

(DG01-Goldstein Combined 01 FINAL PLAYED		
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	9:24 - 10:1	Goldstein, Daniel 11-16-2017 (00:00:10)	DG01.1	
		9:24 THE VIDEOGRAPHER: Would the court		
		9:25 reporter please swear in the witness?		
		10:1 DANIEL A. GOLDSTEIN,		
	11:4 - 12:5	Goldstein, Daniel 11-16-2017 (00:01:03)	DG01.2	
		11:4 Q. Good morning. As you just heard, my		
		11:5 name is Pedram Esfandiary, I represent the		
		11:6 Plaintiffs in this action.		
		11:7 Could you please state and spell your		
		11:8 full name for the record, sir?		
		11:9 A. It's Daniel A. Goldstein,		
		11:10 G-o-l-d-s-t-e-i-n.		
		11:11 Q. Great. And you understand that you		
		11:12 are under oath, right, Mr. Goldstein?		
		11:13 A. I do.		
		11:14 Q. What's your understanding of that		
		11:15 oath?		
		11:16 A. My understanding is that I am sworn		
		11:17 to tell the truth to the best of my knowledge.		
		11:18 Q. And what is your current position at		
		11:19 Monsanto?		
		11:20 A. I am a Distinguished Science Fellow		
		11:21 and Lead for Medical Sciences and Outreach at		
		11:22 Monsanto.		
		11:23 Q. What does that mean?		
		11:24 A. It means I serve several roles		
		11:25 internally as a scientist. It means I have		
		12:1 responsibility in my own particular case for		
		12:2 product safety across all of our various product		
		12:3 lines, and I am also involved in outreach and		
		12:4 communications, primarily to medical and		
		12:5 professional organizations regarding our products.		
	12:19 - 13:10	Goldstein, Daniel 11-16-2017 (00:00:44)	DG01.3	
		12:19 Q. (BY MR. ESFANDIARY) Okay. What		
		12:20 training or education do you have that allows you		
		12:21 to hold the position that you currently hold at		
		12:22 Monsanto?		
		12:23 A. I have an undergraduate degree in		
		12:24 molecular biology from the University of Wisconsin.		
		12:25 I did graduate work there in the field of genetics		

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	13:1 but did not receive a graduate degree. Instead I	
	13:2 went on to medical school, Johns Hopkins	
	13:3 University, completed a residency in pediatrics at	
	13:4 Johns Hopkins and then moved on to Sick Children's	
	13:5 Hospital in Toronto, where I did a fellowship in	
	13:6 clinical pharmacology and toxicology.	
	13:7 Q. So you do have specific training with	
	13:8 respect to toxicology?	
	13:9 A. I have training specific to medical	
	13:10 toxicology. That is correct.	
13:18 - 14:1	Goldstein, Daniel 11-16-2017 (00:00:21)	DG01.
	13:18 Q. Okay. And do you have any training	
	13:19 as it relates to epidemiology?	
	13:20 A. I have a great deal of training as to	
	13:21 epidemiology and statistics, but I do not consider	
	13:22 myself to be an epidemiologist per se.	
	13:23 Q. Okay. You understand that Monsanto	
	13:24 has selected you to represent the company for the	
	13:25 purposes of this deposition; correct?	
	14:1 A. Yes.	
240:1 - 240:5	Goldstein, Daniel 11-16-2017 (00:00:15)	DG01.
	240:1 Q. (BY MR. ESFANDIARY) But you do agree	
	240:2 with me, Doctor, that there are currently numerous	
	240:3 epidemiological studies demonstrating statistically	
	240:4 significant elevated risks between Roundup exposure	
	240:5 and the onset of non-Hodgkin's lymphoma; correct?	
40:11 - 240:19	Goldstein, Daniel 11-16-2017 (00:00:30)	DG01.
	240:11 A. There are a number of studies that	
	240:12 have suggested a possible statistical association.	
	240:13 They are weak in their design. They are weak in	
	240:14 their exposure metrics, and the experimental	
	240:15 system, or the epidemiologic study I should say	
	240:16 that has the best experimental design, which is the	
	240:17 Agricultural Health Study, has not been able to	
	240:18 demonstrate a relationship between glyphosate	
	240:19 exposure and any type of malignancy.	
42:14 - 242:18	Goldstein, Daniel 11-16-2017 (00:00:16)	DG01.
	242:14 Dr. Goldstein, isn't it true that in, I	
	242:15 believe it was 1997, Dr. Acquavella specifically	
	242:16 noted that a major problem with the ongoing	

