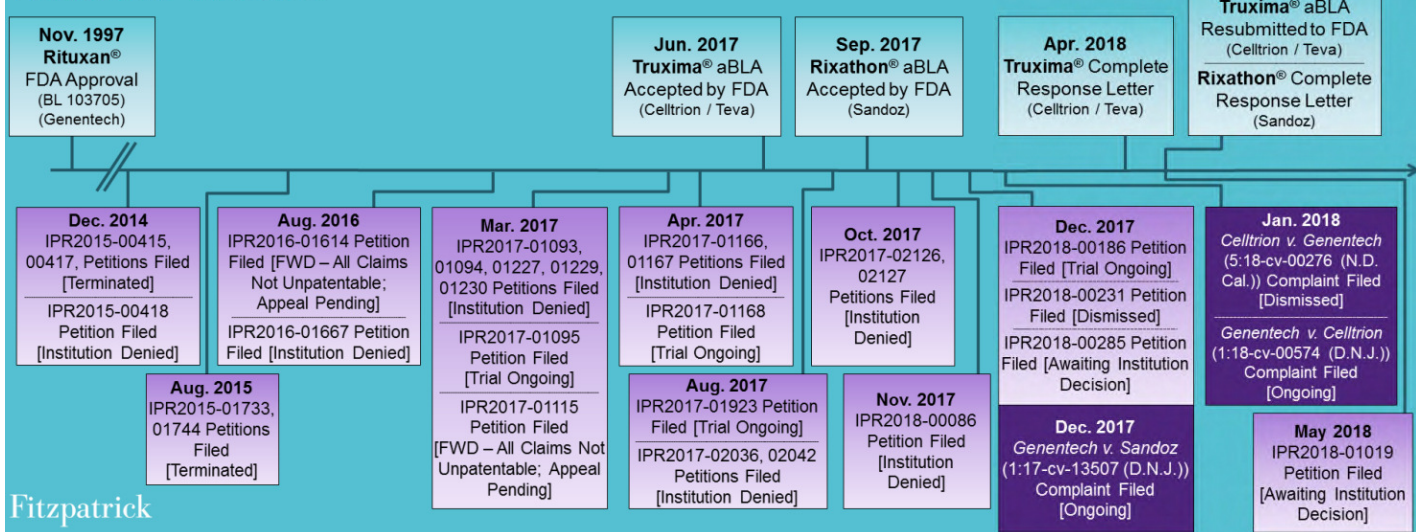
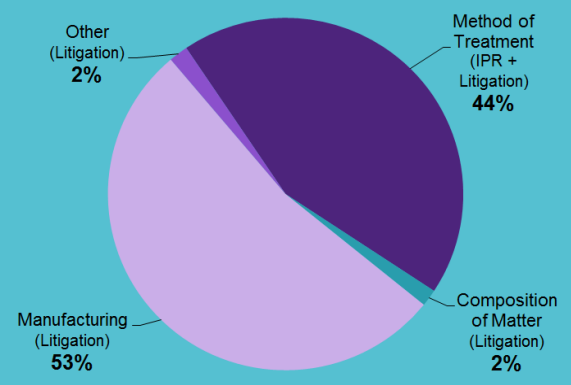


## Rituximab Timeline

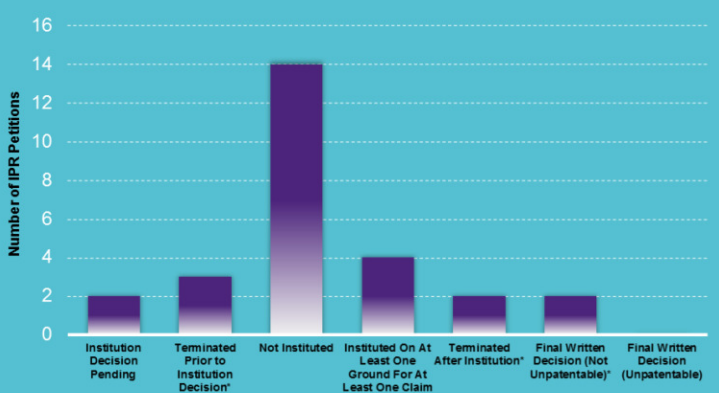


## Rituximab Challenged Claim Types in IPR and Litigation\*



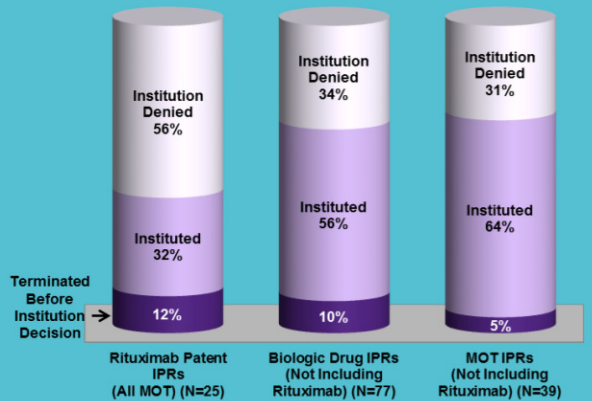
\*In litigations, it has been alleged that at least these claims will be infringed.

