

Transcript of Paul J. Carter, Ph.D.

Date: April 27, 2018

Case: Pfizer, Inc. -v- Genentech, Inc. (PTAB)

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WORLDWIDE COURT REPORTING | INTERPRETATION | TRIAL SERVICES



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2		2	ON BEHALF OF PETITIONER PFIZER, INC.:	
3	BEFORE THE PATENT TRIAL AND APPEAL BOARD	3	·	
4		4	•	
		5		
5	PFIZER, INC. And SAMSUNG BIOEPIS CO., LTD.,		·	
6	Petitioner,	6	,	
7	V.	7	, , , , , , , , , , , , , , , , , , , ,	
8	GENENTECH, INC.,	8	(212) 446-6415	
9	Patent Owner.	9	ON BEHALF OF PETITIONER CELLTRION:	
10		10	LINNEA P. CIPRIANO, ESQUIRE	
11	Case Nos. IPR2017-01488, IPR2017-01489	11	(Via videoconference)	
12		12	GOODWIN PROCTER LLP	
13	CELLTRION, INC.,	13	620 Eighth Avenue	
14	Petitioner,	14	_	
15	·	15	(212) 813-8800	
	V.			
16	GENENTECH, INC.,		ON BEHALF OF PATENT OWNER GENENTECH, II	NC.:
17	Patent Owner.	17	ANDREW J. DANFORD, ESQUIRE	
18		18	NORA Q.E. PASSAMANECK, ESQUIRE	
19	Case Nos. IPR2017-01373, IPR2017-01374	19	WILMER CUTLER PICKERING HALE AND DOR	R, LLP
20		20	60 State Street,	
21	** CONFIDENTIAL - UNDER PROTECTIVE ORDER **	21	Boston, Massachusetts 02109	
22	VIDEOTAPED DEPOSITION OF PAUL J. CARTER, Ph.D.	22	(617) 526-6022	
23	San Francisco, California	23	ALSO PRESENT:	
24	Friday, April 27, 2018	24	Joseph A. Mourgos, Videographer	
25	9:09 a.m.	25	1 3 7 3 1	
			тастторр, соложост	
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3	Reported By: Charlotte Lacey, RPR, CSR No. 14224	1	PAUL J. CARTER, Ph.D.	
4		4	Examination by Mr. Lasky	7
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6	held at the offices of DURIE TANGRI, 217 Leidesdorff	6	Further Examination by Mr. Lasky	175
7	Street, San Francisco, California	7		
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Page 5	Page 7			
1 Exhibit 2017 Declaration of Dr. Paul J. Carter 8	1 THE VIDEOGRAPHER: Thank you.			
2 in Case IPR2017-01489	2 On the video conference we have:			
3 Exhibit 2020 Article, "Humanization of an 15	3 MS. CIPRIANO: Linnea Cipriano of Goodwin			
4 anti-p185HER2 antibody for human	4 Procter representing Celltrion.			
5 cancer therapy"	5 THE VIDEOGRAPHER: The court reporter today is			
6	6 Charlotte Lacey representing Planet Depos.			
7	7 Would the reporter please administer the oath.			
8	8 PAUL J. CARTER, Ph.D.,			
9	9 the witness herein, having been first duly sworn, was			
10	10 examined and testified as follows:			
11	11 EXAMINATION			
12	12 BY MR. LASKY:			
13	13 Q Good morning, Dr. Carter.			
14	14 A Good morning.			
15	15 Q Do you understand today that you're being			
16	16 deposed in proceedings before the Patent Office			
17	17 challenging your patent, the '213 patent?			
18				
19	18 A Yes, I do I understand that.			
	19 Q Okay.			
20	20 And you've submitted several declarations in			
21	21 the proceedings relating to that patent, correct?			
22	22 A There's at least one declaration that I'm			
23	23 aware of.			
24	24 Q Right. Okay.			
25	25 And that same declaration, are you aware that			
Page 6	Page 8			
Page 6 1 PROCEEDINGS	1 it has been submitted different times in different			
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Transcript of Paul Carter, Ph.D.

Conducted on April 27, 2018

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	Page 9				
1	•	1 Q Okay.			
2	1 9	2 And from the time you began in Sir Gregory			
3		3 Winter's lab, were you working on antibody chemistry a			
4		4 that time?			
5	That's a bad question. Let me strike that.	5 A Most of the time, I was working on a my			
6	,	6 thesis project, which was, Site-directed mutagenesis of			
	declarations that I've put before you that were	7 tyrosyl tRNA synthetase from from Bacillus			
	submitted in the Pfizer proceedings and the declarations	•			
	that were submitted in other proceedings involving	9 Q Okay.			
	Celltrion?	10 That work did not involve work with			
11	A To the best of my knowledge, there are no	11 antibodies; is that right?			
	differences.	12 A This particular project did not.			
13	•	13 Q Okay.			
14	,	14 When strike that.			
15		Did you do any antibody-related work while you			
16	•	16 were in the Winter lab?			
17		17 A I did a very small amount of antibody work.			
18	, ,	18 Q Okay.			
	found anything that was inaccurate?	19 And when would that have started?			
20	, , ,	20 A To the best of my recollection, that was			
21	, ,	21 towards the end of my Ph.D., actually after I had			
22		22 submitted my thesis.23 Q Okay.			
23	And in reviewing re-reviewing your declarations, did you find anything that you would now	Q Okay.And would that be, then, around about 1985			
	change?	25 onwards?			
23					
4	Page 10				
1	A There's nothing that I would change after re-reviewing.	1 A That period would have been from late 1985			
3	_	2 through early 1986. 3 Q Okay.			
4	I'd like to ask you some questions about the	4 And at that point, is that when you joined			
5		5 Genentech as a postdoctoral fellow?			
	focus on the 01488 declaration. You can put the other	·			
	one aside. If there's any differences you work out, you				
	can let me know.	8 The work that you did in late 1985 through			
9		9 early 1986, what was the project?			
	from Cambridge in 1982; is that correct?	10 A It was a project that I initiated trying to			
11	A Yes, that is correct.	11 explore a new technology that had just been published			
12					
	obtained at the Medical Research Counsel Laboratory; is				
	that right?	14 also referred to as PCR?			
15	_	15 A Correct. We can call it PCR.			
16	•	16 Q Okay.			
17	A correct.	17 PCR, how was that being used in the project			
18	Q And is that was that Dr. Winter's lab at	18 that you were doing at the Winter lab in late 1985			
19	the time?	19 through early 1986?			
20	A It is Dr. Gregory Winter. Actually now,	20 A I was trying to get the PCR technology to			
20		21 to work, and I chose a human humanized antibody gene			
21					
		22 to to do that.			
21 22		22 to to do that.23 Q Which gene did you choose?			
21 22 23	Q Okay. And when did you begin working in				