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	242:17 Agricultural Health Study was that the study	
	242:17 Agricultural Health Study was that the study 242:18 suffered from exposure misclassification?	
242:24 - 243:5	Goldstein, Daniel 11-16-2017 (00:00:31)	DG01.8
	242:24 A. He did undertake an evaluation of	
	242:25 that study, and he did criticize the exposure	
	243:1 metrics at some length. Nonetheless, it is the	
	243:2 best available study design, and the failure of	
	243:3 that study to produce robust relationships would	
	243:4 indicate that there is very, very little likelihood	
	243:5 that glyphosate causes cancer.	
259:13 - 259:14	Goldstein, Daniel 11-17-2017 (00:00:05)	DG01.13
	259:13 Q. And so do you agree that the AHS	
	259:14 suffered from exposure misclassification, sir?	
259:18 - 259:18	Goldstein, Daniel 11-17-2017 (00:00:00)	DG01.14
	259:18 A. I do.	
269:6 - 269:21	Goldstein, Daniel 11-17-2017 (00:00:46)	DG01.15
	269:6 Q. (BY MR. ESFANDIARY) Dr. Goldstein,	
	269:7 these well, first of all, the Bates number on	EXHIBIT16
	269:8 the bottom right-hand corner of this document is	
	269:9 MONGLY00885870, and this was produced by Monsanto	
	269:10 Company in this litigation. And the date of the	EXHIBIT16
	269:11 document is July 22, 1997, and it is addressed To	
	269:12 the Communications Subcommittee, and the signatore	
	269:13 right there is John Acquavella.	
	269:14 You know Dr. Acquavella, correct, Dr.	
	269:15 Goldstein?	
	269:16 A. Yes, I do.	
	269:17 Q. And he is an epidemiologist; correct?	
	269:18 A. That is correct.	
	269:19 Q. Do you consider him a respectable	
	269:20 epidemiologist?	
	269:21 A. Yes.	
270:19 - 271:10	Goldstein, Daniel 11-17-2017 (00:00:36)	DG01.16
	270:19 Q. And Dr.	clear
	270:20 Acquavella, and this might be a bit before your	
	270:21 time in 1997, but he was an employee of Monsanto at	
	270:22 the time?	
	270:23 A. Yes, he would have been.	
	270:24 Q. Okay. And he is no longer an	
	270:25 employee, is he, sir?	

