1 UNITED STATES DISTRICT COURT 2 FOR THE DISTRICT OF NEW JERSEY 3 4 HELSINN HEALTHCARE, S.A. and ROCHE PALO ALTO, LLC, 5 CIVIL ACTION NUMBER: Plaintiffs, 6 11-3962 -vs-7 DR. REDDY'S LABORATORIES, LTD., TRIAL 8 DR. REDDY'S LABORATORIES, INC., TEVA PHARMACEUTICALS USA, INC., ${m 9}$ and TEVA PHARMACEUTICAL INDUSTRIES, LTD. 10 Defendants. 11 Clarkson S. Fisher United States Courthouse 12 402 East State Street Trenton, New Jersey 08608 13 June 5, 2015 14 BEFORE: THE HONORABLE MARY L. COOPER UNITED STATES DISTRICT JUDGE 15 16 17 18 19 20 21 22 23 Certified as True and Correct as required by Title 28, U.S.C., Section 753 24 25 /S/ Regina A. Berenato-Tell, CCR, CRR, RMR, RPR /S/ Carol Farrell, CCR, CRR, RMR, CCP, RPR, RSA

> United States District Court Trenton, New Jersey

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<u>A P P E A R A N C E S</u> : 2		Colloquy
PAUL HASTINGS 3 by: joseph o'malley, esquire	1	(In open court. June 5, 2015, 9:30 a.m.)
ERIC W. DITTMANN, ESQUIRE 4 SAUL EWING	2	THE COURT: Good morning, everyone.
BY: CHARLES M. LIZZA, ESQUIRE	3	ALL: Good morning, your Honor.
5 Attorneys for the Plaintiffs	4	THE COURT: Shall we continue?
6 BUDD LARNER	5	MR. WONG: Yes.
7 BY: STUART D. SENDER, ESQUIRE MICHAEL H. IMBACUAN, ESQUIRE	6	THE COURT: Call your witness, Mr. Wong.
8 HUA HOWARD WANG, ESQUIRE CONSTANCE S. HUTTNER, ESQUIRE	7	MR. WONG: Good morning, your Honor.
9 KENNETH E. CROWELL, ESQUIRE Attorneys for the Defendant, Dr. Reddy's Laboratories	8	THE COURT: Call your witness, Mr. Wong.
10	9	MR. WONG: Sorry. I didn't hear you.
WINSTON & STRAWN 11 BY: JOVIAL WONG, ESQUIRE	10	Just a bit of housekeeping. There were some exhibits
GEORGE LOMBARDI, ESQUIRE 12 JULIA MANO JOHNSON, ESQUIRE	11	that we didn't move into evidence yesterday from Dr.
BRENDAN F. BARKER, ESQUIRE 13 LITE DEPALMA, GREENBERG, LLC	12	Fruehauf's testimony. If we can move them into evidence now.
BY: MAYRA V. TARANTINO, ESQUIRE 14 Attorneys for the Defendant, Teva	13	Just a couple of Exhibits. They are DTX-0015, DTX-0289 and
15	14	DTX-0290.
16	15	MR. O'MALLEY: No objection.
	16	THE COURT: Thank you. Those are admitted into
17	17	evidence.
18	18	Just so you know, I have conferred with the court
19	19	reporters and have told them not to put into the transcripts
20	20	the admission of individual exhibits. Instead, we will rely
21	21	upon the signed list that the parties give us at the end of
22	22	the trial.
23	23	MR. WONG: Understood. Thank you.
24	24	Your Honor, today we're going to shift gears a little
25	25	bit and talk about the obviousness of the claim formulations.
United States District Court		United States District Court
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3 1 INDEX		5
		Kirsch - Voir Dire
2	1	As our first witness, defendants call Dr. Lee Kirsch.
3	2	(Whereupon, LEE EDWIN KIRSCH, witness for the
4	3	Defendant Teva, sworn.)
WITNESS VOIR DIRECT CROSS REDIRECT RECROSS	4	THE DEPUTY CLERK: Please state and spell your full
5 <u>DIRE</u>	5	name for the record. Have a seat.