Transcript of Paul Carter, Ph.D. Conducted on April 27, 2018 Page 13 Page 15 1 Winter laboratory. A I was aware of at least some of that work, 2 Q Okay. 2 including work that had begun prior to my joining 3 You don't recall which particular project? 3 Genentech. 4 A I believe that it was the antibody genes in Q Okay. One of the projects that was undertaken 5 the -- in the Jones, et al., publication, to the best of 5 in the Winter lab in the late 1980s was attempts to 6 my knowledge, something which is more than 30 years 6 humanize an anti-lysozyme protein antibody. Is that --7 later. 7 well, strike that, 8 Q Yes. Understandable. 8 Are you aware of a project that was undertaken The -- who at the Winter lab was working with 9 9 in the Winter labs in the 1980s to humanize an 10 you on this project at the time? 10 anti-lysozyme antibody? 11 A It was really nobody else. It was just MR. DANFORD: Objection; outside the scope. 11 12 myself. 12 A Yes. I am aware of that antibody humanization 13 Q Okay. 13 project. 14 Were you seeking advice from anyone in the 14 Q Were you aware of that project while you were 15 laboratory at that time on this project? 15 at Genentech between 1986 and 1989? 16 MR. DANFORD: Objection to form. 16 A I was aware of that work, in part because it 17 A I was -- I don't remember clearly this --17 was published. 18 this -- these number of years later. Sorry. 18 Q Okay. Do you happen do you recall where it 19 Q Okay. 19 was published? 20 Did you ever overlap in time at the Winter lab 20 A If you can provide me with my PNAS paper, we 21 with Lutz Riechmann? 21 can -- we can look at the exact reference. 22 A To the best of my recollection, Lutz Riechmann 22 Q Okay. Dr. Carter, I've handed you a copy of 23 joined the -- Sir Gregory Winter's laboratory after I 23 what's been marked as Genentech Exhibit 2020 in both the 24 joined at Genentech. 24 1488 and 1499 -- 89 proceedings. And it's a copy of an 25 Q Okay. 25 article titled "Humanization of an anti-p185HER2 Page 14 Page 16 And did you overlap in the Winter lab at any 1 antibody for human cancer therapy," from the Proceedings 2 time with Jeffrey Foote? 2 of the National Academy of Sciences, U.S.A., in May 2 of A To the best of my recollection, Jeff Foote 3 1982. Is this the PNA reference that you were referring 4 joined Sir Gregory Winter's lab after I left --4 to?

5 A It's May 1992.

6 Q Sorry.

7 A It is the right -- it is the right reference,

8 yes.

9 Q Apologize. I misspoke. Yes. May 1992.

10 And you were referring to a paper that

11 published the anti-lysozyme work. Is that one of the

12 cited references?

13 A Yes. It is one of cited references.

14 Q And which one is this?

15 A To the best -- best of my recollection, it's

16 the reference on ATN, that's the Verhoeyen, et al.,

17 Science, Volume 239, pages 1534 to 1536.

18 Q And for the record, Verhoeyen,

19 V-e-r-h-o-e-y-e-n?

20 A Correct.

21 Q Okay. Other than through the published

22 literature or the Verhoeyen reference, were you aware of

23 the work being done to humanize the anti-lysozyme

24 antibody at the Winter lab?

A I have no clear recollection beyond this

- 5 actually, my recollection is that Jeff inherited my
- 6 bench.
- 7 Q Okay.
- 8 At the time that you joined Genentech in 1986
- 9 through -- to the spring of 1989, when you started your
- 10 own laboratory, did you have any contact with the Winter
- 11 lab anymore?
- 12 A I had intermittent contact.
- 13 Q And did any of that contact involve Jeff
- 14 Foote?
- 15 MR. DANFORD: Objection to form.
- 16 A I don't honestly remember this far -- it was a
- 17 long time ago.
- 18 Q Okay.
- 19 And is the same true with respect to Lutz
- 20 Riechmann?
- 21 A I don't remember. It's a very long time ago.
- 22 Q Okay. At the time that you were in -- at
- 23 Genentech in the 1986 to 1989 time frame, were you aware
- 24 of the work that was being done at Winter lab in
- 25 humanization of antibodies?

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