

EXHIBIT 6

Elliott, Steve 3/29/2007 2:31:00 PM

1 UNITED STATES DISTRICT COURT  
2 DISTRICT OF MASSACHUSETTS

3  
4

5 AMGEN INC., )  
)

6 Plaintiff, )  
)

7 vs. ) Civil Action  
)

8 F. HOFFMANN-LA ROCHE LTD., a Swiss ) No. 05-12237 WGY  
Company, ROCHE DIAGNOSTICS GmbH, )  
9 a German Company, and HOFFMANN-LA )  
ROCHE, INC., a New Jersey )

10 Corporation )  
)

11 Defendants. )

\_\_\_\_\_ )

12  
13  
14  
15

16 DEPOSITION OF STEVEN G. ELLIOTT, Ph.D.  
17 Thursday, March 29, 2007

18  
19

20 - CONFIDENTIAL -

21  
22  
23

REPORTED BY:  
24 JUDY SAMSON  
CSR NO. 6916

25

1 A Yes.

2 Q How does Aranesp differ from Epogen?

3 MR. DAY: Objection; vague and ambiguous,

4 THE WITNESS: So let's get into some more  
5 precise things. This is what I was going to say.

6 When you say "differ," there's a number of  
7 ways we could look at this.

8 What specific way do you want to talk  
9 about?

10 BY MR. JAGOE:

11 Q Let's start with the active ingredients of  
12 Aranesp and Epogen. And based on structure, what  
13 are the differences between those two substances?

14 A So if we say active ingredient, let's start  
15 with the polypeptide.

16 So the polypeptide sequence of Aranesp  
17 versus Epogen is the same length, but there are five  
18 amino acid differences in Epogen compared to  
19 Aranesp.

20 Q Are you able to tell me what those five  
21 differences are?

22 A Sure.

23 There are changes at position 30 and 32  
24 where the amino acids that are present in Aranesp  
25 are asparagine and threonine. And at positions 87,

Elliott, Steve 3/29/2007 2:31:00 PM

1 88, and 90, the amino acids in Aranesp are valine at  
2 87, asparagine at 88 and threonine at position 90.

3 Q What are the amino acid in the active  
4 ingredient of Epogen at those positions?

5 A It's been a while. I could guess, but I  
6 don't -- you know, I might get it wrong.

7 Q But it's something other than those --

8 A Yes.

9 Q -- that you just named for Aranesp?

10 A Right.

11 Q You said that they have the same length.

12 What did you mean by that?

13 A So in the product, the polypeptide is 165  
14 amino acids, and both molecules are 165 amino acids  
15 in length.

16 Q And are there any other structural  
17 differences between those two substances?

18 A Beyond the polypeptide sequence, which is  
19 different, there is additional carbohydrate on  
20 Aranesp.

21 Q What do you mean by "additional  
22 carbohydrate"?

23 A Epogen has three N-linked carbohydrate  
24 chains attached and one O-link carbohydrate.

25 Aranesp has the same O-linked carbohydrates

Elliott, Steve 3/29/2007 2:31:00 PM

1 and N-linked carbohydrates, but there are two  
2 additional ones at positions 30 and 88 on Aranesp.

3 Q And those are N-linked carbohydrates?

4 A Yes. Yes, they are.

5 Q Are there any other structural differences  
6 between the active ingredient of Epogen and the  
7 active ingredient of Aranesp?

8 A So you mean in the big picture, are  
9 there other major differences in, for example,  
10 carbohydrate.

11 Is that what you're asking? Or, I mean,  
12 any two entities are three-dimensional structures.  
13 And there can be, you know, relatively minor --  
14 that's sort of a vague term as well.

15 But there are structural differences that  
16 can be conferred upon it.

17 So there's the global three-dimensional  
18 structural.

19 There's the overall fold at, you know, a  
20 global level might look similar, but when you get  
21 into the real micro detail, there might be some  
22 subtle differences that are found in all molecules.

23 And then even within this preparation, it's  
24 a mixture of molecules.

25 And so when you ask this question, we're

Elliott, Steve 3/29/2007 2:31:00 PM

1 accurate with your answers at that time?

2 A Always.

3 Q Okay. I'm going to show you a copy of the  
4 transcript.

5 I'm going to mark it as Elliott Exhibit 1.

6 (Defendants' Exhibit 1 was marked for  
7 identification by the deposition  
8 reporter and is attached hereto.)

