

UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE PATENT TRIAL AND APPEAL BOARD

NALOX-1 PHARMACEUTICALS, LLC,

Petitioner,

v.

ADAPT PHARMA OPERATIONS LTD., AND
OPIANT PHARMACEUTICALS, INC.

Patent Owners

CASE IPR2019-00685

U.S. Patent No. 9,211,253

Video deposition of STUART ALLEN JONES, Ph.D., held remotely via Zoom, on Friday, May 1, 2020, commencing at 8:06 a.m., before Kathleen McHugh, a Registered Professional Reporter, Certified Realtime Reporter, Certified Shorthand Reporter-NJ, License No. 30XI00180400, and Notary Public.

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EXAMINATION INDEX

Dr. Stuart Allen Jones

BY MR. BERMAN 4

4	<p>1 VIDEOGRAPHER: We are now on the video 2 record. 3 This is the video deposition of 4 Dr. Stuart Allen Jones, taken by plaintiff -- 5 petitioner, in the matter of Nalox-1 6 Pharmaceuticals, LLC v. Adapt Pharma Operations 7 Ltd., et al., hearing remotely with the deponent in 8 Watford, United Kingdom, on Friday, May 1st, 2020, 9 at 8:06 a.m. 10 I am Martin Zinkel, the videographer. 11 The court reporter is Kathy McHugh. We are from 12 the firm of Advanced Depositions in Philadelphia, 13 Pennsylvania. 14 Counsel will be noted on -- the 15 appearances will be noted on the transcript, and 16 the reporter will now swear in the witness. 17 STUART ALLEN JONES, Ph.D., having been 18 duly sworn, was examined and testified as follows: 19 EXAMINATION 20 BY MR. BERMAN: 21 Q. Hello again, Dr. Jones. My name again 22 is Rich Berman. I'm counsel for petitioner, 23 Nalox-1 Pharmaceuticals, LLC. 24 Let's turn to Exhibit 2300, your 25 Supplemental Declaration, just the cover page,</p>	6	<p>1 is oxidative degradation, but there are others. 2 And I cited in my first report that also naloxone 3 is prone to photoinstability issues, i.e., 4 degradation under light. 5 Q. If we can go to Nalox 1201, the 6 Donovan Supplemental Declaration, and paragraph 15. 7 And you can blow up up until the line 8 there. 9 Great. 10 It says, Wyse discloses that 11 formulations 7, 9, 14 and 14A contained, quote, an 12 additional degradant, unquote, one that was not 13 reported as being found in at least some of the 14 other disclosed formulations. Since these 15 formulations were pH adjusted, quote, to accelerate 16 degradation, unquote, of the naloxone -- and 17 there's a citation given there -- a Formulator POSA 18 would have considered that, if the, quote, 19 additional degradant, unquote, was a naloxone 20 degradant, it would likely be an oxidation 21 degradant. 22 Do you see that? 23 A. Yes. 24 MR. KRINSKY: And I'd just like to 25 note, you only have part of the paragraph on the</p>
5	<p>1 page 1. 2 And this is the declaration that you 3 submitted for the '747 patent. 4 Do you see that? 5 A. Yes. 6 Q. And my understanding is that you 7 submitted this same substantive declaration in all 8 three IPRs; is that correct? 9 A. Yes, I believe they're identical. 10 Q. Okay. If we can go to paragraph 12. 11 I don't have the page number in front of me. 12 Oh, there you go. Good. 13 It starts off -- 14 You can just blow up that paragraph. 15 It starts off saying, Dr. Donovan 16 limited the analysis in her second declaration to 17 oxidative degradation of naloxone. 18 Do you see that? 19 A. Yes. 20 Q. So sitting here today, you don't know 21 of any mechanism for degradation of naloxone other 22 than oxidative degradation, correct? 23 A. I understand that the degradation of 24 naloxone is a complex process, and it can occur by 25 many different mechanisms. One of those mechanisms</p>	7	<p>1 screen. I just wanted to make sure Dr. Jones knew 2 that he could ask Martin to put up what he needs to 3 put up if he'd like to look at something else. 4 BY MR. BERMAN: 5 Q. Do you agree with Dr. Donovan's 6 opinion that a POSA would have considered it likely 7 that the naloxone degradant was an oxidation 8 degradant? 9 THE WITNESS: If you could just do -- 10 Martin, I still have to look at the full page, 11 please. (Witness reviews document.) 12 Could I just look at the next page of 13 the document as well, please. (Witness reviews 14 document.) 15 If you can go back to the previous 16 page, please. (Witness reviews document.) 17 And can I have the question? 18 BY MR. BERMAN: 19 Q. Yes. Do you need me to repeat the 20 question? Okay. 21 The question is, do you agree with 22 Dr. Donovan's opinion that a POSA would have 23 considered it likely that the naloxone degradant 24 was an oxidation degradant? 25 A. The POSA would have read Wyse and</p>

