Koch, Michael 01-11-2019

Koch, Michael 01-11-2019

Total Time 01:31:24



	Koch-Koch, Michael 01-11-2019	
Page/Line	Source	ID
7:20 - 7:24	Koch, Michael 01-11-2019 (00:00:11)	Koch.1
	7:20 THE VIDEOGRAPHER: The court reporter is	
	7:20 THE VIDEOGRAFHER. The court reporter is 7:21 John Arndt, and he will now swear in the witness.	
	7:21 John Amat, and he will now swear in the witness.	
	· · · · · · · · · · · · · · · · · · ·	
	7:23 The witness, MICHAEL KOCH, PhD, first having	
8:2 - 8:6	7:24 been duly sworn, testified as follows: Koch, Michael 01-11-2019 (00:00:06)	Koch.2
0.2 0.0	,	
	8:2 Q. Good morning.	
	8:3 A. Good morning.	
	8:4 Q. It's a cold day here in St. Louis. Are	
	8:5 you from St. Louis originally?	
8:12 - 8:20	8:6 A. I am.	Koch.3
0.12 0.20	Koch, Michael 01-11-2019 (00:00:21)	Roomo
	8:12 Q. My name is Brent Wisner. I	
	8:13 represent the plaintiffs in this action. Are you	
	8:14 familiar generally with what this lawsuit is about?	
	8:15 A. It's my understanding it's a lawsuit	
	8:16 regarding glyph Roundup and an individual who has	
	8:17 cancer.	
	8:18 Q. And specifically a type of cancer called	
	8:19 non-Hodgkin's lymphoma?	
16:7 - 17:7	8:20 A. Yes.	Koch.4
10.7 - 17.7	Koch, Michael 01-11-2019 (00:01:23)	Rocii.4
	16:7 Q. I want to start off with a little bit of	
	16:8 background of yourself. What is your educational	
	16:9 background?	
	16:10 A. So would you like me to start at my	
	16:11 bachelor's degree, or would you like for me to start	
	16:12 with my most recent education?	
	16:13 Q. Well, I think you should start off where	
	16:14 you think it's relevant for your job today.	
	16:15 A. Okay. So I have a PhD from the University	
	16:16 of lowa. That was granted in 2005, in pharmacology.	
	16:17 My professional experience since that time has been in	
	16:18 regulatory toxicology. I've worked for Research in	
	16:19 Ashland, Ohio, conducting regulatory toxicology studies	
	16:20 from 2006 to 2008, and then from 2008 to 2010 I worked	
	16:21 for Seventh Wave Labs, which is another contract	
	16:22 research organization which does short-term toxicology	
	16:23 work and pharmacokinetics. And then I joined Monsanto	

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16:24 in 2010, and I'm well, I'm part of Bayer now, since 17:1 the acquisition. 17:2 Q. Those various contract laboratories that 17:3 you worked for prior to joining Monsanto, were did 17:4 they do work for Monsanto? 17:5 A. Yes. The Research in Ashland, Ohio, 17:6 did work for Monsanto! I don't recall working on any 17:7 Monsanto studies there. 18:19 - 19:2 Koch, Michael 01-11-2019 (00:00:22) 18:19 I'm handing you 18:20 Exhibit 2 marked for identification.] 18:22 A. Thank you. 18:23 Q. This is a document. It's MONGLY Number 18:24 05:247516, and it appears to be on the front page an 19:1 e-mail from yourself to yourself. Do you see that? 19:2 A. Yes. 20:9 - 20:11 Koch, Michael 01-11-2019 (00:00:04) 20:9 Q. So we have attached here a curriculum 20:10 vitae, it appears to be, of yours. Do you see that? 20:11 A. Yes. 40:3 - 40:23 Koch, Michael 01-11-2019 (00:00:53) 40:3 Q. And in 2015, did – are you familiar with 40:4 Dr. Donna Farmer? 40:5 A. Yes. 40:6 Q. Did she work underneath you at that point? 40:7 A. Yes. In 2015 she was I believe she was 40:8 a part of David's team. 40:9 Q. David is? 40:10 A. David Saltmiras. 40:11 Q. And so Dr. Farmer then and Dr. Saltmiras 40:12 both reported to you; is that right? 40:13 A. Dr. Saltmiras or David reported directly 40:14 to me and Donna reported to David, but she was in my 40:15 organization. 40:16 Q. And that was in starting in 2015 40:17 December 2015? 40:18 A. Yes. 40:19 Q. Prior to that, did Dr. Farmer or Dr.		Koch-Koch, Michael 01-11-2019	
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40.20 Gaithings report to you:		40.20 Caminas report to you:	

