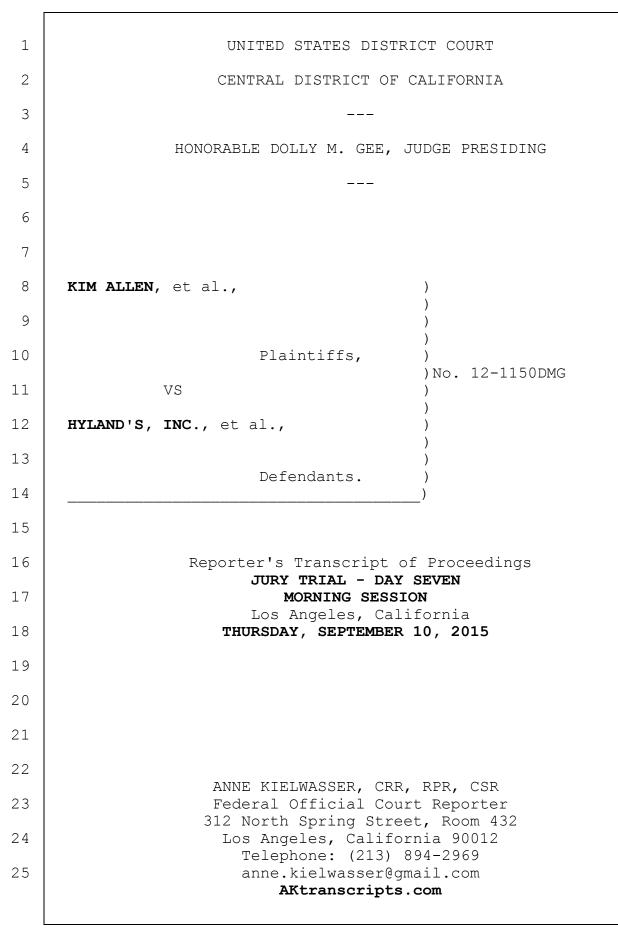
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UNITED STATES DISTRICT COURT

1 A P P E A R A N C E S 2 3 ON BEHALF OF THE PLAINTIFFS: 4 John H Gomez 5 Deborah S Dixon Gomez Trial Attorneys 6 655 West Broadway Suite 1700 San Diego, CA 92101 7 Tel: 619-237-3490 Fax: 619-237-3496 8 e-mail: John@gomeztrialattorneys.com 9 10 Ronald A Marron Law Offices of Ronald A. Marron 11 651 Arroyo Drive San Diego, CA 92103 12 Tel: 619-696-9006 Fax: 619-564-6665 13 E-mail: Skye@consumersadvocates.com 14 ON BEHALF OF THE DEFENDANTS: 15 16 Jeffrey B Margulies Spencer Persson 17 Norton Rose Fulbright US LLP 555 South Flower Street, 41st Floor 18 Los Angeles, CA 90071 213-892-9200 19 Fax: 213-892-9494 e-mail: Jeff.margulies@nortonrosefulbright.com 20 Spencer.persson@nortonrosefulbright.com E-mail: 21 Also Present: Mary Borneman, Corporate Representative 22 23 24 25

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1	THURSDAY, SEPTEMBER 10, 2015 9:00 A.M.
2	~ ~ ~
3	JURY TRIAL - DAY SEVEN
4	MORNING SESSION
5	~ ~ ~
6	(Following proceedings held in open court outside
7	the presence of the jury.)
8	COURT CLERK: Item No. 2. CV 12-1150DMG, Kim
9	Allen, et cetera, et al., versus Hyland's, Inc., et al.
10	Counsel, your appearances, please.
11	MR. GOMEZ: John Gomez for the plaintiffs.
12	MS. DIXON: Good morning, Your Honor. Deborah
13	Dixon for the plaintiffs.
14	MS. NELSON: Good morning, Your Honor. Gretchen
15	Nelson on behalf of the plaintiffs.
16	MR. MARRON: Good morning, Your Honor. Ronald
17	Marron on behalf of defendants.
18	MR. MARGULIES: Good morning, Your Honor. Jeff
19	Margulies for the defendant.
20	MR. PERSSON: Good morning, Your Honor. Spencer
21	Persson on behalf the defendant.
22	THE COURT: Good morning.
23	All right. Is there a housekeeping item
24	before we begin?
25	MR. MARGULIES: Yes, thank you, Your Honor. We

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1	have one issue with regard to Dr. Bell who's anticipated to
2	be our first witness after the plaintiffs rest this morning.
3	The issue pertains to the Teething Tablets
4	and a as the Court will recall, there has been some
5	testimony of a trial that Dr. Jacobs did on the Teething
6	Tablets, and Dr. Bell will talk about that. She will talk
7	about a subsequent study after that that was started and then
8	stopped because the Teething Tablets were withdrawn from the
9	market. There was a recall with FDA.
10	And I believe that going into the facts of
11	that recall would be both irrelevant under 401 and 403. I do
12	not intend to elicit testimony about it. I simply intend to
13	ask her why the why the subsequent study was stopped. She
14	will say the product was taken off the market, and I will ask
15	her was it later reintroduced in a similar format, and she
16	will say yes.
17	Counsel, I think, believes that it is
18	appropriate to cross-examine her on the recall. The recall
19	was due to the FDA's perception about the manufacturing of
20	the product that belladonna that there were there was a
21	perception that the belladona was at a level that could cause
22	adverse effects in children. It was reformulated with a
23	higher potency, lower amount of belladonna in it.
24	THE COURT: When did that occur?
25	MR. MARGULIES: 2010.

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1	THE COURT: The recall occurred in 2010?
2	MS. BORNEMAN: Yes, ma'am.
3	MR. MARGULIES: Yes.
4	THE COURT: All right.
5	Who wishes to respond to that?
6	MR. GOMEZ: John Gomez.
7	As I understand it, the defense intends to
8	elicit testimony affirmatively from Dr. Bell that a
9	subsequent study was begun and then stopped because the
10	product was taken off the market. And, unfortunately, you
11	know, that's not the whole story. But the whole story is
12	that the FDA opened an investigation into these Teething
13	Tablets because of perceived issues of safety with children.
14	Once the second trial began, Dr. Bell viewed
15	it as unethical with an FDA investigation pending involving
16	safety to continue the trial.
17	And so then the trial was stopped, and I
18	think it's true that the Teething Tablets were reintroduced
19	to the market.
20	You know, and so do I plan on questioning her
21	about that second study and the reasons that it was stopped
22	or that it was stopped? No.
23	But the defense cannot affirmatively elicit
24	that in a sanitized fashion, have her testify, apparently,
25	with some innocuous perception of the jury attached to it

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1	that they simply pulled the product off the market for
2	reasons of their own accord without regard for safety.
3	That the point is, they're, it appears, would be the ones
4	getting into this, not me.
5	THE COURT: Why do we need to get into any of this
6	at all?
7	MR. MARGULIES: Well, the Mr. Gomez raised the
8	implication with Dr. Borneman that Hyland's didn't do any
9	more studies after Dr. Jacobs did her report. The Court will
10	remember an extended series of questions about an e-mail from
11	Dr. Bell recommending additional studies. Dr. Bell will talk
12	about that e-mail. That's not about the study we're talking
13	about.
14	But plaintiffs put the implication before the
15	jury that Hyland's did Hyland's did the Teething Tablet
16	study and then just threw up its hands and walked away. And
17	I think it's important for the jury to hear they didn't threw
18	up their hands, they started another study, they stopped it.
19	The product was taken off the market, it was reformulated,
20	it's been put on the market again. They are thinking about
21	doing additional studies now.
22	So I'm not opening the door. The door's been
23	open, and I think I have every right to respond to it.
24	THE COURT: Well, if you open the door to respond
25	to it, then they have a right to cross-examine about it.

