As Played at Pilliod

Martens, Mark 04-07-2017

Total Time 02:22:57



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10:18 - 11:8	Martona Mark 04 07 2017 (00:00:25)	Martens.1
10.10 - 11.0	Martens, Mark 04-07-2017 (00:00:25) 10:18 Q. Dr. Mart can you please state your	Marteris. 1
	10:19 name for the record.	
	10:20 A. Mark Martens.	
	10:21 Q. Okay. And you're a doctor; is that 10:22 correct?	
	10:23 A. I'm a Ph.D. in pharmaceutical sciences 10:24 and toxicology.	
	10:25 Q. Okay. Would you prefer I call	
	11:1 you Dr. Martens or Mr. Martens?	
	11:2 A. Whatever you like.	
	11:3 Q. Which would you prefer?	
	11:4 A. Oh, you can call me Mr. Martens. That's	
	11:5 fine with me.	
	11:6 Q. Okay. So, Mr. Martens, have you had your	
	11:7 deposition taken before?	
	11:8 A. No.	
12:19 - 12:22	Martens, Mark 04-07-2017 (00:00:10)	Martens.2
	12:19 Q. Okay. So what I've given you is marked	
	12:20 as Exhibit 9-1 is your CV. Is that an accurate	MARTENS9-1.1
	12:21 version of your CV?	
	12:22 A. Yes, it is.	
13:1 - 14:7	Martens, Mark 04-07-2017 (00:01:02)	Martens.3
	13:1 So it looks like you have some some	
	13:2 areas of expertise; is that correct?	
	13:3 A. That is correct.	
	13:4 Q. Okay. And what are your areas of	
	13:5 expertise?	
	13:6 A. My areas of expertise throughout my	
	13:7 career are, you know, toxicology in all its forms.	
	13:8 That means as well experimental, regulatory, as	
	13:9 evaluative toxicology.	
	13:10 Q. Okay. And it looks like you had marked	
	13:11 down "experimental toxicology, regulatory	
	13:12 toxicology" I missed one "hazard and risk	
	13:13 assessment, and preclinical development" as your past	
	13:14 and current fields of expertise, correct?	
	13:15 A. Yes. I can add that when I was at the	
	13:16 university, I was also involved in forensic	
	13:17 toxicology.	
		

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	13:18 Q. Okay. So an update to this would be that	
	13:19 you're also an expert in forensic toxicology?	
	13:20 A. Yes.	
	13:21 Q. Okay. Excellent.	
	13:22 And it looks like like you mentioned	
	13:23 you've gotten your Ph.D. in the school of pharmacy in	
	13:24 1976; is that correct?	
	13:25 A. Yes.	
	14:1 Q. And a rough math is around 40 years ago,	
	14:2 right?	
	14:3 A. Right.	
	14:4 Q. And so you	
	14:5 A. Yep, 45 years ago, yeah.	
	14:6 Q. 45 years ago? 14:7 A. Yes.	
14:14 - 15:1	Martens, Mark 04-07-2017 (00:00:32)	Martens.4
	14:14 Q. Okay. And right now, if you move to the	
	14:15 next page, it looks like your current position is a	MARTENS9-1.2
	14:16 consultant in preclinical development and toxicology;	
	14:17 is that correct?	
	14:18 A. That is correct.	
	14:19 Q. Okay. So can you tell the jury a little	
	14:20 bit about what what your what that means, your	
	14:21 current job right now.	
	14:22 A. That means that as an independent	
	14:23 consultant, I'm asked as well by pharmaceutical	
	14:24 companies, chemical companies and agrochemical	
	14:25 companies to to provide them support in	
	15:1 interpreting and in analyzing toxicology studies.	
15:8 - 15:14	Martens, Mark 04-07-2017 (00:00:13)	Martens.5
	15:8 Q. Okay. And is is Monsanto one of the	
	15:9 companies that has hired you as a consultant in that	
	15:10 past seven years?	
	15:11 A. Yes.	
	15:12 Q. Okay. And Monsanto has paid you for that	
	15:13 consulting position over the last seven years?	
	15:14 A. Yes.	
15:16 - 16:11	Martens, Mark 04-07-2017 (00:00:45)	Martens.6
	15:16 A. It's actually the last five years,	
	15:17 because I was actually contacted by Monsanto in 2011	

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	15:18 for a first contact.	
	15:19 Q. Okay. So, just so we're on the same	
	15:20 page	
	15:21 A. Mm-hmm.	
	15:22 Q in 2011, Monsanto contacted you	
	15:23 A. Mm-hmm.	
	15:24 Q to consult for them; is that	
	15:25 A. Right.	
	16:1 Q correct?	
	16:2 And what what sort of consulting job	
	16:3 were you contacted for in 2011?	
	16:4 A. That was actually for the analysis of	
	16:5 mechanistic studies on another compound than	
	16:6 glyphosate for Monsanto.	
	16:7 Q. Okay. And have you done consulting work	
	16:8 for Monsanto since 2011 on glyphosate?	
	16:9 A. Only the last year.	
	16:10 Q. Okay. So, yes, you have?	
47.4 40.0	16:11 A. Yes, I have.	Martens.7
17:1 - 18:8	Martens, Mark 04-07-2017 (00:01:21)	wartens.7
	17:1 Q. So it goes on, your your CV goes on to	
	17:2 talk about your current and previous positions. And	
	17:3 if you go through it, it says here that and this	MARTENS9-1.3
	17:4 is on page 3 of your CV, it says that you were	WARTENSS-1.3
	17:5 promoted to a Monsanto Science Fellow in 2002; is	
	17:6 that correct?	
	17:7 A. That's correct.	
	17:8 Q. And can you tell the jury what that	
	17:9 what a Monsanto Science Fellow means?	
	17:10 A. A Monsanto Science Fellow is a	
	17:11 distinguished degree as a scientist in the Monsanto	
	17:12 organization.	
	17:13 Q. Okay. So it's a distinguished scientist	
	17:14 within Monsanto, you were promoted to that?	
	17:15 A. Yes. Right.	
	17:16 Q. Okay. And is that a position within	
	17:17 Monsanto?	
	17:18 A. That is not a position. That is a kind	
	17:19 of a degree which should be considered as a parallel	
	17:20 type of career path next to the managerial career	

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	17:21 path and which is reserved for people who are	
	17:22 continuously involved in scientific projects and	
	17:23 scientific research.	
	17:24 Q. So when you were promoted to a Monsanto	
	17:25 Science Fellow in 2002, were you a current Monsanto	
	18:1 employee at that time?	
	18:2 A. Yes.	
	18:3 Q. Okay. So is are the Monsanto Science	
	18:4 Fellow promotions just for Monsanto employees? 18:5 A. That is just well, that is a system	
	18:6 that exists in every chemical, agrochemical and	
	18:7 pharmaceutical industry which allows career paths for	
	18:8 people who want to stick to scientific career paths.	
18:9 - 18:13	Martens, Mark 04-07-2017 (00:00:17)	Martens.8
	18:9 Q. Okay. You were a toxicology director in	
	18:10 Europe and Africa for Monsanto starting in 1992 and	
	18:11 ending in 2004; is that correct?	
	18:12 A. Actually, I started with Monsanto in	
	18:13 1989.	
18:15 - 19:3	Martens, Mark 04-07-2017 (00:00:27)	Martens.9
	18:15 A. And then I was hired as a manager of	
	18:16 toxicology, and then afterwards I was promoted and I	
	18:17 graduate to director of toxicology, Europe and	
	18:18 Africa, yeah.	
	18:19 Q. Okay. So that's a good clarification.	
	18:20 You began working for Monsanto in 1989?	
	18:21 A. Yes.	
	18:22 Q. And when did you quit working for 18:23 Monsanto?	
	18:24 A. At the end of 2003.	
	18:25 Q. Okay. So then between 2003 and when they	
	19:1 hired you to be a consultant in 2011, did you do any	
	19:2 work with Monsanto?	
	19:3 A. No.	
19:9 - 19:12	Martens, Mark 04-07-2017 (00:00:08)	Martens.10
	19:9 Q. Okay. And you were actually, it looks	
	19:10 like, a professor or assistant professor at the at	
	19:11 St. Louis University in St. Louis, correct?	
	19:12 A. Yes.	
19:16 - 19:23	Martens, Mark 04-07-2017 (00:00:16)	Martens.11

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	40.40 O Olympia Anadomorphic about a designation of a section of the section of t	
	19:16 Q. Okay. And you were teaching toxicology	
	19:17 to college students.19:18 A. No, no, not college students.	
	19:19 Q. Okay.	
	19:20 A. I was teaching toxicology to medical	
	19:21 postgraduates, and those were two branches that was	
	19:22 experimental and occupational and forensic	
	19:23 toxicology.	
20:5 - 20:10	Martens, Mark 04-07-2017 (00:00:17)	Martens.12
	20:5 Q. And then you go on to list a few other of	
	20:6 your toxicology positions, but the bottom line is	
	20:7 that you have been working in toxicology for 45	
	20:8 years, and there would be few people that wouldn't	
	20:9 consider you an expert in toxicology; is that	
	20:10 correct?	
20:12 - 20:12	Martens, Mark 04-07-2017 (00:00:02)	Martens.13
	20:12 THE WITNESS: Yes.	
20:22 - 21:8	Martens, Mark 04-07-2017 (00:00:38)	Martens.14
	20:22 On page 5 of your CV, you also have a lot	MARTENS9-1.5
	20:23 of experience with international and national	
	20:24 organizations. Then you list a couple of pages of	
	20:25 those, the EU Commission and Council, the OECD	MARTENS9-1.6
	21:1 chemicals group. You go on to list list a bunch,	
	21:2 right?	
	21:3 On the next page, you have experience	
	21:4 with IARC, right?	
	21:5 A. (The witness nods.)	
	21:6 Q. You have experience with the European	
	21:7 Council for the chemical industry, if you go down	
	21:8 there.	
21:9 - 21:17	Martens, Mark 04-07-2017 (00:00:20)	Martens.15
	21:9 You also have experience on the next page	MARTENS9-1.7
	21:10 with the European Crop Protection Association where	
	21:11 it looks like you were participating as a	
	21:12 representative of Monsanto, correct?	
	21:13 A. Yes, correct.	
	21:14 Q. So sometimes you engage with regulatory	
	21:15 or international associations on behalf of Monsanto;	
	21:16 is that correct?	
	21:17 A. Yes.	

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04.40 04.04	M	Martens.16
21:18 - 21:21	Martens, Mark 04-07-2017 (00:00:08)	Martens.16
	21:18 Q. Okay. And you list you go through and	
	21:19 there's ten organizations that you list, so you have	
	21:20 experience with international organizations, correct?	clear
23:10 - 23:14	21:21 A. That's correct.	Martens 17
23:10 - 23:14	Martens, Mark 04-07-2017 (00:00:06)	Marteris. 17
	23:10 Q. Okay. And you lived in the United States	
	23:11 for two years; is that correct?	
	23:12 A. Two years, yes.	
	23:13 Q. And then back to Belgium, correct?	
00.00 04.4	23:14 A. Yes.	Martana 40
23:20 - 24:1	Martens, Mark 04-07-2017 (00:00:15)	Martens.18
	23:20 Q. Okay. So you also lecture on toxicology	
	23:21 and related sciences, correct?	
	23:22 A. Yes.	
	23:23 Q. And I counted up really quickly that you	
	23:24 have lectured at about seven institutes or	
	23:25 universities. Does that sound correct?	
04.0 04.0	24:1 A. That sounds correct, yeah.	Martana 40
24:6 - 24:9	Martens, Mark 04-07-2017 (00:00:09)	Martens.19
	24:6 Q. Okay. So you've authored coauthored a	
	24:7 book on is that on toxicology as well?	
	24:8 A. This is on preclinical development of	
24:13 - 24:15	24:9 and toxicology is a part of preclinical development.	Martens.20
24.13 - 24.10	Martens, Mark 04-07-2017 (00:00:05)	Waitens.20
	24:13 And then very impressively you speak four	
	24:14 languages as well, correct?	
24:24 - 25:8	24:15 A. Yes.	Martens.21
24.24 - 20.0	Martens, Mark 04-07-2017 (00:00:37)	Martons.21
	24:24 What is oxidative stress?	
	24:25 A. Oxidative stress is a state of a cell	
	25:1 where there is a production of free oxygen radicals,	
	25:2 which are inclined actually to damage several 25:3 molecules in the cell of which DNA.	
	25:4 Q. Okay. And how long has the scientific	
	25:5 community known about oxidative stress?	
	25:6 A. I think that from 1990, '92, there was	
	25:7 science developing in that direction as a possible	
25:16 - 25:24	25:8 mechanism of carcinogenicity.	Martens.22
20.10 20.24	Martens, Mark 04-07-2017 (00:00:22)	

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27:7 - 27:22	25:16 Q. Okay. So in the early 1990s, it's fair 25:17 to say that the scientific community was aware that 25:18 oxidative stress could increase could could 25:19 lead to an increased risk of cancer; is that correct? 25:20 A. That was in the beginning, and, you know, 25:21 there was more and more information that these were 25:22 possible mechanisms for carcinogenicity, yes. 25:23 Q. Sure. And what is the mechanism of how 25:24 oxidative stress can increase the risk of cancer? Martens, Mark 04-07-2017 (00:00:55) 27:7 A. Right. So oxidative stress is a state of 27:8 the cell where there is a production of free oxygen 27:9 radicals. Now, free oxygen radicals are a very 27:10 reactive species, molecular species, and they bind to 27:11 the oxidized molecules in the cell of which DNA. So 27:12 oxidation of DNA and there is oxidation of the 27:13 nucleotides in the DNA can lead, after cell division, 27:14 to mutation, which can be a permanent change in the 27:15 gene, and a permanent change in the gene can also 27:16 make changes in gene transcription, which can lead to 27:17 phenotypic change of the cell leading to cancer. 27:18 Q. Excellent. Thank you. 27:20 the the concept of hazard assessment versus risk	Martens.23
28:2 - 29:17	27:21 assessment. Are you familiar with those two terms? 27:22 A. Absolutely. Martens, Mark 04-07-2017 (00:01:17) 28:2 Q. Okay. And is it fair to say that a 28:3 hazard assessment is considering whether an effect 28:4 can happen under any circumstance; is that fair? 28:5 A. That's fair. 28:6 Q. Okay. And is it fair to say that a risk 28:7 assessment is considering under what specific 28:8 circumstance that effect will happen. 28:9 A. Yes. 28:10 Q. Okay. I just wanted to make sure I had 28:11 those those straight in my head before we started 28:12 going. 28:13 The first topic we're going to get into 28:14 is, do you know Dr. James the late Dr. James	Martens.24

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	28:15 Parry?	
	28:16 A. Yes.	
	28:17 Q. Did he go by Jim Parry or James?	
	28:18 A. That was Jim.	
	28:19 Q. Jim? Okay.	
	28:20 A. Yeah.	
	28:21 Q. Dr. Jim Parry. And were you friends with	
	28:22 him?	
	28:23 A. Oh, we knew each other from scientific	
	28:24 congresses. Friends is a little bit too close.	
	28:25 Q. Okay. You were professional	
	29:1 acquaintances?	
	29:2 A. Yes. Put it that way.	
	29:3 Q. And what was was Dr. Parry a	
	29:4 toxicologist?	
	29:5 A. He was a toxicologist specializing in 29:6 genetic toxicology.	
	29:7 Q. Okay. And was he an expert in his field?	
	29:8 A. Yes.	
	29:9 Q. Okay. He was a good scientist, correct?	
	29:10 A. He was a good scientist, yes.	
	29:11 Q. Okay. And are you he has since passed	
29:12 away. Has		
29:13 A. Mm-hmm.		
	29:14 Q has am I correct?	
	29:15 A. Yes.	
	29:16 Q. I believe sometime in around 2010, '11.	
	29:17 A. I don't remember.	
30:12 - 31:7	Martens, Mark 04-07-2017 (00:00:38)	Martens.25
	30:12 Are you familiar with the Bolognesi paper	
	30:13 from 1997?	
	30:14 A. Yes.	
	30:15 Q. Okay. Am I pronouncing that right?	
	30:16 A. Bolognesi.	
	30:17 Q. Bolo okay. Bolognesi. The American	
	30:18 way I'm pronouncing it.	
	30:19 A. That's okay.	
	30:20 Q. Okay. Are you familiar with the Peluso	
	30:21 paper	
	30:22 A. Yes.	

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Page/Line	Source	ID
	30:23 Q from 1998?	
	30:24 A. Yes.	
	30:25 Q. Okay. And are you familiar with the two	
	31:1 Dr. Lioi papers from both from 1998?	
	31:2 A. Yes, I recall that these have been in our	
	31:3 are considered, but I I didn't actually look at	
	31:4 the papers themselves recently.	
	31:5 Q. Okay. But you're familiar with all four	
	31:6 of those papers	
31:17 - 32:5	31:7 A. Yes. I know about them, yes.	Martens.26
31.17 - 32.3	Martens, Mark 04-07-2017 (00:00:30)	Walteris.20
	31:17 Q. Okay. So all four of these papers deal	
	31:18 with the genotoxicity of glyphosate and/or Roundup,	
	31:19 correct?	
	31:20 A. Correct, yes.	
	31:21 Q. Okay. And you put ourselves if we	
	31:22 transport back to the 1999 time period right before	
	31:23 the turn of the century, all four of those papers	
	31:24 came out, correct? 31:25 A. Yes.	
	32:1 Q. They were all 1997 to 1999, correct?	
	32:2 A. Yeah, yeah.	
	32:3 Q. Okay. And these papers weren't good for	
	32:4 the genotox profile of glyphosate and Roundup, 32:5 correct?	
32:7 - 32:9	Martens, Mark 04-07-2017 (00:00:06)	Martens.27
52 525	32:7 THE WITNESS: I will phrase it this way:	
	32:8 They were not in concordance with the existing	
	32:9 results on genotoxicity with on glyphosate.	
33:13 - 33:21	Martens, Mark 04-07-2017 (00:00:26)	Martens.28
331.13	33:13 So did you go to Monsanto with these	
	33:14 papers or did Monsanto come to you, or do you not	
	33:15 recall because it's been so long?	
	33:16 A. Well, I don't recall that detail, but	
	33:17 but we both were aware at the same time that these	
	33:18 papers had been published and these needed attention.	
	33:19 Q. Okay. Excellent.	
	33:20 I'm going to hand you what's been what	
	33:21 we are going to mark as I guess this will be	
34:4 - 34:10	Martens, Mark 04-07-2017 (00:00:17)	Martens.29
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	34:4 Q. And when I hand you e-mails, 34:5 Mr. Martens, feel free to take all the time you need 34:6 to read them, and if we need to go off the record to 34:7 give you more time, we certainly can. Okay? I'm not 34:8 trying to rush you through any documents. 34:9 A. Okay. Can I read them now?	MARTENS9-2.
35:4 - 36:13	Martens, Mark 04-07-2017 (00:01:32) 35:4 So this is a these are what the 35:5 e-mails from the 19 late 1990s look like when 35:6 they're printed out. The first e-mail was from Donna 35:7 Farmer, and it was written on December 27th, 1998, 35:8 which is two days two or three days after 35:9 Christmas back in 1998. 35:10 And who is Donna Farmer? 35:11 A. Dr. Farmer is a product toxicologist 35:12 located in St. Louis at that time. 35:13 Q. Okay. And she still is employed with 35:14 Monsanto, correct? 35:15 A. I believe so, yes. 35:16 Q. And at this time was Dr. Farmer your 35:17 boss? 35:18 A. No. 35:19 Q. No. Was Dr. Farmer on the same sort of 35:20 level as you within the hierarchy of Monsanto? 35:21 A. At about the same level at that time, 35:22 yes. 35:23 Q. Okay. And did you and Dr. Farmer work a 35:24 lot together at this point? 35:25 A. We had for this type of project 36:1 communications. 36:2 Q. Okay. And did you and Dr. Farmer get 36:3 along? 36:4 A. Yeah. 36:5 Q. Okay. So this looks like Dr. Farmer was 36:6 talking about a meeting that y'all had had on 36:7 December 17th on mutagenicity; is that correct? 36:8 A. That is correct, yes. 36:9 Q. And the reason why I think that you were 36:10 at this meeting is that you write back to her two	Martens.30

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	Martens-As Played at Pilliod	
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36:18 - 37:3	36:11 days later, is that or yeah, two days later; is 36:12 that correct? If you look above. 36:13 A. Yeah, it seems to be correct, yes. Martens, Mark 04-07-2017 (00:00:41) 36:18 Q. So you had a meeting on December 17th of 36:19 1998, and ten days later she writes an e-mail to	Martens.31
	36:20 y'all, probably slowed down with the holidays, of 36:21 course, and about what had happened on December 17th. 36:22 And so she has action items from 36:23 "Action items from the meeting, from today's call." 36:24 So it looks like she had written that simultaneously, 36:25 and then just circulates that later. 37:1 So MON 35050, what is that? 37:2 A. That is a formulation that has been used	
37:4 - 37:7	37:3 by Peluso and Bolognesi for their test system. Martens, Mark 04-07-2017 (00:00:08) 37:4 Q. Okay. So would it be fair to call those 37:5 the Italian papers? Are they both from Italy? 37:6 A. It would be fair to call it the Italian	Martens.32
37:13 - 40:3	37:7 formulation. Martens, Mark 04-07-2017 (00:02:27)	Martens.33
	37:13 Q. Okay. So this is the this is the 37:14 formulation that was used in the Italian papers, 37:15 correct? 37:16 A. Yes, correct. 37:17 Q. Okay. So you guys are now knowing about 37:18 this, this is in late 1998, and you are talking about 37:19 doing tests on formulation blanks of the Italian 37:20 formulation, correct? 37:21 A. Yes. That was the idea, yeah. 37:22 Q. Okay. And if you turn to the next page, 37:23 and if you go down, we talk about this is where 37:24 Dr. Parry is first talked about. 37:25 A. Mm-hmm. 38:1 Q. You have other topics, as you can see, as 38:2 the jury can see, that they had talked about, but in 38:3 relative part, it says that: "Agreed that an 38:4 external global network of genotox experts need to be 38:5 developed." 38:6 Do you see that?	MARTENS9-2.2
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- 38:7 A. Yes.
- 38:8 Q. Okay. "As EU has an immediate" --
- 38:9 something there -- "as EU has an immediate need and
- 38:10 is critical area now, it was agreed that Mark
- 38:11 Martens" --
- 38:12 That's you, correct?
- 38:13 A. Yes.
- 38:14 Q. -- "would contact Dr. Parry next week to
- 38:15 discuss with him his participation in the support of
- 38:16 glyphosate -- glyphosate-based formulations, genotox
- 38:17 issues." Correct?
- 38:18 A. Correct.
- 38:19 Q. And that's because you're an expert in
- 38:20 toxicology, right?
- 38:21 A. Yes.
- 38:22 Q. And Dr. Parry is an expert in genotox --
- 38:23 toxicology, correct?
- 38:24 A. Yes.
- 38:25 Q. So you two would make the perfect pair to
- 39:1 work on this issue, correct?
- 39:2 A. That's correct.
- 39:3 Q. Okay. Then it goes on later to say:
- 39:4 "For North America, Gary Williams will be here in
- 39:5 early February as part of the Cantox project."
- 39:6 Okay. Who is Gary Williams? Do you know
- 39:7 him?
- 39:8 A. Yes, I know Gary Williams. He is an
- 39:9 authority in the United States on the mechanisms of
- 39:10 carcinogenicity and genotoxicity.
- 39:11 Q. Okay. And is he a Monsanto employee?
- 39:12 A. No.
- 39:13 Q. Do you know, to your knowledge, has he
- 39:14 ever been a Monsanto employee?
- 39:15 A. No. Never.
- 39:16 Q. He never has or you don't know?
- 39:17 A. He never has to my knowledge, no.
- 39:18 Q. Okay. And then it says: "Larry Kier
- 39:19 will -- as" -- as, I think it means to say has --
- 39:20 "graciously agreed to join in those discussions."
- 39:21 And who is Larry Kier?

