## Transcript of the Testimony of M. Jayne Lawrence

Date: February 29, 2016

**Case:** Senju Pharmaceutical Co., LTD., et al. v. Lupin, LTD., and Lupin Pharmaceutical, Inc.,



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February 29, 2016

Senju Pharmaceutical Co., LTD., et al. v. Lupin, LTD., and Lupin Pharmaceutical, Inc.,

Page 1 UNITED STATES DISTRICT COURT FOR THE DISTRICT OF NEW JERSEY - x SENJU PHARMACEUTICAL CO., LTD., BAUSCH & LOMB INCORPORATED, and BAUSCH & LOMB PHARMA HOLDINGS CORP., Plaintiffs, C.A. Nos. 1:14-cv-00667-JBS-KMW 1:14-cv-04149-JBS-KMW v. LUPIN, LTD. and LUPIN 1:14-cv-05144-JBS-KMW PHARMACEUTICALS, INC., 1:14-cv-00335-JBS-KMW Defendants. INNOPHARMA LICENSING, 1:14-cv-06893-JBS-KMW INC., INNOPHARMA LICENSING, 1:14-cv-03240-JBS-KMW LLC, INNOPHARMA, INC., INNOPHARMA, LLC, Defendants. X VIDEOTAPED DEPOSITION of M. JAYNE LAWRENCE, Ph.D. February 29, 2016 9:06 a.m. Goodwin Procter, LLP 53 State Street Boston, Massachusetts Reporter: Michael D. O'Connor, RMR, CRR, CBC, CCP

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	Page 2		Page 4
1	VIDEOTAPED DEPOSITION of M. JAYNE	1	APPEARANCES (Cont'd):
2	LAWRENCE, Ph.D., taken pursuant to Notice, held	2	
3	at the Law Offices of Goodwin Procter, LLP, 53	3	ATTORNEYS FOR INNOPHARMA DEFENDANTS
4	State Street, Boston, Massachusetts, on Monday,	4	ALSTON & BIRD, LLP
5	February 29, 2016, at 9:06 a.m., before Michael	5	4721 Emperor Boulevard, Suite 400
6	D. O'Connor, RMR, CRR, CBC, CCP, and a Notary	6	Durham, North Carolina 27703
7	Public.	7	(919) 862-2200
8		8	BY: JITENDRA MALIK, Ph.D.
10		9 10	jitty.malik@alston.com
11		11	Also Present: Shawn Rudd Videographer
12		12	Also Present: Shawn Budd, Videographer
13		12	
14		13	
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1	APPEARANCES:	1	INDEX
2		1 2	Deposition of: Direct Cross Redirect Recross
3	ATTORNEYS FOR PLAINTIFFS:	3	M. JAYNE LAWRENCE, Ph.D.
4	FINNEGAN, HENDERSON, FARABOW, GARRETT &	4	By Mr. Hasford 11
5	DUNNER, LLP	5	
6	901 New York Avenue, N.W.	6	EXHIBITS
7	Washington, D.C. 20001	7	No. Page
8	(202) 408-4000	8	Exhibit 25 Deposition transcript of M.
9	BY: JUSTIN J. HASFORD, ESQ.	9	Jayne Lawrence, Ph.D., dated
10	BY: TERRENCE KIM, ESQ.	10	9/4/14 12
11	justin.hasford@finnegan.com	11	Exhibit 26 Deposition transcript of M.
12	terrence.kim@finnegan.com	12	Jayne Lawrence, Ph.D., dated
13		13	2/16/16 14
14	ATTORNEYS FOR LUPIN LTD. AND LUPIN	14	Exhibit 27 Document entitled "Opening
15	PHARMACEUTICALS, INC.:	15	Expert Report of M. Jayne
		16	Lawrence, Ph.D." 16
16	GOODWIN PROCTER, LLP		
16 17	The New York Times Building	17	Exhibit 28 U.S. Patent No. 8,129,431 45
16 17 18	The New York Times Building 620 Eighth Avenue	17 18	Exhibit 29 U.S. Patent No. 8,669,290 45
16 17 18 19	The New York Times Building 620 Eighth Avenue New York, New York 10018	17 18 19	Exhibit 29U.S. Patent No. 8,669,29045Exhibit 30U.S. Patent No. 8,754,13146
16 17 18 19 20	The New York Times Building 620 Eighth Avenue New York, New York 10018 (212) 459-7236	17 18 19 20	Exhibit 29U.S. Patent No. 8,669,29045Exhibit 30U.S. Patent No. 8,754,13146Exhibit 31U.S. Patent No. 8,871,81347
16 17 18 19	The New York Times Building 620 Eighth Avenue New York, New York 10018	17 18 19	Exhibit 29U.S. Patent No. 8,669,29045Exhibit 30U.S. Patent No. 8,754,13146

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Exhibit 44 Evjolfsson reference, entitled,

Degradation in Solution and

Exhibit 45 Gu reference, entitled, "Light

Degradation of Ketorolac

Exhibit 47 Handbook of Pharmaceutical

Excipients, Third Edition

Exhibit 48 Document entitled, "Remington:

