. Cir. 2008). If Dako proves a threshold level  
13 of both materiality and intent, the court will then determine whether the questioned conduct amounts  
14 to inequitable conduct by balancing the levels of materiality and intent, with a greater showing of  
15 one factor allowing a lesser showing of the other. Digital Control, 437 F.3d at 1313; Purdue Pharma  
16 L.P. v. Endo Pharms. Inc., 438 F.3d 1123, 1128 (Fed. Cir. 2006).

17  
18 At the outset, plaintiffs argue that this court has already determined that these types of  
19 allegations are not sufficient to justify granting summary judgment on the issue of inequitable  
20 conduct. In an action brought by UC Regents against another party, Oncor, for infringement of the  
21 '841 patent, Oncor filed a motion for summary judgment of unenforceability for inequitable conduct  
22 during the prosecution of the '841 patent. Regents of Univ. of Cal. v. Oncor, Inc., 1997 U.S. Dist  
23 LEXIS 15068, 44 U.S.P.Q.2d 1321, 1329-30 (N.D. Cal. 1997) (Walker, J.). Oncor alleged that Dr.  
24 Pinkel's statement that one of skill in the art would not have considered the blocking technique of  
25 Sealey to be useful in *in situ* hybridization was a half-truth because Dr. Pinkel was exposed to  
26 information that others in the field had recognized the applicability of Sealey to *in situ* hybridization.  
27 Id. at 1329-30. Oncor also alleged that the inventors committed inequitable conduct by withholding  
28

1 from the examiner information that blocking techniques for *in situ* hybridization had already been  
2 successfully used and reported by others.

3 Oncor’s motion for summary judgment of unenforceability based on Dr. Pinkel’s statement  
4 regarding his opinion of the usefulness of the Sealey reference was denied, on the grounds that Dr.  
5 Pinkel was “merely engaging in argumentation of his case on obviousness” rather than trying to  
6 deceive the examiner. Id. With regard to the allegation of inequitable conduct by withholding  
7 information—that others had successfully used and reported on the use of blocking techniques for *in*  
8 *situ* hybridization—the Oncor court struck this inequitable conduct defense for not being specifically  
9 pled in Oncor’s answer. Id.

10 On a renewed motion for summary judgment on the unenforceability of the ‘841 patent,  
11 however, the Oncor court addressed on the merits the issue of whether Drs. Gray and Pinkel had  
12 specific knowledge that other scientists had developed similar blocking techniques and failed to  
13 disclose such knowledge to the PTO. In its order denying summary judgment, the Oncor court  
14 found evidence that some of the information concerning blocking techniques for *in situ*  
15 hybridization used and reported by others, namely, the Dutch scientists in Holland, may have been  
16 material. See Order, Case No. 95-03084-VRW, Docket No. 178 (unpublished, entered 12/23/1997)  
17 at 6:3-7. However, the court denied summary judgment on the basis that genuine issues of material  
18 fact existed with respect to intent. The court concluded by stating “[o]f course, it would have been  
19 wiser for Gray and Pinkel to disclose this material, but at this stage of the litigation the court refuses  
20 to equate, as a matter of law, apparently bad judgment an intent to defraud the PTO.” Id. at 7:5-8.<sup>11</sup>  
21 The case later settled.

22 Here, plaintiffs argue that Dako’s inequitable conduct allegations offer nothing new to justify  
23 a finding of inequitable conduct in this case. The court rejects plaintiffs’ contention that there is no  
24 issue for this court to consider and proceeds with the analysis. The first factor, materiality, may be  
25 judged by the “reasonable examiner” standard. Digital Control, 437 F.3d at 1316. That is,  
26 materiality embraces any information that a reasonable examiner would substantially likely consider  
27 important in deciding whether to allow an application to issue as a patent. McKesson Info.  
28 Solutions, Inc. v. Bridge Med., Inc., 487 F.3d 897, 913 (Fed. Cir. 2007); In re Jerabek, 789 F.2d 886,

