

Five Cases from the Last Two Years Likely to Have a Big Impact on Life Sciences IP

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Technical Minds. Legal Muscle.

Top Five Cases...

- #5: *Helsinn v Teva* (are public non enabling sales prior art ?)
- #4: *Amgen v Sanofi* (written description of antibody claims)
- #3: *U California v Broad* (obviousness v. enablement)
- #2: *Natural Alternatives v Creative Cpds* (eligibility of natural products)
- #1: *Vanda v Westward* (direct and induced “paper” infringement by ANDA applicants)

... and

- Emerging rules on the eligibility of method/process claims

#5: *Helsinn v Teva* (Sup. Ct. 2019)

Public, not enabling, sales are prior art - even after the AIA

- Post-AIA 35 U.S.C. §102(a)(1) (emphases added): A person shall be entitled to a patent unless . . . the *claimed* invention was ...in public use, ~~or~~ on sale ~~in this country~~, *or otherwise available to the public before the effective filing date of the claimed invention.*
- Helsinn sold palonosetron 0.25 mg (the claimed invention) to MGI before the filing date
- Sales agreement was publicly announced, although no details of the dosage, 0.25 mg.
- *Pfaff v Wells* (S. Ct. 1998) requires two conditions for “on sale” 1) a sale or offer for sale and 2) invention ready for patenting
- Pre-AIA *Pfaff* case law has never required that a sale be enabling, only that it be public.
- The post-AIA phrase, “... or otherwise available to the public...” has not modified the *Pfaff* requirements.

4: *Amgen v Sanofi* (Fed. Cir. 2018)

The *Noelle* test for written description of antibodies (*a fully characterized antigen describes all antibodies*) has been gutted

- **Amgen claim:** An isolated monoclonal antibody, wherein, when bound to PCSK9, the monoclonal antibody binds to at least one of the following [15] residues: S153, I154, ... or S381 ... and wherein the monoclonal antibody blocks binding of PCSK9 to LDL[-]R.
- **CAFC:**
 - *Noelle* based on *dicta*; can't describe antibody by describing the antigen.
 - Correct test is *Regents v Lilly* (representative number of examples or structure-function relation)
 - Representativeness can be tested with after-arising embodiments and data.

3: *U California v Broad* (Fed. Cir. 2018)

The relation between obviousness and enablement is about to be tested

- **1st interference:** UC's earlier claims to CRISPR in any environment against Broad's later claims to CRISPR in eukaryotes
- **CAFC held,** no interference in fact: There was 103 motivation to do CRISPR in eukaryotes but no reasonable expectation of success (REofS)
- **2nd interference:** Later-allowed UC's claims to CRISPR in eukaryotes against the same Broad claims to CRISPR in eukaryotes
- **Broad has said:** Lack of REofS from the 103 ruling in 2018 forces conclusion that UC could not have a complete invention of CRISPR in eukaryotes without an actual reduction to practice
- **UC has said:** This confuses 103 standards(REofS) with 112 enablement (*i.e.*, *Wands* 112 unpredictability is *not* the same as 103 REofS)

2: *Natural Alternatives v Creative Cpds* (Fed. Cir. 2019)

Compositions containing natural products are not ineligible as a matter of law.

- **Claim 5** : A composition [which is a dietary supplement or a sports drink] comprising: glycine; and... an amino acid selected from the group consisting of a beta-alanine [or derivatives]
- **CAFC** (Judge Moore): Claim is not ineligible solely on a motion to dismiss under Rule 12(c)
- **Patentee's proposed construction**: Beta-alanine addition to the human diet is not a natural food, it increases athletic performance, and is manufactured to be used over a period of time.
- Analogized to ***Chakrabarty*** (1980): A claim to a manufacture or composition of matter made from a natural product is not directed to the natural product where it has different characteristics and “the potential for significant utility.”
- Distinguished ***Funk Brothers*** (1948): “... does not stand for proposition that any combination of ineligible subject matter is itself ineligible. The ‘combination of bacterial species in *Funk* produce[d]... no enlargement of the range of their utility.’ ... Here... the claimed combination of glycine and beta-alanine *could have* synergistic effects allowing for outcomes that the individual components could not have.”

1: *Vanda v Westward* (Fed. Cir. 2018)

Direct and induced “paper” infringement by ANDA applicant can be demonstrated by the proposed drug label

- **Claim:** Method of treating a patient comprising a) determining if the patient has CYP2D6 genotype and, if so, b) administering iloperidone at 12 mg/day or less.
- **CAFC:** “Drug manufacturers are bound by strict statutory provisions to sell only those products that comport with the ANDA’s description of the drug, the ANDA itself dominates the analysis”
- “[Patentee] can satisfy its burden to prove the predicate direct infringement by showing that if the proposed ANDA product were marketed, it would infringe...The ... proposed label “recommends” that physicians perform the claimed steps.”

Emerging clarity on eligibility of method / process claims

- **Methods of testing without assessing are ineligible**
 - *Cleveland Clinic II* (2019) (Method of detecting MPO by a) obtaining sample and b) detecting MPO in the sample by immunoassay)
- **Methods of testing and assessing without significant post-assessment steps are also ineligible.**
 - *Athena v Mayo* (2019) (Method for diagnosing a disease related to Muscle Serine TK comprising detecting an epitope of MuSTK by radio-I immunoprecipitation, wherein its presence is indicative of the disease)
- **Methods of testing and assessing followed by significant post-assessment steps are eligible.**
 - *Endo Pharma v Teva Pharma* (2019) (Method of treating pain comprising a) providing oxymorphone, b) measuring creatinine clearance rate and, c) depending on the clearance rate, administering a given dose of oxymorphone)
- **Methods of directly treating a subject are not *per se* ineligible**
 - *Natural Alternatives v Creative Cpds* (2019) (Method of increasing anaerobic working capacity, comprising: a) providing, through a dietary supplement, an amount of beta-alanine sufficient to increase beta-alanylhistidine)

Emerging rules... (cont'd)

- **Methods of producing a tangible product are eligible**
 - *Rapid Litigation v CellZDirect* (2016) (Method of producing cryopreserved hepatocytes by double freezing and thawing)
- **A method of screening for drugs using non conventional tools has been held to be eligible.**
 - *AMP v USPTO v Myriad Genetics* (2012) (Method of screening by the use of eukaryotic cells transformed with the BRCA1 gene)
- **Even narrow claims that do not preempt a large field may be ineligible**
 - *Roche v Cepheid* (2018) (Method of detecting mycobacteria using very specific mutated primers)
- **Lack of eligibility may or may not be decided on a motion to dismiss, depending on the case's posture.**
 - Compare: *Athena v Mayo* (2019) (dismissed as ineligible on a 12(b)(6) motion, since no facts in dispute) with
 - *Natural Alternatives v Creative Cpds* (2019) (not dismissed on a 12(c) motion, since facts in dispute)
- **Claims based on a non obvious - even groundbreaking - invention may be ineligible**
 - *Myriad, Roslin, Ariosa v Sequenom*



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Thank you!