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## MONTHLY INJECTION



## LATEST NEWS



### Trends and Predictions for Serial Biologic Drug IPR Petitions

By: Frederick C. Millett and Robert S. Schwartz, Ph.D.

Two decisions over the past year could have significant implications in how serial inter partes review petitions are handled by the Patent Trial and Appeal Board going forward. The first, *General Plastic Industrial Co. v. Canon Kabushiki Kaisha*, which laid out a seven-factor test to determine whether the PTAB will use its discretion not to review serial IPR petitions, was recently designated “precedential” by the PTAB. The second, the U.S. Supreme Court’s April 24, 2018, decision in *SAS Institute Inc. v. Iancu*, where the court held that the PTAB must determine the patentability of all challenged claims in a petition and can no longer issue final written decisions on only a partial list of challenged claims, could also have implications for how serial petitions are considered by the PTAB going forward. This article reviews how serial IPRs on patents covering biologic drugs could be affected by these decisions, based on trends over the last few years.

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## Biosimilars and the Biologics Price Competition and Innovation Act (BPCIA)

By: Michael Enzo Furrow, Ph.D. and Whitney L. Meier

The Biologics Price Competition and Innovation Act (BPCIA) provides an abbreviated pathway for companies to bring biologic drugs to market that are “biosimilar” to previously approved branded reference products by relying on clinical studies that were performed by the reference product sponsor (RPS).

This note introduces biosimilars, the litigation process set up by the BPCIA to facilitate resolution of patent disputes between reference product sponsors and biosimilar manufacturers, and touches on related trends, such as the potential use of inter partes review proceedings by biosimilar manufacturers as an alternative or in addition to litigation.



## Federal Circuit Rejects Assertion of Sovereign Immunity by Saint Regis Mohawk Tribe in Inter Partes Review Proceedings

By: Christopher Loh

On July 20, 2018, a Federal Circuit panel (Dyk, Moore, Reyna) affirmed a denial by the Patent Trial and Appeal Board of a motion by the Saint Regis Mohawk Tribe to dismiss, on the basis of sovereign immunity, inter partes review (“IPR”) proceedings against patents that had been assigned to the Tribe by [Allergan](#).

In 2015, [Allergan](#) sued [Mylan](#), [Teva](#) and [Akorn](#) for infringement of patents covering [Allergan’s](#) Restasis® dry eye treatment. [Mylan](#), [Teva](#) and [Akorn](#) petitioned for IPR of those patents. The Board instituted and consolidated the IPRs. Before the oral hearing for the consolidated IPRs took place, [Allergan](#) assigned the patents to the Tribe. The Tribe subsequently moved to terminate the IPRs on the basis of tribal sovereign immunity, and [Allergan](#) moved to withdraw. The Board denied the motions.

In a decision by Judge Moore, the Federal Circuit affirmed the Board’s denial, holding that “tribal sovereign immunity cannot be asserted in IPRs.”

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# UPDATES

## IPRs

- **Humira® (adalimumab):** On July 10, 2018, **Sandoz** filed appeals of the decisions not to institute in IPR2017-01824 (Federal Circuit Case No. 18-2142) and IPR2018-00002 (Federal Circuit Case No. 18-2143).
- **Rituxan® (rituximab):**
  - On July 9, 2018, IPR2018-00285 filed by **Pfizer** was instituted.
  - On July 10, 2018, **Genentech's** request for rehearing of the decision to modify the institution decision in IPR2017-01923 after the Supreme Court decision in **SAS** to institute on all grounds was denied.
- **Herceptin® (trastuzumab):** On July 9, 2018, institution was denied in IPR2018-00330 and IPR2018-00331 filed by **Pfizer**. **Pfizer's** requests for joinder with its previously filed IPR2017-02019 and IPR2017-02020 were also denied.
- **Enbrel® (etanercept):** On July 13, 2018, **Coherus's** requests for rehearing of the decisions denying institution of IPR2017-01916 and IPR2017-02066 were denied.

