Celltrion, Inc.
Petitioner,
V.
Genentech, Inc.
Patent Owner
Patent No. 6,407,213

PETITIONER'S REPLY TO PATENT OWNER'S RESPONSE



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I.	Quee	challenged Claims Would Have Been Obvious over Queen-1989 or n-1990 and the PDB Database, Optionally in Light of Tramontano or Kabat-1987 and/or Hudziak4		
	A.	Claims 12, 42, 60, 65-67, and 71-79 are Obvious Over Queen-1989 or Queen-1990, in Combination with the PDB		
		1. A POSA Following the Teachings of the Prior Art Would Have Identified the Claimed Residues for Substitution4		
		2. A POSA Would Have Used The PDB As Dr. Riechmann Did7		
		3. A POSA Would Have Expected the Resulting Humanized mAb to Bind the Target Antigen		
		4. Holding the Challenged Claims Invalid Would Not Have "Sweeping Consequences"		
		5. Petitioner's Arguments Regarding Queen-1989 Do Not Rely on Queen-1990		
		6. Queen-1990 and Tramontano Further Support Petitioner's Position		
	B.	The Consensus Sequence Limitation of Claims 4, 33, 62, 64, and 69 Was Taught By the Prior Art		
	C.	The "Up to 3-Fold More Binding Affinity" Limitation of Claim 65 Was Taught By the Prior Art		
	D.	The "Lack Immunogenicity Compared to a Non-Human Parent" Limitation of Claim 63 Was Taught By the Prior Art16		
	E.	The Limitations Related to Binding p185 ^{HER2} of Claims 30-31, 33, 42, and 60 Was Taught By the Prior Art		
II.		Attempts to Establish an Earlier Date of Invention for Claims 12, 42, 5, 71, 73-74, and 79 Are Insufficient		
III.		Secondary Considerations of Non-Obviousness Do Not Render the Challenged Claims Nonobvious		
	A.	The Use of a Consensus Sequence Would Not Have Been Unexpected		
	B.	PO Has Not Established that the Alleged Unexpected Results and Commercial Success Have a Nexus to the Challenged Claims		



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After the Board considered the prior art cited by Petitioner and granted institution, PO abandoned its defense of claims 1, 2, 25, 29, 80, and 81 (POR, 18-22), essentially conceding that their limitations did not constitute patentable distinctions over the work of others.¹

Having made this concession, PO falls back to the position that certain elements distinguish a handful of remaining claims from the prior art: (1) the use of a "human consensus sequence" as the human framework (claims 4, 33, 62, 64 and 69), (2) "lack of immunogenicity as compared to a non-human parent antibody" (claim 63), (3) "up to 3-fold more" binding affinity than the parent antibody (claim 65), and (4) binding to p185^{HER2} (claim 30). (POR, 1-4.) PO also alleges that even if some of the claimed substitutions were explicitly disclosed in the prior art, not all of them were. (POR, 3-4.) These elements do not make the otherwise-obvious claims patentable, however.

Elements (1)-(4) above affect only a small number of claims. PO's arguments do not change the fact that each element was explicitly disclosed in, or obvious from, the prior art.

PO's allegation that not all of the claimed residues are explicitly disclosed in the prior art ignores all that the prior art teaches, as well as the limitations of what

¹ Therefore, this Reply addresses the remaining challenged claims: 4, 12, 30, 31, 33, 42, 60, 62-67, 69, and 71-79.



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