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	39:22 A. Dr. Larry Kier was the head of the	
	39:23 laboratory of genotoxicology of the Environmental	
	39:24 Health Laboratory of Monsanto in St. Louis. So he	
	39:25 was the head genotoxicology expert within the	
	40:1 organization.	
	40:2 Q. Okay. And he is a Monsanto employee?	
	40:3 A. He is a Monsanto employee.	
41:12 - 41:16	Martens, Mark 04-07-2017 (00:00:11)	Martens.34
	41:12 right. It's a real so Dr. Farmer writes: "It's a	
	41:13 real concern that these papers," meaning the Lioi	
	41:14 papers, "may create an even bigger problem for us	
	41:15 than the Peluso paper. Therefore, we do some things	
	41:16 quickly."	
41:18 - 41:19	Martens, Mark 04-07-2017 (00:00:02)	Martens.35
	41:18 THE WITNESS: That is the opinion of	
	41:19 Dr. Donna Farmer.	
41:21 - 41:23	Martens, Mark 04-07-2017 (00:00:07)	Martens.36
	41:21 Q. Okay. And did you have any did you	
	41:22 disagree with that opinion?	
	41:23 A. I didn't agree completely actually.	
41:24 - 42:7	Martens, Mark 04-07-2017 (00:00:26)	Martens.37
	41:24 Q. Okay. Did you agree that the Peluso	
	41:25 paper created a problem for Monsanto?	
	42:1 A. I agreed that the Peluso was a new type	
	42:2 of finding and needed to be addressed.	
	42:3 Q. Okay. And so one of the ways that	
	42:4 that Monsanto was deciding to address it was to have	
	42:5 a letter sent from Monsanto Italy or Brussels saying	
	42:6 that the the data doesn't agree with other data.	
	42:7 A. Mm-hmm.	
43:2 - 43:3	Martens, Mark 04-07-2017 (00:00:05)	Martens.38
	43:2 Q. I'm going to hand you what will be marked	MARTENS9-3.1
	43:3 as Exhibit 3.	
45:8 - 45:19	Martens, Mark 04-07-2017 (00:00:37)	Martens.39
	45:8 So if you look again at this e-mail	MARTENS9-3.4
	45:9 exhibit, again it's a cascade, and it looks like we	
	45:10 are about a month later after the last e-mail that we	
	45:11 looked at. We are now Dr. Farmer is now writing	
	45:12 an e-mail on January 27th, '99, and the last one was	
	45:13 December 27th, so we're exactly a month later.	

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	45.14 And shale talking shout minutes from a	
	45:14 And she's talking about minutes from a	
	45:15 meeting on 1/15; is that correct? 45:16 A. Yes.	
	45:17 Q. Okay. And you were in fact in attendance	
	45:18 in that meeting. 45:19 A. Yes.	
46:14 - 47:1	Martens, Mark 04-07-2017 (00:00:26)	Martens.40
	46:14 Number 3 was: "The group recommended	MARTENS9-3.1
	46:15 testing the full formulations." Correct?	
	46:16 A. That's what it says, yes. 46:17 Q. Okay. And what does the "full	
	46:18 formulations" mean?	
	46:19 A. The full formulation is actually the	
	46:20 active ingredient together with the co-formulants.	
	46:21 Q. Okay. So Roundup?	
	46:22 A. For example, yes.	
	46:23 Q. Okay. Instead of testing just glyphosate	
	46:24 or just the surfactants, the "full formulation" means	
	46:25 the finished product of Roundup.	
47:3 - 47:8	47:1 A. Yes. Martana Mark 04 07 2017 (00:00:10)	Martens.41
47.0 47.0	Martens, Mark 04-07-2017 (00:00:19)	martorio. 11
	47:3 And then we we scroll down here a	
	47:4 little bit more, and we talk about: "One of the full	
	47:5 formulations discussed was MON 35050, which we had	
	47:6 already determined was the product used in the Peluso	
	47:7 and Bolognesi papers," which we've called the Italian	
47:10 - 47:23	47:8 formula. Martens, Mark 04-07-2017 (00:00:41)	Martens.42
11.10	47:10 Q. "The team was to develop a positive press	
	47:11 release." Correct?	
	47:12 A. That's what it says.	
	47:13 Q. Okay. And then we get to the next page,	MARTENS9-3.4
	47:14 where we will spend a little bit of time. We had	
	47:15 touched before about Dr. Parry. This group again,	
	47:16 which if I can go back to here, in attendance was	
	47:17 Donna Farmer, which we talked about Dr. Farmer	
	47:18 earlier, Bill Heydens.	
	47:19 Can you tell me who Bill Heydens is? 47:20 A. Dr. Bill Heydens was my colleague in the	
	47:21 United States, mostly responsible in the beginning	
	47.21 Officed States, mostly responsible in the beginning	

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	Martens-As Played at Pilliod	
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48:4 - 48:9	47:22 for glyphosate, and then after also other products. 47:23 He's a toxicologist. Martens, Mark 04-07-2017 (00:00:14) 48:4 Q. And then that's you. And then Alan 48:5 Wilson, can you tell me who Alan Wilson is? 48:6 A. Alan Wilson was the the toxicologist	Martens.43
48:13 - 49:12	48:7 working at the Environmental Health Laboratory 48:8 responsible for biochemical mechanisms and mechanisms 48:9 of toxicity. Martens, Mark 04-07-2017 (00:00:47) 48:13 Q. Okay. And was Alan Wilson a Monsanto	Martens.44
	48:14 employee? 48:15 A. Yes. 48:16 Q. Okay. So this is a Monsanto meeting, 48:17 correct? 48:18 A. Yes. 48:19 Q. Okay. With all toxicologists. 48:20 A. Mm-hmm. 48:21 Q. And everyone at that meeting is located 48:22 in the United States except for you, correct? 48:23 A. Yes. 48:24 Q. Okay. Now, if we go back to this so 48:25 we're talking about the external global networks of 49:1 genotox experts at this meeting, and when talking 49:2 about the EU, which is you know, what's the EU? 49:3 A. The European Union. 49:4 Q. Okay. So that would fall under your 49:5 purview, correct? 49:6 A. Yes.	MARTENS9-3.2
49:13 - 49:16	49:0 A. Tes. 49:7 Q. Okay. We already talked about that 49:8 Dr. Parry is a recognized genotox expert, right? 49:9 A. Yes. 49:10 Q. Okay. What is not known is how he views 49:11 some of the nonstandard endpoints. Correct? 49:12 A. Yes. Martens, Mark 04-07-2017 (00:00:08) 49:13 Q. Okay. And those nonstandard endpoints 49:14 are the endpoints that were evaluated in the Rank 49:15 article and the Bolognesi article, correct? 49:16 A. Yes.	Martens.45

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	Martens-As Played at Pilliod	
Page/Line	Source	ID
49:17 - 49:20	Martens, Mark 04-07-2017 (00:00:11)	Martens.46
	49:17 Q. Okay. So your group of Monsanto	
	49:18 toxicologists were saying that, although Dr. Parry is	
	49:19 an expert in genotox toxicology, we don't know what	
	49:20 his views are on this paper, correct?	
49:24 - 50:20	Martens, Mark 04-07-2017 (00:00:52)	Martens.47
	49:24 THE WITNESS: Well, we want to know his	
	49:25 opinion on these papers.	
	50:1 BY MS. WAGSTAFF:	
	50:2 Q. Yeah, you were just saying	
	50:3 A. Yeah.	
	50:4 Q you don't know he is an expert, but	
	50:5 we don't know what his opinions are, correct?	
	50:6 A. Yes.	
	50:7 Q. Okay. And so to figure out his opinions,	
	50:8 and it says, Before we ask him, meaning Dr. Parry, to	
	50:9 get more deeply involved, which is reviewing all the	
	50:10 literature, data, or to represent you as a	
	50:10 increase, data, or to represent you as a	
	50:12 subset of the articles, correct?	
	50:13 A. Right.	
	50:14 Q. Once again, everyone turns to you, right?	
	50:15 A. Mm-hmm.	
	50:16 Q. Okay. So it was proposed that Mark	
	50:17 Martens, that's you, would contact Dr. Parry and ask	
	50:18 him for a written review of the articles by Rank,	
	50:19 Bolognesi, Peluso and Lioi, correct?	
	50:20 A. Correct.	
52:2 - 52:5	Martens, Mark 04-07-2017 (00:00:11)	Martens.48
	52:2 Q. Okay. And then based on his critique of	
	52:3 the genotox papers, your group would decide whether	
	52:4 or not you would expand his role, correct?	
	52:5 A. Yes.	
52:6 - 52:12	Martens, Mark 04-07-2017 (00:00:21)	Martens.49
	52:6 Q. Okay. Okay. Once again, y'all are	
	52:7 talking about the Lioi papers, the two Lioi papers,	
	52:8 and once again, Dr. Farmer says that the Lioi papers 52:9 may present an even bigger problem because the	
	52:10 studies are with glyphosate and are on a more	
	52:11 standard endpoints, correct?	

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52:13 - 52:16	52:12 A. Yes.	Martens.50
02.13 - 02.10	Martens, Mark 04-07-2017 (00:00:07)	Marteris.50
	52:13 Q. Okay.	
	52:14 A. But the I interpreted the Lioi paper	
	52:15 and came to the conclusion it's a very low quality	
52:23 - 53:4	52:16 paper.	Martens.51
02.20 - 00.4	Martens, Mark 04-07-2017 (00:00:18)	Marteris.01
	52:23 Q. But as of right now, we're sitting here	
	52:24 in January of of '99, this group of Monsanto	
	52:25 toxicologists are once again stating that because	
	53:1 it's a standard has more standard endpoints, the	
	53:2 Lioi presents an even bigger problem for Monsanto; is	
	53:3 that correct?	
53:5 - 53:7	53:4 A. That is correct.	Martens.52
00.0 - 00.7	Martens, Mark 04-07-2017 (00:00:09)	Marteris.32
	53:5 Q. Okay. If we then move on to the	
	53:6 beginning, because, remember, we've got to go	
53:15 - 53:17	53:7 backwards on this.	Martens.53
00.10 - 00.17	Martens, Mark 04-07-2017 (00:00:13)	MARTENS9-3.4
	53:15 Q. Okay. So in response to Dr. Farmer	MATTEROS 0.4
	53:16 writing these notes, you respond, correct?	
54:12 - 54:13	53:17 A. That's what I see, yes.	Martens.54
04.12 - 04.10	Martens, Mark 04-07-2017 (00:00:04)	marteris.04
	54:12 Q. It said that you were in agreement with	
54:16 - 54:17	54:13 the discussion that you had in St. Louis, correct?	Martens.55
04.10 - 04.17	Martens, Mark 04-07-2017 (00:00:02)	Marterio.00
	54:16 THE WITNESS: Yeah, it was reflecting the	
54:19 - 55:10	54:17 meeting. Martona Mark 04 07 2017 (00:00:41)	Martens.56
04.19 - 00.10	Martens, Mark 04-07-2017 (00:00:41)	Marteris.00
	54:19 Q. And then you also told the	
	54:20 group that in the meantime you contacted Dr. Parry,	
	54:21 and a letter of authorization with his papers with	
	54:22 the papers is underway to him, correct?	
	54:23 A. Mm-hmm. Yes, that is what it says.	
	54:24 Q. Okay. So you were acting on the	
	54:25 decisions that had been made at that meeting,	
	55:1 correct? 55:2 A. Yes.	
	55:3 Q. Okay. Oh, and it said that I forgot	
	55:4 an important part it said a report is expected by	

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	55:5 mid-February. 55:6 So we're now sitting here in January 55:7 of of 28th, and so you're telling the group 55:8 that Dr. Parry will have his report within a few 55:9 weeks, correct? 55:10 A. That's what it says, yes.	
57:12 - 58:1	Martens, Mark 04-07-2017 (00:00:34)	Martens.57
	57:12 Q. All right. So, here we are two weeks	
	57:13 later, and this is a fax sent on February 15th	MARTENS9-4.1
	57:14 because in Europe you put the month and date opposite	
	57:15 of us, correct?	
	57:16 A. Yes.	
	57:17 Q 1999, and it's a fax from you, from	
	57:18 Dr. Mark Martens, and the subject is "Dr. Parry's	
	57:19 Report," correct?	
	57:20 A. Correct.	
	57:21 Q. And you are sending it to Alan Wilson,	
	57:22 Donna Farmer and Bill Heydens, correct?	
	57:23 A. Correct.	
	57:24 Q. So you're sending it to everyone that was	
	57:25 at that meeting a few weeks earlier.	
	58:1 A. Yes.	
58:3 - 58: 1 5	Martens, Mark 04-07-2017 (00:00:35)	Martens.58
	58:3 And you say: "Dear Alan, Donna and Bill:	
	58:4 Please find herewith Professor Parry's evaluation of	
	58:5 the four papers." Correct?	
	58:6 A. Yes.	
	58:7 Q. And what were those four papers?	
	58:8 A. That was the Lioi paper, the Peluso	
	58:9 paper, the Bolognesi and the Rank paper.	
	58:10 Q. Okay. And you said you sent him on	
	58:11 genotoxicity of glyphosate and Roundup, correct?	
	58:12 A. Yes.	
	58:13 Q. Okay. And you're asking for comments and	
	58:14 guidance on what to do next, correct?	
	58:15 A. Yes.	
58:19 - 59:3	Martens, Mark 04-07-2017 (00:00:30)	Martens.59
	58:19 Q. Okay. And so the next page of this	MARTENS9-4.2
	58:20 document appears to be a cover sheet from Dr. Parry	
	58:21 to you. Correct?	

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	58:22 A. Yes. 58:23 Q. Okay. Professor James M. Parry. Where 58:24 was he a professor?	
	58:25 A. At Swansea university in the U.K.	
	59:1 Q. Okay. And he wrote you this on	
	59:2 February 11th, 1999, to Dr. Martens, correct? 59:3 A. Yes.	
60:9 - 60:22	Martens, Mark 04-07-2017 (00:00:33)	Martens.60
	60:9 Q. Okay. And he goes through the papers	
	60:10 that Monsanto asked him to review, correct?	MARTENS9-4.5
	60:11 A. Yes.	WARTENS9-4.5
	60:12 Q. Okay. And the first one is the Rank, 60:13 et al., paper and that was in 1993, right?	
	60:14 A. Right.	
	60:15 Q. Okay. And this is a Roundup mixture that	
	60:16 was tested, correct?	
	60:17 A. Yes.	
	60:18 Q. Okay. And the conclusion that Dr. Parry 60:19 found was that: "In vitro evidence of genotoxic	
	60:20 effect for Roundup mixtures inadequate in vivo	
	60:21 studies."	
	60:22 So tell me what "in vitro" means.	
61:6 - 61:18	Martens, Mark 04-07-2017 (00:00:30)	Martens.61
	61:6 A. In vitro testing occurs normally with	
	61:7 cells or bacteria or tissues in culture. So that 61:8 means literally in vitro, you know, either in petri	
	61:9 dishes or in culture dishes.	
	61:10 Q. Okay. And that's an accepted method of	
	61:11 conducting studies, correct?	
	61:12 A. Yes.	
	61:13 Q. Okay. In toxicology that's very 61:14 accepted?	
	61:15 A. Yes.	
	61:16 Q. Okay. And so Dr. Parry's conclusion was:	
	61:17 "In vitro evidence of genotoxic effect for Roundup	
C4-04 C0-F	61:18 mixture," right?	Martana 60
61:24 - 62:5	Martens, Mark 04-07-2017 (00:00:18)	Martens.62
	61:24 Q. That was the conclusion that Dr. Parry 61:25 came to?	
	62:1 A. That was his conclusion, yes. Mm-hmm.	
	**	

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	62:2 Q. Okay. And then next we looked at the	
	62:3 one of the Italian papers, which is Bolognesi, and	MADTENSO 4 6
	62:4 that was from a couple of years later in 1997, right?	MARTENS9-4.6
22.12. 20.12	62:5 A. Yes.	Martana CO
62:13 - 62:16	Martens, Mark 04-07-2017 (00:00:10)	Martens.63
	62:13 And his conclusions were Dr. Parry found	
	62:14 a positive response in vitro SCE for both compounds.	
	62:15 And the both compounds being glyphosate	
	62:16 and Roundup, correct?	
62:20 - 62:20	Martens, Mark 04-07-2017 (00:00:01)	Martens.64
	62:20 THE WITNESS: Yes.	
62:22 - 63:8	Martens, Mark 04-07-2017 (00:00:25)	Martens.65
	62:22 Q. Okay. So in in the Bolognesi test,	
	62:23 the authors were studying both glyphosate and	
	62:24 Roundup, correct?	
	62:25 A. That's correct.	
	63:1 Q. Okay. So when Dr. Parry is talking in	
	63:2 his conclusions about, quote, both compounds, he's	
	63:3 referencing glyphosate and Roundup, correct?	
	63:4 A. Yes.	
	63:5 Q. Okay. So Dr. Parry Dr. Parry	
	63:6 concluded that there was a positive response in vitro	
	63:7 SCE for both glyphosate and Roundup, correct?	
	63:8 A. That's what it says.	
63:15 - 63:17	Martens, Mark 04-07-2017 (00:00:08)	Martens.66
	63:15 Q. And SCE is another marker looking at the	
	63:16 structure of genetic material, correct?	
	63:17 A. That is sister chromatid exchanges.	
63:18 - 63:23	Martens, Mark 04-07-2017 (00:00:14)	Martens.67
	63:18 Q. Okay. And it	
	63:19 A. This is an indicator top of test of which	
	63:20 the biological mechanism is unknown and with some	
	63:21 kind of experimental endpoint which was not accepted	
	63:22 by regulatory authorities for assessment of	
64:7 - 64:10	63:23 genotoxicity. Martona, Mark 04:07:2017 (00:00:07)	Martens.68
04.7 - 04.10	Martens, Mark 04-07-2017 (00:00:07)	martorio.co
	64:7 Q. Dr. Parry concluded that the response was	
	64:8 at ten times lower concentration for Roundup mixture,	
	64:9 correct?	
	64:10 A. That's what he said, yes.	

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65:3 - 65:14	Martana Marila 04 07 0047 (00 00 00)	Martens.69
00.3 - 00.14	Martens, Mark 04-07-2017 (00:00:32)	Warteris.09
	65:3 Q. Dr. Parry concluded that both glyphosate	
	65:4 and Roundup mixture produced an increase in DNA	
	65:5 strand breaks in mouse liver and kidney, correct?	
	65:6 A. That's what he says, yes.	
	65:7 Q. Okay. And next he found that glyphosate	
	65:8 increased 8-OHdG in mouse liver, which is a marker of	
	65:9 oxidative stress, correct?	
	65:10 A. Yes.	
	65:11 Q. Okay. And then he found that the Roundup 65:12 mixture increased O dash or 8-OHdG in mouse liver	
	65:13 and kidney, correct?	
65:20 - 66:21	65:14 A. Yes. Martens, Mark 04-07-2017 (00:01:05)	Martens.70
00.20 00.21	65:20 Q. So he concluded oxidative stress	martorio.
	65:21 Dr. Parry concluded oxidative stress with respect to	
	65:22 glyphosate and with respect to Roundup, correct?	
	65:23 A. Yes, that was what he concluded, yes.	
	65:24 Q. Okay. And this was in 1999, correct? 65:25 A. Yes.	
		MARTENS9-4.7
	66:1 Q. Okay. Next we're moving to the Peluso	
	66:2 paper, which was one of the Italian papers we 66:3 discussed, and we talk about the conclusion that	
	66:4 Dr. Parry found for the Peluso paper. And that is	
	66:5 that Roundup mixture produced an increase in DNA	
	66:6 adducts in the mouse liver and kidney, correct?	
	66:7 A. Yes, that was what he concluded.	
	66:8 Q. Okay. And then let's move over to	
	66:9 A. May I may I say	
	66:10 Q. Sure.	
	66:11 A something?	
	66:12 He also concluded that there was no	
	66:13 increase in the production of DNA adducts in the	
	66:14 presence of glyphosate.	
	66:15 Q. Sure.	
	66:16 A. And that's important.	
	66:17 Q. That's fair. Okay. Sure.	
	66:18 So so what you're saying is that he	
	66:19 he determined that with glyphosate there wasn't, but	
	66:20 with Roundup mixture there was?	
	55.25 With Flouridap Mixturo thoro was:	

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66:23 - 66:23	66:21 A. Yes. Martona Mark 04:07:2017 (00:00:05)	Martens.71
00.20 - 00.20	Martens, Mark 04-07-2017 (00:00:05)	marteris.71
66:24 - 67:4	66:23 Next if we turn to the Lioi 1998 paper, Martens, Mark 04-07-2017 (00:00:22)	Martens.72
00.21 07.1	66:24 and if you turn the page to 00 and you look at	
	66:25 conclusions there, it looks that Dr. Parry found	MARTENS9-4.8
	67:1 or Dr. Parry concluded that there was an increase in	
	67:2 the chromatid aberrations of SCE following glyphosate	
	67:3 exposure, correct?	
	67:4 A. That is what he concluded, yes.	
67:5 - 67:11	Martens, Mark 04-07-2017 (00:00:25)	Martens.73
	67:5 Q. Okay. Now if you turn to 01, we're	
	67:6 talking about his conclusions still, and he found	MARTENS9-4.9
	67:7 Dr. Parry found sister chromatid exchanges induced in	
	67:8 human lymphocytes by both glyphosate and Roundup	
	67:9 mixture, correct?	
	67:10 A. That's what he found that's what he	
	67:11 concluded, yes.	
67:13 - 67:23	Martens, Mark 04-07-2017 (00:00:25)	Martens.74
	67:13 And he also concluded that the Roundup	
	67:14 mixture produced a positive result at a lower	
	67:15 concentration, correct?	
	67:16 A. That is what he concluded, yes.	
	67:17 Q. So Dr. Parry concluded that the Roundup	
	67:18 mixture and the glyphosate alone would often produce	
	67:19 different results, correct?	
	67:20 A. That indeed, yes.	
	67:21 Q. Okay. And this was back in 1999 that	
	67:22 this was concluded, correct?	
	67:23 A. Yes.	
68:15 - 68:23	Martens, Mark 04-07-2017 (00:00:17)	Martens.75
	68:15 Q. And would you tell the jury, please, what	
	68:16 "in vivo" means.	
	68:17 A. In vivo means that an experiment is	
	68:18 carried out in live animals.	
	68:19 Q. Okay.	
	68:20 A. In whole organisms.	
	68:21 Q. Okay. And in vivo is an accepted method	
	68:22 of testing in toxicology, correct?	MARTENS9- 4.10
	68:23 A. Yes.	7.10

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69:2 - 69:8	Martens, Mark 04-07-2017 (00:00:21)	Martens.76
	69:2 Q. So if we are looking at his at	
	69:3 Dr. Parry's conclusions about in vivo studies, he	
	69:4 states: "Both glyphosate and Roundup mixture	
	69:5 produced positive results in the mouse bone marrow	
	69:6 micronucleus assay," and then he cites a study that	
	69:7 he has pulled that conclusion from, correct?	
	69:8 A. That's the Bolognesi study.	
69:11 - 71:1	Martens, Mark 04-07-2017 (00:01:17)	Martens.77
	69:11 Q. Then he if you go down to the next	
	69:12 paragraph, it says: "The data of Bolognesi indicate	
	69:13 that glyphosate is a probable in vivo genotoxin."	
	69:14 Correct?	
	69:15 A. That is his conclusion.	
	69:16 Q. Correct. This is Dr. Parry's conclusion.	
	69:17 A. Yes.	
	69:18 Q. So Dr. Parry's conclusion in 1999 is that	
	69:19 the data of the Bolognesi indicate that glyphosate is	
	69:20 a probable in vivo genotoxin, correct?	
	69:21 A. What he wanted meant to what he	
	69:22 meant to say is a potential.	
	69:23 Q. Well, he didn't say "potential," did he?	
	69:24 A. No, no. Well, but that's a question of	
	69:25 wording; just to make sure that people understand it	
	70:1 right, that is a potential genotoxin. 70:2 Q. All right. Well, we'll never know if	
	70.2 Q. All right. Well, we'll never know if	
	70:4 to tell us that	
	70.5 A. Exactly, mm-hmm.	
	70:6 Q and he he was scientists are	
	70:7 precise, correct?	
	70:8 A. He was a scientist, yes.	
	70:9 Q. And scientists when you're a	
	70:10 scientist, you need to be precise with your words,	
	70:11 correct?	
	70:12 A. Well, not in evaluative words. There may	
	70:12 7t. Wolf, not in ovalidative words. There may	
	70:14 Q. Okay. But Dr. Parry chose not to put in	
	70:15 the word "potential," correct?	
	70:16 A. He may have chosen as well "potential."	
	,	

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	70:17 Q. Did you take out the word "potential"? 70:18 A. No. 70:19 Q. This is the form that the this is the 70:20 form that it came in 70:21 A. Oh, yeah. 70:22 Q and he did not put "potential," did 70:23 he? 70:24 A. No, no. He put the words as he put it. 70:25 Q. Okay.	
	71:1 A. So we cannot change it.	
71:25 - 73:3	Martens, Mark 04-07-2017 (00:01:14)	Martens.78
	71:25 Q. Okay. Next page, if you go to 03, it 72:1 says: "The overall" are you there? 72:2 A. Yeah. 72:3 Q. Okay. "The overall data provided by the 72:4 four publications produce evidence to support a model 72:5 that glyphosate is capable of producing genotoxicity, 72:6 both in vivo and in vitro, by a mechanism based upon 72:7 the production of oxidative damage." 72:8 Is that Dr. Parry's conclusion in 1999? 72:9 A. Yes. 72:10 Q. That was given to Monsanto, correct? 72:11 A. Yes. 72:12 Q. Okay. And the question raised by these 72:13 studies are that the this is what Dr. Parry is 72:14 telling you and some of your toxicology expert 72:15 colleagues, correct? 72:16 A. Mm-hmm. 72:17 Q. Is that the role of components of mixture 72:18 which leads to high levels of activity of Roundup, he 72:19 is questioning the genotoxic activity observed due to 72:20 oxidative damage, correct? And the genotoxic and 72:21 can that activity be reduced by anti antioxidants, 72:22 correct?	MARTENS9- 4.11
	72:23 A. Yes. 72:24 Q. So his recommendations and questions were 72:25 kind of similar to what you said earlier was that 73:1 these studies raised new questions that needed to be 73:2 studied, correct? 73:3 A. Yes, that's correct.	

