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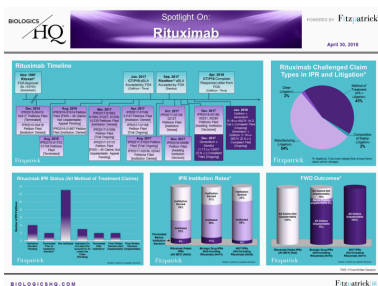
May 3, 2018

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MONTHLY INJECTION



LATEST NEWS



Spotlight On: Rituxan[®] (rituximab)

Spotlight On: Humira[®] (adalimumab) / Amjevita[™] (adalimumab-atto) / Cyltezo[™] (adalimumab-adbm)

BiologicsHQ's "Spotlight On" dashboards provide, at a glance, an overview of the status of U.S. patent proceedings. A new dashboard concerning rituximab (Rituxan[®]) is now available.

The dashboard concerning adalimumab (Humira[®], Amjevita[™], and Cyltezo[™]) has been updated with activity through April 30, 2018.



Supreme Court Upholds Constitutionality of *Inter Partes* Review in *Oil States*

By: Christopher Loh and Jordan Klimek

On April 24, 2018, the Supreme Court in *Oil States Energy Servs., LLC v. Greene's Energy Grp., LLC*, No. 16-712, held 7-2 that the *inter partes* review procedure created by the

America Invents Act of 2011 (AIA) does not violate Article III or the Seventh Amendment of the U.S. Constitution, because patents are public rights, and public rights need not be adjudicated before an Article III court or in a jury trial. Justice Gorsuch wrote a dissenting opinion that was joined by Chief Justice Roberts.



IPR Patentability of All Challenged Claims - *SAS Institute v. Iancu*

By: Douglas Sharrott and Shannon Clark

On April 24, 2018, in a 5-4 decision the Supreme Court held in *SAS Institute Inc. v. Iancu* that when the U.S. Patent and Trademark Office (“USPTO”) institutes an *inter partes* review, it must decide the patentability of *all* of the claims the petitioner challenged, based on the plain text of 35 U.S.C. § 318(a).

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UPDATES

IPRs

- **Humira[®] (adalimumab):**
 - On April 3, 2018, institution was granted in IPR2017-02105 and IPR2017-02106 filed by [Sandoz](#).
 - On April 6, 2018, [Sandoz](#) filed motions for rehearing of the decisions not to institute IPR2017-01987 and IPR2017-01988.
- **Rituxan[®] (rituximab):**
 - On April 4, 2018, institution was denied in IPR2017-02036 and IPR2017-02042 filed by [Sandoz](#).
 - On April 4, 2018, institution was granted in IPR2017-01923 filed by [Pfizer](#).
 - On April 19, 2018, institution was denied in IPR2017-02127 filed by [Pfizer](#).
 - On April 26, 2018, [Pfizer](#) filed an appeal of the final written decision in IPR2016-01614 and IPR2017-01115, Federal Circuit Case No. 18-1885.
 - On April 30, 2018, institution was denied in IPR2017-02126 filed by [Pfizer](#).
 - On April 30, 2018, the institution decision in IPR2017-01095, filed by [Celltrion](#) and [Teva](#), was revised to institute all challenged claims under all challenged grounds.
- **Enbrel[®] (etanercept):** On April 9, 2018, [Coherus](#) filed Requests for Rehearing of the decisions denying institution of IPR2017-01916 and IPR2017-02066.

LITIGATIONS

- **Neulasta[®] (pegfilgrastim):** On April 18, 2018, *Amgen v. Coherus*, Case No. 1:17-cv-00546 (D. Del.) was dismissed.

aBLA APPLICATIONS AND APPROVALS

- **CT-P10 (rituximab):** On April 5, 2018, Celltrion announced that it had received a Complete Response Letter from the FDA related to its application for CT-P10, a proposed biosimilar of Genentech's Rituxan[®] (rituximab).
- **Herzuma[®] (trastuzumab):** On April 5, 2018, Celltrion announced that it had received a Complete Response Letter from the FDA related to its application for Herzuma[®], a proposed biosimilar of Genentech's Herceptin[®] (trastuzumab).
- **PF-05280014 (trastuzumab):** On April 23, 2018, Pfizer announced that it had received a Complete Response Letter from the FDA related to its application for PF-05280014, a proposed biosimilar of Genentech's Herceptin[®] (trastuzumab).

CDER PURPLE BOOK UPDATES

- **Crysvita[®] (burosumab-twza):** On April 17, 2018, the FDA approved Ultragenyx Pharmaceutical's Crysvita[®].