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	Koch-Koch, Michael 01-11-2019	
Page/Line	Source	ID
	40:01 A Vec Both Donne and David reported	
	40:21 A. Yes. Both Donna and David reported	
	40:22 directly to me from September of 2014 to November of	
40:24 - 41:3	40:23 2015 as the toxicology and nutrition center lead.	Koch.8
40.24 - 41.0	Koch, Michael 01-11-2019 (00:00:05)	Koon.o
	40:24 Q. And when you were in the new technologies	
	41:1 and toxicology, did Dr. Farmer or Dr. Saltmiras report	
	41:2 to you?	
	41:3 A. No.	Kb 0
41:4 - 41:13	Koch, Michael 01-11-2019 (00:00:30)	Koch.9
	41:4 Q. Do you know Dr. William Heydens?	
	41:5 A. I do.	
	41:6 Q. Did Dr. Heydens ever report to you?	
	41:7 A. No, Dr. Heydens never reported to me.	
	41:8 Q. Did you ever report to Dr. Heydens?	
	41:9 A. No. Bill was a peer. We both shared the	
	41:10 same manager, reporting in at various times to Susan	
	41:11 Martineau Kapp (ph) and Sonja Franklin (ph), but and	
	41:12 no, at no time did I report to Bill or did Bill report	
	41:13 to me.	
41:21 - 42:5	Koch, Michael 01-11-2019 (00:00:22)	Koch.10
	41:21 Q. When you took on the role as product	
	41:22 safety center lead, did that require you to be	
	41:23 overseeing the product safety of glyphosate and	
	41:24 Roundup?	
	42:1 A. The product safety center yes,	
	42:2 includes all of our products which are	
	42:3 crop-protection chemicals and biotech products as well	
	42:4 as some biopesticides microbial and biochemical	
	42:5 biopesticides, as well.	
42:6 - 42:8	Koch, Michael 01-11-2019 (00:00:07)	Koch.11
12.0	•	
	42:6 Q. So if we go through the description here,	
	42:7 it kind of describes the center, right, the first	
42:9 - 43:9	42:8 couple of sentences?	Koch.12
42.9 - 43.9	Koch, Michael 01-11-2019 (00:01:02)	KOGII. 12
	42:9 A. Yes, and the teams which are comprised of	
	42:10 it. Yep.	140011000
	42:11 Q. And it goes on to say the role provides	KOCH2.2.2
	42:12 scientific oversight and direction and people	
	42:13 leadership to both the toxicology and composition teams	
	42:14 as they plan, conduct, and interpret studies comprising	