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	271:1 A. That's correct.	
	271:2 Q. Yeah. He still consults for Monsanto	
	271:3 on kind of an ad hoc basis?	
	271:4 A. For a number of years he did not. He	
	271:5 was employed elsewhere and wasn't available for	
	271:6 consultation. He retired about two years ago and	
	271:7 has been doing some consulting work.	
	271:8 Q. Okay. And did you work closely with	
	271:9 Dr. Acquavella when he was at Monsanto?	
271:16 - 272:3	271:10 A. Yes, I did.	DG01.17
271.10 - 272.0	Goldstein, Daniel 11-17-2017 (00:00:31)	Baotin
	271:16 Q. Can I ask you, first of all, what the 271:17 Communications Subcommittee is? Is that a part of	
	271:17 Communications Subcommutee is? Is that a part of 271:18 Monsanto?	
	271:19 A. No, it is a part of Crop Life.	
	271:20 Q. Crop Life?	
	271:21 A. Yes.	
	271:22 Q. And what is Crop Life, sir?	
	271:23 A. Crop Life is an industry organization	
	271:24 that consists, its membership consists of pesticide	
	271:25 manufacturers and merchandisers.	
	272:1 Q. Okay. And obviously Monsanto is a	
	272:2 member of Crop Life; correct?	
	272:3 A. Yes, that is correct.	
276:22 - 277:6	Goldstein, Daniel 11-17-2017 (00:00:16)	DG01.18
	276:22 Dr. Goldstein, if you could please	
	276:23 turn your attention to the page ending in Bates	
	276:24 number 871?	
	276:25 A. I need to look at the document for a	
	277:1 moment.	
	277:2 Q. Oh, please, yeah. 277:3 A. We have been talking about the	
	277:4 background of it, but I haven't actually looked at	
	277:5 the document.	
	277:6 Q. Sure.	
277:7 - 277:18	Goldstein, Daniel 11-17-2017 (00:00:34)	DG01.19
	277:7 A. Okay.	
	277:8 Q. Actually, if you turn your attention	
	277:9 to the first page, the front, yeah, the face, and	EXHIBIT16.
	277:10 if you look at the first paragraph of Dr.	
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	277:11 Acquavella's comment there, it says, "At your last	
	277:12 meeting, I was asked to provide some background	
	277:13 thoughts on Epidemiology and the Agricultural	
	277:14 Health Study (AHS) that you could use to build	
	277:15 positive messages. Please find some preliminary	
	277:16 thoughts attached."	
	277:17 Did I read that correctly, sir?	
	277:18 A. Yes.	
278:1 - 278:9	Goldstein, Daniel 11-17-2017 (00:00:37)	DG01.20
	278:1 Q. (BY MR. ESFANDIARY) Okay. If you	
	278:2 turn your attention to page 871. And about halfway	EXHIBIT16.2
	278:3 down the section titled The AHS rationale, Dr.	EXHIBIT16.2
	278:4 Acquavella says, "But, the viability and eventual	
	278:5 impact of the AHS will depend on the investigators'	
	278:6 ability to generate a new class of scientific	
	278:7 leads, most of which will be invalid."	
	278:8 Did I read that correctly, sir?	
	278:9 A. Yes, you did.	
278:13 - 278:19	Goldstein, Daniel 11-17-2017 (00:00:13)	DG01.21
	278:13 Q. (BY MR. ESFANDIARY) And then right	
	278:14 after that, Dr. Acquavella says, "This has the	EXHIBIT16.2
	278:15 potential to be disruptive for the agricultural	
	278:16 chemical industry as new leads potentially take on	
	278:17 a life of their own."	
	278:18 Did I read that correctly, sir?	
284:4 - 284:13	278:19 A. Yes, you did.	DG01.28
204.4 - 204.13	Goldstein, Daniel 11-17-2017 (00:00:30)	EXHIBIT16.
	284:4 Q. Okay. And Dr. Acquavella says, "Most	EXHIBIT IO.
	284:5 of the diseases to be studied in the AHS have scant	
	284:6 reasoning to link them putatively to pesticide	
	284:7 exposure. Thus, much of the research can be termed	
	284:8 'exploratory.' That's not unusual in epidemiology, 284:9 but it is unusual on this big a scale."	
	284:10 And my question to you is, sir, do	
	284:10 And my question to you is, sir, do 284:11 you agree that the AHS broke with established	
	284:12 epidemiological principles by embarking on a large	
	284:12 epidemiological principles by embarking on a large 284:13 exploratory cohort study?	
284:17 - 284:17	Goldstein, Daniel 11-17-2017 (00:00:04)	DG01.29
	284:17 A. No, I don't.	

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	337:19 Dr. Goldstein, over the past two days	clear
	337:20 you have been asked a number of questions about	
	337:21 what we've called the AHS; is that correct?	
	337:22 A. Yes.	
	337:23 Q. Okay. Can you tell the jury what the	
	337:24 AHS is, please?	
	337:25 A. So the Agricultural Health Study, or	
	338:1 AHS, is the largest study of farmers and pesticide	
	338:2 applicators and their health that has ever been	
	338:3 undertaken. It is performed by the National Cancer	
	338:4 Institute and has been going on now for nearly 25	
	338:5 years.	
	338:6 Q. Would you consider it a robust study?	
338:9 - 338:11	Goldstein, Daniel 11-17-2017 (00:00:09)	DG01.
	338:9 A. It is an extremely robust study. I	
	338:10 would consider it to be the most robust and	
	338:11 reliable data set that we have available.	
339:13 - 339:25	Goldstein, Daniel 11-17-2017 (00:00:31)	DG01.3
	339:13 Q. (BY MR. RUBIN) Okay. Just so the	
	339:14 jury is absolutely clear, when was the most recent	
	339:15 AHS report issued?	
	339:16 A. Last week.	
	339:17 Q. Just in November of 2017?	
	339:18 A. Yes, that's correct.	
	339:19 Q. Okay. Have you had a chance to look	
	339:20 at that report and review it?	
	339:21 A. I have.	
	339:22 Q. And what did the report show?	
	339:23 A. That report showed no relationship	
	339:24 between user exposure to glyphosate and the	
	339:25 occurrence of any cancer type in humans.	

Total Time = 00:09:32

Documents Shown EXHIBIT16