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1 It's either not pertinent or important enough 2 to elicit because it's not really an aspect of the plaintiffs' case; or if you go into it, then they have a 3 4 right to cross-examine. I don't see why you can't simply say that --5 that there -- that there is contemplation for a new study and 6 7 leave it at that. If you weighed into the fact that there was a study, and then it stopped, and we went to a recall, 8 9 then they have a right to cross-examine. 10 MR. MARGULIES: Well, Your Honor, if the Court --11 And I think it's a 403 issue, certainly in 12 terms of prejudice and consumption of time, confusion of 13 issues. 14 THE COURT: Yes, it is a 403 issue; but to the 15 extent that you weighed into it, then they have a right to 16 cross-examine about it. If you don't go into it, I presume they won't be going into it. 17 18 MR. GOMEZ: I did not intend to get into it. And 19 I'm not sure what the relevance would be of even the fact --20 even if they did for innocuous reasons that they started the 21 study and then stopped the study. And there is no relevance 22 to it. 23 MR. MARGULIES: Well, I mean, I suppose if we have 24 a stipulation or order that counsel can't argue that Hyland's 25 didn't do anything following the study, I don't have any need

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1 to go into it. 2 But I didn't open this door. Mr. Gomez did 3 through his questions that he was asking of Dr. Borneman. 4 **THE COURT:** Well, do plaintiffs intend to argue 5 that after the first study they just sat on their hands and didn't do anything further? 6 7 MR. GOMEZ: We intend to argue that since the 8 first study, which was conducted in 2006, which showed that 9 placebos did better than Teething Tablets, they've not 10 completed the study that demonstrates that Teething Tablets 11 do, in fact, afford effective medical care, and even setting 12 aside this evidence, that remains true. 13 MR. MARGULIES: If that's all they intend to 14 argue, and I can rely on that, then I'm not going to open up 15 the door to the recall. 16 THE COURT: All right, why don't we just sidestep 17 all of that then. 18 MR. MARGULIES: Thank you. 19 MR. GOMEZ: That will be safest. 20 THE COURT: All right, why don't we call the 21 jurors in, then. 22 (Following held in the presence of the jury.) 23 THE COURT: Good morning, ladies and gentlemen of 24 the jury. 25 THE JURY: Good morning.

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All right, are plaintiffs ready with 1 THE COURT: 2 their next witness? 3 MS. DIXON: Yes, Your Honor, we are. 4 Before we begin, we just wanted to admit the 5 documents that the jury saw yesterday on the video with Dr. Taylor. In case they were taking notes, we could 6 7 identify them for the record. 8 **THE COURT:** I thought we already had admitted 9 them, but why don't you go over them. 10 MS. DIXON: Your Honor, the depo exhibits to 11 Dr. Taylor's deposition at Exhibit 2 is admitted as Trial 12 Exhibit 172. 13 Depo Exhibit No. 6 is admitted as Exhibit 14 176. 15 Depo Exhibit 9 is admitted as trial Exhibit 16 179. Deposition Exhibit 11 is admitted as Trial 17 18 Exhibit 181. 19 Deposition Exhibit 157 is admitted as Trial 20 Exhibit 190. 21 And deposition Exhibit 158 is admitted as 22 Trial Exhibit 191. 23 THE COURT: They've all been admitted. 24 (Exhibit Nos. 172, 176, 179, 181, 190, 191 received 25 into evidence.)

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1 MS. DIXON: Thank you, Your Honor. 2 The plaintiffs would like to play for the 3 jury a compilation of deposition testimony selected by the 4 plaintiffs and defendants of Ms. Rodriguez. 5 THE COURT: All right, that is Plaintiff Diana 6 Rodriguez; is that right? 7 MS. DIXON: Yes, Your Honor. THE COURT: Oh, I'm sorry, Nancy. 8 9 MS. DIXON: Nancy. 10 THE COURT: All right, Nancy Rodriguez, who is a plaintiff. 11 12 All right. You may proceed. 13 (Deposition testimony of Nancy Rodriguez played.) MR. PERSSON: Your Honor, defendants would request 14 15 that we be able to move Exhibits 1308, 1309, 1310, 1311 and 16 1313 into evidence. These are the products that she discussed that are not Hyland's products but are homeopathic. 17 18 **THE COURT:** All right, any objection? 19 MS. DIXON: Yes, Your Honor. Objection as to --20 lacks foundation and hearsay. She didn't describe the 21 packaging of the products. We don't know if the packaging 22 that they provided is the same. These are also the same ones 23 that we discussed were never produced at discovery or 24 identified on the exhibit lists. 25 THE COURT: I'm sorry. They were not produced

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during discovery? 1 2 MS. DIXON: Correct. Nor identified on the 3 exhibit list. MR. PERSSON: Your Honor, they're not our 4 5 They wouldn't have been responsive to any products. discovery requests. They're only relevant because 6 7 Ms. Rodriguez claimed she used the products, and they were 8 effective for her. 9 THE COURT: When did she have her deposition 10 taken? 11 MR. PERSSON: She had her deposition taken in 2012. 12 13 THE COURT: So you've had that deposition since 14 2012. 15 MR. PERSSON: Correct, but the -- they wouldn't be 16 responsive to discovery responses to us, and it's impeachment of plaintiffs' theory of the case. 17 18 **THE COURT:** Were these identified in a timely fashion in the exhibit list? 19 20 MR. PERSSON: They were on the exhibit list, yes, 21 Your Honor. 22 THE COURT: All right. 23 MS. DIXON: Your Honor, they didn't show it to 24 Ms. Rodriguez during her deposition so that we know that was 25 the same product that she's testifying that she bought, and

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the exhibit list that was filed with the Court at the 1 2 pretrial conference did not have these on them. They were 3 added a week before trial started. MR. PERSSON: Your Honor, they were added after we 4 5 were told she wasn't going to be here. MS. DIXON: That --6 7 THE COURT: Well, I'm going to allow them to be admitted. I think these are issues that counsel can argue 8 9 about as opposed to that they should not be admitted. 10 MR. PERSSON: Thank you, Your Honor. THE COURT: So, that was 1308, 1309, 1310 and 11 12 1312? 13 MR. PERSSON: Sorry, no. 1311 and 1313. 14 THE COURT: All right. 15 (Exhibit Nos. 1308, 1309, 1310, 1311 and 1313 16 received in evidence.) 17 THE COURT: All right. Are plaintiffs ready with 18 their next witness? 19 MS. DIXON: Yes, Your Honor, we are going to play 20 a videotaped deposition that has been selected by defense and 21 plaintiffs of Daniele Xenos. 22 (Deposition testimony of Daniele Xenos played.) 23 MR. PERSSON: Your Honor, for the same reason we 24 would request that we be allowed to move Exhibit 1312 into 25 evidence.

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1 THE COURT: Can you identify that for the record, 2 please? 3 MR. PERSSON: That would be the arnica rub, 4 NatraBio Arnica Rub -- make sure I say that exactly the way 5 it is. Yes, the product packaging for the NatraBio's Arnica Rub. 6 7 THE COURT: All right. For the same reasons I 8 articulated earlier, I will admit it. 9 MR. PERSSON: Thank you, Your Honor. 10 MS. DIXON: Your Honor, just for the record, we have the same objections. 11 12 (Exhibit No. 1312 received in evidence.) 13 THE COURT: All right. Do plaintiffs have any 14 other witnesses? 15 MR. GOMEZ: No. At this time, subject to the 16 damage evidence that we discussed earlier, we would rest. 17 THE COURT: All right. So plaintiffs have rested 18 subject to a witness who will be called next week. Due to 19 his schedule, he's not available at this time. Is that 20 correct? 21 That is correct, Your Honor. MR. GOMEZ: 22 THE COURT: All right, then we will take our 23 morning break, and we will resume at 10:45 with the 24 defendants' case. 25 (Following proceedings held outside the presence

1 of the jury.) 2 THE COURT: We are in recess. 3 (Recess taken.) (Following proceedings held outside the presence 4 5 of the jury.) **THE COURT:** Housekeeping issues? 6 7 MR. MARGULIES: Yes, Your Honor, thank you. Our first witness will be Dr. Iris Bell. 8 9 Dr. Bell is a -- has diabetes, and she has an 10 issue with her monitor that she informs me will beep very loudly shortly after 11:00. She's not sure entirely when, 11 12 but it has to be recalibrated, and I don't want to really --13 I mean, obviously, it's going to beep, but I 14 don't know that it would be appropriate to have her do that 15 in front of the jury. So we're going to need maybe five 16 minutes to allow her to step out and do that. I don't 17 anticipate any other disruptions during the day, but she 18 informs me that's going to happen probably in about 20 19 minutes from now. 20 THE COURT: Oh, but she doesn't know exactly when. 21 Right. Right. Right. MR. MARGULIES: She said 22 apparently it somehow had to be restarted this morning and 23 about two hours after it will insist on being --24 So, it's one of those continuous monitors 25 that she needs to monitor her blood sugar and let her know if