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Page/Line	Source	ID
73:4 - 73:6	Martens, Mark 04-07-2017 (00:00:03)	Martens.79
	73:4 Q. So you were in agreement with Dr. Parry	
	73:5 that that's sort of what needed to happen, correct?	
	73:6 A. Right. Can I point	
73:9 - 73:22	Martens, Mark 04-07-2017 (00:00:18)	Martens.80
	73:9 THE WITNESS: Can I point to a sentence	
	73:10 which is important	
	73:11 BY MS. WAGSTAFF:	
	73:12 Q. Sure.	
	73:13 A which you didn't mention?	
	73:14 Q. Sure.	
	73:15 A. That he said you know, after you	
	73:16 mentioned the sentence: "Based upon production of	
	73:17 oxidative damage"	
	73:18 Q. Yeah.	
	73:19 A he said, "If confirmed."	
	73:20 Q. Mm-hmm.	
	73:21 A. So that means that he has a hypothetical	
	73:22 conclusion and he was seeking confirmation.	
73:25 - 74:9	Martens, Mark 04-07-2017 (00:00:11)	Martens.81
	73:25 Q. Doctor, that's fair, because and	
	74:1 that's confirmed when it says raised questions	
	74:2 raised by the study	
	74:3 A. Mm-hmm. Right.	
	74:4 Q he is saying that there is more	
	74:5 questions and more tests that need to be done, which	
	74:6 is what you had said when we started	
	74:7 A. Yes.	
	74:8 Q talking about this, correct?	
	74:9 A. That's correct.	
74:10 - 74:24	Martens, Mark 04-07-2017 (00:00:58)	Martens.82
	74:10 Q. So you were in agreement with Dr. Parry?	
	74:11 A. Yes. In that sense, yes.	
	74:12 Q. Okay. All right. And in fact, if you	
	74:13 turn to 04, which is the next page, this paper is	MARTENS9-
	74:14 signed by Dr. Parry.	4.12
	74:15 And actually, B, Dr. Parry recommends	
	74:16 that there be tests to determine if he recommends	
	74:17 that there is an assessment of the individual	
	74:18 components of Roundup mixture to determine whether	
	The sempending of the semantic to determine mounts	

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	74:19 there is any components which act synergistically to 74:20 increase the potential genotoxicity of glyphosate. 74:21 So let's unpack that sentence a little 74:22 bit since you're an expert in toxicology. Can you 74:23 explain to me what it means when components act	
	74:24 synergistically?	
74:25 - 75:7	Martens, Mark 04-07-2017 (00:00:12)	Martens.83
	74:25 A. When components act this is a	
	75:1 hypothesis	
	75:2 Q. Yeah, yeah.	
	75:3 A put forward by Dr. Parry.	
	75:4 Q. I just want to know what synergistic	
	75:5 A. Yes. That means that one component is	
	75:6 over inclined to strengthen the toxicological	
75:23 - 77:3	75:7 effect of another component of the synergism.	Martens.84
70.20 - 77.0	Martens, Mark 04-07-2017 (00:01:06)	marteris.04
	75:23 Q. And I'm asking we're talking	
	75:24 hypothetically still. I'm not asking you what 75:25 Dr. Parry meant because we can all read the same	
	75.25 Dr. Farry meant because we can all read the same 76:1 words on the paper. I'm saying	
	76:1 Words on the paper. Thi saying 76:2 A. Well, I give you an example	
	76:3 Q. Okay.	
	76:4 A just to clarify.	
	76:5 A. synergistic effect may be, for example,	
	76:6 if a co-formulant produces an inflammatory process,	
	76:7 that inflammatory process produces free oxygen	
	76:8 radicals. If there is a slight synergism with the	
	76:9 other component, then you may have some kind of a	
	76:10 combined effect that may be more prominent than the	
	76:11 effects caused separately.	
	76:12 Q. Okay. That makes sense.	
	76:13 And so Dr. Parry is suggesting an	
	76:14 assessment of the individual components of the	
	76:15 Roundup mixture, which you have already told me are	
	76:16 the active ingredient, which is glyphosate and some	
	76:17 surfactants, correct?	
	76:18 A. Yes, that's correct.	
	76:19 Q. Okay. So he's he's saying assess	
	76:20 those components to see if they act synergistically	
	76:21 when they are together, correct?	

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	Martens-As Played at Pilliod	
Page/Line	Source	ID
	70:00 A Direkt Voc	clear
	76:22 A. Right. Yes.	Clear
	76:23 Q. All right. And and this is a these	
	76:24 are all conclusions and recommendations that were	
	76:25 sent to Monsanto toxicologists in February of 1999,	
	77:1 correct?	
	77:2 A. Yes.	
77:9 - 77:10	77:3 Q. Okay.	Martens.85
77.9 - 77.10	Martens, Mark 04-07-2017 (00:00:02)	Marteris.00
	77:9 THE WITNESS: Can I can I can I	
77:15 - 77:24	77:10 just say something?	Martens.86
77.10 - 77.24	Martens, Mark 04-07-2017 (00:00:13)	Marteris.00
	77:15 Q. Okay. All right.	
	77:16 A. There is something that is very important	
	77:17 to mention	
	77:18 Q. Uh-huh.	
	77:19 A also in in the report of Dr. Parry	
	77:20 is that he also lists the flaws of the studies that	
	77:21 they've been published. So	
	77:22 Q. Sure.	
	77:23 A. Okay. So it's important you are aware of	
79:2 - 79:13	77:24 this.	Martens.87
79.2 - 79.13	Martens, Mark 04-07-2017 (00:00:43)	MARTENS9-5.1
	79:2 Q. And it it was February 15th of 1999,	WATTENOS-0.1
	79:3 and so here what I have marked as Exhibit 5 is an	
	79:4 e-mail from Dr. Donna Farmer. If you look at the	MARTENS9-5.2
	79:5 page that starts with 06 is the e-mail cascade. And	WANTENS9-0.2
	79:6 it is although it is written on April 19th, Donna	
	79:7 Farmer states that these are the meeting minutes from	
	79:8 February 25th, correct?	
	79:9 A. Yes.	
	79:10 Q. Okay. So this is actually a meeting that	
	79:11 occurred ten days after Dr. Parry had and you had	
	79:12 circulated the Parry report, correct?	
80:3 - 80:20	79:13 A. Correct.	Martens.88
00.0 - 00.20	Martens, Mark 04-07-2017 (00:00:57)	Marteris.co
	80:3 Q. So you guys have now had this report for	
	80:4 about ten days, and you are meeting to discuss the	MARTENS9-5.3
	80:5 next step, correct?	WALLENGS-0.5
	80:6 A. Yes.	
	80:7 Q. Okay. And Dr. Farmer reiterates to you	

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	80:8 all that: "Dr. Parry concluded on his evaluation of	
	80:9 the four articles that glyphosate is capable of	
	80:10 producing genotoxicity, both in vivo and in vitro, by	
	80:11 a mechanize by a mechanism based upon the	
	80:12 production of oxidative damage." Correct?	
	80:13 A. That's correct.	
	80:14 Q. Okay. And we had talked about that	
	80:15 before. And that evaluation was based on material	
	80:16 that you all had provided Dr. Parry, correct?	
	80:17 A. Yes.	
	80:18 Q. Okay. And was Dr. Farmer and was the	
	80:19 group of people that met happy with Dr. Parry's	
80:22 - 80:22	80:20 report?	Martens.89
60.22 - 60.22	Martens, Mark 04-07-2017 (00:00:01)	Waiteris.09
82:15 - 83:14	80:22 THE WITNESS: No.	Martens.90
02.10 - 03.14	Martens, Mark 04-07-2017 (00:01:03)	Waiteris.50
	82:15 Q. All right. So moving on, Dr. Farmer	
	82:16 continues to say: "As a follow-up, Mark will contact	
	82:17 Dr. Parry, discuss with him the existence of	
	82:18 additional data, and ask him to evaluate the full	
	82:19 package."	
	82:20 Mark is you, correct? 82:21 A. Yes.	
	82:22 Q. Mark is Dr. Mark Martens. Okay.	
	82:23 "Mark will also explore his interests,"	
	82:24 meaning Dr. Parry's interests, parentheses, "if we	
	82:25 can turn his opinion around, in being a spokesperson	
	83:1 for us on these types of issues." Correct?	
	83:2 A. That's correct.	
	83:3 Q. Okay. So, Dr. Martens, you were tasked	
	83:4 with following up with Dr. Parry and getting him	
	83:5 additional data to see if you could turn his opinion	
	83:6 around, correct?	
	83:7 A. I will rephrase that. It was actually	
	83:8 providing, you know, supplementary data so that he	
	83:9 could put that in his findings into a context of the	
	83:10 existing data.	
	83:11 Q. Right. And turn his opinion around,	
	83:12 correct? It's the words that Donna Farmer used, not	
	83:13 me.	

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Page/Line	Source	ID
05:0 05:0	83:14 A. These are the words of Donna Farmer.	Markers 04
85:2 - 85:3	Martens, Mark 04-07-2017 (00:00:04)	Martens.91
	85:2 MS. WAGSTAFF: This is going to be marked	MARTENS9-6.1
85:12 - 85:15	85:3 as Exhibit 6.	Martens.92
00.12 - 00.10	Martens, Mark 04-07-2017 (00:00:10)	Waltelis.92
	85:12 Q. Okay. So were you aware that the	
	85:13 toxicologists that were in the United States thought	
	85:14 that you did not do a good job with Dr. Parry?	
85:18 - 85:21	85:15 A. No.	Martens.93
00.10 - 00.21	Martens, Mark 04-07-2017 (00:00:07)	Waiteris.93
	85:18 Q. Okay. Were you aware that they no longer	
	85:19 wanted you to be the one interacting with Dr. Parry	
	85:20 after his report came out?	
86:1 - 86:19	85:21 A. No.	Martens.94
00.1 - 00.19	Martens, Mark 04-07-2017 (00:00:54)	MARTENS9-6.2
	86:1 Who is Stephen Wratten?	MATTENOS C.E
	86:2 A. Stephen Wratten was a a product	
	86:3 registration manager in the United States.	
	86:4 Q. Okay.	
	86:5 A. In charge of glyphosate.	
	86:6 Q. Okay. And so Steve Wratten writes an	
	86:7 e-mail on October 31st, 1999, which is a few months 86:8 after Dr. Parry had given you his report, correct?	
	86:9 A. Yes.	
	86:10 Q. And he writes an e-mail, and it's called	
	86:11 "Comments on Parry write-up," and he writes the	
	86:12 e-mail to you, to Donna Farmer, to Dr. Larry Kier,	
	86:13 who we talked about.	
	86:14 A. Mm-hmm.	
	86:15 Q. We talked about Will Bill Heydens, and	
	86:16 then who's who's William Graham?	
	86:17 A. Graham, William, is was the the	
	86:18 glyphosate product registration manager for Europe,	
	86:19 Africa.	
87:6 - 87:21	Martens, Mark 04-07-2017 (00:00:42)	Martens.95
	87:6 So Dr. Wratten writes to Mark, that's	
	87:7 you, and Donna, which is Dr. Farmer, and says	
	87:8 talking about comments on the Parry write-up: "I was	
	87:9 somewhat disappointed in the Parry report."	
	87:10 Do you see that?	
	or to be you doe that.	

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		,
	87:11 A. Yes.	
	87:12 Q. Okay. And Dr. Wratten says: "Not	
	87:13 particularly with his conclusions but just the way	
	87:14 that they're presented." Correct?	
	87:15 A. Yes, I see that.	
	87:16 Q. Okay. And then he goes on to provide	
	87:17 one, two, three, four, five, six, seven, eight	
	87:18 eight suggestions on how he can improve his report;	
	87:19 is that correct?	
	87:20 A. Well, these were comments. I see them as	
88:2 - 88:7	87:21 comments.	Martens.96
00.2 - 00.7	Martens, Mark 04-07-2017 (00:00:12)	Marteris.30
	88:2 Okay. So so Dr. Wratten writes that	
	88:3 he's not particularly disappointed in the conclusions	
	88:4 but just the way they're presented, and he gives	
	88:5 eight comments on how to improve the Parry report,	
	88:6 correct?	
00.0 00.40	88:7 A. To some extent, yes.	Martens.97
88:8 - 88:13	Martens, Mark 04-07-2017 (00:00:23)	MARTENS9-6.3
	88:8 Q. Okay. And then at the very end, Steve	WARTENS9-0.3
	88:9 Wratten writes, and still talking about the Parry	
	88:10 report: "I do not see that he has stuck his neck out	
	88:11 at anything at all controversial, and therefore there	
	88:12 is little value in the write-up as written that could	
00.45 00.7	88:13 be useful. Hope it didn't cost much."	Martens.98
88:15 - 89:7	Martens, Mark 04-07-2017 (00:01:00)	Martens.96
	88:15 "Perhaps this is too harsh, and I don't	
	88:16 know what your proposal to him was, but I would	
	88:17 but I guess I would expect more than this of a	
	88:18 professor." Correct?	
	88:19 A. That's what he said, yes.	
	88:20 Q. Okay. And did that upset you receiving	
	88:21 that e-mail?	
	88:22 A. Not really.	
	88:23 Q. No.	
	88:24 A. Because I was also a little bit	MADTENEO 6 0
	88:25 disappointed about the form of the report.	MARTENS9-6.2
	89:1 Q. Okay. So he also asks you and Dr. Farmer	
	89:2 if Dr. Parry has ever worked with industry before on	
	89:3 this sort of project, correct?	

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	89:4 A. That that's what we can read, yes.	
	89:5 Q. Okay. And so he sends this to Donna	MARTENOO C 4
	89:6 Farmer then forwards the e-mail to Alan Wilson.	MARTENS9-6.1
00.44 00.47	89:7 A. Yes, that's what I see.	Martana
89:11 - 89:17	Martens, Mark 04-07-2017 (00:00:19)	Martens.99
	89:11 Q. Okay. And Alan Wilson writes back to	
	89:12 Dr. Farmer and says: "Two options: We work closely	
	89:13 with Parry, someone other than Mark, or we get	
	89:14 someone else."	
	89:15 So basically take Mark off the job or we	
	89:16 use someone other than Dr. Parry, correct?	
00:04 00:4	89:17 A. That's what I read.	Masters 100
89:24 - 90:4	Martens, Mark 04-07-2017 (00:00:20)	Martens.100
	89:24 Q. Okay. And so then Donna Farmer responds	
	89:25 to Alan Wilson's suggestions and says: "One option:	
	90:1 I agree we need someone else to interfere	
	90:2 interface with Parry."	
	90:3 Meaning she agrees that that you	
	90:4 should be off the job. Correct?	
90:7 - 90:8	Martens, Mark 04-07-2017 (00:00:02)	Martens.101
	90:7 THE WITNESS: That is what appears from	
	90:8 that.	
90:10 - 90:17	Martens, Mark 04-07-2017 (00:00:15)	Martens.102
	90:10 Q. Okay. "Right now the only person I think	
	90:11 that can dig us out of this genotox hole is the good	
	90:12 Dr. Kier."	
	90:13 And that's Dr. Larry Kier?	
	90:14 A. Yes.	
	90:15 Q. And that's the Monsanto long-term	
	90:16 Monsanto toxicologist, right?	
	90:17 A. Yes. Yes. Genotoxicologist.	
90:19 - 91:2	Martens, Mark 04-07-2017 (00:00:21)	Martens.103
	90:19 And Dr. Farmer goes on to say that she's	
	90:20 concerned about leaving the report out there as the	
	90:21 final project with his final impressions, correct?	
	90:22 A. That's what I read.	
	90:23 Q. Okay. So she doesn't it looks like	
	90:24 she doesn't want to just ignore the project, she	
	90:25 wants to make sure it gets cleaned up so it's not the	
	91:1 final project, right?	

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91:14 - 91:21	91:2 A. That's what I read.	Martens.104
91.14 - 91.21	Martens, Mark 04-07-2017 (00:00:21)	Marteris. 104
	91:14 Q. All right. And then Alan writes back to	
	91:15 Donna, Dr. Farmer, and says: "If Larry has the time,	
	91:16 that would be great, but we need to be careful we	
	91:17 don't get into another Cantox situation that could	
	91:18 take some word take some time wordsmithing and	
	91:19 reaching consensus."	
	91:20 Do you know what that means?	
91:22 - 91:25	91:21 A. I have no idea. Martens, Mark 04-07-2017 (00:00:09)	Martens.105
01.22 01.20	·	
	91:22 Q. And then says: "Maybe you should invite	
	91:23 Parry to St. Louis to get him more familiarized with	
	91:24 the complete database." Correct? 91:25 A. That's what I read.	
92:6 - 92:9		Martens 100
92.0 - 92.9	Martens, Mark 04-07-2017 (00:00:10)	martono. 100
	92:6 Q. Two two two toxicologists from the	
	92:7 United States have said that you should be pulled off	
	92:8 the project, and then they're inviting the European	clear
92:12 - 92:12	92:9 expert to St. Louis and not inviting you, are they?	Martens.107
92.12 - 92.12	Martens, Mark 04-07-2017 (00:00:01)	martono. 107
92:22 - 92:23	92:12 THE WITNESS: That is a possibility.	Martens.108
92.22 - 92.20	Martens, Mark 04-07-2017 (00:00:09)	martono. 100
	92:22 Q. All right. And then our next exhibit	MARTENS9-7.1
92:24 - 93:2	92:23 will be Exhibit 7. Martens, Mark 04-07-2017 (00:00:17)	Martens.100
02.24 00.2		
	92:24 This is the same e-mail that Dr. Wratten	
	92:25 wrote to you and Donna that we were just looking at,	
	93:1 to you and Dr. Farmer, and you have interplaced your	
93:21 - 94:16	93:2 responses in italics. Martona Mark 04-07-2017 (00:01:01)	Martens.110
00.21 04.10	Martens, Mark 04-07-2017 (00:01:01)	
	93:21 Q. How many reports did Dr. Parry write for 93:22 Monsanto?	
	93:23 A. I think he wrote there was three	
	93:24 reports.	
	93:25 Q. Okay.	
	94:1 A. Yeah. And the first report was only	
	94:2 evaluating the four publications that I had sent to	
	94:3 him that had problematic results. 94:4 And then afterwards I learned ^ Check to	
	94.4 And then alterwards Heathed " Check to	

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r age/Line	94:5 put everything into a nice context and to see whether 94:6 there is concordance in results with other toxicology 94:7 tests. I sent him a whole battery of of test 94:8 reports which have been as well, you know, produced 94:9 upon commission by Monsanto but also from some other 94:10 companies, to allow him to put it into context. So 94:11 he evaluated all these reports, and there is in the 94:12 report. 94:13 And there is a third notice that he 94:14 produced as well as a follow-up of that report on the 94:15 evaluation of all the toxicology studies in	
95:2 - 95:10	94:16 combination. Martens, Mark 04-07-2017 (00:00:22) 95:2 Q. Okay. So you received this e-mail from 95:3 Dr. Wratten on September 1st of 1999 where he's 95:4 talking about how he is disappointed not in the 95:5 conclusions but in the way they were presented, 95:6 correct? 95:7 A. Mm-hmm. 95:8 Q. And you write back some remarks to 95:9 Dr. Wratten within his e-mail, correct?	Martens.111
95:11 - 95:23	Martens, Mark 04-07-2017 (00:00:32) 95:11 Q. Okay. And the bottom line is you say to 95:12 him, you say to Dr. Wratten: "Please don't be too 95:13 negative. It is clear he will need some help to 95:14 produce a definitive report without twisting his 95:15 arms. Don't forget that his opinion is well 95:16 respected, and I am sure he didn't have the time to 95:17 write it all down as should have been the case; 95:18 therefore, the need to meet with him." Correct? 95:19 A. Yes. 95:20 Q. So you still believed in Dr. Parry and 95:21 this was your work in generating this report, 95:22 correct? 95:23 A. Yes.	Martens.112 MARTENS9-7.2
96:3 - 96:11	Martens, Mark 04-07-2017 (00:00:20) 96:3 Q. Okay. And then you look at the response 96:4 that you wrote to the entire group where you say 96:5 that: "We can now determine for ourselves how such	Martens.113 MARTENS9-7.1

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	96:6 report should look like and give him directions for a	
	96:7 rewrite."	
	96:8 So you were going to go to Dr. Parry and	
	96:9 give him directions for a rewrite of his report,	
	96:10 correct?	
96:12 - 96:14	96:11 A. Yep.	Martens.114
90.12 - 90.14	Martens, Mark 04-07-2017 (00:00:04)	martons.114
	96:12 Q. Okay.	
	96:13 A. These were directions for the form of the	
97:3 - 97:7	96:14 report, not of the content of the report. Martone Mark 04 07 2017 (00:00:12)	Martens.115
07.0 07.7	Martens, Mark 04-07-2017 (00:00:12)	MARTENS9-8.1
	97:3 This is a report by Dr. James M. Parry, correct?	mair area of
	97:4 A. Yes.	
	97:5 Q. This is the same Parry that wrote the	
	97:6 February 1999 report. 97:7 A. Yes.	
97:9 - 97:23	Martens, Mark 04-07-2017 (00:00:31)	Martens.110
07.0 07.20	97:9 And this is the "Evaluation of the	
	97:10 potential genotoxicity of glyphosate, glyphosate	
	97:11 mixtures in component surfactants," correct?	
	97:12 A. Yes.	
	97:13 Q. So it's the same subject matter area,	
	97:14 right?	
	97:15 A. Yes.	
	97:16 Q. And this is the area you have previously	
	97:17 testified that Dr. Parry is an expert, right?	
	97:18 A. Yes.	
	97:19 Q. Okay. And you had mentioned a few	
	97:20 moments ago that you gave Dr. Parry a host of	
	97:21 information to review, and it looks like this table	
	97:22 is what the information you gave him, correct?	
	97:23 A. Correct.	
98:10 - 98:16	Martens, Mark 04-07-2017 (00:00:33)	Martens.117
	98:10 Q that ends we're going to go to the	
	98:11 one that ends 37, 237, please. Where it says that:	MARTENS9-8.5
	98:12 "The evaluation is that these studies provide some	
	98:13 evidence that glyphosate may be capable of inducing	
	98:14 oxidative damage under both in vitro and in vivo	
	98:15 conditions."	
	98:16 That was his evaluation, correct?	
		1