Lee Edwin Kirsch 6 By Mr. Wong 5 18	6	THE WITNESS: My name is Lee Edwin Kirsch,
By O'Malley 92	7	K-I-R-S-C-H.
7	9	LEE EDWIN KIRSCH, DEFENDANT TEVA'S WITNESS, SWORN,
8	10	VOIR DIRE EXAMINATION BY MR. WONG:
	11	Q. Good morning, Dr. Kirsch.
9	12	A. Good morning. Q. Dr. Kirsch, have you been asked to provide expert
10	13	opinions in this case?
11	14	A. I have.
	15	Q. And, in general, what do your expert opinions relate to?
12	16	A. They relate to the formulation in question and the
13	17	invalidity of that formulation based on obviousness.
14	18	Q. Thank you. Let's review some background.
15 16	19	Dr. Kirsch, where are you currently employed?
17	20	A. I'm at the University of Iowa, faculty member at the
18 19	21	University of Iowa in the College of Pharmacy.
20	22	Q. And what is your current position at the College of
21 22	23	Pharmacy?
22 23	24	A. I'm a professor in the division of pharmaceutics and
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	Kirsch - Direct		Kirsch - Direct
1	A. Yes, I have.	1	their academic training and experience. They would draw on
2	Q. And in that was it a trial?	2	the pharmaceutical science literature, general textbooks.
3	A. Yes, it was.	3	They would draw upon research articles and abstracts
4	Q. And in that trial, what expertise did you offer?	4	and other sources of information that gave them some idea of
5	A. I offered expertise in the development of formulations.	5	the current state of knowledge of palonosetron and related
6	MR. WONG: Defendants tender Dr. Kirsch as an expert	6	compounds, compounds that had a chemical or therapeutic
7	in the field of pharmaceutical formulation development with an	7	similarity to palonosetron.
8	emphasis on drug stability.	8	Q. Okay. And in the course of
9	MR. O'MALLEY: No objection.	9	THE COURT: And patents, of course.
10	THE COURT: Admitted as such. Thank you.	10	THE WITNESS: And patents, yes, they would certainly
11	DIRECT EXAMINATION BY MR. WONG:	11	look at patents.
12		12	
	Q. Let's get to your opinions, Dr. Kirsch.		MR. WONG: Thank you.
13	Have you reviewed the asserted patents in this case?	13	BY MR. WONG:
14	A. Yes, I have.	14	Q. In the course of a POSA's practice, would he or she
15	Q. Are the asserted patents shown here on Kirsch 2?	15	collaborate with others of ordinary skill in the art?
16	A. Yes, there are four patents that I've considered.	16	A. Yes, certainly they would. I mean, one of the mechanisms
17	Q. And, in general, what are the four patents about?	17	for that interaction, of course, is a project team; but even
18	A. Well, the four patents are directed to the development of	18	in the absence of a project team, they would draw upon the
19	a stable formulation of the antiemetic drug palonosetron.	19	knowledge and expertise of clinicians and pharmacologists and
20	Q. Have you also reviewed the asserted claims in this	20	other scientists in the field.
21	litigation?	21	Q. So, that would be the same whether the POSA is working ir
22	A. I have.	22	industry or is in academia?
23	Q. And are the asserted claims up here on Kirsch 2 now?	23	A. Yes, absolutely.
24	A. Yes, that's correct.	24	Q. Now, in forming your opinions in this case, what is the
25	Q. Have you identified a representative claim among the	25	relevant date that you tied your opinions to?
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	Kirsch - Direct	
1	LVPs, which are large volume parenterals, you know, which are	
2	typically the, you know, the liter bag of D5W or some other,	
3	you know, some other solvent that's slowly dripped into the	
4	patient.	
