

September 6, 2018

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## MONTHLY INJECTION

## LATEST NEWS

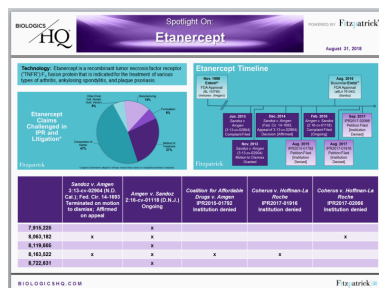


### VIDEO: The FDA's Biosimilar Action Plan

By: Ha Kung Wong

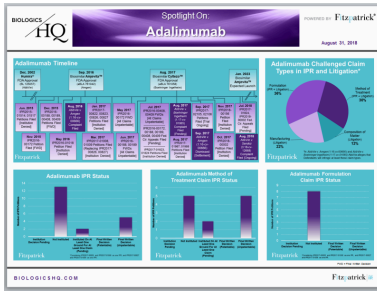
Ha Kung Wong discusses key features of the FDA's Biosimilar Action Plan and potential implications for litigations and inter partes review (IPR) proceedings for biologic drugs as part of a video series for the Center for Biosimilars.

Stay tuned to BiologicsHQ for new videos coming out each week!



### Spotlight On: Enbrel<sup>®</sup> (etanercept) / Erelzi<sup>®</sup> (etanercept-szys)

BiologicsHQ's "Spotlight On" dashboards provide, at a glance, an overview of the status of U.S. patent proceedings. A new dashboard concerning Enbrel<sup>®</sup> (etanercept) and Erelzi<sup>®</sup> (etanercept-szys) is now available.



## Spotlight On: Rituxan<sup>®</sup> (rituximab)

## Spotlight On: Humira<sup>®</sup> (adalimumab) / Amjevita<sup>™</sup> (adalimumab-atto) / Cyltezo<sup>®</sup> (adalimumab-adbm)

BiologicsHQ's "Spotlight On" dashboards concerning rituximab (Rituxan<sup>®</sup>) and adalimumab (Humira<sup>®</sup>, Amjevita<sup>™</sup>, and Cyltezo<sup>®</sup>) have been updated with activity through August 31, 2018.

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## UPDATES

### IPRs

- **Avastin<sup>®</sup> (bevacizumab):** On August 2, 2018, institution was denied in IPR2018-00373 filed by Pfizer.

### LITIGATIONS

- **Neupogen<sup>®</sup> (filgrastim) / Neulasta<sup>®</sup> (pegfilgrastim):** On August 7, 2018, Amgen filed Case No. 0:18-cv-61828 (S.D. Fla.) against Apotex related to Apotex's proposed biosimilars Grastfil<sup>™</sup> (filgrastim) and Lapelga<sup>™</sup> (pegfilgrastim).
- **Humira<sup>®</sup> (adalimumab):** On August 10, 2018, AbbVie filed Case No. 3:18-cv-12668 (D.N.J.) against Sandoz related to Sandoz's proposed biosimilar GP2017 (adalimumab).

### CDER PURPLE BOOK UPDATES

- **Poteligeo<sup>®</sup> (mogamulizumab-kpkc):** On August 8, 2018, the FDA approved Kyowa Kirin's Poteligeo<sup>®</sup>.
- **Takhzyro<sup>™</sup> (lanadelumab-flyo):** On August 23, 2018, the FDA approved Dyax Corp.'s Takhzyro<sup>™</sup>.

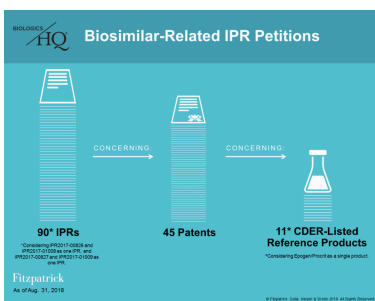
### NON-U.S. BIOSIMILARS / FOLLOW-ON BIOLOGICS

- **Herzuma<sup>®</sup> (trastuzumab):**

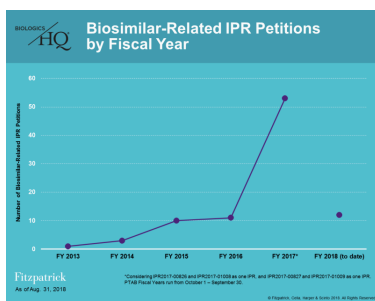
- On August 6, 2018, Celltrion announced that **Herzuma<sup>®</sup>**, its biosimilar of **Herceptin<sup>®</sup>**, was approved in Australia.
- On August 20, 2018, Celltrion and Nippon Kayaku announced that **CT-P6** their biosimilar of **Herceptin<sup>®</sup>**, was launched in Japan.