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98:21 - 98:21	Martona Mark 04 07 0017 (00:00:01)	Martens.118
90.21 - 90.21	Martens, Mark 04-07-2017 (00:00:01)	martono. 110
98:25 - 99:1	98:21 A. That is what's in the report. Yes. Martens, Mark 04-07-2017 (00:00:04)	Martens.110
00.20 00.1	98:25 Q. Okay. And this is consistent with his	
	99:1 February of 1999 conclusion, correct?	
99:2 - 99:15	Martens, Mark 04-07-2017 (00:00:41)	Martens.120
00.2 00.10	99:2 A. The the conclusion evaluation he	
	99:3 formulated on page 237, pertains to the chapter in	
	99:4 "Miscellaneous Endpoints."	
	99:5 Q. Okay. Miscellaneous okay.	
	99:6 A. And miscellaneous endpoints are endpoints	
	99:7 that have been pursued by groups, you know, in	
	99:8 academia that have been actually undertaken	
	99:9 experimental tests in all of the mechanism of	
	99:10 actions. These were endpoints that were not pursued	
	99:11 in the official regulatory studies that were done at	
	99:12 Monsanto at that time.	
	99:13 Q. Okay. So	
	99:14 A. It's not a general evaluation. It's only	
	99:15 pertaining to miscellaneous endpoints.	
100:16 - 100:20	Martens, Mark 04-07-2017 (00:00:09)	Martens.121
	100:16 Q. But my question is, is this the same	
	100:17 conclusion that I had asked five minutes ago, is	
	100:18 this the same conclusion that he made in his February	
	100:19 of '99 paper?	
	100:20 A. Yes.	
100:24 - 101:4	Martens, Mark 04-07-2017 (00:00:27)	Martens.122
	100:24 Q. And then if you go to page end or	MARTENS9-8.8
	100:25 page 40, please, where it says his evaluation is	
	101:1 that: "These studies provide evidence that Roundup	
	101:2 mixture produces DNA lesions in vivo, probably due to	
	101:3 the production of oxidative damage."	
	101:4 That was his evaluation, correct?	
101:7 - 101:7	Martens, Mark 04-07-2017 (00:00:03)	Martens.123
	101:7 THE WITNESS: Yes.	
102:5 - 102:21	Martens, Mark 04-07-2017 (00:00:44)	Martens.124
	102:5 THE WITNESS: It's very important to	
	102:6 mention that there are some miscellaneous endpoints	
	102:7 which gave some, you know, results of concern have	
	102:8 been obtained in vivo via routes of administration	

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	102:9 which are improper for toxicological testing for	
	102:10 glyphosate exposure scenarios of glyphosate.	
	102:11 This all pertains to results that have	
	102:12 been obtained after intraperitoneal injection, which	
	102:13 actually produces a specific pathology that otherwise	
	102:14 would have never be possible, you know, in normal	
	102:15 exposure circumstances to either glyphosate or	
	102:16 Roundup.	
	102:17 BY MS. WAGSTAFF:	
	102:18 Q. Okay. Thank you.	
	102:19 And the intraperitoneal injection is an	
	102:20 acceptable route of exposure for a health hazard	
100.00 100.0	102:21 assessment, correct?	Master 405
102:23 - 103:3	Martens, Mark 04-07-2017 (00:00:11)	Martens.125
	102:23 THE WITNESS: No.	
	102:24 BY MS. WAGSTAFF:	alaar
	102:25 Q. It's not. It's not accepted within the	clear
	103:1 field of toxicology as a a relevant route of	
	103:2 exposure for health hazard assessment? Is that what	
103:6 - 103:12	103:3 you're telling me?	Martens.126
103.0 - 103.12	Martens, Mark 04-07-2017 (00:00:19)	Mai (0 115, 120
	103:6 THE WITNESS: This is not a relevant	
	103:7 route of exposure. This can be used in order to	
	103:8 produce some results to explore potential effects	
	103:9 that can be produced during that route of exposure,	
	103:10 but that route of exposure is absolutely	
	103:11 inappropriate for the hazard and risk assessment of	
103:14 - 103:18	103:12 pesticides. Martens, Mark 04-07-2017 (00:00:15)	Martens.127
100111 100110	103:14 Q. Okay. All right. So overall	
	103:14 G. Okay. All right. 30 overall 103:15 conclusions "Overall Conclusions," let's look at	MARTENS9-8.10
	103:16 it, page 42.	
	103:17 What does class clastogen genetic	
	103:18 mean?	
103:21 - 104:10	Martens, Mark 04-07-2017 (00:00:48)	Martens.128
	103:21 A. Clastogenicity means chromosomal	
	103:22 breakage.	
	103:23 Q. Okay. So once again, it's talking about	
	103:24 mutation, right?	
	103:25 A. We like to talk about gene mutations and	
	The state of the s	

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	4044	
	104:1 chromosomal breakage, and these all resort under the	
	104:2 term "genotoxicology."	
	104:3 Q. Okay. So the overall conclusions, when	
	104:4 you've given Dr. Parry more information, is there is	
	104:5 published in vitro evidence that glyphosate is	
	104:6 clastogenetic and capable of inducing sister	
	104:7 chromatid exchange in both human and bovine	
	104:8 lymphocytes, and then he cites papers, correct?	MARTENS9-8.11
	104:9 A. Correct.	WARTENSS-0.11
104:15 - 104:20	104:10 Q. And if you move on to the next page, page	Martens.120
104:15 - 104:20	Martens, Mark 04-07-2017 (00:00:16)	Martens. 129
	104:15 the production of 8-OHdG in mouse liver, cites a	
	104:16 paper; both observations indicate that glyphosate may	
	104:17 be capable of inducing a prooxidant state leading to	
	104:18 the formation of oxidative damage lesion.	
	104:19 Correct?	
104:05 100:0	104:20 A. That's a correct	Martana 120
104:25 - 106:3	Martens, Mark 04-07-2017 (00:01:22)	Martens.130
	104:25 Q. The next conclusion was that a of	
	105:1 Dr. Parry was that: "A Roundup mixture containing	
	105:2 glyphosate was shown to produce 8-OHdG in both the	
	105:3 liver and kidney of the mice (Bolognesi). These	
	105:4 observations indicate the Roundup mixture is capable	
	105:5 of inducing oxidative damage in vivo."	
	105:6 Is that correct?	
	105:7 A. That's what he wrote is correct, yes.	
	105:8 Q. Okay. And this is that's consistent	
	105:9 with what he found in the February '99 report that	
	105:10 he	
	105:11 A. Yes.	
	105:12 Q. Okay. Next on 14, glyphosate-induced	
	105:13 single-strand breaks in vivo in the liver and kidney,	
	105:14 and he cited those reports, correct?	
	105:15 A. Yes.	
	105:16 Q. Next, he tells Monsanto that the Roundup	
	105:17 mixture produced single-strand breaks in vivo in the	
	105:18 liver and kidneys of mice, correct?	
	105:19 A. Correct.	
	105:20 Q. Okay. And next, he tells Dr. Parry	
	105:21 tells Monsanto that glyphosate mixture but not	

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	Martens-As Played at Pilliod	
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	105:22 glyphosate produced an increase in uncharacterized	
	105:23 DNA adducts in vivo in the liver and kidneys of mice,	
	105:24 correct?	
	105:25 A. That's correct.	
	106:1 Q. All right. So Dr. Parry is telling	
	106:2 Monsanto that there are differences between	
106:6 - 106:6	106:3 glyphosate alone and a glyphosate mixture, correct?	Martens.131
100.0 - 100.0	Martens, Mark 04-07-2017 (00:00:03)	Marteris. 131
106:9 - 106:10	106:6 A. That's what he said generally.	Martens.132
100.9 - 100.10	Martens, Mark 04-07-2017 (00:00:07)	MARTENS9-8.12
	106:9 Q. If you go to the next page, "Specific	WARTENS9-0.12
106:23 - 107:2	106:10 evaluation of the genotoxicity of glyphosate."	Martens.133
100.23 - 107.2	Martens, Mark 04-07-2017 (00:00:12)	Marteris. 155
	106:23 So we can start the sentence says:	
	106:24 "On the basis of the study of Lioi, I conclude that	
	106:25 glyphosate is a potential clastogenic in vitro."	
	107:1 Correct?	
107:3 - 107:5	107:2 A. That's what he says, yes.	Martens.134
107.3 - 107.5	Martens, Mark 04-07-2017 (00:00:10)	Marteris. 104
	107:3 Q. Okay. And then he goes on to say that	
	107:4 the Bolognesi study indicates that it may also be	
107:6 - 107:11	107:5 clastogenic in vivo, correct?	Martens.135
107.0 - 107.11	Martens, Mark 04-07-2017 (00:00:10)	Marteris. 103
	107:6 A. It may be, yes. The way he	
	107:7 Q. Correct.	
	107:8 A. Yeah.	
	107:9 Q. So he concludes that it is in vitro and	
	107:10 that it may be in vivo, correct?	
107:13 - 107:22	107:11 A. It's hypothetical in vivo. Yeah.	Martens.130
107.13 - 107.22	Martens, Mark 04-07-2017 (00:00:23)	Marteris. 100
	107:13 And then he goes on the so that was	
	107:14 the genotoxicity of glyphosate. Now he's looking at	
	107:15 the geno specific evaluation of the genotoxicity	
	107:16 of glyphosate mixtures, correct?	
	107:17 A. Mm-hmm.	
	107:18 Q. Okay. And he says: "The studies of	
	107:19 Bolognesi suggests that glyphosate mixtures may be	
	107:20 capable of inducing oxidative damage in vivo."	
	107:21 Correct?	
	107:22 A. Yes, that's what he says.	

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108:22 - 108:24	Martana Mark 04 07 2017 (00:00:04)	Martens.137
100.22	Martens, Mark 04-07-2017 (00:00:04) 108:22 Q. So he was just putting Monsanto on notice	
	,	
	108:23 that this may be happening, correct? 108:24 A. Yes.	
109:6 - 109:7	Martens, Mark 04-07-2017 (00:00:04)	Martens.138
	109:6 We're going to skip to	
	109:7 page 64.	MARTENS9-8.32
110:5 - 110:23	Martens, Mark 04-07-2017 (00:00:37)	Martens.139
	110:5 Q. Is is this the third report that you	
	110:6 were talking about?	
	110:7 A. Yes.	
	110:8 Q. Okay. So this came after the first two,	
	110:9 correct?	
	110:10 A. That that's what I understand, yes.	
	110:11 Q. Okay. And this is the same Dr. Parry	
	110:12 that you were that we've been talking about all	
	110:13 day, correct?	
	110:14 A. Yes, correct.	
	110:15 Q. Okay. And do you know what the genesis	
	110:16 of this report was, why he created this?	
	110:17 A. I don't recall it.	
	110:18 Q. Okay. But he created this at at	
	110:19 Monsanto's request, correct?	
	110:20 A. That is a possibility. I don't recall.	
	110:21 Q. Okay. And is there any chance that this	
	110:22 was linked to the second report?	
	110:23 A. Yes.	
112:3 - 112:7	Martens, Mark 04-07-2017 (00:00:07)	Martens.140
	112:3 Q. And then this one is either an annex to	
	112:4 his second report or it's a third report?	
	112:5 A. Yes.	
	112:6 Q. You're just not sure.	
	112:7 A. Yes.	
112:18 - 112:20	Martens, Mark 04-07-2017 (00:00:03)	Martens.141
	112:18 And then this says "Recommendations for	
	112:19 Future Work," correct?	
	112:20 A. Yes.	
112:25 - 114:13	Martens, Mark 04-07-2017 (00:02:11)	Martens.142
	112:25 Q. Okay. So it appears to me that this is	
	113:1 recommendations for future work based off of his	

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	113:2 analysis in the second report. Would that make	
	113:3 sense?	
	113:4 A. That makes sense, yes.	
	113:5 Q. Okay. So key questions, and these are	
	113:6 key questions that he is posing to Monsanto that	
	113:7 still remain after his analyses, correct?	
	113:8 A. Yes.	
	113:9 Q. Okay. So he's wanting to know if	
	113:10 glyphosate is an in vitro clastogen, if it's an	
	113:11 in vivo clastogen, if glyphosate is if that is	
	113:12 true, what is the mechanism of action? And does it	
	113:13 lead to other types of genotoxicity activity in vivo	
	113:14 such as point mutation induction? Does glyphosate	
	113:15 produce oxidative damage? Can we explain the	
	113:16 reported genotoxic effects of glyphosate on the basis 113:17 of the induction of oxidative damage?	
	113:18 Why don't you read the last three so the	
	113:19 jury doesn't have to just listen to my voice,	
	113:20 starting with 6. You can read it out loud.	
	113:21 A. Okay. So if glyphosate is an in vivo	
	113:22 genotoxin, is its mechanism of action thresholded?	
	113:23 Q. Okay. Number 7.	
	113:24 A. "Threshold," it wants to say that you	
	113:25 need to have a certain concentration in tissue before	
	114:1 that activity takes place.	
	114:2 Q. Mm-hmm.	
	114:3 A. "Under what conditions of exposure are	
	114:4 the antioxidant defenses of the cell overwhelmed?"	
	114:5 Q. Okay.	
	114:6 A. That is part of the thresholding.	
	114:7 "Are there difference differences in	
	114:8 the genotoxic activities of glyphosate and glyphosate	
	114:9 formulations?"	
	114:10 Q. So he's he's been telling you in the	
	114:11 last two reports that different things happen when he	
	114:12 tests glyphosate or glyphosate formulations, right?	
	114:13 A. Yes.	
114:16 - 115:19	Martens, Mark 04-07-2017 (00:01:22)	Martens.143
	114:16 Q. And then the last one.	
	114:17 A. "Do any of the surfactants contribute to	

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114:18 the reported genotoxicity of glyphosate	
114:19 formulations?"	
114:20 Q. Okay. So he's saying we need to figure	
114:21 out what the surfactants add to the equation,	
114:22 correct?	NS9-8.33
114.25 A. 165.	
114:24 Q. Okay. So he also then gives you 114:25 Monsanto some actions that he recommended, correct?	
115:1 A. Yes.	
115:2 Q. Okay. And one of those is to do	
115:3 comprehensive testing on glyphosate formulations,	
115:4 correct?	
115:5 A. Yes.	
115:6 Q. Okay. He says that that "Monsanto	
115:7 should evaluate the induction of oxidative damage	
115:8 in vivo and determine the influence of antioxidant	
115:9 status of the animals." Correct?	
115:10 A. Correct.	
115:11 Q. He also says: "Evaluate on the	
115:12 assumption that the reported in vitro positive	
115:13 clastogenic data for glyphosate is due to oxidative	
115:14 damage, determine the influence of antioxidants."	
115:15 Okay. So that's similar to the next one.	
115:16 "Evaluate the clastogenic activity of glyphosate in	
115:17 the presence and absence of a variety of antioxidant	
115:18 activities." Correct?	
115:19 A. That's what I read, yes.	
Warteris, Wark 04-07-2017 (00.00.24)	ns.144
116:17 Dr. Parry gave a list of eight questions	
116:18 that were left unanswered, correct?	
116:19 A. That he would like to see answered, yes.	
116:20 Q. Okay. And as a scientist, you would have	
116:21 liked to see those answered as well, correct?	
116:22 A. These were genuine questions, yes.	
116:23 Q. Yeah. Good questions, right? 116:24 A. These were good questions, yes.	
116:25 Q. Okay. And he provided with a list of 117:1 actions that Monsanto could take to answer those	
117:1 actions that Monsanto could take to answer those 117:2 questions, correct?	
117:3 A. Yes.	

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117:6 - 117:25	Martana Marik 04 07 0047 (00:04:04)	Martens.145
117.0 - 117.20	Martens, Mark 04-07-2017 (00:01:04)	MARTENS9-8.34
	117:6 So then Dr. Parry says at the very end of	IIIAITI EITO O.O.
	117:7 his recommendations: "My overall view is that if	
	117:8 there is my overall view is that if the reported	
	117:9 genotoxicity of glyphosate and glyphosate	
	117:10 formulations can be shown to be due to the production	
	117:11 of oxidative damage, then a case could be made that	
	117:12 any genetic damage would be threshold."	
	117:13 Did I read that correctly?	
	117:14 A. You read it, yes.	
	117:15 Q. Okay. "Such genetic damage would only be	
	117:16 biologically relevant under conditions of compromised	MARTENS9-8.35
	117:17 anti antioxidant status. If such an oxidative	MARTENS9-0.33
	117:18 damage mechanism is proved, then it may be necessary	
	117:19 to consider the possibility of the susceptible groups	
	117:20 within the human population."	
	117:21 Did I read that correctly?	
	117:22 A. You read that correctly, yes.	
	117:23 Q. Okay. So there is an expert telling	
	117:24 Monsanto in 1999 to do tests that may affect the	
	117:25 human population, correct?	
118:3 - 119:12	Martens, Mark 04-07-2017 (00:01:15)	Martens.140
	118:3 THE WITNESS: This is a little bit an	
	118:4 expanded conclusion. You know, he is more or less	
	118:5 asking himself the question. If that might be true,	
	118:6 then there may be susceptible groups in a population	
	118:7 that might be more susceptible in producing an	
	118:8 effect. But he forgets to say those effects have	clear
	118:9 been, you know, obtained through intraperitoneal	
	118:10 injection, whereas the human exposure is not via	
	118:11 intraperitoneal injection. And that's a very	
	118:12 important nuance.	
	118:13 BY MS. WAGSTAFF:	
	118:14 Q. So I don't how do you know he forgot	
	118:15 to say that?	
	118:16 A. I don't know why he didn't point it out.	
	118:17 That's why	
	118:18 Q. But he didn't point it out, did he?	
	118:19 A. Intra well, that is limited to	
	118:20 intraperitoneal injection. Not sufficiently	
	•	

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Page/Line Source 118:21 Q. So you may you may not agree with 118:22 what Dr. Parry wrote, but I'm not asking you to 118:23 rewrite his report. 118:24 I'm asking you in 1999, Dr. Parry wrote 118:25 to Monsanto and and did an analysis, gave 119:1 questions unanswered, right? 119:2 A. Yes. 119:3 Q. Proposed actions that could be taken,
118:22 what Dr. Parry wrote, but I'm not asking you to 118:23 rewrite his report. 118:24 I'm asking you in 1999, Dr. Parry wrote 118:25 to Monsanto and and did an analysis, gave 119:1 questions unanswered, right? 119:2 A. Yes. 119:3 Q. Proposed actions that could be taken,
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118:23 rewrite his report. 118:24 I'm asking you in 1999, Dr. Parry wrote 118:25 to Monsanto and and did an analysis, gave 119:1 questions unanswered, right? 119:2 A. Yes. 119:3 Q. Proposed actions that could be taken,
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119:1 questions unanswered, right?119:2 A. Yes.119:3 Q. Proposed actions that could be taken,
119:2 A. Yes.119:3 Q. Proposed actions that could be taken,
119:3 Q. Proposed actions that could be taken,
119:4 right?
119:5 A. Yes.
119:6 Q. And then stated that the over his
119:7 overall view is that these tests and answers need to
119:8 be taken, right?
119:9 A. Yes.
119:10 Q. And then you need to figure out what
119:11 what group within the human population may be
119:12 affected, correct? 119:15 - 119:24 Martens Mark 04-07-2017 (00:00:10) Martens.147
waitens, wark 04-07-2017 (00.00.10)
119:15 THE WITNESS: That that is what he 119:16 said.
119:17 MS. WAGSTAFF: Okay.
119:18 THE WITNESS: But I don't agree with what 119:19 he said because
119:20 BY MS. WAGSTAFF:
119:21 Q. That's you can that's fine if you
119:22 don't agree with what he said. I'm just that's
119:23 what he told Monsanto, correct?
119:24 A. That's what he told Monsanto, yes.
121:2 - 121:7 Martens, Mark 04-07-2017 (00:00:24) Martens.148
121:2 And so that that second Parry report,
121:3 which was the longer one, was sent to you sometime
121:4 around September of 1999. And you had sent it to
121:5 Larry Kier, Dr. Donna Farmer, and Bill Heydens around
121:6 that time, correct?
121:7 A. Correct.
121:16 - 121:22 Martens, Mark 04-07-2017 (00:00:15) Martens.140
121:16 Q. So you write to Larry and Donna which MARTENS9-9.1
121:17 would be Larry Kier and Donna Farmer, correct?
121:18 A. Correct.
121:19 Q on September 16, 1999: "I would like

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	121:20 to get some feedback to Jim Parry on his report."	
	121:21 Correct?	
	121:22 A. Correct.	
122:3 - 122:9	Martens, Mark 04-07-2017 (00:00:18)	Martens.150
	122:3 Q. So you're asking these folks for their	
	122:4 opinions so you can get some feedback to Dr. Parry,	
	122:5 correct?	
	122:6 A. That was the intention, yes.	
	122:7 Q. Okay. And you cc'd Dr. Bill Heydens on	
	122:8 that e-mail, right?	
	122:9 A. Yeah, that's what I see.	
122:20 - 123:14	Martens, Mark 04-07-2017 (00:00:54)	Martens.151
	122:20 Q. "Mark, all" and Mark is you,	
	122:21 Dr. Martens, correct?	
	122:22 A. That's correct, yes.	
	122:23 Q. Okay. He lets you know that he has read	
	122:24 the report and he agrees with the comments, right?	
	122:25 A. Yes.	
	123:1 Q. And there are various things that can be	
	123:2 done to improve the report. So, again, they're not	
	123:3 completely happy with the report, correct?	
	123:4 A. Yes.	
	123:5 Q. Okay. And then he says: "Let's step	
	123:6 back and look at what we're really trying to achieve	
	123:7 here." Right?	
	123:8 A. That's in the in the mail, yes.	
	123:9 Q. Okay. He states that: "Monsanto wants	
	123:10 to find/develop someone who is comfortable with the	
	123:11 genotox profile of glyphosate/Roundup and who can be	
	123:12 influential with regulators and scientific outreach	
	123:13 operations when genotox issues arise." Correct?	
	123:14 A. That's what I read, yes.	
123:23 - 125:9	Martens, Mark 04-07-2017 (00:01:33)	Martens.152
	123:23 BY MS. WAGSTAFF:	
	123:24 Q. Okay. And Bill Heydens is a toxicologist	
	123:25 in the United States, correct?	
	124:1 A. Yes.	
	124:2 Q. For Monsanto, correct?	
	124:3 A. Yes.	
	124:4 Q. Okay. Dr. Heydens goes on to say: "My	

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	124:5 read is that Parry is not currently such a person,	
	124:6 and it would take quite some time and" money sign,	
	124:7 money sign, money sign, slash, "studies to get him	
	124:8 there." Correct?	
	124:9 A. That's what I read, yes.	
	124:10 Q. Okay. "We simply aren't going to do the	
	124:11 studies that Parry suggests, period." Correct?	
	124:12 A. That's what he said in the memo, yes.	
	124:13 Q. Okay. Then he directs the e-mail to you	
	124:14 specifically. "Mark, do you think Parry can become a	
	124:15 strong advocate without doing this work?" Parry,	
	124:16 question mark. Then he says: "If not, we should	
	124:17 seriously," underlined, italicized, bolded, "start	
	124:18 looking for one or more other individuals to work	
	124:19 with." Correct?	
	124:20 A. That's what I read, yes.	
	124:21 Q. Okay. Then he goes on to say: "We have	
	124:22 not made much progress and are currently very	
	124:23 vulnerable in this area." Correct?	
	124:24 A. That's what I read.	
	124:25 Q. Okay. And "this area" means the	
	125:1 genotoxicity of glyphosate/Roundup, correct?	
	125:2 A. That is correct.	
	125:3 Q. "We have to fix that" "that" being the	
	125:4 vulnerability "but only if we make this a high	
	125:5 priority now." Correct?	
	125:6 A. That's what I read.	
	125:7 Q. Okay. So and that is in September of	
	125:8 1999, correct?	
	125:9 A. Yes. That seems correct, yeah.	
125:11 - 125:14	Martens, Mark 04-07-2017 (00:00:13)	Martens.153
	125:11 Did you have any independent	clear
	125:12 conversations with Dr. Heydens as to why he did not	
	125:13 want to do the studies Parry suggested?	
	125:14 A. I don't recall.	
125:18 - 125:24	Martens, Mark 04-07-2017 (00:00:18)	Martens.154
	125:18 Q. Did Dr. Parry ever offer to do the	
	125:19 studies he was suggesting?	
	125:20 A. He had the intention to do some work,	
	125:21 yes.	