1 890 (Fed. Cir. 1986). Information concealed from the PTO may be material even though it would  
2 not invalidate the patent, although withheld information that is merely cumulative to the information  
3 already considered by the examiner is not material for the purpose of inequitable conduct even if it  
4 would be considered material in isolation. McKesson, 487 F.3d at 913. The second factor, intent to  
5 deceive, “need not, and rarely can, be proven by direct evidence.” Impax Labs., Inc. v. Aventis  
6 Pharms., Inc., 468 F.3d 1366, 1375 (Fed. Cir. 2006). Rather, intent to deceive may be inferred from  
7 the facts and circumstances surrounding the applicant’s overall conduct. Id. A showing of  
8 materiality alone, however, does not give rise to a presumption of intent to deceive. Praxair, 543  
9 F.3d at 1313.

10 Turning first to materiality, the court finds that two of the three challenged statements cannot  
11 properly be called misrepresentations of material fact. Firstly, Dr. Pinkel’s statement regarding  
12 whether a person skilled in the art would have considered the Sealey reference to be useful in *in situ*  
13 hybridizations was not a statement of fact, but rather was an assertion of opinion during the course  
14 of advocacy before the PTO. An argument for distinguishing prior art is generally not a material  
15 misrepresentation when it does not contain any factual assertions. See, e.g., Life Techs., Inc. v.  
16 Clontech Labs., Inc., 224 F.3d 1320, 1326 (Fed. Cir. 2000); see also Akzo, 808 F.2d at 1482.  
17 Dako’s assertion to the contrary, that opinions are no different from statements of fact, stems from  
18 its improper reliance on a case that stated “affidavits are inherently material.” See Refac Int’l, Ltd.  
19 v. Lotus Dev. Corp., 81 F.3d 1576, 1583 (Fed. Cir. 1996). This quote referred to the fact that  
20 affidavits are not rendered less meaningful if they are cumulative to other affidavits. In Refac, the  
21 affidavit in question involved an affiant’s failure to disclose a prior association, and the court held  
22 that the non-disinterested nature of the affiant “would have been important to the examiner . . .  
23 particularly when the examiner had *no way of otherwise obtaining the omitted information about*  
24 *Jones’s background.*” Id. at 1582 (emphasis added).

25 This is not the case for the Sealey reference here, where the examiner was able to reach his  
26 or her own conclusion regarding that cited piece of prior art. Pinkel’s statement about the Sealey  
27 reference was qualified by the phrase “it is my opinion,” which can reasonably be understood to be  
28 summarizing the preceding explanations of the prior art—art that was all before the examiner.

1 Although Dako presented evidence that the inventors were provided with the Sealey reference by  
2 colleagues before the filing date, plaintiffs have countered with evidence that the inventors prompted  
3 their colleagues to provide blocking references such as Sealey. Furthermore, there is no conclusive  
4 evidence that the inventors knew before January 1986 whether other labs, such as the van der Ploeg  
5 lab, specifically considered the Sealey reference to be useful.

6 Similarly, the court finds that applicants' statement that the Landegent article was another  
7 indication of the failure of the art to consider blocking in connection with *in situ* hybridization was  
8 an opinion without misrepresentation of material fact. Applicants were not asserting that the use of  
9 blocking had never been attempted before the Landegent article's submission date, but rather they  
10 were arguing generally for patentability by showing that a later-published article discussed the use  
11 of blocking in *in situ* hybridization as a novel technique. This assertion plainly does not render the  
12 Pinkel declaration a "false affidavit" that would be "inherently material." See Digital Control, 437  
13 F.3d 1309, 1318 (Fed. Cir. 2006), citing Refac, 81 F.3d at 1583.

