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MONTHLY INJECTION



LATEST NEWS



Amgen Obtains \$70 Million Damages Award Against Hospira For Infringement Of Amgen's Erythropoetin Patent

By: Christopher E. Loh

On September 22, 2017, a District of Delaware jury in the matter *Amgen v. Hospira*, 15-cv-839-RGA (D. Del.) returned a verdict awarding Amgen \$70 million for Hospira's infringement of an Amgen patent covering the manufacture of Amgen's erythropoetin product **Epogen**[®]. That verdict is the first instance in which a patent owner has recovered significant infringement damages under the Biologics Price Competition and Innovation Act (BPCIA). It is also the first time a patent owner has recovered damages under the BPCIA for acts of infringement by a competitor conducted prior to the commercial marketing of the competitor's biosimilar product.



Pharma at the PTAB

By: April M. Breyer, Corinne E. Atton and Ha Kung Wong

April Breyer, Corinne Atton and Ha Kung Wong reveal that PTAB decisions have been consistent but drug patents challenged multiple times are more likely to be found unpatentable.

There has been some concern regarding the statistics periodically issued by the Patent Trial and Appeal Board ("PTAB") of the US Patent and Trademark Office, that the numbers reported overlook multiple inter partes review ("IPR") challenges to the same patents, and potentially, different outcomes in those challenges. We have monitored IPRs filed on drug patents – patents that are listed in the Food and Drug Administration's (FDA) Orange Book ("Orange Book patents"), and patents that have been identified in proceedings as reading on FDA Purple Book listed biologic drugs ("Biologic Drug Patents") – and report here that while certain drug patents have been challenged in *multiple* IPR petitions, concern as to different outcomes, at least in the final written decisions ("FWDs") that have been issued to date, appears to be unfounded. These FWDs have been consistent: either all instituted claims have been held unpatentable, or all instituted claims have been held not unpatentable. The biggest news is that drug patents challenged in multiple IPRs – at least those that reach FWD – have a much greater chance of being found unpatentable than drug patents that have been challenged in only one IPR. The percentage is 63% for what we have described in this article as "duplicative FWDs", compared to 44% for non-duplicative FWDs.



VIDEO: How Important is Inter Partes Review to Biosimilars?

By: Ha Kung Wong

In an interview with The Center for Biosimilars, Ha Kung Wong discusses the importance of IPRs to biosimilars. He notes that we have not seen as many IPRs in the biosimilar space as one might expect, and whether an IPR is used in a biosimilars context is, at the moment, more related to the parties involved than any type of significant industry-wide trend. Reasons for this may include standing, the breadth of patents in the biologics space, and estoppel.

View Additional Videos by Ha Kung Wong:

- [Might the FDA Clarify its Stance on the BPCIA?](#)
- [Might PTAB Invalidate More Method of Treatment Patents?](#)
- [Will Biosimilar Applicants Still Participate in the Patent Dance?](#)
- [What Questions Did SCOTUS Leave Unresolved in Sandoz v. Amgen?](#)

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UPDATES

IPRs

- **Herceptin[®] (trastuzumab):**
 - On July 27, 2017, institution was denied for IPR2017-00731 and IPR2017-00739 filed by [Hospira](#) and [Pfizer](#).
 - On July 27, 2017, institution was granted for IPR2017-00737, IPR2017-00804, and IPR2017-00805 filed by [Hospira](#) and [Pfizer](#).
 - On August 25, 2017, [Samsung Bioepis](#) filed IPR2017-01958 with a motion for joinder with IPR2017-00804; IPR2017-01959 with a motion for joinder with IPR2017-00805; and IPR2017-01960 with a motion for joinder with IPR2017-00737.
 - On August 29, 2017, [Pfizer](#) filed IPR2017-02019 and IPR2017-02020.
 - On August 31, 2017, [Boehringer Ingelheim](#) filed IPR2017-02031 and IPR2017-02032.
 - On September 7, 2017, [Pfizer](#) filed IPR2017-02063 with a motion for joinder with IPR2017-01121.
 - On September 11, 2017, the PTAB granted [Genentech's](#) request for adverse judgment and cancellation of claims in IPR2017-00959.
 - On September 29, 2017, [Samsung Bioepis](#) filed IPR2017-02139 with a motion for joinder with IPR2017-01488; and filed IPR2017-02140 with a motion for joinder with IPR2017-01489.
- **Humira[®] (adalimumab):**
 - On July 31, 2017, [AbbVie](#) filed appeals in IPR2016-00408 (Fed. Cir. 17-2362) and IPR2016-00409 (Fed. Cir. 17-2363).
 - On August 21, 2017, [Sandoz](#) filed IPR2017-01987 and IPR2017-01988.
 - On September 7, 2017, institution was denied for IPR2017-00822, IPR2017-00823, IPR2017-01008, and IPR2017-01009 filed by [Coherus](#).
 - On September 14, 2017, [Sandoz](#) filed IPR2017-02105 and IPR2017-02106.
 - On October 2, 2017, [Sandoz](#) filed IPR2018-00002.
- **Dupixent[®] (dupilumab):**
 - On July 28, 2017, [Genzyme](#), [Regeneron](#), and [Sanofi](#) filed IPR2017-01879.
 - On July 31, 2017, [Genzyme](#), [Regeneron](#), and [Sanofi](#) filed IPR2017-01884.
- **Enbrel[®] (etanercept):**

- On August 4, 2017, [Coherus](#) filed IPR2017-01916.
- On September 7, 2017, [Coherus](#) filed IPR2017-02066.
- **Erbix[®] (cetuximab)**: On August 7, 2017, The Trustees of the University of Pennsylvania filed an appeal in IPR2016-00458 (Fed. Cir. 17-2397).
- **Rituxan[®] (rituximab)**:
 - On August 18, 2017, [Celltrion](#) and [Teva's](#) Request for Rehearing of the decision denying institution in IPR2016-01667 was denied.
 - On August 29, 2017, [Pfizer](#) filed IPR2017-01923.
 - On August 31, 2017, [Sandoz](#) filed IPR2017-02036 and IPR2017-02042.
 - On October 2, 2017, institution was denied for IPR2017-01094 filed by [Celltrion](#) and [Teva](#).