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	125:22 Q. When you say "he had the intention to do	
	125:23 some work"	
100 4 107 5	125:24 A. That's what he was suggesting.	M 455
126:4 - 127:5	Martens, Mark 04-07-2017 (00:00:57)	Martens.155
	126:4 So when you say Dr. Parry had the	
	126:5 intention to do the work he suggested, what do you	
	126:6 mean do you mean that he wanted to do the work he	
	126:7 suggested?	
	126:8 A. Well, in his laboratory it's a typical	
	126:9 academic laboratory, he's a professor of the	
	126:10 department with Ph.D. students and he was	
	126:11 exploring the mechanism of oxidative stress and	
	126:12 oxidative damage, and he had some ideas about Ph.D.	
	126:13 work to do in that direction.	
	126:14 Q. Okay. So he had some ideas.	
	126:15 A. Yeah, some	
	126:16 Q. And did he complete those ideas?	
	126:17 A. Not not for the glyphosate.	
	126:18 Q. Okay. And Dr. Parry was not a Monsanto	
	126:19 employee, correct?	
	126:20 A. That's correct.	
	126:21 Q. He was never employed by Monsanto,	
	126:22 correct?	
	126:23 A. Never.	
	126:24 Q. So he's an independent scientist from	
	126:25 Monsanto, correct?	
	127:1 A. Yes.	
	127:2 Q. Okay. And did Dr. Parry ever ask for	
	127:3 financial support from Monsanto to complete the	
	127:4 studies that he had recommended?	
	127:5 A. Not that I recall.	
127:11 - 127:14	Martens, Mark 04-07-2017 (00:00:14)	Martens.150
	127:11 Q. Okay. If Dr. Parry had suggested and	
	127:12 requested samples to complete the studies that he had	
	127:13 suggested, do you agree Monsanto should have provided	
	127:14 those samples?	
127:19 - 128:21	Martens, Mark 04-07-2017 (00:01:16)	Martens.157
	127:19 THE WITNESS: We were reluctant to place	
	127:20 studies in the laboratory of Dr. Parry for a variety	
	127:21 of reasons. In the first place, since the results of	

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	127:22 the studies would be used for regulatory reasons, we	
	127:23 would have preferred to have those studies carried	
	127:24 out in a laboratory which is accredited for good	
	127:25 laboratory practices, and his department was not.	
	128:1 Plus that if he would engage and we	
	128:2 engaged on supplementary additional testing to	
	128:3 prove whether or not there was oxidative stress, we	
	128:4 were looking into much more parameters than just	
	128:5 genotoxic parameters, like, you know, organ weights,	
	128:6 like gross pathology, like histopathology, and his	
	128:7 department was not equipped to do these type of	
	128:8 assays.	
	128:9 And that is more or less that's why we	
	128:10 were reluctant to place those studies in his	
	128:11 laboratory, but we were very open to listen to him	
	128:12 and to follow suggestions.	
	128:13 BY MS. WAGSTAFF:	
	128:14 Q. Okay. So you were reluctant to give	
	128:15 the to let Dr. Parry do the studies. Is that	
	128:16 A. Yes.	
	128:17 Q a good summary of what you just said?	
	128:18 A. That's a good summary, yes.	
	128:19 Q. Okay. So who did the studies?	
	128:20 A. The studies you know, finally, we	
	128:21 started to do the studies.	
128:22 - 129:3	Martens, Mark 04-07-2017 (00:00:15)	Martens.158
	128:22 Q. Uh-huh.	
	128:23 A. I had contacts with Professor Parry to	
	128:24 give suggestions and do some exchange in the design	
	128:25 of the studies. But the studies finally have been	
	129:1 carried out at the Environmental Health Laboratory of	
	129:2 Monsanto in St. Louis, which is a GLP-accredited	
	129:3 laboratory.	
129:4 - 129:7	Martens, Mark 04-07-2017 (00:00:12)	Martens.150
	129:4 Q. Okay. So of all of the the scientists	
	129:5 in the world, these studies ended up being done in	
	129:6 St. Louis by Monsanto scientists, correct?	
100 0 100 0-	129:7 A. Yes.	
129:8 - 129:20	Martens, Mark 04-07-2017 (00:00:37)	Martens.160
	129:8 Q. Okay. And what were the studies	

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	129:9 published?	
	129:10 A. The studies as soon as the study	
	129:11 results were available, we first shared the study	
	129:12 results with Professor Parry. We went actually to	
	129:13 visit him and give a whole presentation of the study	
	129:14 results, and discuss all the ins and outs of the	
	129:15 study results. And and we can talk later of what	
	129:16 his opinion was on the study results.	
	129:17 But the study results had been in the	
	129:18 first place presented in the open as opposed to on	
	129:19 the Society of Toxicology meeting in San Francisco in	
129:21 - 130:10	129:20 2001. Martens, Mark 04-07-2017 (00:00:40)	Martens.161
	129:21 Q. Okay. And who at Monsanto did those	
	129:22 studies?	
	129:23 A. These studies were conducted by a couple	
	129:24 of scientists in the Environmental Health Laboratory	
	129:25 under the leadership of Dr. Larry Kier and Kathy	
	130:1 Holz, and, you know, Alan Wilson, and I myself had	
	130:2 also a big say in the design and conduct of the	
	130:3 studies.	
	130:4 Q. Okay. And you said that that study	
	130:5 was when when did that study occur?	
	130:6 A. That must have been well, I don't	
	130:7 recall exactly, but it was in 2000s that these	
	130:8 studies must have been conducted.	
	130:9 Q. And you left in 2003, right?	
	130:10 A. Yes.	
130:11 - 132:4	Martens, Mark 04-07-2017 (00:02:02)	Martens.162
	130:11 Q. Okay. So you're you're saying that	
	130:12 the studies that Dr. Parry conducted or suggested	
	130:13 were conducted by Monsanto at Monsanto's headquarters	
	130:14 between 2000 well, here we are in we were in	
	130:15 September of two or in April of 2000, and they	
	130:16 haven't been done, so they were conducted probably	
	130:17 in you're saying 2000 or 2001?	
	130:18 A. They were conducted somewhere in the	
	130:19 second half of 2000. The results were ready were	
	130:20 ready very early 2001.	
	130:21 Q. Okay. And what journals were the results	

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	130:22 published in?	
	130:23 A. The results were not published in a	
	130:24 journal. They were published as the proceedings in	
	130:25 the Society of Toxicology as a it was a poster	
	131:1 presentation at the Society of Toxicology, official	
	131:2 journal, you know, for the as an abstract for the	
	131:3 proceedings of the SOT meeting in San Francisco in	
	131:4 2001.	
	131:5 Q. Okay. So what was the who presented	
	131:6 the poster?	
	131:7 A. I was at that meeting well, there were	
	131:8 several of the authors. Well, the way how the poster	
	131:9 is presented, there's actually posters posted, then,	
	131:10 you know, there's some always scientists go to the	
	131:11 poster actually, you know, is present at the	
	131:12 poster to respond to questions that people may have	
	131:13 on the poster. So I was part of them, but also I	
	131:14 believe also Bill Heydens, et cetera, several others, 131:15 yeah.	
	131:16 Q. So this was not these results were not	
	131:17 peer reviewed, correct?	
	131:18 A. These results were peer reviewed in the	
	131:19 process it's not a peer reviewed for publication,	
	131:20 but they were peer reviewed in the process of the	
	131:21 submission of abstracts to the Society of Toxicology	
	131:22 of the United States.	
	131:23 Q. Okay. So was this were these results	
	131:24 submitted to a journal?	
	131:25 A. These results were later submitted to a	
	132:1 journal and published.	
	132:2 Q. So these results were have been	
	132:3 published?	
	132:4 A. Yes.	
132:11 - 132:21	Martens, Mark 04-07-2017 (00:00:40)	Martens.163
	132:11 Q. Okay. And where was it published?	
	132:12 A. What do you mean, what journal?	
	132:13 Q. Mm-hmm.	
	132:14 A. Let's see. There's the Journal of	
	132:15 Agricultural Chemicals, et cetera. I don't recall	
	132:16 exactly, but they've been published in 2008.	

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	132:17 Q. So are you talking about the paper by	
	132:18 Heydens, Healy, Hotz, Kier, you, Wilson and Donna	
	132:19 Farmer called "Genotoxic potential of glyphosate	
	132:20 formulations: Mode-of-action investigations"?	
	132:21 A. Yes.	
132:25 - 133:4	Martens, Mark 04-07-2017 (00:00:19)	Martens.104
	132:25 for sakeness of a complete record, is this the is	
	133:1 this the study that Monsanto conducted in response to	
	133:2 Dr. Parry's questions and	
	133:3 A. Yes.	
	133:4 Q suggestions?	
133:6 - 133:7	Martens, Mark 04-07-2017 (00:00:03)	Martens.105
	133:6 Q. Okay. And so let's mark that as	
	133:7 Exhibit 10.	
133:13 - 134:3	Martens, Mark 04-07-2017 (00:00:46)	Martens.100
	133:13 But it's your belief and testimony that	
	133:14 all of Dr. Parry's questions were answered by that	
	133:15 study?	
	133:16 A. Let me put it this way: That Dr. Parry	
	133:17 had a whole list of recommendations.	
	133:18 Q. Mm-hmm.	
	133:19 A. And what happened is actually one of the	
	133:20 most important recommendations, and he repeated that	
	133:21 all the time is, could you repeat the study of	
	133:22 Bolognesi, as you know, as best as possible, and	
	133:23 produce a couple of endpoints, which he addressed	
	133:24 like, for example, oxidative stress or oxidative DNA	
	133:25 damage.	
	134:1 And then we started to do the study and	
	134:2 the plan was actually to present the study results to	
	134:3 Dr. Parry and then to see what can happen next.	
134:15 - 134:17	Martens, Mark 04-07-2017 (00:00:07)	Martens.107
	134:15 Q. Okay. So if we want to look to the	
	134:16 answers for all of Dr. Parry's questions, we can find	
134:20 - 135:5	134:17 them all in that report; is that correct?	Martens.168
104.20 100.0	Martens, Mark 04-07-2017 (00:00:24)	
	134:20 THE WITNESS: The Dr. Parry had a	
	134:21 whole list of recommendations, right.	
	134:22 BY MS. WAGSTAFF:	
	134:23 Q. Correct.	

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		,
	134:24 A. And the whole list, the most important	
	134:25 we took the most important type of, you know,	
	135:1 questions. These were recommendations in regard	
	135:2 to to repeat the results to confirm the results	
	135:3 that had been found by Peluso and by Bolognesi, and	
	135:4 actually address a couple of questions in terms of	
	135:5 oxidative damage.	
135:16 - 136:14	Martens, Mark 04-07-2017 (00:01:07)	Martens.169
	135:16 Q. We're going back to Exhibit 8 really	MARTENS9-8.32
	135:17 quick, and I just want to talk about in this	
	135:18 Exhibit 8, we went through these in detail	
	135:19 A. Mm-hmm.	
	135:20 Q Dr. Parry listed eight questions.	
	135:21 Correct?	
	135:22 A. Yes.	
	135:23 Q. And is it your testimony that the answers	
	135:24 to each of these questions can be found within your	
	135:25 2008 article that is entitled "Genotox potential of	
	136:1 glyphosate formulations: Mode-of-action	
	136:2 investigations"?	
	136:3 A. Mm-hmm.	
	136:4 Q. Okay.	
	136:5 A. Just to make clear, we produced a lot of	
	136:6 new toxicological evidence, and then the plan was to	
	136:7 go to Dr. Parry and see whether, you know, all of his	
	136:8 questions still were he was satisfied or not. And	
	136:9 it was the the subject, the topic of the meeting	
	136:10 we organized together, we talked to Dr. Parry and to	
	136:11 listen to him whether he was satisfied with all the	
	136:12 results or whether he would have, you know, other or	
	136:13 new recommendations or some of the recommendations	clear
	136:14 that were in here.	
140:2 - 140:4	Martens, Mark 04-07-2017 (00:00:06)	Martens.170
	140:2 And so this was considered an honor to be	
	140:3 a Monsanto fellow.	
	140:4 A. Yes.	
141:19 - 142:5	Martens, Mark 04-07-2017 (00:00:34)	Martens.171
	141:19 Q. Okay. So if you look at this letter,	
	141:20 it I hope talking about your strengths doesn't	MARTENS9-11.2
	141:21 embarrass you because that's all this letter talks	

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142:9 - 143:4	141:22 about, but it talks about how this letter is about 141:23 you, correct? 141:24 A. Yes. 141:25 Q. Okay. So it gives you great pleasure to 142:1 nominate Dr. Mark Martens that's you for the 142:2 appointment of the position of Monsanto fellow. 142:3 That's what we've been talking about, correct? 142:4 You've been with Monsanto at that time 142:5 for 12 years. Martens, Mark 04-07-2017 (00:00:57) 142:9 Q. Okay. And during that time you have 142:10 developed and sustained technical expertise in 142:11 various areas of toxicology, most notably metabolism,	Martens.172
	142:12 genotoxicity and carcinogenicity. 142:13 And those two at the end are the ones 142:14 that we've been talking about most today, right? 142:15 A. Yes. 142:16 Q. So they're recognizing you for being an 142:17 expert in this area. 142:18 It says that you have established 142:19 yourself as a highly knowledgeable and credible 142:20 scientist outside of Monsanto as well. 142:21 I assume you don't disagree with that. 142:22 A. I don't disagree. 142:23 Q. It says that you had internal leadership 142:24 and external influence that makes you valuable and 142:25 effective to support Monsanto's entire profile of 143:1 products in Europe in the Europe/Africa region. 143:2 And that would include the Roundup and	
145:21 - 147:10	143:3 glyphosate products, right? 143:4 A. Yes. Martens, Mark 04-07-2017 (00:01:59) 145:21 Let's talk more about what what 145:22 Dr. Hjelle says about you. 145:23 You have you were instrumental in 145:24 convincing a key European expert that reports of 145:25 genotoxicity with Roundup actually represent effects 146:1 secondary to cytotoxicity, rather than a primary	Martens.173
	146:2 genotoxic response. 146:3 And that was Dr. Parry, right?	MARTENS9-11.3

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	146:4 A. Yes.	
	146:5 Q. That's what we've been talking about all	
	146:6 morning.	
	146:7 It says that you were also influential or	
	146:8 effective in reversing the strong negative regulatory	
	146:9 position toward MON 13900 in France.	
	146:10 What's what's MON 13900?	
	146:11 A. I think it was a grow regulating	
	146:12 compound, but I honestly don't recall the detail of	
	146:13 that.	
	146:14 Q. Okay. And then it says that you have	
	146:15 been successful in alleviating concerns over	
	146:16 genotoxicity and carcinogenicity, and that's really	
	146:17 what your role was with with engaging in Parry,	
	146:18 right?	
	146:19 A. My role in engaging with Parry was to	
	146:20 find to receive a second opinion and to get	
	146:21 Professor Parry to further elucidate, you know, the	
	146:22 real significance of those findings by doing	
	146:23 supplementary additional testing.	
	146:24 Q. Okay. And and Dr. Parry's report did	
	146:25 not alleviate the concerns over genotoxicity or	
	147:1 carcinogen carcinogenicity, right?	
	147:2 A. Well, what happens is that on the basis	
	147:3 of the recommendations of Dr. Parry, we initiated a	
	147:4 stepwise research program, and shared those data with	
	147:5 Dr. Parry and discussed those results with Dr. Parry	
	147:6 so that he could reassess his position on the basis	
	147:7 of those new data.	
	147:8 Q. Okay. But his reports on their face	
	147:9 didn't alleviate the concerns over the genotoxicity,	
	147:10 right?	clear
147:14 - 149:7	Martens, Mark 04-07-2017 (00:02:16)	Martens.174
	147:14 A. All of them. The the reports that we	
	147:15 have been talking about from Dr. Parry were actually	
	147:16 an evaluation on of the the papers of you	
	147:17 know, that we discussed in the beginning, plus the	
	147:18 regulatory genotoxicology work.	
	147:19 Q. Okay. So my questions were my	
	147:20 question was, Dr. Parry's report did not alleviate	

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	147:21 the concerns over over the genotoxicity and	
	147:22 carcinogenicity, correct?	
	147:23 A. Dr. Parry's report actually expressed a	
	147:24 concern with recommendations that we used to produce	
	147:25 new toxicological data in concert with Dr. Parry,	
	148:1 that we then shared with Dr. Parry to come to a new	
	148:2 conclusion on the basis of those data.	
	148:3 Q. Okay. And did did you share did	
	148:4 you share Dr. Parry's reports, either of them,	
	148:5 report 1 or report 2, with anybody?	
	148:6 A. No, because it was a consultancy with	
	148:7 Dr. Parry, which actually with the intention to	
	148:8 lead us to the production of new data which would	
	148:9 help us to gain insight in the type of data that were	
	148:10 produced by Bolognesi and Peluso.	
	148:11 Q. Okay. And you've agreed earlier that	
	148:12 the questions raised by Dr. Parry were good	
	148:13 questions.	
	148:14 A. Yes, mm-hmm.	
	148:15 Q. Okay. And they would why not share	
	148:16 those with other scientists around the world?	
	148:17 A. No, because this was a preliminary	
	148:18 preliminary evaluation which led to an hypotical	
	148:19 hypothetical evaluation of assessment of Roundup and	
	148:20 glyphosate by Dr. Parry, and we needed actually to	
	148:21 first confirm whether or not his hypothesis was	
	148:22 value was valid.	
	148:23 Q. Okay. So let me just make sure I	
	148:24 understand what happened. Okay?	
	148:25 A. Mm-hmm.	
	149:1 Q. You engaged Monsanto engages Dr. Parry	
	149:2 to assess some studies that have occurred, correct?	
	149:3 A. Right.	
	149:4 Q. Okay. And those studies raised some	
	149:5 valid concerns about the safety profile of glyphosate	
	149:6 and Roundup, right?	
	149:7 A. Yes.	
149:18 - 150:9	Martens, Mark 04-07-2017 (00:00:29)	Martens.175
	149:18 Q. So you asked him an opinion and he writes	
	149:19 a report, and the report is not well received by	
149:18 - 150:9	148:21 first confirm whether or not his hypothesis was 148:22 value was valid. 148:23 Q. Okay. So let me just make sure I 148:24 understand what happened. Okay? 148:25 A. Mm-hmm. 149:1 Q. You engaged Monsanto engages Dr. Parry 149:2 to assess some studies that have occurred, correct? 149:3 A. Right. 149:4 Q. Okay. And those studies raised some 149:5 valid concerns about the safety profile of glyphosate 149:6 and Roundup, right? 149:7 A. Yes. Martens, Mark 04-07-2017 (00:00:29) 149:18 Q. So you asked him an opinion and he writes	Martens.175

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149:20 Monsanto toxicologists. 149:21 A. Well, the conclusions were well received. 149:22 Q. Okay. 149:23 A. The form of the report was not well 149:24 received. 149:25 Q. Okay. The conclusions were well 150:1 received 150:2 A. Mm-hmm. 150:3 Q and eventually Dr. Parry is given more 150:4 information. 150:5 A. Yes. 150:6 Q. And he writes another report with very 150:7 similar conclusions. We've walked through each of 150:8 the reports, correct? 150:9 A. Mm-hmm. Martens, Mark 04-07-2017 (00:00:56) 150:21 Q. Yeah. But it's your opinion that these 150:22 questions should not be shared with anyone else. 150:24 questions and to use the recommendation to initiate 150:25 further research to address them in a corrective way 151:1 and to see where exactly that we both parties 151:2 could understand what's actually going on, and 151:3 whether we have an initiation of oxidative damage and 151:4 whether possible genotoxicity was secondary to the 151:5 initiation of oxidative damage. 151:6 Q. Okay. And I assume by the same token, 151:7 you never shared Monsanto never shared the Parry 151:8 reports with any regulatory agency.
149:21 A. Well, the conclusions were well received. 149:22 Q. Okay. 149:23 A. The form of the report was not well 149:24 received. 149:25 Q. Okay. The conclusions were well 150:1 received 150:2 A. Mm-hmm. 150:3 Q and eventually Dr. Parry is given more 150:4 information. 150:5 A. Yes. 150:6 Q. And he writes another report with very 150:7 similar conclusions. We've walked through each of 150:8 the reports, correct? 150:9 A. Mm-hmm. 150:21 Q. Yeah. But it's your opinion that these 150:22 questions should not be shared with anyone else. 150:23 A. It was the intention to use those 150:25 further research to address them in a corrective way 151:1 and to see where exactly that we both parties 151:2 could understand what's actually going on, and 151:3 whether we have an initiation of oxidative damage and 151:4 whether possible genotoxicity was secondary to the 151:5 initiation of oxidative damage. 151:6 Q. Okay. And I assume by the same token, 151:7 you never shared Monsanto never shared the Parry
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131.0 reports with any regulatory agency.
151:9 A. That was not that was internal, you
151:10 know, expert to our company, you know, information,
151:11 and exchange of views, which had as the only
151:12 objective to inspire Monsanto to do some
151:13 supplementary research and to better understand the
151:14 effects that have been published by Peluso and
151:15 Bolognesi.
151:19 - 151:22 Martens, Mark 04-07-2017 (00:00:05) Martens.177
151:19 Q. I assume by the same
151:20 token that Monsanto never shared the Parry report
151:21 with any regulatory agencies, correct?