14 However, the court finds that Dako has shown clear and convincing evidence that Dr.  
15 Pinkel's statement that "the use of blocking copies of a sequence in *in situ* hybridization had been  
16 limited to testing whether a hybridization signal was due to repeat sequences" was a  
17 misrepresentation of a material fact. Although this statement precedes a discussion of the art before  
18 the patent examiner, the statement on its face is phrased as an assertion, not an opinion. The  
19 statement is not qualified with a phrase like "in my opinion," nor does it limit itself to *use in the*  
20 *prior art*, but rather it implies *any* use.

21 Even if plaintiffs are correct that the prior art did not disclose the use of blocking in *in situ*  
22 hybridization to detect unique sequences, Dako has presented evidence that applicants knew of such  
23 a use that was not in the prior art. Following a visit to the van der Ploeg laboratory, Dr. Pinkel  
24 acknowledged that laboratory's limited use of blocking in *in situ* hybridization in a February 1986  
25 grant application. Dr. Langlois's notes from the December 1985 seminar also indicated that  
26 blocking had been done in *in situ* hybridization before January 1986. Furthermore, Dr. Pinkel  
27 admitted in his deposition that the statement in his declaration was not accurate in light of this  
28 evidence. Omission of a prior use of blocking in *in situ* hybridization to detect unique sequences is

1 also material, as a reasonable examiner would consider information that is inconsistent with an  
2 applicant's position regarding patentability to be important when examining the application. See Eli  
3 Lilly, 119 F.3d at 1575 (“[w]hat is relevant is whether [the withheld material] discloses subject  
4 matter relevant to the examination of the . . . patent application that is not taught by the [material  
5 already before the PTO].”)

6 Indeed, the prosecution history of the ‘841 patent indicates that the examiner considered Dr.  
7 Pinkel’s statement concerning the use of blocking copies in *in situ* hybridization as being limited to  
8 testing whether a hybridization signal was due to repeat sequences at the time, important in that she  
9 relied on it in her decision to allow the application to issue as a patent. See McKesson, 487 F.3d 897  
10 at 912-14. Specifically, in the Notice of Allowability, the examiner cited the March 4, 1993, Pinkel  
11 declaration among the reasons for allowing the claims, stating:

12 The Declaration of Daniel Pinkel, Ph.D., filed 3/4/93, also supports the direction in  
13 the art as being away from the procedure of the instant invention. That is as  
14 summarized therein, *in situ* hybridization as performed in the art at the time of the  
15 instant invention was directed to labeling single copy sequences *in situ* by using  
labeled probes prepared so as to remove any repetitive sequences prior to  
hybridization rather than to use complex probes as given in the instant invention and  
then to block repetitive sequences by repetitive competitor nucleic acid molecules.

16 Tyz First Dec., Exh. 4 at Tab 21, UCA001756.

17 This reasoning in the prosecution history evidences a clear reliance by Examiner Parr on Dr.  
18 Pinkel’s declaration to determine that others in the art were not using blocking DNA to detect unique  
19 sequences in *in situ* hybridization. Plaintiffs’ position is that Dr. Pinkel’s statement regarding the  
20 limited use of blocking copies in *in situ* hybridization was not a misrepresentation based on what Dr.  
21 Pinkel knew about the art when he described his invention to his patent attorney in August 1985, i.e.,  
22 before his visit to the van der Ploeg lab. This position is entirely unavailing, however, because Dr.  
23 Pinkel’s statement regarding the use of blocking copies expressly stated that the use was limited  
24 “until our grandparent application was filed in January 1986 . . . .” Thus, it is irrelevant when Dr.  
25 Pinkel disclosed his invention to his patent attorney. A reasonable examiner would have concluded  
26 that Dr. Pinkel was speaking about the general direction in the art as of the filing date of the  
27 application, as Examiner Parr concluded. Accordingly, the court finds that the evidence presented  
28 by Dako, taken together, provides clear and convincing evidence that Dr. Pinkel’s statement that

1 “the use of blocking copies of a sequence in *in situ* hybridization had been limited to testing whether  
2 a hybridization signal was due to repeat sequences” was a misrepresentation of a material fact.