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1 it's gotten too high or too low. 2 THE COURT: I see. Would you prefer to just wait until it beeps before we continue, or do you want to go ahead 3 4 and have her start and have the --5 MR. MARGULIES: How long will it take you to recalibrate? 6 7 THE COURT: Why don't we go off the record. (Discussion off the record.) 8 9 MR. MARGULIES: Your Honor, Dr. Bell thinks it 10 will take her five minutes or so to recalibrate. And I think 11 it would probably be better to just go ahead and start and 12 then just take a five-minute -- maybe excuse her for five 13 minutes and let her do that. 14 THE COURT: Okay. What I will do then is, I will 15 allow Dr. Bell to be excused to do that but keep the jurors 16 here. They can stretch. I don't want them to have to walk 17 back up and down the stairs just for five minutes. 18 MR. MARGULIES: Agreed, thank you. 19 THE COURT: All right. 20 MR. GOMEZ: We just have one more issue, Your 21 Honor. And, you know, when -- sometimes when they're sort of 22 prepping for the next witness, we can kind of see on the 23 screen what's coming. And so I anticipate there were some 24 labels from competitive products that were just admitted that 25 other plaintiffs had testified that they had used, I think

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1 with success. And so I would anticipate -- it appears that 2 Dr. Bell is going to testify about those labels. 3 Not true. Well, then I will sit my butt No? 4 I apologize. down. 5 MR. MARGULIES: I'm not as clever as you think I Did I miss something? 6 am. 7 MR. GOMEZ: I'll give you a tip. THE COURT: Don't give him any ideas. 8 9 I just realized that I need a new notepad so 10 I'm going to just recess briefly and be right back. 11 (Brief pause in the proceedings.) 12 (Following held in the presence of the jury.) 13 THE COURT: All right, Mr. Margulies, are you 14 prepared to call your first witness? 15 MR. MARGULIES: Yes, thank you, Your Honor. 16 The defense would call Iris Bell. 17 COURT CLERK: Do you swear or affirm that the 18 testimony you're about to give in the case now before this 19 Court will be the truth, the whole truth and nothing but the 20 truth, so help you God? 21 THE WITNESS: Yes, I do. 22 COURT CLERK: You may be seated. 23 Please state and spell your full name for the 24 record. 25 THE WITNESS: My name is Iris Roberta Bell. First

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1 name, I-R-I-S, last name, B, as in boy, E-L-L. 2 WITNESS, IRIS BELL, SWORN 3 DIRECT EXAMINATION 4 BY MR. MARGULIES: Good morning, Dr. Bell. 5 Ο. 6 Α. Good morning. 7 Q. Where have you come to us from today? Tucson, Arizona, originally. 8 Α. 9 Would you tell us a little bit about your education, Q. 10 please. Yeah, I actually grew up in the Boston area and 11 Α. attended Harvard University, received my bachelor's degree 12 13 magna cum laude from Harvard. 14 I then became interested in brain function 15 and physiology and proceeded to Stanford University for a 16 Ph.D. program, which I completed and received a Ph.D. in neuro and biobehavioral sciences. 17 18 All right. Ο. 19 At that point I -- I'm sorry. Α. 20 I just wanted to ask you what date, what year did you Ο. 21 get your bachelor's degree and what date did you get your 22 Ph.D.? 23 I believe it was 1972 that I got my bachelor's, and Α. 24 1977 when I received my Ph.D. 25 Okay. Thank you. And have you had any other 0.

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1	professional degrees since getting your Ph.D. in neuro and
2	biobehavioral sciences?
3	A. I became very interested during graduate school in
4	clinical research and was told that an MD would be helpful,
5	and so I applied to medical school and ended up still at
6	Stanford Medical School where I received my MD in 1980.
7	Q. Thank you. Did you complete an internship?
8	A. Yes. I then we went to the University of California
9	San Francisco where I completed an internship that involved
10	rotation between medical services, neurology, and psychiatry.
11	And then the next three years after that were a full
12	psychiatry residency. I believe I completed that in 1984.
13	Q. Thank you. Are you licensed as a physician?
14	A. Yes, I am.
15	Q. And what states in what states are you licensed?
16	A. I have active licenses in the State of Arizona and in
17	the State of California, and I have a license that is on
18	retirement type status in Massachusetts.
19	Q. And I'm sorry, your residency was in what field?
20	A. In psychiatry.
21	Q. Psychiatry. Have you practiced as a psychiatrist?
22	A. Yes, I have.
23	Q. We heard from another expert in this trial who is a
24	we've heard from a psychologist. Can you explain the
25	difference to the jury between a psychologist and a

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1 psychiatrist? 2 Well, a psychologist has often a four or more year Α. 3 program learning about purely psychology. A psychiatrist 4 completes a full course of medical school training; and in 5 order to be licensed, I am certified in various ways. You 6 then complete an internship, which always involves both 7 medical and psychiatric training. 8 And are you board certified in psychiatry? Ο. 9 Α. Yes, I am. 10 Q. What does it mean to be board certified in psychiatry? 11 It means I completed qualifying training and took both Α. 12 an oral and a written examination from the certifying body 13 for physicians who are neurologists and psychiatrists. 14 Thank you. Have you had any education and training in Q. 15 homeopathy? 16 Yes, I have. There have been more informal training Α. 17 periods in my homeopathy work. They began, I believe, in the 18 late 1970s in a study group in the San Francisco Bay Area. Ι continued an interest about homeopathy but did not pursue 19 20 further training until the late 1990s. 21 At that point I took a course to refresh my 22 knowledge of the basics of the field from the Desert 23 Institute of Homeopathy in Phoenix, Arizona, and that was 24 followed by a two-year program to receive a certificate as a 25 master clinician in homeopathy.

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1	In the course of that training I I
2	actually took again an oral and written examination in the
3	State of Arizona which offers medical licenses not only to
4	conventional doctors but also to individuals trained in
5	homeopathy.
6	Q. Thank you. I would like to talk have you talk a
7	little bit about your work as a psychiatrist.
8	Have you practiced as a psychiatrist?
9	A. Yes, I have.
10	Q. Can you describe for the jury
11	Did you start right out of your residency as
12	a psychiatrist?
13	A. Yes, I did.
14	Q. Tell us a little bit about what you did, where you
15	started and what you were doing, please.
16	A. Much of my work was in inpatient psychiatry. I also
17	had a part-time outpatient practice. And I was working on a
18	Senior Investigator's Research grant at the same time. This
19	is immediately after residency.
20	I typically served as a director or assistant
21	director of inpatient psychiatry, and it's in various
22	either general psychiatry or geriatric psychiatry for many
23	years after that.
24	Q. Before I forget, let me ask you to take a look in the
25	black binder in front of you. You should have an exhibit

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1 marked 1033, if you wouldn't mind taking a look at that. 2 Α. Okay. 3 Do you see that? Ο. 4 Yes, I do. Α. 5 Do you recognize it? Ο. 6 Α. Yes. 7 Q. What is it? 8 It is a copy of my curriculum vitae. Α. 9 And what is contained in the curriculum vitae? Q. 10 Α. A description of my education, my licensure, honors, 11 academic appointments, hospital appointments, professional 12 appointments, committee assignments, membership in 13 professional societies. It covers research interest, 14 teaching experience, responsibilities in clinical services, 15 research support, that -- that really translates into 16 research grants from various agencies. 17 And includes my experience as a reviewer, a 18 peer reviewer of multiple articles and a variety of medical 19 journals. And then a list of my own publications in peer 20 reviewed medical journals as well as other stuff, book 21 chapters and smaller books or monographs that I've written 22 on. 23 It concludes with a description of 24 presentations at professional conferences, research 25 conferences, where I was a speaker. First set of them

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1	describes ones I was invited to give often as a keynote
2	speaker, and the other set are competitive abstracts where
3	you submit an abstract of what you propose to discuss, and it
4	is either accepted or rejected. This is a list of my
5	accepted presentations through the course of my career.
6	Q. Okay. We'll come back and discuss some of these
7	things.
8	MR. MARGULIES: But at this point, Your Honor, but
9	we'd offer Exhibit 1033 into evidence.
10	THE COURT: It is admitted.
11	(Exhibit No. 1033 received in evidence.)
12	MR. MARGULIES: Thank you.
13	BY MR. MARGULIES:
14	Q. So, we were starting to discuss your work as a
15	psychiatrist, and you were describing working inpatient and
16	with a senior investigator. Where were you at the time?
17	A. At the time I was in the Bay Area. My practice was in
18	San Francisco proper. My research was based at the
19	University of California Berkley.
20	Q. And for how long did you hold this position?
21	A. I was in that area for three three years, I
22	believe, up until approximately 1990.
23	Q. Where did you go in 1990?
24	A. Oh, I'm sorry. In 19 I spent a three-year period
25	back in Boston after I completed my roughly three years of