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Page/Line	Source	ID
152:1 - 152:2	151:22 A. That's correct.	Martens.178
102.1 - 102.2	Martens, Mark 04-07-2017 (00:00:01)	Marteris.170
	152:1 Q. Is that correct?	
152:8 - 152:18	152:2 A. That's correct, yeah.	Martens.179
102.0 - 102.10	Martens, Mark 04-07-2017 (00:00:28)	Marteris. 179
	152:8 Q. Okay. And in fact, Monsanto engaged	
	152:9 Dr. Parry in a secrecy agreement, right?	
	152:10 A. In a confidentiality agreement.	
	152:11 Q. Well, the words that you used were	
	152:12 secrecy agreement, correct?	
	152:13 A. Sometimes these words are used on the	
	152:14 document itself. In fact, it's a confidentiality	
	152:15 agreement.	
	152:16 Q. Okay. It's it's but it was a	
	152:17 secrecy agreement making Dr. Parry contractually	
450.00 450.04	152:18 agree not to share the results with anyone, correct?	Martens.180
152:20 - 152:24	Martens, Mark 04-07-2017 (00:00:17)	wartens.100
	152:20 THE WITNESS: Let me rephrase. A	
	152:21 confidentiality agreement is signed between an	
	152:22 external expert and a company in the case that a	
	152:23 company have is willing to share confidential data	
450.4 450.44	152:24 with the expert, and that is general practice.	M 404
153:4 - 153:14	Martens, Mark 04-07-2017 (00:00:24)	Martens.181
	153:4 Q. What is the Monsanto gave to Dr. Parry	
	153:5 four articles that were in the public domain,	
	153:6 correct?	
	153:7 A. That that is not the issue of a	
	153:8 confidentiality agreement. Monsanto provided to	
	153:9 Dr. Parry	
	153:10 Q. Mm-hmm.	
	153:11 A all its proprietary rights studies,	
	153:12 the regulatory studies, which are the property of	
	153:13 Monsanto, and it was within that context that the	
	153:14 confidentiality agreement was needed.	
154:4 - 154:16	Martens, Mark 04-07-2017 (00:00:15)	Martens.182
	154:4 THE WITNESS: The when you know,	
	154:5 I'm a consultant myself.	
	154:6 BY MS. WAGSTAFF:	
	154:7 Q. Mm-hmm.	
	154:8 A. If I'm asked by a company to provide	

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	154:9 advice	
	154:10 Q. Mm-hmm.	
	154:11 A on documents which are the property of	
	154:12 that company	
	154:13 Q. Mm-hmm.	
	154:14 A then always a confidentiality	
	154:15 agreement is signed, and this was exactly the same	
	154:16 situation.	
154:20 - 154:22	Martens, Mark 04-07-2017 (00:00:04)	Martens.183
	154:20 Q. Okay. And you said you received from	
	154:21 Professor Parry a signed secrecy agreement, right?	
	154:22 A. Right.	
155:8 - 155:24	Martens, Mark 04-07-2017 (00:00:34)	Martens.184
	155:8 Q. So was it your understanding then	
	155:9 that Dr. Parry could share his analysis and report	
	155:10 with other people?	
	155:11 A. Yes.	
	155:12 Q. Okay. So it's you don't believe that	
	155:13 that analysis or report is contained within the	
	155:14 secrecy agreement.	
	155:15 A. That was not why a secrecy agreement is	
	155:16 normally signed for.	
	155:17 Q. Okay. And do you think that that report	
	155:18 should be kept secret?	
	155:19 A. It's an evaluation.	
	155:20 Q. Mm-hmm.	
	155:21 A. That wasn't an open question. That was	
	155:22 never in question. We asked him for an advice, he	
	155:23 provided the advice, and then we worked on that	
	155:24 advice.	
156:23 - 156:25	Martens, Mark 04-07-2017 (00:00:07)	Martens.185
	156:23 I'm asking you why would the results	
	156:24 or and/or his analysis need to be subject to a	
	156:25 secrecy agreement?	
157:4 - 157:8	Martens, Mark 04-07-2017 (00:00:15)	Martens.180
	157:4 THE WITNESS: Yep. A secrecy or a	
	157:5 confidentiality agreement is always signed when an	
	157:6 external expert works together with a company, and	
	157:7 that company provides the external expert with data	
	157:8 which are confidential and have proprietary rights.	

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157:12 - 157:25	Martens, Mark 04-07-2017 (00:00:23)	Martens.187
107.12	157:12 I believe I understand your testimony to	
	157:14 Manageta gave him aggret deguments	
	157:14 Monsanto gave him secret documents.	
	157:15 A. No secret documents. Confidential	
	157:16 documents.	
	157:17 Q. Okay. So he signed a secrecy agreement	
	157:18 because Monsanto gave him confidential documents,	
	157:19 correct?	
	157:20 A. That is correct.	
	157:21 Q. And from those confidential documents,	
	157:22 he Dr. Parry created a report.	
	157:23 A. Mm-hmm.	
	157:24 Q. Or an analysis, an evaluation.	
	157:25 A. Yes.	
158:20 - 159:2	Martens, Mark 04-07-2017 (00:00:21)	Martens.188
	158:20 Q. And what I'm asking is why why	
	158:21 weren't his results shared more broadly?	
	158:22 A. Well, because we were awaiting the	
	158:23 results that we would be producing in order to	
	158:24 respond to his recommendations and his concerns.	
	158:25 Q. Okay. So I am understanding it correctly	
	159:1 that no one at Monsanto shared the Parry papers with	
	159:2 anyone?	
159:9 - 160:10	Martens, Mark 04-07-2017 (00:01:14)	Martens.189
	159:9 A. Well, you know, as far as the whole	
	159:10 research project was not terminated, there was no	
	159:11 reason to start sharing those evaluations and data	
	159:12 with other party.	
	159:13 Q. Okay. So the answer is, no, it was	
	159:14 not the information was not shared outside of	
	159:15 Monsanto?	
	159:16 A. No, it was not shared outside of	
	159:17 Monsanto.	
	159:18 Q. What is the Glyphosate Task Force?	
	159:19 A. The Glyphosate Task Force is is a	
	159:20 European task force, and I presume there is a similar	
	159:21 type of task force in the United States, that more or	
	159:22 less well, it assembles all the glyphosate, all	
	159:23 the companies that bring glyphosate to the market in	

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	450.04 E	
	159:24 Europe, and a part of the European Crop Protection 159:25 Association.	
	160:1 Q. Okay. And is does it have members?	
	160:2 A. Yes.	
	160:3 Q. Okay. And is Monsanto a member of the	
	160:4 Glyphosate Task Force?	
	160:5 A. Yes.	
	160:6 Q. Okay. Is it a company or a corporation?	
	160:7 A. It is a working group that resides under	
	160:8 the European Crop Protection Association, which is a	
	160:9 European association of crop protection products	
	160:10 produced.	
160:22 - 161:6	Martens, Mark 04-07-2017 (00:00:19)	Martens.190
	160:22 Q. Okay. Have you done work with the	
	160:23 Glyphosate Task Force recently?	
	160:24 A. Yes.	
	160:25 Q. In what capacity?	
	161:1 A. I represented the Glyphosate Task Force	
	161:2 at the meetings of the European Union, at the	
	161:3 European Chemicals Agency for the classification of	
	161:4 glyphosate.	
	161:5 Q. Okay. And this was recently, correct?	
	161:6 A. Yes.	
161:14 - 161:21	Martens, Mark 04-07-2017 (00:00:16)	Martens.191
	161:14 Did you get paid for your work with the	
	161:15 Glyphosate Task Force that you just mentioned	
	161:16 recently?	
	161:17 A. As a consultant, yes.	
	161:18 Q. Okay. And does the task force itself pay	
	161:19 you for that work?	
	161:20 A. Ultimately the task force pays me for the	
	161:21 services provided.	
162:10 - 162:24	Martens, Mark 04-07-2017 (00:00:42)	Martens.192
	162:10 Q. Okay. And what's that consulting work	
	162:11 that you're doing for Monsanto with respect to	
	162:12 glyphosate within the last year and a half or	
	162:13 A. That was all in relation to the European	
	162:14 classification and resubmission of glyphosate in	
	162:15 Europe.	
	162:16 Q. Okay. So you were a consultant for the	

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	don de Charles de Tarle France de Labor (au Marcana)	
	162:17 Glyphosate Task Force and also for Monsanto.	
	162:18 A. Well, you know, I was within the	
	162:19 contract that I had with Monsanto, I got sanctioned	
	162:20 as a representative of Glyphosate Task Force.	
	162:21 Q. Okay. So it was Monsanto who paid you	
	162:22 for that work on the Glyphosate Task Force.	
	162:23 A. And back charged to the Glyphosate Task	
163:21 - 163:22	162:24 Force. Martens, Mark 04-07-2017 (00:00:04)	Martens.193
	163:21 Q. So how much money do you believe that you	
	163:22 were paid for that consultancy work?	
164:1 - 164:10	Martens, Mark 04-07-2017 (00:00:13)	Martens.194
104.1	•	
	164:1 A. Oh, it must have been something like	
	164:2 60,000 Euros.	
	164:3 Q. 60,000 Euros	
	164:4 A. Yes.	
	164:5 Q is that what you said? Okay.	
	164:6 And that was over a period of you said	
	164:7 since last summer, and right now it's	
	164:8 A. Eight months, something like	
	164:9 Q. Eight months. Okay.	
164:15 - 164:20	164:10 A. Eight or nine months.	Martens.105
104:15 - 104:20	Martens, Mark 04-07-2017 (00:00:14)	wartens.195
	164:15 And does your consultancy agreement state	
	164:16 that you cannot work for Monsanto competitors?	
	164:17 A. No.	
	164:18 Q. No. There's no clause that says you can	
	164:19 only consult for Monsanto?	
	164:20 A. There is no exclusivity clause.	
165:11 - 166:1	Martens, Mark 04-07-2017 (00:00:46)	Martens.196
	165:11 Q. Okay. We have talked throughout the day	
	165:12 about reports that Dr. Parry has written, correct?	
	165:13 A. Yes.	
	165:14 Q. And each of those reports had certain	
	165:15 analyses or or evaluations or conclusions	
	165:16 contained within them, correct?	
	165:17 A. Yes.	
	165:18 Q. Did Dr. Parry ever write to you a	
	165:19 retraction of those conclusions, evaluations or	
	165:20 analyses?	

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	Martens-As Played at Pilliod	
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	165:21 A. I don't recall that.	
	165:22 Q. Did Dr. Parry ever write a version of a	
	165:23 report where his evaluations or conclusions were	
	165:24 inconsistent with the ones the evaluations and	
	165:25 conclusions we looked at today?	
166:2 - 166:7	166:1 A. I don't recall such a report.	Martens.197
100.2 100.7	Martens, Mark 04-07-2017 (00:00:23)	
	166:2 Q. Did did you ever	
	166:3 receive any written confirmation from Dr. Parry that	
	166:4 Monsanto has satisfied the questions that he posed	
	166:5 that we went over today?	
	166:6 A. That was written in a meeting report that	
166:16 - 166:18	166:7 was sent out by Richard Garnett. Martens, Mark 04-07-2017 (00:00:07)	Martens.198
100.10 100.10	166:16 So I'm wondering is there any written	
	166:17 confirmation from Dr. Parry that his questions have	
	166:18 been answered in any way?	
166:23 - 167:14	Martens, Mark 04-07-2017 (00:00:36)	Martens.199
	166:23 THE WITNESS: The conclusions that were	
	166:24 written down by the conclusions of the meeting	
	166:25 that were written down by Richard Garnett or the	
	167:1 conclusions that were reached together with Dr. Parry	
	167:2 in his meeting were genuinely reflecting the	
	167:3 conclusions that we all together reached at that	
	167:4 meeting.	
	167:5 BY MS. WAGSTAFF:	
	167:6 Q. Okay. So my question was, did you ever	
	167:7 receive written confirmation from Dr. Parry that his	
	167:8 questions had been answered, and it sounds like, no,	
	167:9 you didn't.	
	167:10 A. No, we didn't, but I had a continued	
	167:11 relationship with Dr. Parry afterwards as well.	
	167:12 Q. Sure. But you never received written	
	167:13 confirmation from him, correct?	
	167:14 A. Not that I recall.	
169:15 - 169:16	Martens, Mark 04-07-2017 (00:00:04)	Martens.200
	169:15 MS. WAGSTAFF: Yeah, and this is what	
	169:16 we're going to label Exhibit 12 and	MARTENS9-12.1
171:20 - 171:23	Martens, Mark 04-07-2017 (00:00:09)	Martens.201
	171:20 Q. So this appears to be a PowerPoint that	

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	171:01 youlve greated. Do you remember this DowerPoint?	
	171:21 you've created. Do you remember this PowerPoint? 171:22 A. I I recall the images when I see them	
	171:23 now, yes.	
172:5 - 173:1	Martens, Mark 04-07-2017 (00:00:44)	Martens.202
	172:5 Q. So do you remember making this	
	172:6 PowerPoint?	
	172:7 A. Yes, yes. I remember the some of the	
	172:8 pictures, yes.	
	172:9 Q. All right. And so when you made this,	
	172:10 you were not an employee of Monsanto, correct?	
	172:11 A. I was an employ employee of Monsanto	
	172:11 A: I was all employee of monsanto	
	172:13 Q. Oh, you were. Okay.	
	172:14 A. Yeah.	
	172:15 Q. So you made this presentation before	
	172:16 2003?	
	172:17 A. Yes.	
	172:18 Q. Okay. And and what did you make this	
	172:19 presentation for?	
	172:20 A. That presentation was given at the	
	172:21 occasion of an internal technology meeting of	
	172:22 Monsanto Europe.	
	172:23 Q. Okay. And so just help me understand,	
	172:24 who was the audience that you were presenting to?	
	172:25 A. It was all European Monsanto technology	
	173:1 researchers.	
173:2 - 174:6	Martens, Mark 04-07-2017 (00:01:12)	Martens.203
	173:2 Q. Okay. And do you remember why you gave	
	173:3 this presentation?	
	173:4 A. This presentation well, Monsanto	
	173:5 Europe organizes on a regular basis scientific	
	173:6 meetings to educate their personnel and to put them	clear
	173:7 aware of new findings in in science that is of	
	173:8 application to the agricultural products of Monsanto.	
	173:9 And at the tech days 2001, which were organized in	
	173:10 Brussels, the theme was surfactants.	
	173:11 Q. Okay. At the what days? I just didn't	
	173:12 hear what you said.	
	173:13 A. Well, there was internal technology	
	173:14 meeting days were called the tech days.	

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	173:15 Q. Oh, tech days. Okay. Got it.	
	173:16 So tech days 2001 was in Brussels	
	173:17 A. Yes.	
	173:18 Q and the theme was surfactants.	
	173:19 A. Yes.	
	173:20 Q. And this was your presentation at that.	
	173:21 A. Right.	
	173:22 Q. You remember that?	
	173:23 A. Right.	
	173:24 Q. Okay. And so you put this data together	
	173:25 at that point, right?	
	174:1 A. Right.	
	174:2 Q. Okay. And this isn't a PowerPoint	
	174:3 someone else made and gave to you, correct?	
	174:4 A. No, no, this is my PowerPoint.	
	174:5 Q. You made it, this is your thoughts?	
174:10 - 174:25	174:6 A. Yes.	Martens.204
174.10 - 174.20	Martens, Mark 04-07-2017 (00:00:52)	Marteris.204
	174:10 Q. Okay. So, unfortunately, there aren't	
	174:11 names or page numbers on it, but I will kind of	
	174:12 guide you by picture. Okay?	
	174:14 A. Okay.	
	174:14 Q. Okay. If you go to the thing that says 174:15 "Surfactant Technology, Specific Toxicity Cases."	MARTENS9-12.15
	174:15 Surfactant Technology, Specific Toxicity Cases. 174:16 It's kind of far back, and then it will be easy from	
	174:10 it's kind of far back, and ther it will be easy from 174:17 there. It looks like this (indicating).	
	174:17 there. It looks like this (indicating).	
	174:10 A. 163. 174:19 Q. Okay.	
	174:19 Q. Okay. 174:20 A. I have it.	
	174:21 Q. And these are all slides from your	
	174:22 PowerPoint, right?	
	174:23 So it looks like you were educating your	
	174:24 audience about the toxicology of surfactants, right?	
	174:25 A. Yes.	
175:3 - 175:13	Martens, Mark 04-07-2017 (00:00:29)	Martens.205
	175:3 In doing so, you noted the Peluso case,	
	175:4 right?	
	175:5 A. Yes. One well, the results of our	
	175:6 additional research were available at that time, and	
	175:7 one of the initiatives was actually to inform	
	•	

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	175:8 personnel technology personnel in Monsanto about	
	175:9 the results.	
	175:10 Q. Mm-hmm.	
	175:11 A. And also at the same time in parallel, we	
	175:12 were preparing the poster for the Society of	
475.40 477.44	175:13 Toxicology meeting in San Francisco.	Martens.200
175:18 - 177:11	Martens, Mark 04-07-2017 (00:01:50)	wartens.200
	175:18 Q. My question was, in educating these	
	175:19 folks, you noted the Peluso case, right?	
	175:20 A. Yes.	
	175:21 Q. Okay. And you talk about the Peluso case	
	175:22 and you talk about MON 35050, which is what we've	
	175:23 been talking about all morning, the Italian	
	175:24 formulation, right?	
	175:25 A. Yes.	
	176:1 Q. And that's the MON 35050 is also the	
	176:2 formulation used in the Peluso and the the	
	176:3 A. Bolognesi.	
	176:4 Q Bolognesi paper.	
	176:5 A. Yes.	
	176:6 Q. Right?	
	176:7 A. Yes.	
	176:8 Q. Okay. And it says: "The in vivo	
	176:9 genotoxicity finding was cause of concern to	
	176:10 regulatory authorities."	
	176:11 Correct?	
	176:12 A. Yes.	
	176:13 Q. Okay. So now these are your thoughts	
	176:14 that the genotoxicity finding in vivo was of concern,	
	176:15 correct?	
	176:16 A. Yes.	
	176:17 Q. Okay. And this is then you're	
	176:18 you're going on to educate these people who are	MARTENS9-12.10
	176:19 listening to your presentation about the toxicity of	
	176:20 surfactants, and you said: "To better understand the	
	176:21 significance, Monsanto undertook research to examine	
	176:22 the role of intraperitoneal versus oral, DMSO olive	
	176:23 oil versus saline, and then the Italian formulation	
	176:24 with and without glyphosate." Right?	
	176:25 A. Yes, exactly.	
	· · · · · · · · · · · · · · · · · · ·	

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	177:1 Q. So I just want to make sure that I	
	177:2 understand what additional research Monsanto	
	177:3 undertook. Was that the 2008 article that we've been	
	177:4 talking about?	
	177:5 A. Yes.	
	177:6 Q. And was there any other research Monsanto	
	177:7 undertook?	
	177:8 A. No. That was that research.	
	177:9 Q. Okay. And do you remember about what	
	177:10 month this presentation occurred in 2001?	
177.00 170.0	177:11 A. That must have been very early 2001.	Mantana 007
177:22 - 178:3	Martens, Mark 04-07-2017 (00:00:14)	Martens.207
	177:22 Q. Okay. And so your the the results	
	177:23 from your new study weren't finalized at this point;	
	177:24 is that correct?	
	177:25 A. I think they were known by that time,	
	178:1 yes.	
	178:2 Q. Okay. So do you include them in this	
170.5 170.0	178:3 PowerPoint?	Mantana 000
178:5 - 178:6	Martens, Mark 04-07-2017 (00:00:03)	Martens.208
	178:5 Yeah, the conclusions of that study were	
170.11 170.0	178:6 mentioned on a slide.	Mantana 000
178:14 - 179:3	Martens, Mark 04-07-2017 (00:00:35)	Martens.200
	178:14 Q. Okay. So this is these are your	
	178:15 conclusions	
	178:16 A. Mm-hmm.	MARTENO
	178:17 Q from the MON 35050 case.	MARTENS9-10.1
	178:18 So the MON 350 case is your 2008 study,	
	178:19 correct?	
	178:20 A. Yes.	
	178:21 Q. Okay. And just so we're clear, this is	
	178:22 the this is the 2008 study that Bill Heydens is	
	178:23 the lead coauthor, right?	
	178:24 A. Mm-hmm.	
	178:25 Q. And it's called "Genotoxic Potential of	
	179:1 Glyphosate Formulations: Mode-of-Action	
	179:2 Investigations," correct?	
170.40 170.01	179:3 A. Yes, correct.	M 040
179:10 - 179:21	Martens, Mark 04-07-2017 (00:00:38)	Martens.210
	179:10 Q. If this was done in 2001, previous to	

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	179:11 to this research, why did it take seven years to	
	179:12 publish it in a journal?	
	179:13 A. Well, we were very fast in actually	
	179:14 bringing it into the open because we communicated the	
	179:15 results via a poster on the at the Society of	
	179:16 Toxicology meeting in San Francisco. So those	
	179:17 results were in the open and were actually shared	
	179:18 with the outside world for discussion.	
	179:19 To turn all those results into a	
	179:20 publication, that calls for a lot of work, and while	
	179:21 that has been done after I left Monsanto in 2003.	
180:7 - 180:9	Martens, Mark 04-07-2017 (00:00:12)	Martens.211
	180:7 Q. Okay. So when you left Monsanto in 2003,	
	180:8 the results of this MON 35050 case study were not	clear
	180:9 published, correct?	
180:16 - 180:21	Martens, Mark 04-07-2017 (00:00:16)	Martens.212
	180:16 A. They were already put into the open via	
	180:17 our poster presentation.	
	180:18 Q. Okay. And so this MON 35050 case study,	
	180:19 when you left Monsanto in 2013 was not in	
	180:20 published in a journal, correct?	
	180:21 A. That is correct, yes.	
183:19 - 183:25	Martens, Mark 04-07-2017 (00:00:20)	Martens.213
	183:19 Q. Well, I will ask one question about your	
	183:20 study, that is the 2008 study. Was that a risk	
	183:21 assessment?	
	183:22 A. It was meant to be a mechanistic study,	
	183:23 if I may say so.	
	183:24 Q. So is that a risk assessment?	
	183:25 A. No.	DEPOSLIP.1
187:24 - 189:9	Martens, Mark 04-07-2017 (00:01:16)	Martens.214
	187:24 You are a toxicologist, correct, sir?	
	187:25 A. Yes, sir.	
	188:1 Q. Would you please tell the jury what a	
	188:2 toxicologist is.	
	188:3 A. A toxicologist is a scientist who studies	
	188:4 the effects of chemical substances on the health of	
	188:5 animals and men.	
	188:6 Q. And you have a Ph.D. in toxicology?	
	188:7 A. Yes.	

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	188:8 Q. Did you start your career as what is	
	188:9 called a forensic toxicologist?	
	188:10 A. Yes, I did.	
	188:11 Q. Would you please explain to the jury what	
	188:12 a forensic toxicologist is.	
	188:13 A. A forensic toxicologist is a scientist	
ls e	188:14 who actually, you know, designs and applies methods	
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	· · · · · · · · · · · · · · · · · · ·	
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Martens.215		189:10 - 191:4
	Martens, Mark 04-07-2017 (00.01.03)	
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I	•	
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	•	
- Martens.2	188:15 of analysis to determine the concentration of toxic 188:16 substances in body fluids and tissues of people and 188:17 of victims in order to establish a causal 188:18 relationship between a crime and, for example, the 188:19 the death of the victim. 188:20 Q. Okay. And that was a little bit of a 188:21 technical explanation. 188:22 You're one of the scientists that works 188:23 for police departments or detectives 188:24 A. Yes. 188:25 Q to investigate poisons and other 189:1 A. Right. 189:2 Q substances that might have hurt 189:3 someone in a crime? 189:4 A. Yes. 189:5 Q. Is that a is that a good explanation? 189:6 A. That is a good explanation, yes. 189:7 Q. Did you do a residency with Scotland Yard 189:8 in England? 189:9 A. Yes, I did. 189:10 Q. And tell us in a sentence or two what you 189:11 did there. 189:12 A. During my residency at Scotland Yard, 189:13 which is the Metropolitan Police Laboratories in 189:14 London, I spent time in acquiring knowledge and 189:15 refining my knowledge in terms of the analysis of 189:16 toxic substances in body fluids and tissues. 189:17 Q. After your forensic toxicology work as a 189:18 student and as a resident at Scotland Yard, what did 189:19 you go on to do next in your career? 189:20 A. After my Ph.D., I joined the 189:21 pharmaceutical industry.	189:10 - 191:4

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	189:22 Q. Well, what company did you join?	
	189:23 A. Continental Pharma in Brussels.	
	189:24 Q. And what was your job duty with	
	189:25 Continental Pharmaceuticals in Brussels?	
	190:1 A. I was the head of the department of mass	
	190:2 spectometry, pharmacokinetics and metabolism.	
	190:3 Q. You said "pharmacokinetics." What is	
	190:4 pharmacokinetics?	
	190:5 A. Pharmacokinetics is the study of the	
	190:6 behavior of chemical substances in the human body.	
	190:7 Q. How the chemicals move through the body?	
	190:8 A. And how they are excreted from the body	
	190:9 as well.	
	190:10 Q. And you said "metabolism." What is that?	
	190:11 A. The metabolism is a series of chemical	
	190:12 reactions that take place in the liver and which lead	
	190:13 to breakdown products, which are can be either	
	190:14 toxic, nontoxic, and which are excreted through the	
	190:15 kidneys from the body.	
	190:16 Q. You also mentioned mass spectrometry, and	
	190:17 that's a tool that's used to assess chemicals, right?	
	190:18 A. That's a tool that is used to identify	
	190:19 and characterize and quantify chemicals that, you	
	190:20 know, are present in body fluids and tissues.	
	190:21 Q. What did you do after your work at	
	190:22 Continental Pharma?	
	190:23 A. After Continental Pharma, I joined the	
	190:24 Belgium authorities as a specialist in clinical	
	190:25 biochemistry first, as an inspector, and then	
	191:1 afterwards I joined the toxicologists, where I became	
	191:2 head of the toxicology department, and actually	
	191:3 founded the toxicology department at the National	
	191:4 Institutes of Health.	
91:5 - 192:11	Martens, Mark 04-07-2017 (00:01:19)	Martens.216
	191:5 Q. And when you say the "Belgian	
	191:6 authorities," that's the same as the National	
	191:7 Institutes of Health?	