5	BY MR. WONG:	
6	Q. Okay. In addition to the routine formulation development	
7	activities and textbooks we just reviewed, what else would a	
8	POSA consider in developing an I.V. formulation?	
9	A. So, of course, as we mentioned before, their training and	
10	their expertise, but they would also look to the available	1
11	literature, the public literature that dealt with palonosetron	1
12	and related compounds, therapeutically- and chemically-related	1
13	compounds. So they would look to whatever is published that	1
14	would inform them and would assist them in the design and	1
15	development of their desired injectable formulation.	1
16	Q. Have you reviewed the relevant literature that a POSA	1
17	would have considered with regard to developing palonosetron	1
18	formulation?	1
19	A. Yes. So this was the, you know, the first thing that ${\tt I}$	1
20	did when I got involved in this in this situation, was to	2
21	attempt to put myself in the position of a POSA as of 2003 and	2
22	to do a search through the literature to see what what ${\tt I}$	2
23	found that that I thought would be relevant to a POSA.	2
24	Q. And for the record, did you only rely on publicly	2
25	available documents of prior art in forming your opinions on	2

United States District Court

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Trenton, New Jersey

1 Q. You mentioned that the '333 patent was published in 1993. 2 Who was the assignee of the '333 patent? 3 A. So, this was a patent that was generated by Syntex, the 4 Syntex Research Group. 5 Q. And, in general, what does the '333 patent disclose to a 6 POSA? 7 A. So the '333 patent is again a compound patent that 8 describes an entire class of compounds of related --9 chemically-related compounds which also they discuss some of 0 their pharmacological properties as well, but, in particular, they describe the chemical structure of the -- of palonosetron 1 2 in this -- in this patent. 3 Q. Let's go to the next slide. This is pages from DTX-0343 4 at 2 and 4. 5 Dr. Kirsch, what is disclosed here? 6 A. So, you know, this gives the general formula for the 7 compounds that they disclose in the patent and then goes on to 8 describe, you know, what chemical features at each of these 9 positions -- R3, R2, and R1, that make up the chemical 20 formulation of what later became known as palonosetron. 21 THE COURT: This chemical drawing that contains what 22 you just said, R1, R2, and R3, as well as some actual chemical 23 names, oxygen, right, nitrogen? 24 THE WITNESS: Right. So --25 THE COURT: So R1, 2 and 3 are variables; is that United States District Court Trenton, New Jersey 17 49 ı1 e

Kirsch - Direct

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	77		
	Kirsch - Direct		Kirsch - Direct
1	obviousness?	1	right?
2	A. Yes.	2	THE WITNESS: That's correct.
3	Q. Have you prepared a slide that reviews the relevant prior	3	THE COURT: Okay.
4	art that a POSA would have uncovered?	4	BY MR. WONG:
5	A. Yeah, I put together a timeline that shows the	5	Q. So what does this next slide show, on Kirsch 13?
6	publication dates of various documents and information that a	6	A. So this is the chemical structure, the assembled chemical
7	POSA would likely use in helping them helping to inform	7	structure of palonosetron, and also identifies that the the
8	them about what they need to do in the formulation development	8	number that they gave it as part of the series. So the
9	process.	9	RS-26259 is the is the compound number for palonosetron
10	Q. Okay. And we'll cover these individually as we move	10	that they refer to in the patent.
11	forward, but how would you characterize the prior art relevant	11	Q. Okay. And is the structure of palonosetron itself
12	to palonosetron prior to the filing date?	12	strike that.
13	A. Well, there was quite a bit of information that was	13	The structure of palonosetron, would that be important
14	available in various forms that described palonosetron.	14	to a POSA?
15	Q. Okay. And would these be would these references,	15	A. The formulator is definitely going to look at the
16	these prior art, be helpful to a POSA in developing a	16	structure because it will inform him, as a starting point,
17	palonosetron formulation?	17	about potential issues with solubility. He can make some
18	A. Yes.	18	predictions about solubility based on structure. And, also,
19	Q. So what is the first piece of prior art we'll review?	19	he will look at that structure to see whether or not there are
20	A. So, the first piece of art is the the product patent,	20	particular types of structures in it, what we call moieties in
21	the three what's called here the '333 patent published in	21	it, which have the potential to undergo chemical instability.