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

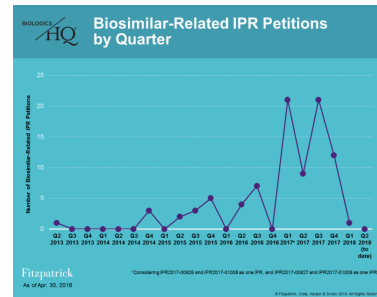
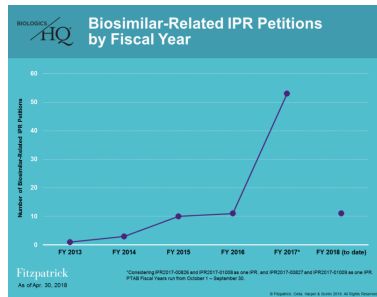
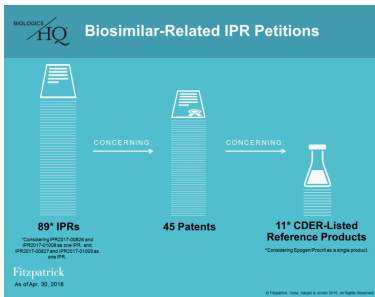
- **Imraldi (adalimumab):** On April 5, 2018, Samsung Bioepis and Biogen announced that they entered into a settlement agreement with AbbVie relating to Imraldi, a biosimilar of Humira[®] (adalimumab), delaying European launch until October 16, 2018 and U.S. launch until at least January 31, 2023. Imraldi was approved in the E.U. in August 2017. Samsung and Biogen have not yet announced FDA acceptance of an application for an adalimumab biosimilar in the U.S.
- **Truxima[®] (CT-P10) (rituximab):** On April 23, 2018, Celltrion announced that Truxima[®], its biosimilar of Rituxan[®], was approved in Australia.

STATISTICS

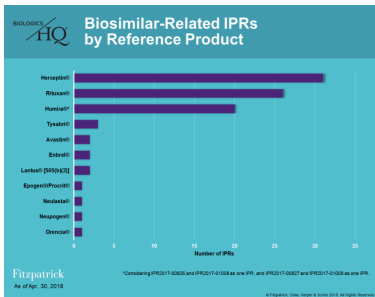
Biosimilar-
Related IPR Petitions

Biosimilar-Related
IPR Petitions by Fiscal Year

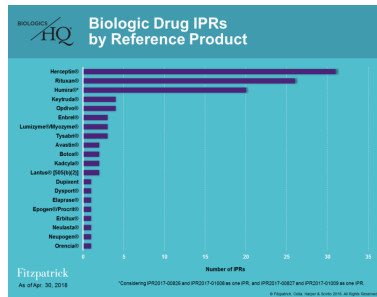
Biosimilar-Related
IPR Petitions by Quarter



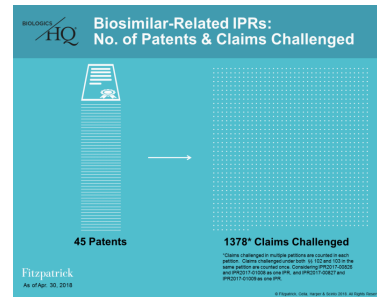
Biosimilar-Related IPRs by Reference Product



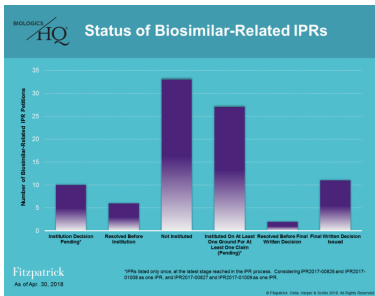
Biologic Drug IPRs by Reference Product



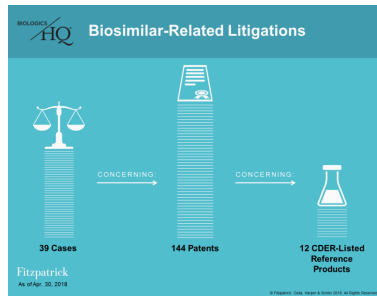
Biosimilar-Related IPRs: Number of Patents and Claims Challenged



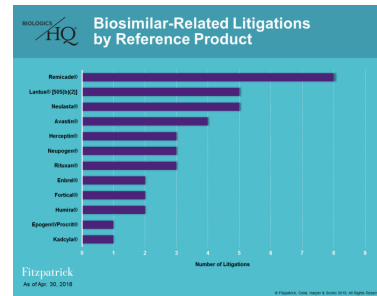
Status of Biosimilar-Related IPRs



Biosimilar-Related Litigations



Biosimilar-Related Litigations by Reference Product



Biosimilars Approved in the U.S.