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191:8 A. Well, Belgium is a small country, so we 191:9 don't have a separate institute like National

191:10 Institutes of Health, but I worked -- at the time it

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	191:11 was called the Institute of Hygiene and Epidemiology,	
	191:12 which was actually the scientific research institute	
	191:13 of the Ministry of Health.	
	191:14 Q. Now, sir, as you said, in the United	
	191:15 States we have a whole agency called the National	
	191:16 Institutes of Health that does scientific research,	
	191:17 and we also have the Environmental Protection Agency	
	191:18 which regulates pesticides.	
	191:19 In Belgium, does the same organization do	
	191:20 both of those things?	
	191:21 A. In Belgium, it's a collaboration between	
	191:22 the Ministry and the Scientific Institute for Public	
	191:23 Health.	
	191:24 Q. And that's where you worked, right?	
	191:25 A. Yes.	
	192:1 Q. How long were you a regulator in Belgium?	
	192:2 A. Ten years.	
	192:3 Q. And what what was your role there?	
	192:4 What did you do at the institute?	
	192:5 A. I was the head of the department of	
	192:6 toxicology, and in that function I was the primary	
	192:7 advisor of the Minister of Health of Belgium. And at	
	192:8 the same time I had to represent my country at the	
	192:9 meetings of the European Union, the commission of the	
	192:10 European Union, at OECD, and at other international	
400:40 400:E	192:11 meetings like, for example, IPCS.	Martens.217
192:12 - 193:5	Martens, Mark 04-07-2017 (00:00:43)	wartens.21/
	192:12 Q. Were you involved in inspections of	
	192:13 companies and approval of their products?	
	192:14 A. That was also	
	192:15 Q. Or disapproval of their products?	
	192:16 A. Yes, that was indeed the case.	
	192:17 Q. After your work as a regulator in Belgium	
	192:18 for 10 years, what did you do next? 192:19 A. I joined Monsanto in Brussels.	
	•	
	192:20 Q. What were your responsibilities at	
	192:21 Monsanto, broadly speaking?	
	192:22 A. At the time when I joined Monsanto, 192:23 Monsanto had a very large chemical division next to	
	192:24 the agrochemical division and the food division, and	
	192.24 the agrochemical division and the 1000 division, and	

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	192:25 I was responsible for the whole portfolio of Monsanto 193:1 products for all these sectors in Europe and Africa. 193:2 Q. And it was a Europe it was a regional 193:3 responsibility for Europe, Africa and the Middle 193:4 East? 193:5 A. Yes.	
193:14 - 193:25	Martens, Mark 04-07-2017 (00:00:35)	Martens.218
	193:14 Now, over your 45-year career as a 193:15 toxicologist, how many different substances have you 193:16 worked with toxicologically speaking? 193:17 A. I've seen the toxicology profiles of at 193:18 least 1,000 products. 193:19 Q. And out of the at least thousand products 193:20 that you have worked with as a toxicologist, how does 193:21 glyphosate compare regarding with regard to 193:22 toxicity? 193:23 A. Of all the compounds I assist during my 193:24 whole career, glyphosate is certainly one of the	
194:5 - 194:24	193:25 least toxic I've ever seen.	Martens.210
	Martens, Mark 04-07-2017 (00:00:50) 194:5 Q. Now, what do toxicologists call the body 194:6 of studies, the group of studies and scientific data 194:7 regarding a particular substance like glyphosate? 194:8 A. As a toxicology dossier. 194:9 Q. Okay. So the dossier. 194:10 How large is the toxicology dossier on 194:11 glyphosate? 194:12 A. The toxicology dossier of glyphosate is 194:13 actually the largest I've ever seen in my whole 194:14 career. 194:15 Q. Now, when glypho glyphosate is used, 194:16 of course, to kill weeds, right? 194:17 A. Yes. 194:18 Q. How does it do that? What does it do to 194:19 weeds that makes them die? 194:20 A. It inhibits specifically an enzyme that 194:21 is responsible for the production of an amino acid, 194:22 which is very essential for the survival of the 194:23 plant. When that enzyme is blocked, then the plant	

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195:5 - 195:8	Martens, Mark 04-07-2017 (00:00:11)	Martens.220
100.0 100.0	195:5 Q. The enzyme that glyphosate blocks in	
	195:6 plants, does that exist in humans?	
	195:7 A. No, it does not exist in humans and it	
	195:8 does not exist in all mammals.	
195:14 - 196:4	Martens, Mark 04-07-2017 (00:00:51)	Martens.221
	195:14 Q. Is it possible for glyphosate to harm	
	195:15 humans or cats and dogs and cows and other mammals	
	195:16 through the same way that it harms weeds?	
	195:17 A. No, that's not possible.	
	195:18 Q. I want to talk for a minute about the	
	195:19 issue of exposure. Would you please explain to the	
	195:20 jury why toxicologists care about exposure.	
	195:21 A. Actually, the compound is toxic when the	
	195:22 dose is high enough to exert a toxic action. So	
	195:23 there are chemicals with a low potential of toxicity	
	195:24 and a high potential of toxicity. The chemicals with	
	195:25 a low potential of toxicity need much higher doses to	
	196:1 cause illness in man; whereas, the chemicals with a	
	196:2 high potential for toxicity only need very lower	
	196:3 doses and even very minor doses to cause illness in	
	196:4 man.	
198:4 - 198:19	Martens, Mark 04-07-2017 (00:00:58)	Martens.222
	198:4 In the real world, what is the level of	
	198:5 exposure that humans have to glyphosate?	
	198:6 A. The level of exposure is very low, and it	
	198:7 has been demonstrated in a farm family study where	
	198:8 glyphosate exposure in farmers has been monitored by	
	198:9 analyzing glyphosate in urine, and from that project,	
	198:10 which has been, you know, carried out on at least	
	198:11 50 something like 50 farms farmers and their	
	198:12 families, we could assess that the quantity that has	
	198:13 been absorbed after one day of using glyphosate and	
	198:14 applying glyphosate on surfaces as high as 400 acres	
	198:15 per day, that the quantity that is absorbed that day	
	198:16 is actually about even more than 10 million times 198:17 lower than the quantities that in one day we had to	
	· · · · · · · · · · · · · · · · · · ·	
	198:18 use in animals in order to, you know, to assess	
205:4 - 205:16	198:19 possibly carcinogenicity. Martens, Mark 04-07-2017 (00:00:33)	Martens.223
	Martons, Mark 07-07-2017 (00.00.00)	

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	205:4 Q. Now, you said that Monsanto we've just	
	205:5 been talking about long-term cariogenicity studies,	
	205:6 cancer studies of glyphosate.	
	205:7 A. Right.	
	205:8 Q. Not of Roundup.	
	205:9 Has Monsanto done long-term cariogenicity	
	205:10 studies of Roundup?	
	205:11 A. These type of studies were not carried	
	205:12 out because they are scientifically of no added value	
	205:13 for a very simple reason: If you administer Roundup	
	205:14 to, you know, experimental animals for their	
	205:15 lifetime, they actually will die from the surfactant	
206:3 - 206:8	205:16 before they ever have the occasion to develop cancer.	Martens.224
200.3 - 200.8	Martens, Mark 04-07-2017 (00:00:08)	Wal (6113.224
	206:3 Surfactants are in dishwashing liquid.	
	206:4 A. Yes.	
	206:5 Q. They're in bar soap.	
	206:6 A. Yes.	
	206:7 Q. They're in shampoo.	
206:14 - 206:16	206:8 A. Yes.	Martens.225
200.14 - 200.10	Martens, Mark 04-07-2017 (00:00:04)	Martons.225
	206:14 Q. They're in substances that we use to	
	206:15 spray on the walls of our house to clean it?	
206:24 - 207:15	206:16 A. Yes.	Martens.220
200.24 - 207.10	Martens, Mark 04-07-2017 (00:00:56)	Martons.220
	206:24 Q. And what happens to an animal or a person	
	206:25 if they drink, consume surfactants at the levels that	
	207:1 you would have to give in a long-term carcinogenicity	
	207:2 study?	
	207:3 A. As surfactants have the characteristic to	
	207:4 be irritating to mucous membranes, so if you drink	
	207:5 if you are, from a gastrointestinal point of view,	
	207:6 are exposed to high concentrations of surfactants,	
	207:7 you actually produce a chronic irritation of the	
	207:8 mucous membranes of the gastrointestinal tract, and	
	207:10 the result is that you know there will be a let of	
	207:10 the result is that, you know, there will be a lot of 207:11 water extracted from the bloodstream into the	
	207:13 thickening of the blood, which can actually end up	
	207:13 thickening of the blood, which can actually end up	

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	207:14 into a hypothalamic shock, and of which animals can	
208:2 - 208:8	207:15 die. Mortone Mark 04 07 2017 (00:00:22)	Martens.227
200.2 200.0	Martens, Mark 04-07-2017 (00:00:22)	
	208:2 Q. Now, the jury has heard that a lot of the	
	208:3 studies on glyphosate, including glyphosate cancer	
	208:4 studies, were performed by Monsanto, for example, at 208:5 the Environmental Health Lab in St. Louis.	
	208:6 How do regulators know that they can	
	208:7 trust studies done by industry labs like the 208:8 Environmental Health Lab at St. Louis?	
208:13 - 209:6	Martens, Mark 04-07-2017 (00:00:39)	Martens.228
200.10 200.0	208:13 A. The the laboratories for toxicology	
	208:14 studies are carried out for regulatory purposes.	
	208:15 They need to be accredited for good laboratory	
	208:16 practices. That means they will have to follow	
	208:17 extremely stringent procedures of quality control to	
	208:18 make sure that processes are followed, to make sure	
	208:19 that at all levels of data production, these data are	
	208:20 controllable and can be checked by the authorities.	
	208:21 Q. Now, you said "good laboratory	
	208:22 practices." 208:23 A. Mm-hmm.	
	208:24 Q. Is that your term?	
	208:25 A. No, that's the official term which has	
	209:1 been at the highest level possible applied at OECD	
	209:2 where at the first time the "good laboratory	
	209:3 practices" have been defined.	
	209:4 Q. Is one of the chapters in your book on	
	209:5 good laboratory practices? 209:6 A. Yes.	
209:10 - 209:12		Martens.220
200.10 200.12	Martens, Mark 04-07-2017 (00:00:05)	
	209:10 Q. And have you done good laboratory	
	209:11 practices inspections?	
209:21 - 209:24	209:12 A. Yes. Mortone Mark 04 07 2017 (00:00:12)	Martens.230
203.21 - 203.24	Martens, Mark 04-07-2017 (00:00:12)	martono.200
	209:21 Q. How do regulators know that industry labs	
	209:22 that are following good laboratory practices aren't	
	209:23 just cooking the data and making stuff up or telling	
210:1 - 210:10	209:24 lies to the regulators?	Martens.231
210.1 - 210.10	Martens, Mark 04-07-2017 (00:00:27)	

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	210:1 THE WITNESS: The the regulatory	
	210:2 authorities organize on a regular basis inspections.	
	210:3 And also when the study reports are submitted to the	
	210:4 regulatory authorities, they should contain all the	
	210:5 inspection reports of the internal quality assurance	
	210:6 unit of the laboratory, which is an independent unit	
	210:7 in the laboratory reporting to a completely	
	210:8 independent management from the laboratory, and	
	210:9 making sure that all the procedures are in place and	
04004 0444	210:10 that all the inspections are documented.	M
210:24 - 211:1	Martens, Mark 04-07-2017 (00:00:09)	Martens.232
	210:24 Q. Why how do we know that the people who	
	210:25 are watching the scientists and watching the	
	211:1 procedures are following the rules?	
211:3 - 211:15	Martens, Mark 04-07-2017 (00:00:40)	Martens.233
	211:3 THE WITNESS: There is the quality	
	211:4 assurance unit within the toxicology laboratory	
	211:5 reporting to outside toxicology laboratory needs to	
	211:6 actually to accept on a regular basis inspections	
	211:7 from the authorities, and when the inspection reports	
	211:8 are acceptable, they acquire what is called a GLP	
	211:9 accreditation. And they need to have the GLP	
	211:10 accreditation at regular renewals of that in order to	
	211:11 stay in function. And when the laboratory has a	
	211:12 quality assurance unit or in its role no	
	211:13 accreditation, this laboratory has no possibility to	
	211:14 submit its test results to the authorities, they will	
	211:15 be refused.	
211:22 - 212:16	Martens, Mark 04-07-2017 (00:00:51)	Martens.234
	211:22 Q. And the regulators also come in and	
	211:23 perform inspections of the lab and the the	
	211:24 independent auditing unit	
	211:25 A. Yeah.	
	212:1 Q for the lab as well, right?	
	212:2 A. Yes. On a regular basis.	
	212:3 Q. I would like to turn to the issue of	
	212:4 Dr. Parry.	
	212:5 When you reached out to Dr. Parry in	
	212:6 1999, you sent him four of the studies that existed	
	212:7 at the time on the subject of genotoxicity, correct?	

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	212:8 A. Yes.	
	212:9 Q. And there were other studies that you	
	212:10 didn't send him at the time, right?	
	212:11 A. Well, the study well, there were the	
	212:12 studies the regulatory studies which have been	
	212:13 produced by Monsanto, they were not sent in the first	
	212:14 place to Dr. Parry for evaluation because they've	
	212:15 been evaluated by the authorities and who came to the	
	212:16 conclusion that glyphosate was not genotoxic.	
212:25 - 213:3	Martens, Mark 04-07-2017 (00:00:09)	Martens.235
	212:25 Q. And when he did his initial evaluation,	
	213:1 as you testified earlier, he hadn't yet looked at the	
	213:2 Monsanto studies and the regulatory studies, right?	
	213:3 A. Right.	
213:17 - 213:23	Martens, Mark 04-07-2017 (00:00:19)	Martens.236
	213:17 What I'm putting up on the screen is from	
	213:18 Exhibit 4, Bates number ending 103.	MARTENS9-4.11
	213:19 And during Ms. Wagstaff's examination,	
	213:20 she highlighted and asked you about the first	
	213:21 sentence in that first full paragraph on the page,	
	213:22 sir, saying: "The overall data provided by the four	
	213:23 publications"	
214:4 - 214:18	Martens, Mark 04-07-2017 (00:00:39)	Martens.237
	214:4 "The overall data provided by the four	
	214:5 publications provide evidence to support a model that	
	214:6 glyphosate is capable of producing genotoxicity, both	
	214:7 in vivo and in vitro, by a mechanism based upon the	
	214:8 production of oxidative damage?"	
	214:9 And you talked about that earlier. I	
	214:10 would like to go on and talk about the rest of that	
	214:11 paragraph right now, sir.	
	214:12 It says: "If confirmed, such a mechanism	
	214:13 of genetic damage would be expected to be produced at	
	214:14 high concentrations of the herbicide and would be	
	214:15 relevant only when the antioxidant protective	
	214:16 mechanisms of the cell are overwhelmed."	
	214:17 Did I read that right?	
	214:18 A. Yes.	
214:24 - 215:12	Martens, Mark 04-07-2017 (00:00:34)	Martens.238
	214:24 And but what I would like you to do	

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	214:25 now is explain to the jury what is meant by: You	
	215:1 would expect if there is such a mechanism, if such a	
	215:2 mechanism exists and such a mechanism is confirmed,	
	215:3 then it would be expected to be produced at high	
	215:4 concentrations and would be relevant only when the	
	215:5 antioxidant protective mechanisms of the cell are	
	215:6 overwhelmed.	
	215:7 A. Yes.	
	215:8 Q. That's a dose statement, correct?	clear
	215:9 A. Yes, correct.	clear
	215:10 Q. Could you explain what he means by the	
	215:11 antioxidant protective mechanisms of the cell being	
045.45 040.5	215:12 overwhelmed by high doses of pesticide?	Martens.230
215:15 - 216:5	Martens, Mark 04-07-2017 (00:00:49)	Wartens.239
	215:15 THE WITNESS: The cell disposes of a	
	215:16 whole series of molecules which are of a kind to	
	215:17 neutralize free oxygen radicals. One of those	
	215:18 molecules is, for example, glutathione, and that is	
	215:19 actually a mechanism of the cell to protect itself	
	215:20 against oxidative damage.	
	215:21 Now, you can be exposed to a chemical	
	215:22 producing oxidative free radicals, but as long as	
	215:23 those free radicals oxygen free radicals are	
	215:24 neutralized by these molecules, nothing is happening	
	215:25 because the cell is fully protected.	
	216:1 So only when the stock of those	
	216:2 protective molecules is consumed, then there will be	
	216:3 free oxygen radicals that will not anymore be	
	216:4 neutralized, and they start actually reacting with	
046.7 047.04	216:5 constituents of the cell of which DNA.	Martens.240
216:7 - 217:21	Martens, Mark 04-07-2017 (00:01:59)	Wartens.240
	216:7 Q. So you can have a different outcome with	
	216:8 regard to what happens with oxidative damage at low	
	216:9 doses versus very high concentrated doses; is that	
	216:10 right?	
	216:11 A. That is right.	
	216:12 Q. Is that what you found when you actually	
	216:13 did studies of animals and gave them very high doses	
	216:14 orally and intraperitoneally?	
	216:15 A. Yes.	

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218:3 Q. And -- I'm sorry. What other -- what

218:4 other modifications and improvements did you make to

218:5 the Bolognesi study?

218:6 A. The improvements that were made was, for

218:7 example, also the selection of the indicator for

218:8 oxidative stress. It was the NADP, nicotinaminde

218:9 adenine, oxidative stress transcription. It's a

218:10 complicated term. But it was at that time the most

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	Martens-As Played at Pilliod	
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	218:11 recent methodology in order in a very sensitive	
04040 0404	218:12 and specific way to identify oxidative stress.	W 040
218:18 - 219:4	Martens, Mark 04-07-2017 (00:00:28)	Martens.242
	218:18 Q. Now, you mentioned you talked earlier	
	218:19 about how once these results came out, they were	
	218:20 provided to the authorities and they were part of a	
	218:21 poster presentation in San Francisco; is that right?	
	218:22 A. Yes, that's right.	
	218:23 Q. And when something is published as a	
	218:24 poster presentation, is it available to the general	
	218:25 scientific community to see and review?	
	219:1 A. Yes. Exactly.	
	219:2 Q. And the same results were also published	
	219:3 in 2008 in a paper that you were a coauthor on?	
	219:4 A. Yes.	
219:22 - 220:2	Martens, Mark 04-07-2017 (00:00:15)	Martens.243
	219:22 Q. I have marked as Exhibit 18 a	
	219:23 February 19th, 2001 e-mail from Bill Heydens to	MARTENS9-18.1
	219:24 Larry Kier, and you're copied on some of the rest of	
	219:25 the thread.	
	220:1 Go ahead and take a look at that, sir,	
	220:2 and tell me when you're ready?	
220:4 - 220:4	Martens, Mark 04-07-2017 (00:00:03)	Martens.244
	220:4 Yes, I'm ready.	
220:14 - 220:19	Martens, Mark 04-07-2017 (00:00:22)	Martens.245
	220:14 Q. And on the second page of the two pages	MARTENS9-18.2
	220:15 of this exhibit is an e-mail from Richard Garnett	
	220:16 dated February 16th, 2001, to you and to Donna	
	220:17 Farmer, Bill Heydens and Bill Graham, reporting on	
	220:18 your meeting with Dr. Parry, correct?	
	220:19 A. Yes.	
221:4 - 221:14	Martens, Mark 04-07-2017 (00:00:23)	Martens.246
	221:4 Q. Then "The presentation of the results of	
	221:5 the MON 35050 study changed the mood because it	
	221:6 clarified certain effects found in the Bolognesi and	
	221:7 Peluso papers." Correct?	
	221:8 A. That's correct.	
	221:9 Q. And the MON 35050 study is the one that	
	221:10 we were just talking about	
	221:11 A. Right.	

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	221:12 Q that you performed improving on those	
	221:13 earlier studies; is that right?	
	221:14 A. That is correct.	
224:10 - 225:15	Martens, Mark 04-07-2017 (00:01:22)	Martens.247
	224:10 Q. Okay. Since our I'm reading again	
	224:11 from Exhibit 18. "Since our previous discussions	
	224:12 with him, Professor Parry had begun to comprehend the	
	224:13 complexity and range of glyphosate formulations. We	
	224:14 clarified this by reviewing the brands, formulations	
	224:15 and surfactants used in Europe and the rest of the	
	224:16 world. Then reviewed the mutagenicity studies	
	224:17 available for the surfactants used in glyphosate	
	224:18 formulations. We demonstrated with work undertaken	
	224:19 since the previous discussion that structurally	
	224:20 related surfactants, etheramines, do not directly	
	224:21 cause genotoxicity."	
	224:22 And that was an accurate description of	
	224:23 the meeting, correct?	
	224:24 A. Yeah. Yes.	
	224:25 Q. Now, let's I want to go to results.	
	225:1 These were the results of the meeting with Professor	
	225:2 Parry, correct?	
	225:3 A. Yes.	
	225:4 Q. "Acceptance that glyphosate is not	
	225:5 genotoxic."	
	225:6 And that is acceptance by whom, sir?	
	225:7 A. By by Professor Parry.	
	225:8 Q. "Broad agreement that genotoxic results	
	225:9 in some studies with surfactants arose due to	
	225:10 oxidative damage rather than direct genotoxicity."	
	225:11 Now, when you when when Richard	
	225:12 Garnett said: "Broad agreement that genotoxic	
	225:13 results in some studies was due to oxidative damage	
	225:14 rather than direct genotoxicity," what studies did he	
225:18 - 226:23	225:15 mean by the "some studies"? Mark 04 07 2017 (00:01:04)	Martens.248
220.10 - 220.20	Martens, Mark 04-07-2017 (00:01:04)	11101101101240
	225:18 THE WITNESS: Well, I was at the meeting, 225:19 so I know what it is about. It was the studies with	
	225:20 intraperitoneal injection. 225:21 BY MR. GRIFFIS:	
	220.21 DT WITE GETTI TIO.	