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## LITIGATIONS

- **Herceptin® (trastuzumab):**
  - On July 11, 2018, **Genentech** filed Case No. 1:18-cv-01025 (D. Del.) against **Celltrion** and **Teva**.
  - On July 16, 2018, an appeal was filed in **Celltrion v. Genentech**, Case No. 4:18-cv-00274 (N.D. Cal.), Federal Circuit Case No. 18-2160.
- **Rituxan® (rituximab):**
  - On July 11, 2018, **Genentech** filed Case No. 1:18-cv-11553 (D.N.J.) against **Celltrion** and **Teva**.
  - On July 16, 2018, an appeal was filed in **Celltrion v. Genentech**, Case No. 4:18-cv-00276 (N.D. Cal.), Federal Circuit Case No. 18-2161.
- **Neupogen® (filgrastim):** On July 18, 2018, **Amgen** filed Case No. 1:18-cv-01064 (D. Del.) against **Hospira** and **Pfizer**.
- **Praluent® (alirocumab) / Repatha® (evolocumab):** On July 27, 2018, **Amgen's** petition for writ of certiorari in **Amgen v. Sanofi**, Case No. 17-1480, was placed on the Supreme Court docket as Case No. 18-127.

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## aBLA APPLICATIONS AND FDA ACTIVITY

- **Nivestym™ (filgrastim-aafi):** On July 20, 2018, the FDA approved **Pfizer's** **Nivestym™**, a biosimilar of **Amgen's Neupogen® (filgrastim)**.

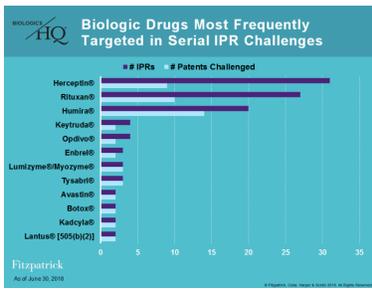
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## NON-U.S. BIOSIMILARS / FOLLOW-ON BIOLOGICS

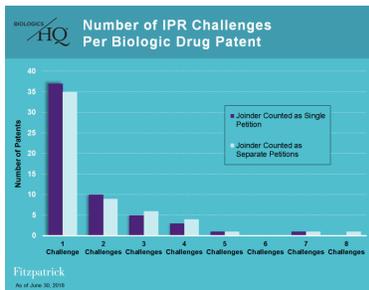
- **Hyrimoz<sup>®</sup> (adalimumab):** On July 27, 2018, Sandoz announced that Hyrimoz<sup>®</sup>, its biosimilar of Humira<sup>®</sup>, was approved in the E.U.
- **Trazimera<sup>™</sup> (trastuzumab):** On July 31, 2018, Pfizer announced that Trazimera<sup>™</sup>, its biosimilar of Herceptin<sup>®</sup>, was approved in the E.U.

## STATISTICS

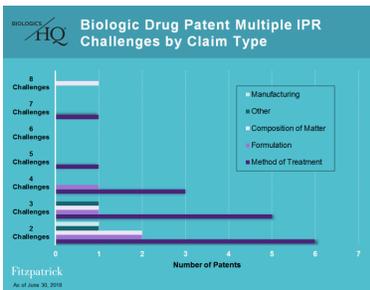
**Biologic Drugs Most Frequently Targeted in Serial IPR Challenges**



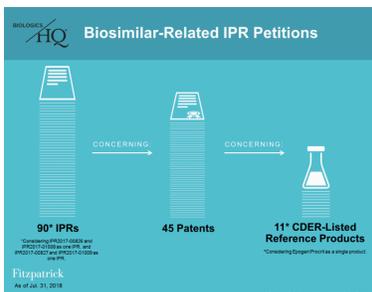
**Number of IPR Challenges Per Biologic Drug Patent**



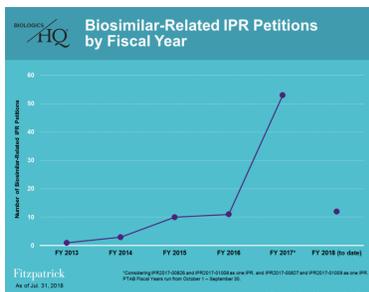
**Biologic Drug Patent Multiple IPR Challenges by Claim Type**



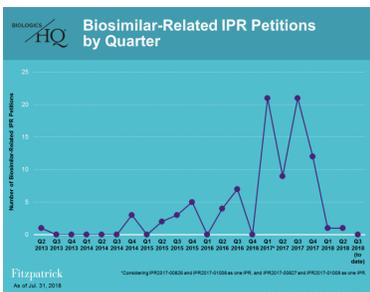
**Biosimilar-Related IPR Petitions**



**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**



## 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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