3 Although Dako has met its burden with respect to the materiality prong for one statement, the  
4 court finds that Dako has not met its burden with respect to proving intent to deceive the PTO. An  
5 accused infringer must prove that “an applicant had the *specific intent* to . . . mislead or deceive the  
6 PTO. In a case involving nondisclosure of information, clear and convincing evidence must show  
7 that the applicant *made a deliberate decision* to withhold” information. Star Scientific, 537 F.3d at  
8 1366, quoting Molins PLC v. Textron, Inc., 48 F.3d 1172, 1181 (Fed. Cir. 1995) (emphasis in  
9 original). “[M]ateriality does not presume intent, and nondisclosure, by itself, cannot satisfy the  
10 deceptive intent element.” Larson Mfg. Co. of S.D., Inc. v. Aluminart Prods., Ltd., --- F.3d ----,  
11 2009 WL 691322, \*16 (Fed. Cir. 2009). Even gross negligence is insufficient to prove intent to  
12 deceive. Kingsdown Med. Consultants, Ltd. v. Hollister, Inc., 863 F.2d 867, 876 (Fed. Cir. 1988)  
13 (*en banc* in relevant part).

14 The Federal Circuit has suggested that an inference of intent may be drawn when “(1) highly  
15 material information is withheld; (2) ‘the applicant knew of the information [and] . . . knew or  
16 should have known of the materiality of the information; and (3) the applicant has not provided a  
17 credible explanation for the withholding.’” Praxair, 543 F.3d at 1313-14, quoting Ferring B.V. v.  
18 Barr Labs., Inc., 437 F.3d 1181, 1191 (Fed. Cir. 2006). However, this inference must “not only be  
19 based on sufficient evidence and be reasonable in light of that evidence, but it also must be the  
20 *single most reasonable inference* able to be drawn from the evidence to meet the clear and  
21 convincing standard.” Star Scientific, 537 F.3d at 1366-67 (emphasis added). The Federal Circuit  
22 has recently given specific guidance with respect to the deceptive intent prong, cautioning district  
23 courts not to infer intent without clear and convincing circumstantial evidence and reminding courts  
24 to “take into account any evidence of good faith, which militates against a finding of deceptive  
25 intent.” Larson, 2009 WL 691322 at \*16.

26 Here, Dako’s evidence of intent is that Dr. Pinkel knew his statements were false, (2) he  
27 knew or should have known the information was material and (3) he had no credible explanation for  
28 submitting false statements or withholding material information. Dako argues that intent should be

1 inferred because Dr. Pinkel felt a heightened sense of competition with the van der Ploeg laboratory  
2 and because he affirmatively submitted his false statement, the truth of which could not be  
3 investigated by the examiner, in a sworn affidavit that was meant to persuade the examiner to  
4 withdraw his rejections. Dako also argues it is not believable that Dr. Pinkel would not remember to  
5 disclose this information in light of a 1993 time line he assembled of events from the 1985-1986  
6 period related to blocking. Derrick Dec., Exh. 39 at UCA004197. This time line included the  
7 comment, “I presented blocking in my divisional seminar at LLNL [the December 4, 1985,  
8 seminar].” Id.