# STATISTICS

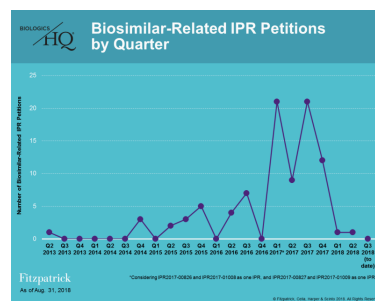
## Biosimilar-Related IPR Petitions



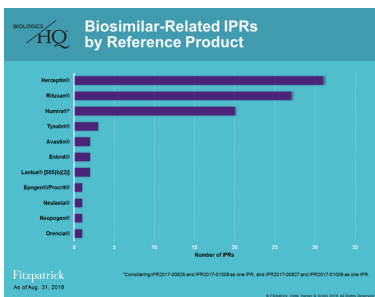
## Biosimilar-Related IPR Petitions by Fiscal Year



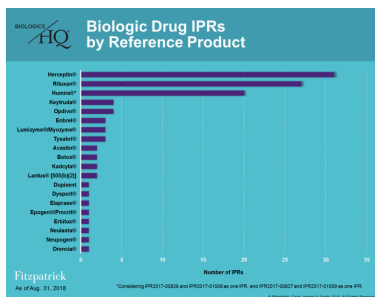
## Biosimilar-Related IPR Petitions by Quarter



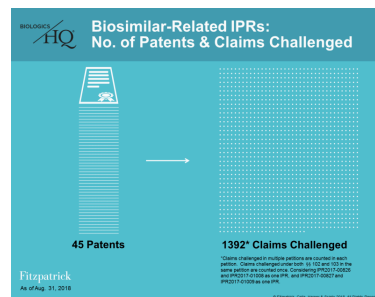
## Biosimilar-Related IPRs by Reference Product



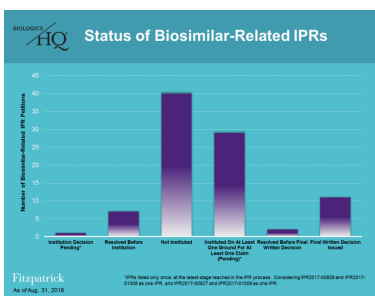
## Biologic Drug IPRs by Reference Product



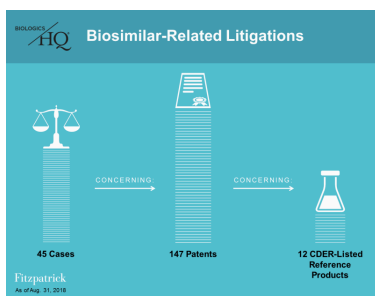
## Biosimilar-Related IPRs: Number of Patents and Claims Challenged



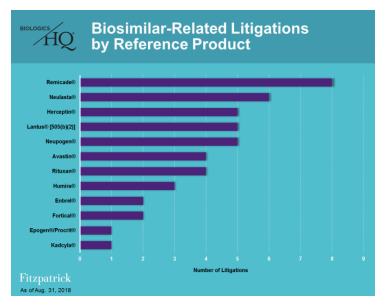
## Status of Biosimilar-Related IPRs



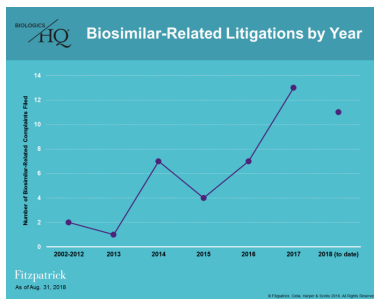
## Biosimilar-Related Litigations



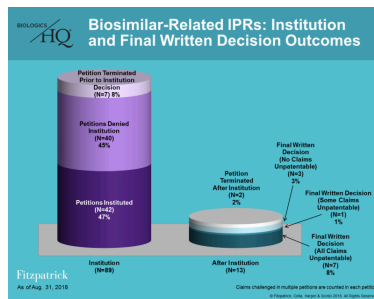
## Biosimilar-Related Litigations by Reference Product