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1	practice in the San Francisco area. So, I finished my
2	training in 1984 and practiced for several years, had an
3	opportunity to train further in geriatric psychiatry and
4	ended up becoming additionally certified in that field.
5	And during the time I was doing that
6	training, I was running an inpatient unit in geropsychiatry
7	back in the Boston area at McLean Hospital in the Harvard
8	Medical School, so
9	Q. What's geriatric psychiatry?
10	A. It is a subspecialty of the general field of
11	psychiatry in which the clinicians are specifically trained
12	to take care of older individuals who have unique in
13	psychiatry, often, unique psychiatric difficulties.
14	Q. Okay, thank you. So, you went back to Boston. And
15	what did you do after the three years in Boston?
16	A. At that point I was recruited as a tenure track
17	faculty member at the University of Arizona in the department
18	of psychiatry.
19	Q. So by the time you were recruited this was 1990?
20	A. Yes.
21	Q. Have you held academic positions between 1984, at the
22	end of your residency, until 1990?
23	A. Yes, I had some type of more junior instructor or
24	adjunct appointments at both the University of California San
25	Francisco after I completed my original training because I

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1	was still involved with teaching residents and medical
2	students.
3	And at Harvard, I was, I believe, an
4	instructor of psychiatry as my academic appointment. And I
5	became an assistant professor at the University of Arizona
6	College of Medicine.
7	Q. And who recruited you?
8	A. Dr. Allen Gallenberg. And he was the chairman of the
9	department of psychiatry.
10	Q. And what did what was how
11	What were you being recruited for?
12	A. At that point I was considered a very well-qualified
13	geriatric psychiatrist, and the University of Arizona was
14	interested in developing a program of both clinical
15	opportunity clinical care for older patients and
16	education.
17	Q. And did you for how long did you remain affiliated
18	with the University of Arizona as an academic?
19	A. Until I'm actually still affiliated with them. I'm
20	in a professor emeritus status. I, over the years, advanced
21	into receiving full tenure and professorship, and so, I
22	retired as a professor emeritus roughly in 19 I'm sorry,
23	in 2010.
24	Q. Okay. In your time in Arizona, did you did you see
25	patients as a psychiatrist?

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1	Α.	Oh, yes.
2	Q.	And did you engage in research at the same time?
3	Α.	Yes, I did.
4	Q.	We'll you talk a little bit about that. Have you
5		Do you have any relationship with the
6	Standa	rd Homeopathy Company?
7	A.	Yes, I do.
8	Q.	What's that relationship?
9	A.	I am serving as an external consultant to them with
10	regard	to research in the field of homeopathy and currently
11	also a	s the medical director who evaluates adverse event
12	report	s that consumers may call the company with.
13	Q.	Are you an employee of the company?
14	Α.	No, I'm not.
15	Q.	What relationship do you have, if you know?
16	Α.	I am a consultant who is contracted with them to
17	provid	e my services.
18	Q.	When did you first when when did this
19	relati	onship with Standard Homeopathic start?
20	Α.	To my recall, it was in roughly 2006.
21	Q.	How did that happen?
22	Α.	I attended many different professional conferences,
23	and as	I recall, after one of my talks about my research,
24	Dr. Bo	rneman, who was the CEO of the company, approached me
25	about	serving in the capacity I just described.

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1	Q. Okay, thank you. I'd like to talk a little bit about
2	the research that you've done over the years.
3	Have you obtained grants from the government
4	or from entities to do research during the course of your
5	career?
6	A. Yes. I've received a substantial number of private
7	foundation grants, which is how you begin research, and then
8	I received a series of grants from the National Institutes of
9	Health.
10	And I during the time that I was also
11	simultaneously serving as a geriatric psychiatrist for the
12	academically affiliated Tucson Veteran's Affairs Medical
13	Center. I received at least two grants from them. One of
14	them was a career a type of career development grant, a
15	study called Four Syndrome.
16	Q. Okay. Talk to the jury a little bit, if you wouldn't
17	mind, about how grants work. How does how does a
18	researcher go about getting a grant from the government or
19	from a private entity?
20	A. The first thing one has to do is establish a track
21	record of research in the particular topic that's on your
22	study to and that involves getting pilot data or
23	preliminary data of some sort, sometimes from very small
24	grants from the government, sometimes from private
25	foundations.

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1 You then write a grant following the 2 particular directions of the agency. There is certain 3 standardized structures, but they're quite comprehensive. 4 They include not only the qualifications of every member of the research team but also a description of precisely what 5 6 you propose to do, how you propose to analyze it, and what 7 you'll do if the grants -- if the data take you in a 8 different direction. 9 You then apply. There is a peer review 10 process. And during that process, at least in the government 11 and at NIH, I've been on those kinds of committees as well, 12 there are roughly 25 people in a room, whoever reviewed your 13 grant, and who make their recommendations. 14 It's not uncommon for the first attempt at 15 getting funded to be rejected. You get the reviewer 16 feedback, you revise your proposal, and you try again. What happens if you get the grant approved? 17 Ο. What --18 Is there money approved? What happens to you 19 as a researcher? Your grant is approved, now what? 20 At that point the institution where you're based Α. receives the actual grant funding from the funding agency, 21 22 and it is administered financially, if you will, with the 23 accounting and so on through the institution itself, whatever university you're at. 24 25 The grant itself, you then proceed to hire

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1	the staff to implement the project and whatever you propose
2	to do over the period of time you said you were going to do
3	it in.
4	Q. And and what you propose to do, is that typically
5	research?
6	A. Oh, yes. Well, I'm sorry. Generally, it is for a
7	research grant. There are other grants for conferences which
8	I've also been a coinvestigator on.
9	Q. Would you talk to us a little bit about the types of
10	grants that you've received over your career as a researcher?
11	A. I've received I'm sorry. Are you asking about
12	topics or
13	Q. Yes, let's talk about the topics that you received.
14	Let's start there.
15	A. Some of my earlier work when I was at McLean Hospital
16	and just starting in geriatrics, I became very interested in
17	nutritional factors that might contribute to depression and
18	dementia in older patients. And I took advantage, again,
19	when you're writing a grant or when you're looking into a new
20	area of reading the literature and discovering, there were
21	some hints in the literature that B vitamins were important.
22	And so some of my initial work and a number
23	of my earlier papers after I completed all my training were
24	around that type of topic, and that was the area that I was
25	actually working in at the time I was recruited to the

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1 University of Arizona. 2 Subsequent to that, I proceeded to do a 3 variety of studies, continued with some of my dietary 4 interests, some on personality type and health. I was working with a number of psychologists in the health 5 psychology program at the University of Arizona. 6 7 And then I studied a number of years working 8 in the field of environmental health in which I competed for 9 and received a series of small foundation grants and 10 one somewhat -- well, significantly larger Veteran's Affairs 11 Center grant. 12 As -- as my career evolved and as my 13 interests evolved, I eventually ended up working more 14 generally in the area of complementary and alternative 15 medicine. 16 I received a grant to train more junior 17 researchers, postdoctoral and pre-doctoral fellows, in 18 research on complementary/alternative medicine, at which 19 point I worked with a large number of faculty who had 20 different kinds of expertise to help with that training. And 21 I also received a career development grant. 22 In the context of all of that work, I 23 received a series of research grants from the National 24 Institutes of Health, specifically on the topic of 25 homeopathy, based in part on some of my prior research using

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1	electroencephalography, which is EEG or brain waves, and
2	brain waves are really an objective measure of what's going
3	on. They don't allow you to read anybody's thoughts, but
4	they do allow you to see the level of attention, alertness,
5	and function going on in the brain.
6	Q. Have have any of the grants or the types of grants
7	that you've been discussing dealt with you studying the
8	effects of medication in human beings?
9	A. I did not receive those specifically. Some of my
10	colleagues did, and I have served as an investigator or
11	coinvestigator on some of those projects, especially early in
12	my career.
13	I also collaborated with a researcher who had
14	an animal model of stress from noise where she was looking at
15	various kinds of alternative therapies and whether it would
16	help alleviate the physical damage that the stress caused in
17	the animals.
18	Q. How many publications have you authored that are
19	published or how many articles have you authored that are
20	published in peer reviewed scientific journals?
21	A. I believe my most recent count of that was around 146
22	articles.
23	Q. Okay. And have you also published book chapters as
24	well?
25	A. Yes, I have, I believe close to 30 of those and a