9       Although the court finds Dako’s inference—that Dr. Pinkel made a deliberate decision to  
10 withhold this information from the PTO out of a sense of competition with the van der Ploeg  
11 laboratory—to be a reasonable one, it is not convinced that this inference meets the “elevated  
12 evidentiary burden” that is required for the inequitable conduct defense. See Star Scientific, 537  
13 F.3d at 1365. “Inequitable conduct requires not intent to withhold, but rather intent to deceive.”  
14 Dayco Prods., Inc. v. Total Containment, Inc., 329 F.3d 1358, 1367 (Fed. Cir. 2003). The fact that  
15 information later found material was not disclosed is insufficient, by itself, to satisfy the deceptive  
16 intent element of inequitable conduct. See M. Eagles Tool Warehouse, Inc. v. Fisher Tooling Co.,  
17 439 F.3d 1335, 1340 (Fed. Cir. 2006). Furthermore, the court does not give weight to plaintiffs’  
18 lack of a credible explanation, because the patentee need not offer any good faith explanation unless  
19 the accused infringer first carries his burden to prove a threshold level of intent to deceive. Star  
20 Scientific, 537 F.3d at 1368; see also Dayco, 329 F.3d at 1367 (“[i]ntent to deceive cannot be  
21 inferred simply from the decision to withhold . . . where the reasons given for the withholding are  
22 plausible.”).

23       The court is mindful of the Federal Circuit’s caution that summary judgment of inequitable  
24 conduct is a “draconian result” that should be used sparingly, particularly where motive and intent  
25 play leading roles. Kangaroos U.S.A., Inc. v. Caldor, Inc., 778 F.2d 1571, 1573-74, 1577 (Fed. Cir.  
26 1985); see also M. Eagles Tool Warehouse, 439 F.3d at 1341-43. Here, it is appropriate to leave it  
27 to the fact finder to evaluate all of the facts and circumstances of this case in determining whether  
28 Dr. Pinkel intended to deceive the PTO through his false statement and failure to disclose

1 information. Accordingly, Dako's motion for summary judgment of unforceability for inequitable  
2 conduct is **DENIED**.

3 B. Plaintiffs' Motion for Summary Judgment of No Inequitable Conduct

4 Plaintiffs have moved for summary judgment of no inequitable conduct on the grounds that  
5 Dako cannot show by clear and convincing evidence that the statements at issue were material  
6 misrepresentations or that Dr. Pinkel intentionally lied, rather than erred, in making the statements.  
7 Although at trial Dako would bear the burden of proving inequitable conduct by clear and  
8 convincing evidence, at the summary judgment stage plaintiffs, as the moving party, must show the  
9 absence of a genuine issue of material fact in order for the court to grant their motion. Celotex, 477  
10 U.S. at 323.

11 Turning first to the materiality factor, the court finds that Dako has shown clear and  
12 convincing evidence that Dr. Pinkel's 1993 statement regarding whether blocking had previously  
13 been used in *in situ* hybridization to detect unique sequences was a misrepresentation of a material  
14 fact. As discussed above, Dr. Pinkel did not qualify the statement as an opinion or as only  
15 addressing the cited art in front of the examiner. Rather, it was an assertion of fact that was  
16 contradicted by his knowledge, through private communications with the van der Ploeg laboratory,  
17 that blocking had been used in *in situ* hybridization to detect unique sequences in at least some  
18 limited instances. Dr. Pinkel even acknowledged the statement was inaccurate; that blocking had  
19 been used in *in situ* hybridization to detect unique sequences before the January 1986 filing date.  
20 This failure to disclose information was also material because it was inconsistent with applicants'  
21 position regarding the patentability of the invention.

22 Turning next to the intent to deceive factor, the court finds that Dako has raised a genuine  
23 issue of material fact as to whether Dr. Pinkel failed to disclose this information with intent to  
24 deceive the PTO. Plaintiffs argue that Dako has no evidence of intent and they suggest the most  
25 credible explanation for Dr. Pinkel's failure to disclose the information from the van der Ploeg  
26 laboratory is that he forgot about it in the intervening eight years. Dako, however, argues that intent  
27 can be inferred from the fact that Dr. Pinkel affirmatively submitted his false statement in a sworn  
28 affidavit to the examiner where the examiner was unable to investigate the truth or falsity of the