22	1993.	22	THE COURT: What is the just out of curiosity,
23	MR. WONG: Okay. And for the record, we're looking	23	there is a two-letter abbreviation that's just sitting in the
24	here at an excerpt of DTX-0343 on Page 1.	24	space there.

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			100
	98 Kirsch - Cross		Kirsch - Cross
1	THE COURT: Deposition transcript maybe?	1	YOU.
2	MR. O'MALLEY: Yes, that's what I intended.	2	Do you see that?
3	BY MR. O'MALLEY:	3	A. Uh-huh.
4	Q. You haven't reviewed the deposition testimony of Dr.	4	Q. And do you see that this is the report whereby you
5	DeLuca either, have you?	5	summarize your opinions as to obviousness at least as to the
6	 A. I don't recall seeing it, no. 	6	first three patents-in-suit?
7	Q. Okay. So, that's fair to say you haven't taken any	7	A. Yes, that's correct.
8	analysis of the extent to which, if any, Dr. DeLuca's opinions	8	Q. Now, your opinions as to obviousness, do you have any
9	conflict with your own?	9	difference in the structure of your opinions with respect to
10	 A. I have not conducted that analysis, no. 	10	the '219 patent versus the first three patents-in-suit?
11	Q. Okay. Now, at your most recent deposition in this case,	11	 A. In general, I don't believe so.
12	do you recall going through the various references that were	12	Q. Okay. So, now going back to '219 references cited just
13	listed on the face of the '219 patent with my associate and	13	to close the loop, Page 6, and there it is there.
14	comparing them to the references you rely on for your	14	Do you see, again, this expert report containing your
15	obviousness opinion?	15	opinions of obviousness, at least with respect to the first
16	 A. I do recollect having that discussion with him, yes. 	16	three patents-in-suit, is one of the references cited on the
17	Q. And do you recall him pointing out to you that each of	17	face of the '219 patent.
18	the references you rely on are cited references on the face of	18	Do you see that?
19	the '219 patent?	19	A. Yes, sir, I do.
20	A. I do recall that, yes.	20	Q. Okay. Now, you've testified that you were first retained
21	Q. Okay. Now, I would like to look at the '219 patent,	21	in connection with this action roughly towards the end of 2012
22	DTX-0248, Page 6.	22	or maybe early 2013.
23	MR. O'MALLEY: In the right-hand column, if you can	23	Do you recall that?
24	find that for me, Roy. There we go.	24	A. I believe that those dates are correct, yes.
24 25	find that for me, Roy. There we go. BY MR. O'MALLEY:	24 25	····,,,,
	BY MR. O'MALLEY:		Q. Okay. Now, let's look at Teva's invalidity contentions.
	BY MR. O'MALLEY: United States District Court		Q. Okay. Now, let's look at Teva's invalidity contentions. United States District Court
	BY MR. O'MALLEY: United States District Court Trenton, New Jersey		Q. Okay. Now, let's look at Teva's invalidity contentions. United States District Court Trenton, New Jersey
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25	BY MR. O'MALLEY: United States District Court Trenton, New Jersey 99 Kirsch - Cross	25	Q. Okay. Now, let's look at Teva's invalidity contentions. United States District Court Trenton, New Jersey 101 Kirsch - Cross
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25 1 2	BY MR. O'MALLEY: United States District Court Trenton, New Jersey 99 Kirsch - Cross Q. Do you see that your own expert report in this litigation is among the references cited on the face of the '219 patent?	25 1 2	Q. Okay. Now, let's look at Teva's invalidity contentions. United States District Court Trenton, New Jersey 101 Kirsch - Cross And I don't have a DTX number. They're in your notebook while we pull them up.