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1 couple of monographs. 2 Have you served -- I think you mentioned you've served Ο. as a peer reviewer for journals? 3 4 Α. Oh, yes. And what do you -- what do you do as a peer reviewer? 5 Q. It's -- peer review can be either blinded or unblinded 6 Α. 7 in that you may or may not know the author's name, and they may or may not know the name of the reviewers. 8 9 The editor of the journal selects the 10 reviewers when they receive the paper, the manuscript that's 11 been submitted; and then the reviewers, and it's typically at 12 least two, often three, sometimes five, we each write our 13 systematic evaluation of what the study was -- was about, how 14 well it was implemented, how well it was presented, 15 recommendations for revisions and improvements, and when we 16 give -- you typically give the editor recommendations to 17 whether we believe it should be published or not. 18 And your -- in the course of doing research yourself, Ο. 19 you've performed randomized clinical trials; is that correct? 20 Yes, I have. Α. And in the course of serving as a peer reviewer, have 21 0. 22 you peer reviewed other researchers' randomized clinical 23 trials? 24 Yes, I have. Α. 25 Can you tell us some of the journals for which you Ο.

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1 have acted as a peer reviewer, please? 2 I'd like to refer, because it's a fairly extensive Α. list, to my curriculum vitae. If I can --3 4 If I could maybe turn your attention to page 13. Ο. Is that it? 5 I have reviewed for the American Journal of 6 Α. Yes. 7 Clinical Nutrition, the American Journal of Medicine, the 8 American Journal of Psychiatry, Health Psychology, several 9 different alternative medicine journals, including the 10 Journal of Alternative and Complementary Medicine, the 11 Journal of the American of Institute of Homeopathy, the 12 Journal -- the Journal of Homeopathy itself. 13 There is a German journal, a respected one in 14 complementary medicine that we refer to as Forschende 15 Komplementärmedizin. I'm sorry, I don't know German, and ^ 16 Classich Natricile clinic. I can provide you that specific 17 item. 18 Public Library of Science One, which is a 19 general research journal in the field of medicine and 20 science, Psychological Bulletin, Psychosomatic Medicine, 21 Psychiatry Research and so on. 22 Okay. Thank you. Ο. 23 At some point you began researching complementary medicine in homeopathy? 24 25 Yes, I did. Α.

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1 Q. What got you interested in that? 2 Well, as I mentioned, I was originally studying Α. nutrition, and other things in that field, began in other 3 4 areas of research, and it's been an evolving process. I've learned about psychophysiology and biofeedback research that 5 I did as -- for an honor's thesis at Harvard as an 6 7 undergraduate, moved in to nutrition, and began to learn even 8 more about how to apply psychophysiology techniques in the 9 study of sleep disorders and eating. 10 Ο. Maybe you can help -- what's psychophysiology? It is a subspecialty in the field of health 11 Α. 12 psychology. 13 THE WITNESS: Excuse me, I believe my --14 THE COURT: Oh, okay. We're going to take a short 15 break so that Dr. Bell can take care of this beeper that she 16 has. 17 Dr. Bell, perhaps you can step out into the 18 hallway to do that, and I'll just have the jurors here stand 19 and stretch or whatever for the few minutes that she needs to 20 adjust her beeper. 21 MR. MARGULIES: Thank you, Your Honor. 22 (Brief pause.) 23 THE COURT: All right, we are back in session. BY MR. MARGULIES: 24 25 Okay. Dr. Bell, I think you were in the middle Ο.

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1 of explaining. I'd asked you what pathophysiology meant. 2 Actually, psychophysiology. Α. Psychophysiology, pardon me. 3 Ο. 4 It is a field of health psychology, behavioral Α. 5 medicine, where researchers tend to use physiologic -objective physiological measures to monitor the functioning 6 7 of the human body. Can you give us an example? What's an objective 8 Ο. physiological measure? 9 10 Α. Well, something like brain waves, sometimes heart rate or heart rate variability, sweating of the palms, muscles 11 12 tension, things like that. 13 So you were explaining why you first started becoming Ο. 14 interested in doing research in alternative medicine and 15 homeopathy before I interrupted you to ask you to explain 16 that term. So if you wouldn't mind continuing with your answer. 17 18 So, basically, what I did was develop certain tools as Α. 19 a researcher that were very focused on measuring physiology 20 as it happened, during the time things were going on with an 21 individual. 22 Then I became interested partly through my 23 research in nutrition and diet in various problems where sensitivity to foods and chemicals might be an issue. That 24 25 is part of the broad area of environmental health I was

1 describing.

2	And in the course of my work there, I ended
3	up discovering literature, colleagues' and my own work, in
4	which I discovered actually, several of us discovered that
5	low levels of environmental chemicals that were not even
6	consciously detectible could change brainwave function when
7	they were sniffed by certain individuals, and that would be
8	different than if you just gave them a placebo to to
9	sniff. So those were my techniques at that time.
10	And when I got when I when I got
11	interested in homeopathy, I was very deeply immersed in what
12	was going on in clinical care and research in the area of
13	this type of person who had food and chemical sensitivities.
14	I knew that many of the allergists who took care of these
15	types of patients use standard allergens in very low doses.
16	They would either they would test and
17	treat the patient with a technique in which they would dilute
18	standard antigens or allergens that they received from a
19	manufacturer who made that type of material for allergy
20	shots.
21	But rather than just give a shot in the
22	material, they would give very small amounts in actually
23	progressive dilutions where they would find that they could
24	either provoke symptoms or relieve symptoms with different
25	dilutions. So I was aware of that.

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1	And when I was in my first year of medical	
2	school at Stanford, having never heard of homeopathy, I was	
3	invited to attend a lecture by a graduate of Stanford Medical	
4	School who had, himself, made a journey professionally trying	
5	to find additional and better ways of treating his patients.	
6	He had discovered homeopathy, had started some training in	
7	Greece where there was a leading worldwide expert in the	
8	field, and he happened to be coming to Stanford to give a	
9	talk on this.	
10	As I heard that talk, I realized that while	
11	it was not at all identical, that there was some overlap in	
12	the testing procedure that I was familiar with that I had	
13	seen affect patients in allergists' offices and the way	
14	homeopathy was described to me.	
15	So at that point I became very interested and	
16	began to study it because it sounded like a more powerful way	
17	to use that basic approach of lordosis to actually help	
18	people.	
19	Q. Let me talk about the tool you were talking about.	
20	You said you were using EEGs to measure exposure to low	
21	levels of chemicals; is that right?	
22	A. Yes.	
23	Q. Were you actually doing clinical trials of this using	
24	this method?	
25	A. Yes, I was. In one sense, yes.	

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1	Q. Can you describe how you would how you would go
2	about testing exposure to a low level of a chemical and using
3	EEG to measure it? What did you actually do?
4	A. Well, as an example, in the study that we had funded
5	by the Veteran's Affairs Department, we had veterans who
6	reported having become ill during Gulf War I, people who said
7	they had been in the same service but not. So you pick the
8	patient by: Yes, I'm ill. Yes, you know, I want a
9	standardized validated questionnaire. Yes, I have chemical
10	sensitivity or not.
11	So there were people who were sick, there
12	were half of them were people who had reported illness
13	from acquired reported illness from chemicals, some not.
14	We would connect them to a piece of equipment that could
15	measure brainwaves, along with other things, including their
16	attention function and and other heart rate variability,
17	and monitored that when we asked them to sniff very, very low
18	doses of diesel fuel. In that in that particular scenario
19	it was jet fuel, because it was a very common agent that the
20	military used and that the military members were exposed to.
21	We gave it in such low dose that when we
22	asked them to guess what was in there versus the bags of
23	material where it wasn't actual diesel fuel present, they
24	were not able to reliably identify which was which. So, we
25	had a placebo, and we had a verum. We did this kind of

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1	procedures in civilians, and we did it with Gulf War
2	veterans, and we observed what happened with the brainwaves
3	when they were sniffing these materials.
4	Q. Did did did your study show a difference between
5	the folks who sniffed the chemical and those who sniffed the
6	placebo?
7	A. They did. It depended partly on who received it. So
8	if someone had identified as chemically sensitive, they were
9	much more likely to show certain patterns of responses in the
10	brainwaves.
11	Q. When did you undertake this research?
12	A. Over a period of a number of years. I'd have to refer
13	to my CV to tell you exactly.
14	Q. If you can even give us an approximate date, that
15	would be fine.
16	A. Probably in the 2000s.
17	Q. Was there anything in your personal life that caused
18	you to look to homeopathy as a potential research interest?
19	A. Yes, I as I said, I was aware of homeopathy, and
20	in I believe it was 1995, I developed type 1 diabetes,
21	juvenile diabetes as an adult, and was very shocked and
22	surprised by that and when in a personal exploration of
23	options I had within the alternative community as well as
24	trying to find the best possible care from conventional
25	medicine.