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Koch-Koch, Michael 01-11-2019		
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	42:15 two key aspects of the regulatory submissions and	
	42:16 global scientific outreach for biotechnology-derived	
	42:17 products. Did I read that right?	
	42:18 A. Yes.	
	42:19 Q. And so in your role as the lead, you were	
	42:20 providing oversight and direction; is that right?	
	42:21 A. Yes.	KOCH2.2.3
	42:22 Q. It goes on to say the role leverages 42:23 productive collaborations with Monsanto stakeholders.	
	42:24 I'll stop right there. What does that mean?	
	43:1 A. Anyone who would have an interest in our	
	43:2 products.	KOCH2.2.4
	43:3 Q. And external bodies, national research	
	43:4 institutes, international trade associations, and	
	43:5 national regulatory agencies, to navigate and shape a	
	43:6 complex international regulatory environment and gain	
	43:7 regulatory approvals and freedom to operate for the	
	43:8 company's products. Did I read that right?	
	43:9 A. Yes.	
43:18 - 44:10	Koch, Michael 01-11-2019 (00:00:40)	Koch.13
	43:18 Q. And so the product safety center lead	
	43:19 part of your job was to ensure freedom to operate for	
	43:20 the company's products?	
	43:21 A. As a part of engaging stakeholders, as	
	43:22 part of that is sharing that data and communicating	
	43:23 with them, yeah.	
	43:24 Q. It says to accomplish this, the product	KOCH2.2.5
	44:1 safety center lead must identify strategic challenges	
	44:2 to the development of new products and the defense of	
	44:3 existing products. Did I read that right?	
	44:4 A. Yes.	
	44:5 Q. What do you mean by the defense of	
	44:6 existing products?	
	44:7 A. So occasionally there are results	
	44:8 published in the public literature which are not	clear
	44:9 which we feel are not accurate, and we take steps to	
44.44 44.44	44:10 investigate whether or not they're accurate.	Voct 44
44:11 - 44:14	Koch, Michael 01-11-2019 (00:00:09)	Koch.14
	44:11 Q. And just off the top of your head, has	
	44:12 there ever been a result showing a health risk	

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Koch-Koch, Michael 01-11-2019		
Page/Line	Source	ID
	44.40 and sint desire Board and a section of the board of	
	44:13 associated with Roundup or glyphosate that you believed	
44:18 - 45:1	44:14 was accurate?	Koch.15
44.10 - 45.1	Koch, Michael 01-11-2019 (00:00:23)	Kocii. 13
	44:18 A. The yeah. Would you clarify what you	
	44:19 mean by any any result?	
	44:20 Q. (By Mr. Wisner) Have you seen is there	
	44:21 a single peer-reviewed journal article that you	
	44:22 yourself have reviewed in your capacity as product	
	44:23 safety center lead that showed a health risk associated	
	44:24 with Roundup or glyphosate that in your opinion was	
45:3 - 45:15	45:1 accurate?	Koch.16
40.0 - 40.10	Koch, Michael 01-11-2019 (00:00:39)	Koon. To
	45:3 A. I'm not the glyphosate expert. I'm more	
	45:4 familiar with I received summaries from the team	
	45:5 members who are glyphosate experts, and so I'm not	
	45:6 intimately familiar with the literature, but the	
	45:7 literature that I have seen, I don't believe that the	
	45:8 results report hazards associated with it like some of	
	45:9 the literature says are accurate. No, I don't believe	
	45:10 that. I believe the regulatory dataset, which is much	
	45:11 more robust.	
	45:12 Q. (By Mr. Wisner) So to be clear, then,	
	45:13 sitting here today, you cannot identify a single	
	45:14 peer-reviewed article reflecting a health risk	
45:17 - 45:18	45:15 associated with Roundup that you believe is accurate? Koch, Michael 01-11-2019 (00:00:03)	Koch.17
	45:17 A. That's correct. The literature I'm	
	45:18 familiar with I don't believe is convincing.	
46:8 - 46:14	Koch, Michael 01-11-2019 (00:00:19)	Koch.18
	46:8 Q. So would it be fair to say then that as	
	46:9 part of your job as the product safety center lead, one	
	46:10 of the outcomes of your conduct that we've gone	
	46:11 through which included navigating complex regulatory	
	46:12 environments, securing freedom to operate that the	
	46:13 outcome of that was to have white papers and journal	
	46:14 articles published?	
46:16 - 46:21	Koch, Michael 01-11-2019 (00:00:15)	Koch.19
	46:16 A. That wasn't the sole purpose of it. The	
	46:17 sole purpose was to generate data to share with	
	46:18 regulatory stakeholders to allow them to decide on the	