1 statement. See, e.g., eSpeed, Inc. v. BrokerTec USA, L.L.C., 480 F.3d 1129, 1138 (Fed. Cir. 2007);  
2 Paragon Podiatry Lab., Inc. v. KLM Labs., Inc., 984 F.2d 1182, 1191 (Fed. Cir. 1993). Furthermore,  
3 Dako presented evidence to refute plaintiffs' explanation that Dr. Pinkel forgot about the  
4 information. Specifically, Dako presented Dr. Pinkel's detailed time line of events from 1985-1986  
5 relating to the development of the blocking technique, which included references to Dr. Pinkel's  
6 December 4, 1985, seminar in which he presented blocking, even though at that time he and Dr.  
7 Gray had not yet been successful in using blocking. See Derrick Dec., Exh. 3 at 100-02. This  
8 evidence is sufficient to raise a genuine issue of material fact as to whether Dr. Pinkel intended to  
9 deceive the PTO in making the statement and in failing to disclose information. Accordingly,  
10 plaintiffs' motion for summary judgment of no inequitable conduct is **DENIED**.

11

12 CONCLUSION

13 For the foregoing reasons, defendants' motion for summary judgment of invalidity of the  
14 '841 patent is **DENIED**; defendants' motion for summary judgment of unenforceability for  
15 inequitable conduct is **DENIED**; and plaintiffs' motion for summary judgment of no inequitable  
16 conduct is **DENIED**.

17 Plaintiffs' motion to strike the report of Dr. Singer is **DISMISSED** as moot, as the report has  
18 been later sworn to, Dr. Singer confirmed the opinions expressed therein, and the objected-to  
19 testimony did not form a basis upon which the court decided the parties' respective motions for  
20 summary judgment.

21 IT IS SO ORDERED.

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23 Dated: April 22, 2009

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MARILYN HALL PATEL  
United States District Court Judge  
Northern District of California

ENDNOTES

1  
2 1. In *in situ* DNA hybridization, sections of nucleic acid that are labeled, usually with a fluorescent dye  
3 (“hybridization probes”), are bonded to complementary “target” regions of chromosomal  
4 DNA—typically, sections which encode a protein of interest. See, e.g., ‘841 patent at cols. 2–3. The  
5 fluorescent label provides visual confirmation of the presence of the target gene. Id.

6  
7 2. Dr. Pinkel’s declaration and the accompanying amendment and remarks were submitted February  
8 12, 1993, but the declaration was unsigned at that time. Applicants submitted a signed version of the  
9 declaration on March 4, 1993. Derrick Dec., Exhs. 5 & 6.

10 3. The Federal Circuit has construed “morphologically identifiable cell nucleus” as one that is capable  
11 of being identified by its form or structure, such that the “morphologically identifiable” language  
12 imposes no requirement that the cell nucleus must retain its full complement of chromosomal DNA.  
13 Regents of Univ. of Cal. v. Dakocytomation Cal., Inc., 517 F.3d 1364, 1380 (Fed. Cir. 2008).

14 4. This is not a case where the potential variation in the ways in which a generic method claim could  
15 be performed is so vast that the patent could not possibly describe the scope of such a claim. The classic  
16 instance of this is the patent Professor Morse obtained for his invention of the telegraph. The patent was  
17 directed to “a method of recording permanently electrical signs, which . . . convey intelligence between  
18 two or more places” and claimed, *inter alia*, “the use of the motive power of the electro or galvanic  
19 current, which I call electromagnetism, however developed, for making or printing intelligible  
20 characters, signs or letters at any distances . . .” The Supreme Court held that claim invalid because  
21 “any one may lawfully accomplish the same end without infringing the patent, if he uses means  
22 substantially different from those described.” O’Reilly v. Morse, 56 U.S. 62, 113 (1853). The Supreme  
23 Court effectively found a lack of written description, stating “he claims an exclusive right to use a  
24 manner and process which he has not described and indeed had not invented, and therefore could not  
25 describe when he obtained his patent.”