9 BY MR. JAGOE:

10 Q This Elliott Exhibit 1 has a Bates number  
11 on it AM-ITC, 00816981 through 7068.

12 Do you see that there are four transcript  
13 pages on each page of the exhibit?

14 A I see that.

15 Q And there are small numbers in the lower  
16 right-hand corner of each of the four panels?

17 A Yes, I see that.

18 Q The first one would have 3329?

19 A Yes.

20 Q And then 33 --

21 A I see that.

22 Q So I'd like you to look at 3338.

23 And at line 4 you were asked to describe  
24 what some of the goals you were interested in at the  
25 beginning were.

Elliott, Steve 3/29/2007 2:31:00 PM

1 Do you see that?

2 A No.

3 So -- hold on. 3338.

4 Q It goes from top left to top right?

5 A I see. Okay. Yes.

6 Q And what was your answer there?

7 MR. DAY: Objection; document speaks for

8 itself.

9 Do you want him to read the whole answer to

10 you?

11 BY MR. JAGOE:

12 Q Yes, I'd like that.

13 A Do you want me to read the statement here?

14 Q Yeah, what you said when Amgen's lawyers  
15 asked you what your goals were at the beginning of

16 the project?

17 A Starts:

18 "Can you briefly describe some of  
19 the goals that were -- that you were  
20 interested in at the beginning?

21 "Well, sure. There were lots of  
22 things.

23 "We started with this program  
24 without really knowing what we wanted  
25 to do. You know, our research

Elliott, Steve 3/29/2007 2:31:00 PM

1 director, you know, pretty much made it  
2 understood that we wanted to do  
3 something useful and that we should  
4 ultimately see if we could get to  
5 something useful. We're a  
6 biotechnology company, after all,  
7 and not a university.

8 "It was apparent with this program  
9 that there wasn't a clear direction or  
10 we didn't really know what we wanted to  
11 do.

12 "What we instituted instead was a  
13 basic research program whereby we would  
14 try to probe the structure of EPO,  
15 figure out how it works."

16 MR. DAY: He wants you to read the whole  
17 thing.

18 THE WITNESS: "It's a lengthy, a long  
19 stretch of amino acids. We didn't know  
20 what any of them do, what the role of  
21 any of them was, how the protein  
22 folded.

23 "And so we felt that rather than  
24 just randomly trying to guess, you  
25 know, or use nature to do random



Elliott, Steve 3/29/2007 2:31:00 PM

1 mutagenesis and then try to see if  
2 something appeared, instead, we would  
3 do a more planned, if we can even use  
4 that word because it wasn't really --  
5 we didn't know where we were going, but  
6 try to figure out how EPO worked, what  
7 the structure and function was and then  
8 generate this knowledge base from which  
9 we could do something useful.

10 "And by something useful, I was  
11 thinking of things like maybe a more  
12 active analog, maybe some way that EPO  
13 could be used more effectively in the  
14 clinic.

15 "You know, we were, of course,  
16 expecting that this would be approved.  
17 It hadn't been at the time.

18 "Maybe help it get to the  
19 development stage where it would be  
20 approved. Maybe this information about  
21 structure and function of this molecule  
22 could be applied to another one, and  
23 that, you know, maybe I would be  
24 working on a different protein in a  
25 year or two.

Elliott, Steve 3/29/2007 2:31:00 PM

1 "Maybe there would be some new  
2 product opportunities that would come  
3 out of this specifically relating to  
4 EPO or something else."

5 BY MR. JAGOE:

6 Q Okay. And when you gave that testimony,  
7 you were trying to be giving an accurate and full  
8 answer to the question?

9 A I'd have to look at this in a little bit  
10 more context, but I would always try to answer a  
11 question that was asked at the time.

12 I didn't always do the best job, but I  
13 tried to do the best I could.

14 Q Okay.

15 A So this was trying to answer the question  
16 that was asked back in whatever date this was.

17 Q So I'm trying to ask the same question now  
18 here today to you.

19 Was one of your goals in 1985 when you  
20 started the EPO analog project to come up with  
21 something useful that could be used in the clinic?

22 A To come up with something useful, yes.

23 I think that's an objective of research in  
24 general.

25 Q And at a biotech company?