8	<p>1 would have understood from Wyse that benzalkonium 2 chloride caused the degradation of naloxone. 3 They would have read Wyse and 4 understood Wyse in the wider context of the 5 literature and understand this was a valid 6 proposition from Wyse's data and what Wyse actually 7 said. 8 Wyse identified an additional 9 degradant of four formulations containing 10 benzalkonium chloride. And, therefore, POSA would 11 have read Wyse and understood that Wyse showed that 12 benzalkonium chloride caused naloxone degradation. 13 The POSA would not need to understand 14 the mechanism by which that would occur because 15 they would have read Wyse and understood Wyse from 16 what Wyse said and what Wyse did. 17 Wyse removed benzalkonium chloride in 18 the formulations after finding it caused 19 instability in the formulations with respect to 20 naloxone, and, therefore, the POSA would have 21 followed Wyse's teaching away from using 22 benzalkonium chloride in the formulation and would 23 not go on to think about the mechanism of 24 degradation. 25 Q. But do you agree with Dr. Donovan's</p>	10	<p>1 stable. The POSA would not go on to consider the 2 mechanism by which that occurred. 3 MR. BERMAN: If we can go to Wyse -- 4 that's Nalox 1007. 5 MR. KRINSKY: I believe you said Nalox 6 1007. 7 MR. BERMAN: Nalox 1007. That's just 8 the exhibit number. Thanks. 9 PDF page 22, we're going to look at 10 Example 5 on columns 26 and 27. 11 If you could zoom in on where it says 12 Example 5 above where you are a bit. Right there. 13 Yes. 14 No. Down. Down. Around line 20. 15 Yes, there you go. That's fine. 16 BY MR. BERMAN: 17 Q. Okay. So I'm looking at Wyse Example 18 5 and specifically at -- I'm going to just read 19 from a couple of places and then ask you a couple 20 of questions. 21 Around line 29, it says, The 22 formulations were at pH 5.0 to accelerate 23 degradation. 24 Do you see that? 25 A. Yes.</p>
9	<p>1 opinion that a POSA would have considered it likely 2 that the naloxone degradant was an oxidation 3 degradant? 4 MR. KRINSKY: Objection. Asked and 5 answered. 6 THE WITNESS: The POSA would have read 7 Wyse and understood from Wyse that benzalkonium 8 chloride caused naloxone degradation. 9 Wyse produced a series of experiments 10 whereby he tested naloxone's compatibility in a 11 series of different intranasal formulations, and he 12 showed from that series of experiments that, 13 indeed, benzalkonium chloride caused naloxone 14 degradation. 15 He identified an additional naloxone 16 degradation peak in four formulations which 17 contained benzalkonium chloride and went on to 18 state in a number of places in Wyse's patent that 19 benzalkonium chloride caused the degradation of 20 naloxone. 21 The POSA would have read this and read 22 what Wyse did subsequent to defining this finding 23 in that he removed benzalkonium chloride from his 24 subsequent formulation testing and went on to make 25 an intranasal formulation that was chemically</p>	11	<p>1 Q. And then going on -- if you can leave 2 that up, and then go on to the next column, 27. 3 And then just go from the top down to 4 about line 30. 5 Yep. Perfect. 6 And here around line 20, it says, 7 Increasing the pH of the solution accelerated the 8 degradation of naloxone HCL resulting in the 9 formation of a major degradant at a relative 10 retention time, RRT, of 0.52. However, it was 11 found that decreasing the pH minimizes the 12 formation of potential oxidative degradants. 13 Do you see that? 14 A. Yes. 15 Q. So in this Example 5 test, Wyse 16 increased the pH of the solution to accelerate the 17 degradation of naloxone, correct? 18 MR. KRINSKY: Object to the form of 19 the question. 20 THE WITNESS: (Witness reviews 21 document.) 22 Could you reask the question, please? 23 BY MR. BERMAN: 24 Q. Sure. 25 In this example, Wyse increased the pH</p>

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