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	225:22 Q. "Recognition of the difference of	
	225:23 toxicity between the intraperitoneal and oral	
	225:24 routes" and you've been explaining that to us,	
	225:25 right, the difference between the injection into the	
	226:1 belly and drinking?	
	226:2 A. Drinking, yes.	
	226:3 Q. Drinking.	
	226:4 "and that only oral, dermal and	
	226:5 inhalation route are taken into consideration for	
	226:6 classification in the EU." Correct?	
	226:7 A. Yes.	
	226:8 Q. And why is it that only oral, dermal and	
	226:9 inhalation routes are taken into consideration for	
	226:10 classification of substances of the toxicity of	
	226:11 substances in the EU?	
	226:12 A. Well, these are the only acceptable	
	226:13 routes of exposure, you know, when, you know, people	
	226:14 get into contact with hazardous chemicals.	
	226:15 Q. Is it because humans don't get chemicals	
	226:16 injected directly into their belly?	
	226:17 A. Of course not.	
	226:18 Q. "Acceptance of the low quality of the"	
	226:19 how do you pronounce that, sir?	
	226:20 A. Lioi.	
	226:21 Q. Lioi.	
	226:22 "Acceptance of the low quality of the	
227:3 - 227:6	226:23 Lioi, et al., study." Martens, Mark 04-07-2017 (00:00:06)	Martens.249
22776 22776	227:3 Q. Who was it that was accepting the low	
	227:4 quality of the Lioi study?	
	227:5 MS. WAGSTAFF: Objection to form.	
	227:6 THE WITNESS: Professor Parry.	
227:8 - 227:11	Martens, Mark 04-07-2017 (00:00:08)	Martens.250
	227:8 Q. "Professor Parry accepted the argument	
	227:9 that no repeat dose study should be necessary on the	
	227:10 basis of the NTP data." Correct?	
	227:11 A. Yes.	
227:15 - 227:21	Martens, Mark 04-07-2017 (00:00:15)	Martens.251
	227:15 Q. And he accepted that you as industry, you	
	227:16 couldn't test other people's surfactants, right?	

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,		
	227:17 A. Yes.	
	227:18 Q. You explained that to him?	
	227:19 A. Right.	
	227:20 Q. And Dr. Parry no longer requested any	
	227:21 studies on the final formulation; is that right?	
227:23 - 228:25	Martens, Mark 04-07-2017 (00:01:16)	Martens.252
	227:23 THE WITNESS: Yes.	
	227:24 BY MR. GRIFFIS:	
	227:25 Q. So did the results of this meeting	
	228:1 that you attended with Professor Parry and Richard	
	228:2 Garnett, did Professor Parry change his view of what	
	228:3 he thought Monsanto should do next?	
	228:4 A. Yes. But he asked for one supplementary,	
	228:5 one additional study.	
	228:6 Q. And that was show us where that is on	
	228:7 this page, please.	
	228:8 A. That is the fourth dash.	
	228:9 Q. "Complete the" this is under	
	228:10 "Actions," "Complete the MON 35050 study with	
	228:11 intraperitoneal injection of the MON 35035	
	228:12 formulation minus glyphosate." Correct?	
	228:13 A. Yes.	
	228:14 Q. And did you do that?	
	228:15 A. Yes. And there was no difference.	
	228:16 Q. Why was it that Dr. Parry's lab didn't	
	228:17 perform the MON 35050 study, sir?	
	228:18 A. The major reason is because he runs a	clear
	228:19 non-GLP accredited laboratory, and he didn't have the	
	228:20 capability in doing histopathology studies.	
	228:21 Q. He didn't have the capability, why?	
	228:22 A. Because he's not a histopathologist. So	
	228:23 you need expertise of histopathologist plus a	
	228:24 completely equipped laboratory to prepare the tissue	
	228:25 samples for microscopic examination.	
229:24 - 230:13	Martens, Mark 04-07-2017 (00:00:52)	Martens.253
	229:24 Q. And the procedures that exist in GLP labs	
	229:25 to make sure that the data is good, those procedures	
	230:1 don't normally exist in academic labs; is that fair?	
	230:2 A. No. That's fair.	
	230:3 Q. Sir, has any national or multinational	

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	230:4 regulator, like the European Union, the EPA, et 230:5 cetera, concluded that glyphosate causes cancer 230:6 based on the studies that we've been talking about 230:7 today? 230:8 A. In the European Union, the European 230:9 Chemical Agency, and the European Food Safety 230:10 Authority reviewed all the studies on genotoxicity 230:11 and carcinogenicity of glyphosate, and they came to 230:12 the conclusion that glyphosate is not genotoxic and	
232:2 - 232:25	230:13 is not a carcinogen.	Martens.254
232.2 - 232.20	Martens, Mark 04-07-2017 (00:01:08) 232:2 Q. What do they do?	Marteris.254
	232:3 A. When the pesticide producer wants to put 232:4 a pesticide onto the marketplace, he has to produce a 232:5 safety package, which is a whole toxicological 232:6 dossier, and he has to produce that according to, you 232:7 know, internationally agreed test guidelines and 232:8 according to good laboratory practices. All the data 232:9 that are produced in that context have to be 232:10 submitted to the authorities, and the authorities 232:11 actually analyze the data from scratch, and they come 232:12 to their own conclusions. 232:13 Q. Do the authorities have experts in 232:14 toxicology and other areas that enable them to 232:15 actually evaluate the data? 232:16 A. They have experts in toxicology, and if 232:17 they do need experts that are specialized in specific 232:18 subparts of toxicology, they have the possibility to 232:19 engage in academic toxicology experts to help them in 232:20 their assessments. 232:21 Q. You just spent a significant part of the 232:22 last year focusing on all of the toxicology evidence 232:23 about whether glyphosate can cause cancer; is that 232:24 right?	
233:2 - 233:4	232:25 A. Right. Martens, Mark 04-07-2017 (00:00:07) 233:2 And was it just Monsanto's data and the 233:3 public publicly available published data that you	Martens.255
233:7 - 234:15	233:4 looked at? Martens, Mark 04-07-2017 (00:01:25)	Martens.250

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	233:7 THE WITNESS: No. Monsanto produced	
	233:8 three carcinogenicity studies, but the total number	
	233:9 of regulatory carcinogenicity studies was 12	
	233:10 carcinogenicity studies, because of the a lot of	
	233:11 the carcinogenicity studies have been produced by	
	233:12 other agrochemicals companies putting glyphosate into	
	233:13 the marketplace.	
	233:14 BY MR. GRIFFIS:	
	233:15 Q. And did you see all of those studies?	
	233:16 A. Yes.	
	233:17 Q. How many genotoxicity studies did you	
	233:18 focus on as part of your analysis?	
	233:19 A. In total, it was about 80 genotoxicity	
	233:20 studies.	
	233:21 Q. That's eight zero?	
	233:22 A. Eight zero.	
	233:23 Q. Did those did the regulators in Europe	
	233:24 that you were interacting with look at the Bolognesi	
	233:25 study and the other studies that you initially sent	
	234:1 to Dr. Parry in 1999?	
	234:2 A. Yes.	
	234:3 Q. That was among the body of studies that	
	234:4 they considered in reaching their conclusions?	
	234:5 A. It was the body of published literature 234:6 which also taken into consideration in the	
	234:7 assessment.	
	234:8 Q. And what was their conclusion?	
	234:9 A. Their conclusion is that the overall	
	234:10 weight of evidence and analysis indicated that	
	234:11 glyphosate was not genotoxic. And that conclusion	
	234:12 was reached at the European chemical the agency in	
	234:13 unanimity of all member states.	
	234:14 Q. How many member states were involved?	
	234:15 A. 28.	
235:3 - 236:2	Martens, Mark 04-07-2017 (00:01:10)	Martens.257
	235:3 Q. Good afternoon, Dr. Martens. I am here	
	235:4 to ask just some follow-up questions. And so as a	

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235:5 result, my questions may bounce around a little as I 235:6 tried to just write down notes when your attorney was

235:7 asking you questions.

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r ago, anio		
	235:8 Fair?	
	235:9 A. That's fair.	
	235:10 Q. Okay. So when we discuss dosage, that's	
	235:11 relating to the risk assessment, correct?	
	235:12 A. Yes.	
	235:13 Q. Okay. And there's no bright line on	
	235:14 dosage what dosage will cause an effect in a	
	235:15 person, correct?	
	235:16 A. Let me give you a little bit in a more	
	235:17 precise explanation is, when you study the effects of	
	235:18 a chemical and function of dose, that is a what is 235:19 called the dose-effect relationship establishment.	
	235:20 Okay?	
	235:21 Q. Mm-hmm.	
	235:22 A. From a dose-effect relationship	
	235:23 establishment, you derive from animal studies the	
	235:24 safe dose. That means the highest dose at which you	
	235:25 don't see any effect. And that dose, when that is	
	236:1 confronted with the level of exposure in reality, in	
	236:2 real life, that is risk assessment.	
236:19 - 238:17	Martens, Mark 04-07-2017 (00:02:05)	Martens.258
	236:19 Q. Okay. And, in fact, it is very common in	
	236:20 toxicology to use high dose testing in animals,	
	236:21 correct?	
	236:22 A. Yes.	
	236:23 Q. And, in fact, it is more common than not	
	236:24 to use high dose testing in animals, correct?	
	236:25 A. Yes.	
	237:1 Q. Okay. And there's a good reason for	
	237:2 that, right?	
	237:3 A. Yes.	
	237:4 Q. Okay. And what's the reason?	
	237:5 A. The reason is that for testing in	
	237:6 animals, we are obliged by international, you know,	
	237:7 test guidelines to dose up until we have very clear 237:8 signals of toxicity. And then we select doses, and	
	237:9 the lowest dose is the dose at which we don't expect	
	237:10 to see toxicity, and there is an intermediate dose.	
	237:10 to see toxicity, and there is an intermediate dose. 237:11 And that is the reason for that is actually to	
	237:12 establish a dose-effect relationship.	

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	237:13 Q. Okay. And also if the normal incidence	
	237:14 of some effect is, let's say, one in a thousand or	
	237:15 one in 5,000, that means that if you it would take	
	237:16 a thousand or 5,000 animals to show that one time,	
	237:17 and tests don't use that many animals, do they?	
	237:18 A. They well, there is a compromise that	
	237:19 you you will have to achieve, and the compromise	
	237:20 for long-term carcinogenicity test is that you use 50	
	237:21 to 60 animals per sex per dose level.	
	237:22 Q. Exactly. So if you're only using 50 or	
	237:23 60 animals per sex per dose, you need to really use a	
	237:24 high dose analysis, correct?	
	237:25 A. Well, you need to actually to to dose	
	238:1 up, up to the maximum tolerated dose, to make sure if	
	238:2 the compound is carcinogenic, you won't miss it.	
	238:3 Q. Correct. And so when your attorney was	
	238:4 asking you all about the dosage that was used in	
	238:5 these studies that you analyzed, they were following	
	238:6 standards and practices that scientists use all over	
	238:7 the world, correct?	
	238:8 A. Yes.	
	238:9 Q. They weren't doing anything abnormal,	
	238:10 correct?	
	238:11 A. No.	
	238:12 Q. They were following the same practices	
	238:13 that scientists follow all over that give us results	
	238:14 that we that are accepted all over the world,	
	238:15 correct?	
	238:16 A. Yes, insofar they follow the	
000-40 000-05	238:17 international accepted test guidelines.	Martana 050
239:19 - 239:25	Martens, Mark 04-07-2017 (00:00:22)	Martens.250
	239:19 Q. Okay. You will agree that animal testing	
	239:20 is very expensive.	
	239:21 A. Absolutely.	
	239:22 Q. Do you know the EPA's analysis or	
	239:23 position on what a, quote, unsafe chemical is?	
	239:24 A. I don't recall that specific test, no.	
040-0	239:25 Or that specific text.	Martens.200
240:8 - 240:21	Martens, Mark 04-07-2017 (00:00:32)	wartens.200
	240:8 Q. Sure. I'm just wondering because you	

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	240:9 work and practice and most of the the stuff that	
	240:10 you do regulatory-wise is in Europe, correct?	
	240:11 A. Yes.	
	240:12 Q. You what portion of your practice do	
	240:13 you interact with the EPA and its guidelines?	
	240:14 A. Almost zero.	
	240:15 Q. Almost zero?	
	240:16 A. Yes.	
	240:17 Q. So you may not be familiar with the EPA's	
	240:18 definition of what an "unsafe chemical" is, correct?	
	240:19 A. I must have been aware of this before I	
	240:20 joined the pharmaceutical company. So sometime ago,	
	240:21 yes.	
241:14 - 242:5	Martens, Mark 04-07-2017 (00:00:27)	Martens.261
	241:14 A. Yes.	
	241:15 Q. They were the Lioi how do you	
	241:16 pronounce that one again?	
	241:17 A. Lioi.	
	241:18 Q. Lioi. The two Lioi papers.	
	241:19 A. No, one Lioi paper.	
	241:20 Q. One Lioi paper, the Rank	
	241:21 A. Yes.	
	241:22 Q the Bolognesi and the Peluso, right?	
	241:23 A. Yes.	
	241:24 Q. Were those studies conducted in labs that	
	241:25 were following good laboratory practices?	
	242:1 A. No.	
	242:2 Q. No. And how do you know that?	
	242:3 A. Because these were academic labs which	
	242:4 were not accredited for GLP; otherwise, that would	
	242:5 have been appeared in their publications.	
242:24 - 243:12	Martens, Mark 04-07-2017 (00:00:30)	Martens.202
	242:24 Q. Okay. And and your counsel said even	
	242:25 if a lab wasn't GLP operating, it could still be a	
	243:1 good lab. Correct?	
	243:2 A. Yes.	
	243:3 Q. Okay. Just because something's not GLP	
	243:4 doesn't mean it's a bad lab, right?	
	243:5 A. It doesn't mean it's bad science.	
	243:6 Q. Okay. And just because something is a	

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	243:7 GLP lab doesn't mean it's good science, right?	
	243:8 A. That's right.	
	243:9 Q. So the GLP is just sort of a shortcut	
	243:10 like a marriage is a shortcut to a commitment, right?	
	243:11 A. No, no, no. The GLP is for what I would	
243:18 - 244:19	243:12 call a process control. Martona Mark 04 07 2017 (00:00:57)	Martens.263
240.10 244.10	Martens, Mark 04-07-2017 (00:00:57)	
	243:18 THE WITNESS: GLP is a process control	
	243:19 part, and has nothing to do with the science. It's 243:20 all to do with data control, data access, data	
	243:21 quality assurance.	
	243:22 BY MS. WAGSTAFF:	
	243:23 Q. Okay.	
	243:24 A. And there is a science part, and the	
	243:25 science part is taken care of in accordance with the	
	244:1 internationally agreed test guidelines.	
	244:2 Q. Okay. So I think we're on the same page	
	244:3 now that GLP labs can have good or bad science	
	244:4 A. Mm-hmm.	
	244:5 Q and non-GLP labs can have good or bad	
	244:6 science.	
	244:7 A. Yes.	
	244:8 Q. Okay. It really depends on the	
	244:9 scientists.	
	244:10 A. It depends on the scientists and the	
	244:11 structure of the laboratory.	
	244:12 Q. Okay. Gotcha.	
	244:13 And when was this GLP accreditation	
	244:14 process created?	
	244:15 A. It was created in the the end of the	
	244:16 '70s, beginning of the '80s.	
	244:17 Q. Okay.	
	244:18 A. Yeah, because it took a long time to	
	244:19 implement it in all laboratories, yeah.	
244:23 - 245:2	Martens, Mark 04-07-2017 (00:00:17)	Martens.204
	244:23 Q. Is it I assume, and correct me if I'm	
	244:24 wrong, but every laboratory has to be GLP accredited.	
	244:25 A. Every laboratory that produces data,	
	245:1 safety data that have to be submitted for regulatory	
	245:2 reasons needs to be GLP accredited.	

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246:5 - 247:25	Mortono Mark 04 07 2017 (00:01:46)	Martens.205
240.0 247.20	Martens, Mark 04-07-2017 (00:01:46) 246:5 Q. So you're not involved in all of the	
	•	
	246:6 the glyphosate reregistration processes over here in 246:7 the United States.	
	246:8 A. No. It's Europe.	
	246:9 Q. Okay. Now, you testified earlier that	
	246:10 Monsanto has done three long-term cancer studies	
	246:11 A. Yes.	
	246:12 Q involving glyphosate; is that right?	
	246:13 A. Yes.	
	246:14 Q. I believe you testified that two were rat	
	246:15 studies and one was a mouse study.	
	246:16 A. Yes.	
	246:17 Q. Is that right?	
	246:18 Who conducted those studies?	
	246:19 A. There was I've got to recall the	
	246:20 Knezevich and Hogan study was done by a contract	
	246:21 laboratory. The Stout and Ruecker study was done at	
	246:22 Monsanto. Yes.	
	246:23 Q. Okay. So that's two studies. What about	
	246:24 the third?	
	246:25 A. The third I believe is the Lankas study,	
	247:1 and I will have to check that out where it was	
	247:2 conducted. Yeah, I've got to check that out.	
	247:3 Q. Okay. So when you say Monsanto did three	
	247:4 studies, you mean they funded three studies?	
	247:5 A. They commissioned three studies, either	
	247:6 in their laboratory or in contract laboratories.	
	247:7 Q. Okay. And are those studies in published	
	247:8 literature?	
	247:9 A. No.	
	247:10 Q. No. So they're private	
	247:11 A. Well, they've been summarized in reviews,	
	247:12 like, for example, the Williams review.	
	247:13 Q. Okay. Which is a Monsanto commissioned	
	247:14 review as well.	
	247:15 A. It's commissioned to an organization that	
	247:16 took care of the selection and the recruitment of	
	247:17 scientists to do that review.	
	247:18 Q. Yeah. So Monsanto did studies and then	

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	247:19 hired someone to review the studies that they	
	247:20 conducted, right?	
	247:21 A. Yeah. In order to publish it. Yeah.	
	247:22 Q. Okay. But other than using Monsanto to	
	247:23 do the studies and then Monsanto to review the	
	247:24 studies, no one independently has peer reviewed those	
0400 04044	247:25 studies, correct?	
248:3 - 248:11	Martens, Mark 04-07-2017 (00:00:12)	Martens.200
	248:3 THE WITNESS: These studies have been	
	248:4 peer reviewed by the authorities.	
	248:5 BY MS. WAGSTAFF:	
	248:6 Q. What authorities?	
	248:7 A. Well, the authorities over all in the	
	248:8 world.	
	248:9 Q. Okay. So does the EPA have all of these	
	248:10 studies?	
04040 04040	248:11 A. Yes.	W 007
248:18 - 249:10	Martens, Mark 04-07-2017 (00:00:33)	Martens.267
	248:18 Q. Okay. And these other and then I	
	248:19 think you testified that there were eight other	
	248:20 studies.	
	248:21 A. Yes, in total there are 12 carcinogenic	
	248:22 studies.	
	248:23 Q. Okay. So then I guess that would be nine	
	248:24 other studies, right?	
	248:25 A. Yes.	
	249:1 Q. And who created those studies?	
	249:2 A. These studies have been commissioned by	
	249:3 other companies that put glyphosate into the	
	249:4 marketplace.	
	249:5 Q. Okay. And where would we find those	
	249:6 studies?	
	249:7 A. The best way and how to get insight in	
	249:8 those studies is actually to read the paper of Greim,	
	249:9 et al., where the results of those studies are	
249:20 - 250:2	249:10 summarized.	Martens.268
24 3 .20 - 200.2	Martens, Mark 04-07-2017 (00:00:22)	Mai (#15.200
	249:20 Q. Okay. So there are there are 12	
	249:21 studies that assess the carcinogenicity of glyphosate	
	249:22 that's that's not available for the public to	

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	249:23 review or access; is that correct?	
	249:24 A. That's not entirely correct, because the	
	249:25 analysis, the evaluation, and the complete	
	250:1 description of the studies have been published by	
	250:2 Greim, et al.	
250:10 - 251:2	Martens, Mark 04-07-2017 (00:00:44)	Martens.200
	250:10 Q. Okay. Who is he?	
	250:11 A. He is a cancer specialist, a German	
	250:12 cancer specialist.	
	250:13 Q. Okay. And who does he work for?	
	250:14 A. He's got well, he used to work	
	250:15 normally for government. He was the head of the MAC	
	250:16 Commission in Germany, who was responsible for the	
	250:17 environmental exposure levels for carcinogens.	
	250:18 Q. Okay. And who paid for that study?	
	250:19 A. All the companies that produced the	
	250:20 studies contributed to the this project.	
	250:21 Q. Okay. So the companies get together and	
	250:22 they do these studies where no one gets the results	
	250:23 or the data, and then they pay someone to summarize	
	250:24 all their studies	
	250:25 A. Yes.	
	251:1 Q but they don't give anyone the actual	
054.44 054.00	251:2 studies.	Martens.270
251:11 - 251:22	Martens, Mark 04-07-2017 (00:00:26)	wartens.270
	251:11 Q. Is that correct?	
	251:12 A. The under a confidentiality agreement,	
	251:13 these studies must have been provided to Dr. Greim.	
	251:14 Q. Okay. So I could not could not find	
	251:15 those studies anywhere.	
	251:16 A. If you would be a toxicologist and you	
	251:17 would be under contract with a company, then you	
	251:18 would gain access to those studies.	
	251:19 Q. Okay. So I need to be employed by one of	
	251:20 those companies and sign a confidentiality agreement	
	251:21 to get access to these 12 cancer studies; is that	
251:24 - 252:12	251:22 correct? Martona Mark 04.07-2017 (00:00:20)	Martens.271
201.24 - 202.12	Martens, Mark 04-07-2017 (00:00:29)	
	251:24 too fast. If you would be an independent consultant,	
	251:25 like I am	

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,		
	252:1 Q. Mm-hmm.	
	252:2 A and I have been granted access to all	
	252:3 these studies for my my work in the European	
	252:4 Union, I signed confidentiality agreements with every	
	252:5 one of all those committees to gain full access to	
	252:6 these studies.	
	252:7 Q. Okay. And how long did you work for	
	252:8 Monsanto? How many years?	
	252:9 A. It was about 15 years.	
	252:10 Q. And you you view yourself as an	
	252:11 independent consultant?	
050:40 050:40	252:12 A. Yes.	Martens.272
252:13 - 252:18	Martens, Mark 04-07-2017 (00:00:16)	Marteris.2/2
	252:13 Q. Okay. So the Farm Family Exposure Study	
	252:14 that you've been talking about, who funded that	
	252:15 study?	
	252:16 A. That was a Monsanto designed study.	
	252:17 Q. So Monsanto paid for that study to occur?	
252:19 - 253:3	252:18 A. And Monsanto executed the study, yeah.	Martens.273
202.10 200.0	Martens, Mark 04-07-2017 (00:00:21)	
	252:19 Q. Okay. So other than for Monsanto, any	
	252:20 other company, have you ever interacted with the EPA, 252:21 the United States EPA?	
	252:22 A. No.	
	252:22 A. No. 252:23 Q. So the only time you've interacted with	
	252:24 the EPA is in your role as a Monsanto employee?	
	252:25 A. Yes. And it was only for one substance,	
	253:1 I believe.	
	253:2 Q. And what substance was that?	
	253:3 A. Acetochlor.	
253:13 - 253:17	Martens, Mark 04-07-2017 (00:00:11)	Martens.274
	253:13 Q. You testified that in the Farm Family	
	253:14 Exposure, which is Monsanto's paid-for study, that	
	253:15 only 40 that 40 percent did not have glyphosate in	
	253:16 their urine. Was that your testimony?	
	253:17 A. Yes.	
254:5 - 254:15	Martens, Mark 04-07-2017 (00:00:17)	Martens.275
	254:5 BY MS. WAGSTAFF:	
	254:6 Q. And is it your testimony as you sit here	
	254:7 today that POEA is like soap?	
	•	

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254:8 A. It's a detergent.	
254:9 Q. So is it your testimony that POEA is like	
254:10 soap?	
254:11 A. Well, soap is a detergent. It acts like	
254:12 soap	
254:13 Q. Yeah.	
254:14 A and soap is a very general name for	
254:15 detergent.	
Martens, Mark 04-07-2017 (00:00:07)	Martens.276
254:22 Q. So, yes, it is your testimony that POEA	
254:23 is like soap?	
254:24 A. It's like soap	
254:25 Q. Yeah.	
255:1 A and the right definition is	
255:2 "surfactant."	
	254:8 A. It's a detergent. 254:9 Q. So is it your testimony that POEA is like 254:10 soap? 254:11 A. Well, soap is a detergent. It acts like 254:12 soap 254:13 Q. Yeah. 254:14 A and soap is a very general name for 254:15 detergent. Martens, Mark 04-07-2017 (00:00:07) 254:22 Q. So, yes, it is your testimony that POEA 254:23 is like soap? 254:24 A. It's like soap 254:25 Q. Yeah. 255:1 A and the right definition is

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Documents Shown

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