Biosimilars Approved in the United States

sBLA / NDA No.	Biosimilar Brand Name	Biosimilar Scientific Name	sBLA / NDA Holder	Date of Biosimilar License	Reference Product	Reference Product License Holder	U.S. Biosimilar Launch Date
sBLA 781534	Anpegma [®]	Adalimumab-ctm	Amgen Inc.	Sept. 23, 2016	Humira [®]	AbbVie Inc.	
sBLA 781534	Cyltezo [®]	Adalimumab-ctm	Boehringer Ingelheim	Aug. 25, 2017	Humira [®]	AbbVie Inc.	
sBLA 781538	Mvesi [®]	Bevacizumab-ctm	Amgen Inc.	Sept. 14, 2017	Avastin [®]	Genentech	
sBLA 781542	Enlezi [®]	Etanercept-ctm	Sandoz Inc.	Aug. 30, 2016	Enbrel [®]	Amgen Inc. / Genentech	
sBLA 125833	Zarzio [®]	Fluorouracil-ctm	Sandoz Inc.	Mar. 8, 2016	Neupogen [®]	Amgen Inc.	Sept. 2015
sBLA 125844	Inflectra [®]	Infliximab-ctm	Celgene Inc.	Apr. 8, 2016	Remicade [®]	Janssen Biotech	Nov. 2016
sBLA 781544	Renfesa [®]	Infliximab-ctm	Samsung Biologics Co. Ltd.	Apr. 21, 2017	Remicade [®]	Janssen Biotech	Jul. 2017
sBLA 781572	but [®]	Infliximab-ctm	Pfizer Inc.	Dec. 13, 2017	Remicade [®]	Janssen Biotech	
NDA 20812 (sBLA 781574)	Besaglar [®]	Insulin Glargine	Eli Lilly & Co.	Dec. 16, 2015	Lantus [®]	Sandoz Biotech US	Dec. 2016
sBLA 781574	Ogihis [®]	Trastuzumab-ctm	Mylan Generics / Biocrop	Dec. 1, 2017	Herceptin [®]	Genentech	

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As of Apr. 30, 2018

Biosimilar Applications Pending in the U.S.

Biosimilar Applications Pending in the United States

Biosimilar Brand Name	Scientific Name	sBLA / NDA No.	Reference Product	Reference Product License Holder	FDA Status
Adalimumab	Adalimumab	Amgen	Humira [®]	AbbVie	Accepted Jan. 2016
Epigen Afs	Epigen Afs	Hospira / Pfizer	Epogen [®] / Procrit [®]	Amgen	Accepted Jan. 2015, Rejected Dec. 2016, Complete Response Letter Jul. 2017
Fligrastrin	Fligrastrin	Amgen	Neupogen [®]	Amgen	Accepted Feb. 2015
Apex Biologics	Apex Biologics	Amgen	Neupogen [®]	Amgen	Accepted Sept. 2017
Pegflgrastrin	Pegflgrastrin	Amgen	Neulasta [®]	Amgen	Accepted Dec. 2014
Neulasta [®]	Neulasta [®]	Amgen	Neulasta [®]	Amgen	Accepted Nov. 2015, Rejected Oct. 2016
Cobovus	Cobovus	Amgen	Neulasta [®]	Amgen	Accepted Oct. 2016, Complete Response Letter Jul. 2017
Mylan / Biocrop	Mylan / Biocrop	Amgen	Neulasta [®]	Amgen	Accepted Feb. 2017, Complete Response Letter Oct. 2017
Rituxan	Rituxan	Amgen	Rituxan [®]	Genentech	Accepted Jan. 2015, Rejected Oct. 2016, Complete Response Letter Aug. 2017
Trastuzumab	Trastuzumab	Amgen / Abergan	Herceptin [®]	Genentech	Accepted Sept. 2017
Trastuzumab	Trastuzumab	Amgen / Abergan	Herceptin [®]	Genentech	Submitted Jul. 2017
Trastuzumab	Trastuzumab	Pfizer	Herceptin [®]	Genentech	Submitted Jul. 2017, Complete Response Letter Apr. 2018
Trastuzumab	Trastuzumab	Pfizer	Herceptin [®]	Genentech	Accepted Aug. 2017, Complete Response Letter Apr. 2018
Trastuzumab	Trastuzumab	Sanofi Biologics	Herceptin [®]	Genentech	Accepted Dec. 2017
Merck	Merck	Amgen	Lantus [®]	Sandoz Biotech US	Rejection Letter Jul. 2017

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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.

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