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	Koch-Koch, Michael 01-11-2019	
Page/Line	Source	ID
	46:19 safety of the product, but sometimes we would write	
	46:20 white papers and journal articles to share information,	
40:00 47:0	46:21 yes.	Kash 20
46:22 - 47:2	Koch, Michael 01-11-2019 (00:00:10)	Koch.20
	46:22 Q. (By Mr. Wisner) And journal articles I	
	46:23 mean, that is not really for regulatory purposes,	
	46:24 right, because if you want to submit something to a	
	47:1 regulator, you just give it to them. Journal articles,	
	47:2 that's for the academic community; right?	
47:4 - 47:6	Koch, Michael 01-11-2019 (00:00:07)	Koch.21
	47:4 A. Journal articles are for both the academic	
	47:5 and the regulatory community. There are some journals	
	47:6 which specialize in regulatory data.	
47: 1 5 - 47: 1 9	Koch, Michael 01-11-2019 (00:00:13)	Koch.22
	47:15 Q. So it would be fair to say then in your	
	47:16 capacity as the product safety center lead, you were	
	47:17 helping drive the policies of Monsanto in the	
	47:18 maintenance of the safety of the products that they	
	47:19 were selling?	
47:21 - 48:7	Koch, Michael 01-11-2019 (00:00:27)	Koch.23
	47:21 A. No, I was leading a team that generated	
	47:22 some of the data which would occur which would	
	47:23 demonstrate the safety of the products.	
	47:24 Q. (By Mr. Wisner) Right. And so you'd be	
	48:1 making decisions on a day-to-day basis that would	
	48:2 ultimately decide what data is pursued, what studies	
	· · · · · · · · · · · · · · · · · · ·	
	48:3 were done? Is that fair to say?	
	48:4 A. In collaboration with other internal	
	48:5 stakeholders, yes, we were.	
	48:6 Q. But at the end of the day the buck stopped	
40.0 40.0	48:7 with you is that fair to say?	Koch 04
48:9 - 48:9	Koch, Michael 01-11-2019 (00:00:01)	Koch.24
	48:9 A. No, I don't believe that's accurate.	
48:10 - 48:11	Koch, Michael 01-11-2019 (00:00:04)	Koch.25
	48:10 Q. (By Mr. Wisner) But you did play a	
	48:11 substantial role in making those decisions; right?	
48:13 - 49:1	Koch, Michael 01-11-2019 (00:00:32)	Koch.26
	48:13 A. Can you describe substantial role?	
	48:14 Q. (By Mr. Wisner) Well, you just said the	
	48:15 buck didn't stop with you, and I appreciate that, but	

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	Koch-Koch, Michael 01-11-2019	
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	48:16 you did contribute to the decision-making processes	
	48:17 about what studies would be done, what assessments	
	48:18 would be made related to Monsanto's products; is that	
	48:19 fair?	
	48:20 A. We would develop technical justifications	
	48:21 and strategies and share them with other internal	
	48:22 stakeholders to come to a consensus.	
	48:23 Q. Great. And one of the products that that	
	48:24 involved was Roundup?	
	49:1 A. As a product in the portfolio, yes.	
57:7 - 57:10	Koch, Michael 01-11-2019 (00:00:12)	Koch.27
	57:7 Q. And is it true that Monsanto has developed	
	57:8 a group of third-party toxicologists who come to defend	
	57:9 Monsanto's products in the public domain specifically	
	57:10 as it relates to glyphosate?	
57:12 - 57:17	Koch, Michael 01-11-2019 (00:00:21)	Koch.28
	57:12 A. Monsanto contracts with independent	
	57:13 experts for their time and to provide their independent	
	57:14 opinions on our products.	
	57:15 Q. (By Mr. Wisner) So that's a yes? There's	
	57:16 a network of third-party toxicologists that Monsanto	
	57:17 pays for their time in defending glyphosate publicly?	
57:20 - 57:21	Koch, Michael 01-11-2019 (00:00:03)	Koch.29
	57:20 A. We pay them for their time and they	
	57:21 provide their independent opinions.	
57:22 - 58:3	Koch, Michael 01-11-2019 (00:00:19)	Koch.30
	57:22 Q. (By Mr. Wisner) And Monsanto wouldn't pay	
	57:23 them for their opinions if it didn't support this is	
	57:24 under the goal oversee the production of and in some	
	58:1 cases generate quality documents on an as-needed basis	
	58:2 to successfully rebut allegations and proactively	
	58:3 defend the safety of our products; correct?	
58:7 - 58:14	Koch, Michael 01-11-2019 (00:00:19)	Koch.31
	58:7 A. So as I said, the independent consultants	
	58:8 provide their independent professional opinions.	
	58:9 They're very highly-regarded scientists, and we respect	
	58:10 their opinions.	
	58:11 Q. (By Mr. Wisner) That's right. And they	KOCH3.3.1
	58:12 support this goal, written in black and white here in	
	58:13 the document, which is to proactively defend the safety	