LITIGATIONS

- **Opdivo[®] (nivolumab)**: On July 26, 2017, [Bristol Myers Squibb](#), owner of Opdivo[®] (nivolumab) filed the following litigations:
 - Case No. 1:17-cv-01027 relating to [Genentech's Tecentriq[®] \(atezolizumab\)](#).
 - Case No. 1:17-cv-01028 relating to [AstraZeneca's Imfinzi[™] \(durvalumab\)](#).
 - Case No. 1:17-cv-01029 relating to [EMD Serono / Merck / Pfizer's Bavencio[™] \(avelumab\)](#).
 - **Humira[®] (adalimumab)**:
 - On August 2, 2017, [AbbVie](#) filed case No. 17-cv-01065 (D. Del.) against [Boehringer Ingelheim](#).
 - On September 28, 2017, [AbbVie v. Amgen](#), case No. 1:16-cv-00666 (D. Del.) was dismissed.
 - **Remicade[®] (infliximab)**: On August 7, 2017, [Janssen v. Celltrion](#), case No. 1:16-cv-11117 (D. Mass.) was dismissed.
 - **Lantus[®] (insulin glargine recombinant)**: On August 8, 2017, [Sanofi](#) filed litigation 2:17-cv-05914 (D.N.J.) relating to [Merck's Lusduna[™] Nexvue[™] \(insulin glargine\)](#).
 - **Epogen[®] / Procrit[®] (epoetin alfa)**:
 - On August 10, 2017, the Federal Circuit dismissed [Amgen's](#) appeal in Fed. Cir. 16-2179 and denied its motion for writ of mandamus.
 - On September 26, 2017, a jury verdict in favor of [Amgen](#) issued in [Amgen v. Hospira](#), case No. 1:15-cv-00839 (D. Del.).
 - **Kadcyla[®] (ado trastuzumab emtansine)**: On August 23, 2017, [Phigenix v. Genentech](#), case No. 5:15-cv-01238 (N.D. Cal.), was terminated after summary judgment. On September 27, 2017, Phigenix appealed the case to the Federal Circuit (No. 17-2617).
 - **Neulasta[®] (pegfilgrastim)**: On September 22, 2017, [Amgen](#) filed case No. 2:17-cv-01235 (W.D. Pa.) against [Mylan](#).
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aBLA APPLICATIONS AND APPROVALS

- **ABP 980 (trastuzumab):** On July 31, 2017, Amgen and Allergan announced that they submitted an aBLA to the FDA for ABP 980, a proposed biosimilar of Herceptin[®] (trastuzumab).
- **CT-P6 (trastuzumab):** On July 31, 2017, Celltrion and Teva announced that they submitted an aBLA to the FDA for CT-P6, a proposed biosimilar of Herceptin[®] (trastuzumab).
- **Cyltezo (adalimumab-adbm):** On August 25, 2017, Boehringer Ingelheim's biosimilar of Humira[®] (adalimumab) was approved by the FDA.
- **Filgrastim:** On September 11, 2017, Adello Biologics announced the FDA had accepted its aBLA for its proposed biosimilar of Neupogen[®] (filgrastim).
- **Rixathon (rituximab):** On September 12, 2017, Sandoz announced the FDA had accepted its aBLA for its proposed biosimilar of Rituxan[®] (rituximab).
- **Mvasi (bevacizumab-awwb):** On September 14, 2017, Amgen's biosimilar of Avastin[®] (bevacizumab) was approved by the FDA.

CDER PURPLE BOOK UPDATES

- **Besponsa[®] (inotuzumab ozogamicin):** On August 17, 2017, the FDA approved Wyeth's Besponsa[®].
- **Mylotarg[®] (gemtuzumab ozogamicin):** On September 1, 2017, the FDA approved Wyeth's Mylotarg[®].

NON-U.S. BIOSIMILARS / FOLLOW-ON BIOLOGICS

- **Imraldi (adalimumab):** On August 25, 2017, Samsung Bioepis announced that Imraldi, its biosimilar of Humira[®], was approved in the E.U.

STATISTICS

Biosimilar-
Related IPR Petitions

Biosimilar-Related
IPR Petitions by Fiscal Year

Biosimilar-Related
IPR Petitions by Quarter

BiologicsHQ Search

Information contained in the Fitzpatrick BiologicsHQ database relates to FDA-approved drug products listed in the CDER Purple Book. Product and Company page search results are reported for FDA-approved indications, aBLA and 505(b)(2) activity, approved foreign biosimilars, IPRs and U.S. litigations.

Contact Us

(212) 218-2100 New York
(714) 540-8700 California
(202) 530-1010 Washington DC

BiologicsHQ@fchs.com
www.fitzpatrickcella.com
www.postgranthq.com



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