26 5. In Westinghouse v. Boyden Power Brake Co., 170 U.S. 537, 561-62 (1898), the Supreme Court  
27 defined a “pioneer” invention as follows:

28  
29 This word, although used somewhat loosely, is commonly understood to denote a patent  
30 covering a function never before performed, a wholly novel device, or one of such  
31 novelty and importance as to mark a distinct step in the progress of the art, as  
32 distinguished from a mere improvement or perfection of what has gone before.

33 The Supreme Court explained that a patent to a pioneer invention “is to receive a liberal construction,”  
34 in view of the fact that the inventor was a pioneer in the field, and the patent is not to be limited to the  
35 particular devices or instrumentalities described by the inventor. See Morley Sewing-Mach. Co. v.  
36 Lancaster, 129 U.S. 263, 286 (1889). Subsequent case law has applied this principle to give claims to  
37 pioneer patents an enhanced breadth of interpretation. See, e.g., Sealed Air Corp. v. U. S. Int’l Trade  
38 Comm’n, 645 F.2d 976, 984 (C.C.P.A. 1981) (“A pioneer invention, performing a function never before  
39 performed, is entitled to liberal application of the doctrine of equivalents.”); Perkin-Elmer Corp. v.  
40 Westinghouse Elec. Corp., 822 F.2d 1528, 1532 (Fed. Cir. 1987) (noting that a pioneer invention is  
41 entitled to a broad range of equivalents); Texas Instruments, Inc. v. U.S. Int’l Trade Comm’n, 846 F.2d  
42 1369, 1370 (Fed. Cir. 1988) (explaining that the judicial “liberal” view of both claim interpretation and  
43 equivalency for pioneer patents “flows directly from the relative sparseness of prior art in nascent fields  
44 of technology.”); Augustine Med., Inc. v. Gaymar Indus., Inc., 181 F.3d 1291, 1301 (Fed. Cir. 1999)  
45 (“Without extensive prior art to confine and cabin their claims, pioneers acquire broader claims than  
46 non-pioneers who must craft narrow claims to evade the strictures of a crowded art field.”); Abbott  
47 Labs. v. Dey, L.P., 287 F.3d 1097, 1105 (Fed. Cir. 2002) (“[a] pioneer patent by definition will have  
48 little applicable prior art to limit it, whereas an improvement patent’s scope is confined by the existing  
49 knowledge on which the improvement is based.”).

1 6. The court places “whole-chromosome probe” in quotation marks because the term implies,  
2 incorrectly, that the probe itself is the length of a whole chromosome. Dako uses this connotation to  
3 argue that probes of much shorter lengths were neither described nor enabled in the ‘841 patent. Dako  
4 states, for example, “the specification’s description of one whole-chromosome probe does not constitute  
5 a representative species of the thousands or millions of whole and partial chromosome probes claimed  
6 in the patent.” See Defs.’ SJ Mot. for Invalidity, Docket No. 227, at 2:10-12 (emphasis in original); and  
7 “the specification fails to describe any chromosomal region or probe length other than the entire human  
8 chromosome 21.” Id. at 10:4-5 (emphasis added). In so doing, Dako is misrepresenting the disclosure  
9 in the ‘841 patent. The “whole-chromosome probes” described in the patent are not each the length of  
10 a whole chromosome, but rather are short, distinct nucleic acid fragments. The average size of the  
11 chromosome 21 DNA insert used in the working example was 5 kbs. See ‘841 patent at 16:26-28. The  
12 patent teaches that:

[E]ach chromosome-specific staining composition of the invention can be viewed as a  
large collection of hybridization probes to unique sequence regions of a specific  
chromosome. In fact, the preferred method of making the compositions of the invention  
entails generating a heterogeneous mixture on a fragment-by-fragment basis . . . and  
selecting . . . hybridization probes to unique sequence regions of a particular  
chromosome.