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	Koch-Koch, Michael 01-11-2019	
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	58:14 of our products; correct?	
58:16 - 58:21	Koch, Michael 01-11-2019 (00:00:17)	Koch.32
	58:16 A. So if the scientists are providing	clear
	58:17 their opinions and we're not pushing them one way or	
	58:18 the other. They're providing their opinions for us.	
	58:19 If it's supportive, that's okay. If it's not	
	58:20 supportive, we probably need to do more research into	
E9:00 E0:0	58:21 what their concerns are.	Koch.33
58:22 - 59:2	Koch, Michael 01-11-2019 (00:00:16)	KOCII.33
	58:22 Q. (By Mr. Wisner) Within Monsanto's tox	
	58:23 network related to glyphosate, is there a single	
	58:24 independent scientist that is being paid by Monsanto	
	59:1 that has publicly stated that glyphosate or Roundup can	
59:4 - 59:9	59:2 cause non-Hodgkin's lymphoma?	Koch.34
00.4 00.0	Koch, Michael 01-11-2019 (00:00:13) 59:4 A. As I mentioned, I'm more involved in the	Noon.o i
	•	
	59:5 oversight of the tox work, and I'm not the glyphosate 59:6 expert.	
	59:7 Q. (By Mr. Wisner) So your answer is no, you	
	59:8 don't know of any expert that's publicly stated that	
	59:9 Roundup or glyphosate can cause cancer?	
59:12 - 59:12	Koch, Michael 01-11-2019 (00:00:00)	Koch.35
	59:12 A. That's correct.	
66:13 - 67:21	Koch, Michael 01-11-2019 (00:01:40)	Koch.36
	66:13 Q. (By Mr. Wisner) Doctor, there is a	
	66:14 distinction between glyphosate and Roundup; right?	
	66:15 A. Glyphosate is the active ingredient in the	
	66:16 Roundup herbicide in the formulated product, yes.	
	66:17 Q. And when you say glyphosate is the active	
	66:18 ingredient, does that mean that the other ingredients	
	66:19 in the formulated product have no toxicity?	
	66:20 A. The formulated products contain the active	
	66:21 ingredient, which is specified as the chemical which	
	66:22 does the job for which it's intended, and then there	
	66:23 are what are referred to as inert ingredients. Inert	
	66:24 ingredients don't have that same mechanism of action in	
	67:1 particular.	
	67:2 Q. But would it be fair to say, though, that	
	67:3 although they're called inert ingredients, they're not	
	67:4 actually inert chemicals; right?	