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25 1 2 3 4 5 6	BY MR. O'MALLEY: United States District Court Trenton, New Jersey 99 Kirsch-Cross Q. Do you see that your own expert report in this litigation is among the references cited on the face of the '219 patent? A. Yes, I do see that. Q. And do you understand, from the date, that that was the first expert report that you submitted in this litigation? A. I believe that's correct.	25 1 2 3 4 5 6	Q. Okay. Now, let's look at Teva's invalidity contentions. United States District Court Trenton, New Jersey 101 Kirsch - Cross And I don't have a DTX number. They're in your notebook while we pull them up. Oh, okay. Have you located those, or do you want to look at them from the screen? A. The screen, I think, will be okay. Q. Have you seen these before?
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25 1 2 3 4 5 6 7 8 9 10 11 12	BY MR. O'MALLEY: United States District Court Trenton, New Jersey 99 Kirsch-Cross Q. Do you see that your own expert report in this litigation is among the references cited on the face of the '219 patent? A. Yes, I do see that. Q. And do you understand, from the date, that that was the first expert report that you submitted in this litigation? A. I believe that's correct. Q. Okay. THE COURT: There may have been a claim construction report separate from that expert report, but I'll allow you to question him. BY MR. O'MALLEY: Q. That report, if you need to verify my question, should be	25 1 2 3 4 5 6 7 8 9 10 11 12	Q. Okay. Now, let's look at Teva's invalidity contentions. United States District Court Trenton, New Jersey 101 Kirsch - Cross And I don't have a DTX number. They're in your notebook while we pull them up. Oh, okay. Have you located those, or do you want to look at them from the screen? A. The screen, I think, will be okay. Q. Have you seen these before? A. Yes, I believe I have. Q. Okay. Now, let's look at Page 47. Do you see the date for these contentions, December 1, 2011? A. Yes. Q. yeah, and that's about a year before you were retained by
25 1 2 3 4 5 6 7 8 9 10 11 12 13	BY MR. O'MALLEY: United States District Court Trenton, New Jersey 99 Kirsch-Cross Q. Do you see that your own expert report in this litigation is among the references cited on the face of the '219 patent? A. Yes, I do see that. Q. And do you understand, from the date, that that was the first expert report that you submitted in this litigation? A. I believe that's correct. Q. Okay. THE COURT: There may have been a claim construction report separate from that expert report, but I'll allow you to question him. BY MR. O'MALLEY: Q. That report, if you need to verify my question, should be in your notebook.	25 1 2 3 4 5 6 7 8 9 10 11 12 13	Q. Okay. Now, let's look at Teva's invalidity contentions. United States District Court Trenton, New Jersey 101 Kirsch - Cross And I don't have a DTX number. They're in your notebook while we pull them up. Oh, okay. Have you located those, or do you want to look at them from the screen? A. The screen, I think, will be okay. Q. Have you seen these before? A. Yes, I believe I have. Q. Okay. Now, let's look at Page 47. Do you see the date for these contentions, December 1, 2011? A. Yes. Q. Yeah, and that's about a year before you were retained by Teva, correct? As best you recall?
25 1 2 3 4 5 6 7 8 9 10 11 12 13 14	BY MR. O'MALLEY: United States District Court Trenton, New Jersey 99 Kirsch-Cross Q. Do you see that your own expert report in this litigation is among the references cited on the face of the '219 patent? A. Yes, I do see that. Q. And do you understand, from the date, that that was the first expert report that you submitted in this litigation? A. I believe that's correct. Q. Okay. THE COURT: There may have been a claim construction report separate from that expert report, but I'll allow you to question him. BY MR. O'MALLEY: Q. That report, if you need to verify my question, should be in your notebook. A. Again, DTX-0268?	25 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Q. Okay. Now, let's look at Teva's invalidity contentions. United States District Court Trenton, New Jersey 101 Kirsch - Cross And I don't have a DTX number. They're in your notebook while we pull them up. Oh, okay. Have you located those, or do you want to look at them from the screen? A. The screen, I think, will be okay. Q. Have you seen these before? A. Yes, I believe I have. Q. Okay. Now, let's look at Page 47. Do you see the date for these contentions, December 1, 2011? A. Yes. Q. yeah, and that's about a year before you were retained by Teva, correct? As best you recall? A. As best as I recall, that's correct.
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