‘841 patent at 5:54-63. Thus, they are only called “whole-chromosome probes” because the binding  
sites of the labeled fragments, when taken together, permit detection of a whole chromosome.

7. To the extent that Dako makes specific allegations concerning the unpredictability in the “art of *in situ*  
hybridization,” the court finds these arguments not compelling, because they have been infected by  
Dako’s reliance on inapposite case law. Dako misapplies the unpredictability factor to argue that  
plaintiffs have not adequately described a representative number of species in the claimed genus, per  
the Carnegie Mellon, Alonso, and Eli Lilly holdings. For the reasons stated, this analysis is flawed.

8. Conception is a prerequisite to an adequate written description. See Fiers v. Sugano, 984 F.2d 1164,  
1171 (Fed. Cir. 1993) (“[O]ne cannot describe what one has not conceived.”).

9. Dako argues, for example, “[w]hile the claims encompass *in situ* hybridization methods using probes  
directed to any region of any chromosome of any organism, it is undisputed that the inventors were not  
in possession of such an expansive set of probes.” Defs.’ SJ Mot. for Invalidity at 15:11-13. And, “[i]t  
is undisputed that the inventors did not have possession of probes to the entire human genome in 1986,  
as they had only isolated “a few” by that time.” Id. at 17:26-27. And, “[the inventors] did not, however,  
have possession of probes directed to subregions of chromosomes—Dr. Gray admitted that such  
subregion libraries did not even exist in 1986.” Id. at 18:12-14.

10. The court takes note of plaintiffs’ assertion that “[n]otably, the examiner opted to reject the claims  
notwithstanding Dr. Pinkel’s view of the art.” Pls’ Opp. To SJ for Inequitable Conduct, Docket No. 231  
at 5:21-22. This is either a disingenuous statement or a splitting of hairs that the court finds too fine to  
pass the so-called “red face” test. The truth of the matter is, in the next Office Action, the examiner  
specifically stated that applicant’s arguments filed 2/12/93 (which included Dr. Pinkel’s declaration)  
“have been fully considered and they are deemed to be persuasive to overcome the previously applied  
rejections. Rejections and/or objections not reiterated from previous office actions are hereby  
withdrawn.” See Tyz First Dec., Exh. 4, at Tab 21, UCA001628. The examiner then proceeded to issue  
a series of *new* rejections. Plaintiffs’ above assertion cited to the Office Action’s final page, concluding  
only after the old rejections were withdrawn and the new rejections were applied, that “no claim is  
allowed.” Plaintiffs also fail to acknowledge that Dr. Pinkel’s declaration was again relied upon to  
argue the new rejections, and the examiner subsequently withdrew those rejections. See Derrick Dec.,  
Exhs. 8 & 9. This pattern repeated itself once more, id., Exhs. 10 & 11, and the examiner finally  
allowed the application, citing Dr. Pinkel’s declaration among the reasons for allowance. The court  
notes, with some irony, that it would have behooved plaintiffs to acknowledge the true “full context”  
in which Dr. Pinkel’s declaration was considered.

1 11. The court specifically asked the parties at the hearing on this matter what the outcome was of the  
2 renewed motion for summary judgment on this issue in the Oncor litigation, and was incorrectly  
3 informed that the issue had not been addressed on the merits. Apparently neither party took the time  
4 or effort to determine the correct answer. In fact, the court had addressed the issue and found materiality  
5 but also found genuine factual issues concerning an intent to deceive. While the decision was  
6 unpublished, it was also public, and plaintiff certainly should have had ready access to these related  
7 litigation files of its client. Yet, plaintiff began its opposition brief on this issue before this court by  
8 pointing to the published Oncor denial of summary judgment *only* (in which the allegations in question  
9 were struck on procedural grounds) and argued that Dako's inequitable conduct allegations offer  
10 "nothing new to justify a different conclusion a decade later"-- an audacious maneuver given that the  
11 court file is readily available to the court.  
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