## Rituximab IPR Status (All Method of Treatment Claims)



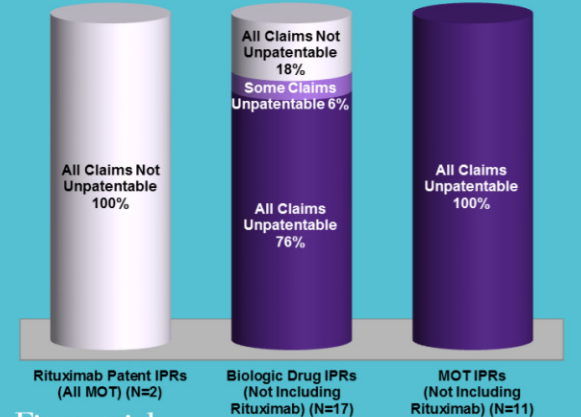
\*Joinder counted as separate decisions

## IPR Institution Rates\*



\*Joinder counted as separate decisions

## FWD Outcomes\*



\*Joinder counted as separate decisions

FWD = Final Written Decision

# Spotlight On: Rituximab

June 30, 2018

**Technology:** Rituximab is a chimeric murine/human monoclonal antibody that is directed against the CD20 antigen. CD20 is a protein that is primarily found on the surface of immune system B cells. CD20 is involved in cell growth and differentiation.

	<i>Genentech v. Celltrion</i> 1:18-cv-00574 (D.N.J.) Ongoing Cont'd below	<i>Celltrion v. Genentech</i> 4:18-cv-00276 (N.D. Cal.) Dismissed Cont'd below	<i>Genentech v. Sandoz</i> 1:17-cv-13507 (D.N.J.) Ongoing Cont'd below	<i>Celltrion v. Genentech</i> IPR2017-01227 Institution denied	<i>Celltrion v. Genentech</i> IPR2017-01230 Institution denied	<i>Pfizer v. Genentech</i> IPR2017-02126 Institution denied	<i>Boehringer Ingelheim v. Genentech</i> IPR2015-00415 Petitioner request for adverse judgment after institution	<i>Celltrion v. Genentech</i> IPR2015-01744 Petitioner dismissed prior to institution decision	<i>Celltrion v. Genentech</i> IPR2016-01614 FWD (all instituted claims not unpatentable); Appeal pending	<i>Pfizer v. Genentech</i> IPR2017-01115 (Joined with IPR2016-01614) FWD (all instituted claims not unpatentable); Appeal pending
6,121,428	x		x							
6,242,177	x									
6,331,415	x	x	x							
6,417,335	x	x								
6,455,043	x	x								
6,489,447	x	x	x							
6,586,206	x	x								
6,610,516	x	x	x							
6,620,918	x	x	x							
6,716,602	x	x								
6,870,034			x							
7,381,560	x		x							
7,390,660	x	x								
7,485,704	x	x	x							
7,682,612	x	x		x	x	x				
7,807,799	x	x	x							
7,820,161	x	x	x				x	x	x	x
7,923,221	x	x	x	<i>Boehringer Ingelheim v. Genentech</i> IPR2015-00417 Petitioner request for adverse judgment after institution	<i>Celltrion v. Genentech</i> IPR2015-01733 Petitioner dismissed prior to institution decision	<i>Celltrion v. Genentech</i> IPR2016-01667 Institution denied	<i>Pfizer v. Genentech</i> IPR2017-01923 Instituted, pending	<i>Sandoz v. Genentech</i> IPR2017-02036 Institution denied	<i>Sandoz v. Genentech</i> IPR2017-02042 Institution denied	<i>Celltrion v. Genentech</i> IPR2018-01019 Awaiting institution decision
7,976,838	x	x	x	x	X	x	x	x	x	x

FWD = Final Written Decision

# Spotlight On: Rituximab

June 30, 2018

	<i>Genentech v. Celltrion</i> 1:18-cv-00574 (D.N.J.) Ongoing  Cont'd from above	<i>Celltrion v. Genentech</i> 4:18-cv-00276 (N.D. Cal.) Dismissed  Cont'd from above	<i>Genentech v. Sandoz</i> 2:17-cv-13507 (D.N.J.) Ongoing  Cont'd from above	<i>Celltrion v. Genentech</i> IPR2017-01229 Institution denied	<i>Pfizer v. Biogen</i> IPR2017-02127 Institution denied	<i>Boehringer Ingelheim v. Biogen</i> IPR2015-00418 Institution denied	<i>Celltrion v. Biogen</i> IPR2017-01093 Institution denied	<i>Pfizer v. Biogen</i> IPR2017-01166 Institution denied	<i>Pfizer v. Biogen</i> IPR2018-00285 Awaiting institution decision	
8,044,017	x	x								
8,206,711	x	x	x	x	x					
8,314,225			x							
8,329,172	x	x	x			x	x	x	x	
8,357,301	x	x								
8,460,895	x	x		<i>Pfizer v. Genentech</i> IPR2018-00086 Institution denied	<i>Celltrion v. Biogen</i> IPR2017-01094 Institution denied	<i>Pfizer v. Biogen</i> IPR2017-01167 Institution denied	<i>Pfizer v. Biogen</i> IPR2017-01168 Instituted, pending	<i>Celltrion v. Biogen</i> IPR2017-01095 Instituted, pending	<i>Pfizer v. Biogen</i> IPR2018-00186 Instituted, pending	<i>Pfizer v. Biogen</i> IPR2018-00231 Petitioner dismissed prior to institution decision
8,512,983	x	x	x							
8,545,843	x	x	x	x						
8,557,244	x	x	x		x	x				
8,574,869	x	x	x							
8,633,302	x	x								
8,710,196	x	x	x							
8,771,988	x	x								
8,821,873	x	x	x				x			
8,822,655	x	x								
9,047,438	x	x								
9,080,183	x	x								
9,296,821	x	x	x					x	x	
9,428,548	x	x								
9,428,766	x	x								
9,487,809	x	x								
9,504,744	x	x	x						x	
9,714,293	x	x	x							

FWD = Final Written Decision