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1	And at that time I revisited homeopathy and
2	began a course of treatment. I have continued that kind of
3	treatment through the present day.
4	Q. When did you first start doing research as a
5	researcher in the area of homeopathy?
6	A. It was probably in the late 1990s, early 2000s.
7	Q. And at the time you started this research, did you
8	reach a conclusion about whether the principles of
9	homeopathy, as you understood them, were consistent or
10	inconsistent with basic scientific principles?
11	A. Well, I understood what the controversy was in the
12	field. I reached an understanding that the medicines were
13	very dilute, but they were also prepared in a very unique
14	manner.
15	And I was especially interested at that point
16	since I had personal experience and had seen other people
17	experience changes after taking remedies of homeopathic
18	medicines. I was very curious about whether I could find
19	objective ways of discovering that or documenting changes
20	that we would be able to show compared with placebo.
21	And during that time, I well, I then
22	proceeded into getting research grants from NIH to actually
23	pursue that kind of direction.
24	Q. You said you understood the controversy, what the
25	controversy was in the field. Can you explain what you meant

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1 by that? 2 The controversy was around dose with the assumptions Α. that because of the reported serial dilution of the original 3 4 materials, the amount of the source material would 5 progressively decrease over the course of each serial 6 dilution step. 7 And I was very interested in, at that point, 8 the human body, partly because of my physiology work, in its 9 organization as a complex system where basically everything 10 is connected to everything else. And if something changes in 11 one part, things will change to adjust to those changes in 12 other parts of the body. 13 Did you -- have you -- have you conducted any clinical Ο. 14 research, clinical trial research on homeopathy? 15 Α. Yes. 16 Can you describe how many -- why don't you describe Ο. 17 what --18 What research have you conducted on 19 homeopathy medications? 20 I -- I've been funded to do several different Α. psychophysiology studies mainly relying on brainwaves. 21 We 22 also had other funding to interview patients who had been 23 very successful in their treatment of a chronic disease. 24 That was a different type of methodology. 25 In my more clinical placebo controlled

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1	studies, I studied patients who had the condition of	
2	fibromyalgia, which is a chronic pain condition. It's very	
3	debilitating for people who suffer from it. And at the time	
4	I started that work, there were no conventional medications	
5	available.	
6	Q. Let's talk about that particular research. Was that	
7	done on a grant, the fibromyalgia research?	
8	A. Yes, it was. I competed for and received a research	
9	grant from the National Institutes of Health.	
10	Q. Was there a particular part of the NIH that this grant	
11	came from?	
12	A. At that time it would have been called the National	
13	Center For Complementary and Alternative Medicine.	
14	Q. Does it have a different name now?	
15	A. Yes, it does.	
16	Q. Do you know what that name is now?	
17	A. I think it's the National Center for Complementary and	
18	Integrated Medicine.	
19	Q. Okay. And can you describe what what it was you	
20	studied in patients with fibromyalgia? What what what	
21	was your research method?	
22	A. There were multiple aspects to it. We did a formal	
23	clinical trial with individualized homeopathy. We had two	
24	homeopaths interview each of the people after they had been	
25	screened for inclusion and exclusion criteria. And those	

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1 homeopaths would see the patient, come to a joint agreement 2 as to what the homeopathic medicine would be that they would 3 prescribe in regular practice. 4 And at that point they would fax that 5 information to the homeopathic pharmacy who would make a custom homeopathic medicine or package up a placebo that was 6 7 indistinguishable and ship it directly to the patient. 8 So the patient would receive a number of 9 bottles for their subject number, and the homeopath would 10 know what they meant to give the patient, but they did not 11 know if they were receiving placebo or the actual medicine, 12 which would be called a verum. 13 So -- so this was --Ο. 14 Were the patients randomized? 15 Yes, it was randomized, it was double blind, and Α. 16 placebo controlled. There was a placebo group. Now, that was the core part of the clinical 17 18 trial itself, and we had several different outcome measures. 19 One --20 The primary one was an actual physical 21 examination by a physician who was a rheumatologist 22 specializing in examination of patients with joint and muscle 23 problems, and that individual would do a standardized 24 physical examination, pushing on certain identified points on 25 the body and rating the pain response of the individual when

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they did so. 1 2 So it's a standard clinical evaluation in someone whose suspected of having a diagnosis in conventional 3 4 medicine of fibromyalgia. And that individual had no contact 5 with the rest of the study. We also had the patients who were enrolled in 6 7 the study fill out questionnaires that were validated on their pain, rating their pain experience and their mood, and 8 9 some of those other types of outcomes. 10 Excuse me. THE WITNESS: This one won't continue to beep, 11 12 Your Honor. 13 MR. MARGULIES: Everything okay? 14 THE WITNESS: Yes. 15 And they -- they filled out those particular questionnaires in addition to that physical exam. 16 17 During the course of the study, at baseline, 18 before they had started to take the medicine orally, we had 19 one laboratory session at the University of Arizona where 20 they were hooked up for a brainwave measurement, and we had 21 them sniff bottles that were prepared, again, randomized, 22 double blind, the staff doing this study, actually collecting 23 the data, did not know what was in those bottles. They were 24 both placebo bottles and the treatment medicine. So the 25 placebo group was getting placebo on placebo in a randomized

1 order.

Ŧ	Oldel.
2	The treatment group that was receiving the
3	real medicine, the verum, that group was getting the verum,
4	their own natural dose of medicine at the time, and placebo.
5	Those are all randomized bottles, quite a few of them. We
6	averaged a response of the brainwaves. So we had a
7	comparison, really, controlling for just sniffing something
8	because that might change brainwaves by itself. So every
9	patient had that experience with a placebo exposure.
10	And then we had the two groups, the people
11	getting the real medicine, so to speak, and the verum I'm
12	sorry, and the placebo; and we compared their brainwave
13	responses in the laboratory session. We did data baseline.
14	That was the very first time they'd ever actually been
15	treated in any manner with that particular medicine, and it
16	was an individually chosen homeopathic medicine.
17	And then we repeated that same procedure with
18	them at the three-month point and the six-month point in the
19	study.
20	BY MR. MARGULIES:
21	Q. And what did you find when you repeated the
22	procedures?
23	A. We found that not only was there the sort of very
24	short-term overing response of the brain as shown by the
25	brainwaves when they actually made a sniff. But when we

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1	averaged what was going on with the frequency of the
2	brainwaves, if you will, there is a certain frequency of
3	brainwaves called alpha waves that are sometimes associated
4	in the popular media with meditation and so on, and in which
5	a slowing of thinking in brain, just a relaxation. It often
6	precedes going into a sleep state, although it's not part
7	directly in the sleep state necessarily.
8	And we found that the magnitude of that alpha
9	wave response increased over time in the people receiving the
10	verum, but it decreased in the people receiving the placebo.
11	Q. What conclusions did you draw
12	Well, before I ask you that, was this method
13	that you used comparing brainwaves generally accepted as a
14	method for studying exposure or was it generally accepted
15	as a method, I'm sorry, for measuring psychophysiological
16	activity?
17	A. Yes. At that particular point in time there had been
18	several investigators who had done that type of work.
19	Q. And what what ultimately did you conclude based on
20	the observations in the EEG portion of the study?
21	A. Well, we have found what would be called a
22	sensitization response, and that's just a big term for
23	amplification. So the dose was actually decreasing over the
24	course of treatment. By the time they got to the three-month
25	point and for the people that ended up staying with the verum