## Biosimilar-Related Litigations by Year



## Biosimilar-Related IPRs: Institution and Final Written Decision Outcomes



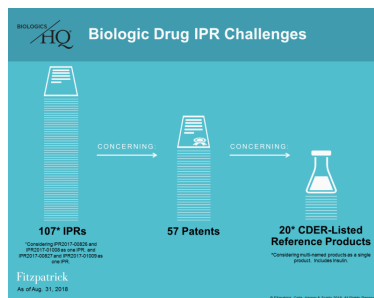
## Biosimilars Approved in the U.S.

aBLA / 505(b)(2) No.	Biosimilar Brand Name	Biosimilar Scientific Name	Reference Product	Reference Product License Holder	U.S. Biosimilar Launch Date
aBLA 781024	Amgenix™	Adalimumab-ato	Humira®	Amgen Inc.	Jan 2012
aBLA 781024	Cytelix™	Adalimumab-ato	Humira®	Amgen Inc.	Jan 2012
aBLA 781024	Humira™	Adalimumab-ato	Humira®	Amgen Inc.	Jan 2012
aBLA 781024	Humira™	Adalimumab-ato	Humira®	Amgen Inc.	Jan 2012
aBLA 781024	Humira™	Adalimumab-ato	Humira®	Amgen Inc.	Jan 2012
aBLA 781024	Humira™	Adalimumab-ato	Humira®	Amgen Inc.	Jan 2012
aBLA 781024	Humira™	Adalimumab-ato	Humira®	Amgen Inc.	Jan 2012
aBLA 781024	Humira™	Adalimumab-ato	Humira®	Amgen Inc.	Jan 2012
aBLA 781024	Humira™	Adalimumab-ato	Humira®	Amgen Inc.	Jan 2012
aBLA 781024	Humira™	Adalimumab-ato	Humira®	Amgen Inc.	Jan 2012

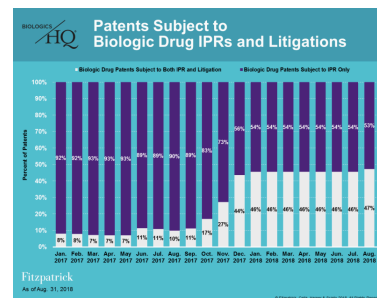
## Biosimilar Applications Pending in the U.S.

Biosimilar Name	Scientific Name	aBLA / 505(b)(2) Holder	Reference Product	Reference Product License Holder	FDA Status
OPD11	Adalimumab	Amgen	Humira®	Amgen	Accepted Jan. 2018
Grasim™	Figlirastin	Apixen	Neupogen®	Amgen	Accepted Feb. 2015
TPV-G-CF	Figlirastin	Apixen Biologics	Neupogen®	Amgen	Accepted Sept. 2015
Leqap™	Figlirastin	Apixen	Neupogen®	Amgen	Accepted Dec. 2014
LA-EP206	Figlirastin	Sandoz	Neupogen®	Amgen	Accepted Nov. 2015
QAS-1701	Figlirastin	Corixa	Neupogen®	Amgen	Rejected Oct 2016
Tuam™	Rituximab	Celltrion / Teva	Rituxan®	Genentech	Accepted Oct 2016; CRL Jun 2017; Resubmitted May 2018
Risathon®	Rituximab	Sandoz	Rituxan®	Genentech	Accepted Jan. 2017; CRL Apr 2018; Resubmitted May 2018
ADP 980	Trastuzumab	Amgen / Alergan	Herceptin®	Genentech	Accepted Sept. 2017
Herceptin™	Trastuzumab	Teva / Celltrion	Herceptin®	Genentech	Submitted Jul 2017; CRL Apr 2018; Resubmitted Jun 2018
PF-02302014	Trastuzumab	Pfizer	Herceptin®	Genentech	Accepted Aug. 2017; CRL Apr 2018
883	Trastuzumab	Samsung Biologics	Herceptin®	Genentech	Accepted Dec. 2017
Luxturna™	Iselin Glargine	Merck	Lantus®	Sandoz Avenets US	Submitted Jul 2017
Nasac™	Iselin Glargine	Merck	Lantus®	Sandoz Avenets US	Submitted Jul 2017
Urokinase (Genzyme in the U.S.)	Iselin Glargine	Merck / Boehr	Lantus®	Sandoz Avenets US	CRL Jun. 2018

## Biologic Drug IPR Challenges



## Patents Subject to Biologic Drug IPRs and Litigations



## 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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