The Science and Practice of

Exhibit 46 U.S. Patent No. 6,165,445

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Page 6 Page 8 E X H I B I T S (Cont'd) 1 E X H I B I T S (Cont'd) Page 2 No. Page 3 Exhibit 33 FDA-approved package insert Exhibit 49 Ghio reference, entitled, for Alphagan P, entitled, 4 "Tyloxapol Inhibits NF-kB and "Center for Drug Evaluation 5 Cytokine Release, Scavenges and Research" 6 HOCl, and Reduces Viscosity 78 89 Exhibit 34 U.S. Patent No. 4,910,225 7 of Cystic Fibrosis Sputum" 2.04Exhibit 35 Fu reference EP 0306984A1 8 95 Exhibit 50 Remington document entitled, Exhibit 36 U.S. Patent No. 5,603,929 101 9 "Remington, The science and Exhibit 37 U.S. Patent No. 5,558,876 10 106 Proctice of Pharmacy, 22nd Exhibit 38 U.S. Patent No. 5,891,913 107 Edition" 11 209 Exhibit 39 Document entitled "Responsive 12 Exhibit 51 Edwards and Prausnitz Expert Report of M. Jayne reference, entitled "Predicted 13 Lawrence Ph.D. Regarding Permeability of Cornea to 14 Secondary Considerations" 15 135 Topical Drugs" 222 16 Exhibit 40 U.S. Patent No. 9,144,609 148 Exhibit 41 Document entitled, "Reply 17 Exhibit 52 Schick reference, entitled Expert Report of M. Jayne "Nonionic Surfactants" 18 229 Lawrence Ph.D. Regarding 19 Invalidity" 150 20 21 22 Page 7 Page 9 E X H I B I T S (Cont'd) 1 E X H I B I T S (Cont'd) 2 Page No. Page Exhibit 42 DeRuiter reference, entitled, 3 Exhibit 53 Redenti reference, entitled "Non-Steroidal Antiinflammatory 4 "Cyclodextrin Complexes of Drugs (NSADs)" 5 Salts of Acidic Drugs, 167 Exhibit 43 U.S. Patent No. 5,475,034 6 Thermodynamic Properties,

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Pe	ige 10		Page 12
1P R O C E E D I N G S2VIDEOGRAPHER: We are on the rec3This is the videographer speaking, Shawn Bud4with Ace Federal Reporters. Today's date is5February 29, 2016, and the time is 9:06 a.m.6We are here in Boston, Massachusetts7to take the video deposition of Dr. Jayne8Lawrence in the matter of Senju Pharmaceutic9Company, et al. versus Lupin Limited and Lup10Pharmaceuticals, Inc.11Would counsel please introduce12themselves.13MR. HASFORD: Justin Hasford from14Finnegan on behalf of the Plaintiffs. With me15here is my colleague, Terrence Kim.16MR. MARGOLIS: Dan Margolis from17Goodwin Procter for Lupin.18MR. MALIK: Jitendra Malik, law firm19of Alston & Bird, for the Innopharma Defenda20VIDEOGRAPHER: Would the court21reporter please swear in the witness.22M. JAYNE LAWRENCE, Ph.D.	dd, cal pin n ants.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	understand a question that I ask, please let me know. If you answer a question, I will assume that you understood the question. Is that okay? A. Yes. Q. Is there any reason why you cannot testify truthfully and accurately today? A. No. MR. MALIK: Counsel, not to interrupt, but our stipulation, an objection by one Defendant is an objection to all? MR. HASFORD: So stipulated. I'm handing the court reporter what I've asked to be marked as Lawrence Exhibit 25. For the record, Lawrence Exhibit 25 is a copy of the transcript of the testimony of M. Jayne Lawrence, dated September 4, 2015 in this case. (Document marked as Exhibit 25 for identification) Q. Are you the M. Jayne Lawrence who provided sworn testimony in this case on September 4, 2015 that was transcribed in
<ul> <li>Pa</li> <li>having been satisfactorily identified by the</li> <li>production of her driver's license, and duly</li> <li>sworn by the Notary Public, was examined an</li> <li>testified as follows:</li> <li>DIRECT EXAMINATION</li> <li>BY MR. HASFORD:</li> <li>Q. Good morning, Dr. Lawrence.</li> <li>A. Good morning.</li> <li>Q. Would you please state your name and</li> <li>address for the record.</li> <li>A. Yes. It's Margaret Jayne Lawrence,</li> <li>62 Wellington Road, Ashford, Middlesex, U.H</li> <li>Q. Let me tell you how today's</li> <li>deposition will proceed. I represent the</li> <li>Plaintiffs in this case. Today I will ask you a</li> <li>series of questions, and I would ask that you</li> <li>answer my questions truthfully and accurately</li> <li>If you need a break, just let me</li> <li>know, but if I have asked a question, I would at then we can take a break.</li> <li>If for any reason you do not</li> </ul>	d K.	10 11 12 13 14 15 16 17 18 19 20 21	Page 13 Lawrence Exhibit 25? A. I am. Q. Turn, if you would, to Page 17 in the small numbered pages. It's going to be Page 5 in the large numbered pages. Let me direct your attention to Page 17, Line 13. I asked you a question, "Let me tell you how today's deposition will proceed. I represent the Plaintiff in this case. Today I will ask you a series of questions, and I would ask that you answer my questions truthfully and accurately. "If you need a break, just let me know, but if I have asked a question I would ask that you first answer the question and then we can take a break. "If for any reason you do not understand a question that I ask, please let me know. If you answer a question, I will assume that you understood the question. Is that okay?" You answered "Yes." Then I asked a question, "Is there any reason why you cannot testify

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