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1 treatment for six months, they were on an increasingly more 2 dilute form of the homeopathic medicine, but it had been 3 succussed many, many times. And by succession, I mean 4 The patients actually did that themselves at home agitation. 5 every day when they took the medicine. And over the course of time, those -- those 6 7 kinds of changes were documented. 8 And -- I'm sorry, what was --9 Ο. Was there a -- was there a statistically significant 10 difference between the folks who were getting the homeopathic 11 medication and the folks who were getting the placebo? 12 Α. Yes. Both in the clinical examination by the 13 rheumatologist with the ratings that doctor provided, in some 14 of the subjective ratings on pain, and in particular, the 15 brainwaves did change over time. 16 And as I said, the verum group increased in 17 their EEG response at the time they were in the lab, and the 18 placebo group decreased in that response. 19 Ο. Did you at some point change who was getting exposed 20 to what the drug or versus the placebo? 21 Α. Yes. 22 What happened there? Ο. 23 We did a procedure that was recommended by some of the Α. 24 skeptics of complementary medicine, actually, where they 25 wanted to see if people could vote with their feet and

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evaluate for themselves how they felt they were doing in the 1 2 treatment. They could decide to either stay with what they 3 have been blindly randomized to or they can switch. 4 And so a certain subset of people in the 5 verum group and a certain subset of people in the placebo group made the decision to switch to the opposite assignment. 6 7 Ο. And what happened with their EEGs after they did that? Their EEGs turned around and basically started to 8 Α. 9 follow what the original placebo or verum group had been 10 doing. So if they went to the placebo, the magnitude of 11 their response went further down. If they stayed on the 12 placebo, it continued down. 13 If they were on the verum and made the 14 switch, it went down. If they had been on the placebo and 15 switched to the verum, the actual medicine, it started to go 16 up. 17 Ο. You've used the word "verum" a few times. 18 Α. Yes. 19 You mean the medicine, is that --Ο. 20 The actual medicine, yes. Α. That's a technical term you use? 21 Q. 22 That's a technical term for the -- the true medicine. Α. 23 Showing you Exhibit 1033, page 19. I've circled Q. 24 reference 87, is that reference -- a reference to a 25 publication that arose from this particular study that you're

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1	describing today?	
2	A. Yes.	
3	Q. All right. And what which which publication was	
4	that, if you could?	
5	A. That was the primary clinical outcome reports peer	
6	reviewed in the Journal Rheumatology which we published	
7	describing the the clinical outcomes of the patient.	
8	Q. This is where the rheumatologist was actually	
9	observing the patient?	
10	A. Yes, actually observing, evaluating clinically what	
11	was going on.	
12	Q. Thank you. And then showing you on page 20, and I've	
13	circled reference 90, does this reference also pertain to	
14	this research that you were doing?	
15	A. Yes, it does.	
16	Q. And which publication is this?	
17	A. This is a paper we published in the peer review	
18	journal, International Journal of Neuroscience, and it	
19	describes the findings that I just outlined for you with	
20	brainwave or EEG, alpha sensitization or amplification that	
21	occurred over time in the people with the fibromyalgia	
22	problem.	
23	Q. Did you report back to the National Center For	
24	Complementary and Alternative Medicine the results of	
25	these of this placebo controlled trial?	

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1	Α.	Yes.
2	Q.	And was that because you had a grant from them and you
3	had to	?
4	Α.	Yes.
5	Q.	Okay. Have you done any further studies of EEGs and
6	homeop	athic medications?
7	Α.	Yes, I have.
8	Q.	Okay. Can you describe the next one you did for us?
9	Α.	There were two that ended up being done and funded
10	with s	ome degree of overlap. The one that I applied for to
11	follow	up on the finding with fibromyalgia patients was a
12	study	where I proposed to screen people using a validated
13	questi	onnaire for what would be called homeopathic
14	consti	tutional type.
15	Q.	Let's stop before you get too far with that. What do
16	you me	an by a "validated questionnaire"?
17	Α.	It is a questionnaire that has been previously tested
18	before	you use it in the course of any kind of research
19	projec	t. It's tested to determine if it actually measures
20	what i	t hopes to measure.
21	Q.	Okay. And what's a was it homeopathic
22	consti	tutional type? Did I get that right?
23	Α.	Yes.
24	Q.	Okay. What is a homeopathic constitutional type?
25	Α.	In the field of homeopathy there is a belief that

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1	particularly from a chronic point of view, that we, as very
2	unique individuals, will have a certain pattern of mental,
3	emotional and physical symptomatology and factors that
4	contribute to our condition.
5	And in homeopathy the attempt of a
6	homeopathic practice is to do a specialized kind of
7	interview, they call case taking, where they will evaluate
8	that type of information and attempt to find the pattern that
9	that patient expresses so that they can then match it to the
10	pattern of information that is documented in the materia
11	medica describing homeopathic medicines individually.
12	Q. Okay. So you have a validated questionnaire on
13	homeopathic constitutional types?
14	A. Yes.
15	Q. What did you do with that?
16	A. We screened a very large number, mainly of college
17	students, and identified people who had scored high on two
18	particular types of constitutional types, knowing that these
19	were not sick individuals, they were healthy young adults,
20	basically. I think their average age was 19. But we
21	screened them in that way and brought in people who either
22	fit the criteria and didn't have high scores for the other
23	remedies, fit the criteria for pulsatilla, which is a
24	homeopathic medicine, or I believe sulfur in that study,
25	another very common homeopathic medicine, and we brought

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1	those individuals into the laboratory and under double blind
2	placebo controlled conditions exposed them to the sniffs of
3	the remedy and placebo.
4	Q. Explain to me how it worked. So you you had a
5	group of of study subjects?
6	A. Yes.
7	Q. And some of them would be assigned to sniff a remedy,
8	and some of them would be assigned to sniff nothing; is that
9	right?
10	A. Essentially, yes.
11	Q. All right. And you were what were you measuring
12	again?
13	A. We were measuring the brainwave response.
14	Q. Okay. And what were the results of that particular
15	study?
16	A. In that study we, again, found evidence that the
17	not only that the remedy effects were different more from the
18	placebo, but that the the there was an influence from
19	session to session. So we had, I believe, three weekly
20	sessions that the people were evaluated in. And depending in
21	part on which homeopathic potency, which is the way
22	homeopathic medicines are dosed, they if they had had a
23	prior exposure that might influence the size of the response
24	that gave us in the brainwaves the next time they countered
25	it. If they hadn't had that type of exposure, it would look

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1	a little bit different.
2	Q. Was there a statistically significant difference in
3	the EEG response of the folks who were exposed to the remedy
4	and the folks who were not exposed to the remedy?
5	A. Essentially, yes.
6	Q. And was this study also published?
7	A. Yes, it was.
8	Q. And I'm going to show you page 22 of Exhibit 1033,
9	reference 121. Is that the publication of this study?
10	A. Yes, that is one of those papers that was published in
11	that on that topic.
12	Q. And that was published in which journal?
13	A. The Journal of Homeopathy.
14	Q. What is the Journal of Homeopathy?
15	A. It is, to my understanding, the official publication
16	of the faculty of homeopathy in the United Kingdom.
17	Q. Is it a peer reviewed journal?
18	A. Oh, yes, it's a peer reviewed journal.
19	Q. Have you done any further studies on exposure to
20	homeopathic ingredients, further clinical randomized
21	clinical trials?
22	A. I was also very interested in the effects of certain
23	homeopathic remedies on sleep or medicines on sleep and
24	applied for and eventually received a grant from the National
25	Institutes of Health to look at that type of phenomenon.

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So we, again, in this study were screening individuals for their constitutional type or at least the tendency to have more symptoms that might suggest to us that a particular homeopathic medicine might help them, because in this study they weren't being evaluated by a professional homeopath.

We screen people for general health, and we -- actually, after they met our inclusion and exclusion criteria, they actually slept at home over a period of several weeks.

We had baseline sleep recordings so they could get adjusted to sleeping with all the equipment attached to them, which is a standard procedure in sleep research, and then we also had a placebo session where we recorded what their sleep pattern looked like after they had acclimated to the procedures. We then --

Q. I'm sorry. What exactly are you recording when thesepeople are hooked up and trying to sleep?

19 Α. Their actual brainwaves and the muscle tone in their 20 jaw, among other things, and the muscles tone and activity 21 near the eyes. During sleep, there's a stage of sleep called 22 REM sleep, or rapid eye movement sleep, and we're able to 23 objectively detect when that occurs and quantify it as we can 24 on their sleep stages by the brainwave patterns that you see. 25 And were the subjects in this study randomly assigned Ο.

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1	to a treatment group and a placebo group?
2	A. They were everyone had a placebo. They were
3	randomly assigned to receive one of two homeopathic medicines
4	that are reported in the homeopathic materia medica to be
5	associated with a history of insomnia from caffeine, or from
6	coffee, if you will.
7	And so we chose one medicine to be Coffea
8	Cruda, which is homeopathically prepared coffee, and the
9	other medicine, I believe, was Nux Vomica, which is a plant
10	based common medicine used in homeopathy.
11	Q. So was the placebo actually their own sleep pattern
12	A. Yeah, they they they had received placebo
13	pellets during the time they had the sleep recording on
14	placebo. Yes.
15	Q. Okay. So to just make sure I understand, you enrolled
16	the patients, they were given pellets that were really
17	placebos?
18	A. Yes.
19	Q. You measured their response?
20	A. In sleep, during sleep.
21	Q. During sleep. And then you started giving them the
22	real thing and continued to measure their their sleep?
23	A. Yes. We actually repeated their baseline in case it
24	had been changed by the experience of being in the study. So
25	we repeated two different baseline periods. One preceded

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1	placebo, the other preceded the random assignment to one of
2	the two medicines.
3	Q. And what were the results of this particular study?
4	A. Again, this was a single dose of a particular
5	homeopathic potency. In that study we observed that the
6	the individuals who received the different individual verum
7	medicines actually slept more. They're particularly in their
8	what's called slow rate sleep, their nonrapid eye movement
9	sleep, but they actually slept more.
10	Q. Was there a statistically significant difference
11	between the placebo findings and the the homeopathic
12	exposure findings?
13	A. Yes.
14	Q. Was this study published in the scientific literature?
15	A. Yes, it was.
16	Q. And, again, showing you page 22 of Exhibit 133, is
17	reference 119 the publication of this particular study?
18	A. Yes. That was published in the Journal Sleep Medicine
19	in 2011.
20	Q. What's the Journal Sleep Medicine?
21	A. It's a highly respected peer reviewed journal for
22	researchers working in the area of sleep.
23	Q. And I think you mentioned this was an NIH grant as
24	well?
25	A. Yes, it was.

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1	
1	Q. Have you gotten any more recent grants from the NIH to
2	study homeopathic medications?
3	A. I don't believe I have.
4	Q. Have they talked to you about the issue of applying
5	for more grants for doing these types of placebo controlled
6	trials?
7	A. Yes.
8	Q. And what have they told you?
9	A. They told me that because of the nature of the
10	homeopathic debate in the field, they were not willing to
11	consider even if you went through peer review, in their
12	priorities, they were not willing to fund another study that
13	was clinically oriented.
14	Q. Did they tell you that they needed anything before
15	they consider that?
16	A. Yes. They said they wanted me to be able to provide
17	information about the mechanism of homeopathy.
18	Q. And have you taken them up on that challenge?
19	A. Yes, I have.
20	Q. Okay. Why don't you talk about where you turned your
21	research to in the last couple of years regarding homeopathy?
22	A. Over several different iterations I read the
23	literature on what was known about homeopathic medicines
24	outside of the clinical literature in addition to what I was
25	monitoring in the clinical literature. And we I

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1	collaborated at first with a material scientist, a very
2	respected senior professor at Pennsylvania State University,
3	looking at trying to determine what types of a certain
4	physical chemistry measuring might be able to determine what
5	was a verum, or a real so-called homeopathic medicine, versus
6	a placebo.
7	And then I was again observing the literature
8	where there were quite a few other findings that still
9	required explanation.
10	Q. But why were you interested in looking at a way to
11	determine from observation what was a medication versus a
12	placebo?
13	A. Well, that's a very fundamental aspect that NIH
14	wanted. They had certainly moved in that direction for
15	research on herbs. They wanted the investigator to be able
16	to do tests to demonstrate that when they said they were
17	giving a verum, they were really giving a verum. And they
18	they had the same excuse me, the same approach that they
19	wanted to apply in homeopathy.
20	Q. Did your collaboration with the material science
21	expert result in any studies being done?
22	A. Yes, it did.
23	Q. And are those reflected in your in your CV?
24	A. Yes, they are.
25	Q. What were the results of that particular

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1 collaboration? 2 We discovered that there were certain types of Α. spectroscopy which included something called Raman 3 4 Spectroscopy and something else. I believe, I think it was ultraviolet visible spectroscopy. And these are techniques 5 that -- that he was the expert in, but they're different ways 6 7 of reflecting light off materials that are in a sample and 8 then quantifying what that tells you. 9 Ο. So when you use the word --10 Did you just define the word you were using 11 which was "spectroscopy"? 12 Α. Yes, I did. 13 Okay. So you're using the light bouncing off or Ο. 14 through a sample and trying to figure out what's inside of 15 that? 16 Yes. What's absorbed, what's reflected, and so on. Α. 17 Ο. Is that -- is that something that you -- that you're 18 not an expert in, that you -- you -- you relied on him to 19 take to determine that that was appropriate? 20 Α. Right. 21 Q. Okay. And in the course of that work, which was all done in 22 Α. 23 his laboratory, my role was basically to identify a 24 homeopathic pharmacy to send the test materials to his 25 laboratory at Penn State, and -- I'm sorry.

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1 Ο. That's okay. What -- what --2 Where did you turn to next after doing that 3 particular collaboration? During that collaboration, he said to me that he was 4 Α. very interested in the aspect of succussions, and actually, 5 we published a separate paper describing, at that time, our 6 7 understanding of the literature and the possibility that the 8 succussion process was so strong that it would actually 9 produce something called nanobubbles, and that those might be 10 playing a role in the formation of the homeopathic medicine. 11 What would be --Ο. 12 Can you describe what a nanobubble would be 13 in a succussion process? 14 Well, as -- as anyone would know, if you shake a Α. 15 bottle of any liquid, you would get bubbles of different 16 sizes. Nanobubbles are very, very, very small. They are in 17 the same range as actual particles, and they might measure 18 anywhere from one to perhaps a hundred or more nanometers, 19 which is a particular measurement of very small materials. 20 I think we heard yesterday it's a billionth of a Q. 21 meter; is that right? 22 Yes, it's a billionth. Α. 23 Smaller than a human cell? Q. 24 Oh, yes, much smaller. Α. And did that nanobubble theory lead anywhere? 25 Ο.

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1 Α. It did both in our laboratory and in other 2 laboratories more recently in homeopathic research. It turns out, according to the experts in that topic, including the 3 4 material scientists I was working with, that when nanobubbles 5 pop, they actually cause very strong pressure, atmospheric pressure kinds of increases and temperature increases locally 6 7 around themselves. So it's very small, but it is -- it causes a natural physical change in the solution. 8 9 Did you -- at some point did you begin to think that Q. 10 nanoparticles as opposed to nanobubbles might play a role in 11 how homeopathic medicines work? 12 Well, that's when I knew the word "nano." And I was Α. 13 again following the literature. And in the Journal of 14 Homeopathy in the year 2010, there was a paper published by 15 investigators at the Indian Institute of Technology 16 stating -- studying six different homeopathic medicines using 17 electromicroscopy and other techniques of that type where 18 they actually showed that there were nanoparticles of the source material in the verum medicines. 19 20 Do you recall how diluted the medicines were that they Q. 21 were looking at? 22 The potencies that they studied were 6C, 30C, and Α. 23 It would be extremely diluted at the 200C. 200C. 24 And at -- at the dilutions above 6C, as a scientist, Ο. 25 do you expect to find any particles present at all?

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1 Α. You do not expect to see bulk materials, the large 2 forms of the source material there at that point. 3 What did you take away from reading this new research Q. 4 that was showing the presence of nanoparticles in very diluted homeopathically prepared materials? 5 Well, again, I was familiar with literature on other 6 Α. 7 topics in homeopathy research that I felt needed some 8 explanation and understanding. And one of the primary sources of the debate in the field was there's nothing there 9 10 if you keep diluting it enough. 11 At that point there is something there. 12 Based on that original study, there were nanoparticles of 13 source material present even at those high potencies. So I 14 was very surprised and wanted to learn more about that. 15 MR. MARGULIES: This is probably a good time for a 16 break if that works. 17 THE COURT: All right. We'll take our lunch break 18 at this time, and we will return at 1:15. 19 We are in recess. 20 (Noon recess taken.) 21 2.2 23 24 25

1	CERTIFICATE
2	I hereby certify that the foregoing is a true and correct
3	transcript of the stenographically recorded proceedings in
4	the above matter.
5	Fees charged for this transcript, less any circuit fee
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