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	Koch-Koch, Michael 01-11-2019	
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	67:5 A. Inert ingredients are part of the	
	67:6 formulation, and they're there to serve a variety of	
	67:7 purposes. You may dye it or put odorants in it's so	
	67:8 that it's not appealing to people to ingest, and you	
	67:9 might do yeah, there's a variety of purposes of	
	67:10 inerts, yes.	
	67:11 Q. And for example, one of the inert	
	67:12 ingredients in the Roundup formulated product is	
	67:13 something called a surfactant; is that right?	
	67:14 A. Yes.	
	67:15 Q. And a surfactant is a chemical which is	
	67:16 designed to increase the surface area or the spread of	
	67:17 the formulated product on plants?	
	67:18 A. That's my understanding of it, yes.	
	67:19 Q. And the surfactant actually helps	
	67:20 glyphosate get into the plant so it can do its job of	
	67:21 killing it; right?	
67:23 - 67:24	Koch, Michael 01-11-2019 (00:00:02)	Koch.37
	67:23 A. I'm not a product chemist, so I don't	
	67:24 know.	
68:6 - 68:10	Koch, Michael 01-11-2019 (00:00:16)	Koch.38
	68:6 Q. (By Mr. Wisner) So you don't know one way	
	68:7 or the other whether surfactants help glyphosate	
	68:8 penetrate a plant?	
	68:9 A. I know that surfactants as a general class	
	68:10 aid in dispersal of the product across the leaf.	
68:11 - 68:13	Koch, Michael 01-11-2019 (00:00:10)	Koch.39
	68:11 Q. You are aware that Monsanto has conducted	
	68:12 long-term animal carcinogenicity studies on glyphosate	
	68:13 technical; correct?	
68:15 - 69:3	Koch, Michael 01-11-2019 (00:00:38)	Koch.40
	68:15 A. Based on the fact that we have	
	68:16 registrations, yes, I presume that there were	
	68:17 carcinogenicity studies conducted. I know that other	
	68:18 registrants have conducted that too.	
	68:19 Q. (By Mr. Wisner) Fair enough. And those	
	68:20 studies those long-term animal carcinogenicity	
	68:21 studies those are primarily on rodents; correct?	
	68:22 A. Yes, the rat and the mouse are the	
	68:23 accepted models for carcinogenicity studies.	

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	Koch-Koch, Michael 01-11-2019	
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69:5 - 69:11	68:24 Q. And those long-term carcinogenicity 69:1 studies look at whether Roundup sorry. Strike that. 69:2 Look at whether glyphosate not Roundup, but 69:3 glyphosate can induce tumors in laboratory animals? Koch, Michael 01-11-2019 (00:00:20) 69:5 A. Carcinogenicity studies are designed to 69:6 determine whether or not there's carcinogenic potential 69:7 for an active ingredient. 69:8 Q. (By Mr. Wisner) And to the best of your	Koch.41
69:13 - 69:16	69:9 knowledge, Monsanto has never conducted a long-term 69:10 animal carcinogenicity study on the formulated Roundup 69:11 product; correct? Koch, Michael 01-11-2019 (00:00:17) 69:13 A. The active ingredient and the inerts in 69:14 formulated products are subject to EPA review, and data 69:15 is required, including carcinogenicity, for inerts as	Koch.42
69:20 - 69:23	69:16 well. Koch, Michael 01-11-2019 (00:00:09) 69:20 Q. (By Mr. Wisner) Has the formulated 69:21 product, Roundup, ever been has there ever been a 69:22 long-term animal carcinogenicity study for the	Koch.43
70:1 - 70:7	69:23 formulated product? Koch, Michael 01-11-2019 (00:00:20) 70:1 A. Yeah, the components of the formulated 70:2 product have extensive datasets for them up to and 70:3 including carcinogenicity studies. 70:4 Q. (By Mr. Wisner) So are you testifying 70:5 under oath that there have been long-term animal 70:6 carcinogenicity studies examining the formulated	Koch.44
70:9 - 71:1	 70:7 product? Koch, Michael 01-11-2019 (00:00:42) 70:9 A. No, what I'm saying is that all of the 70:10 components in there have extensive datasets. 70:11 Q. (By Mr. Wisner) I understand. There have 70:12 been long-term animal carcinogenicity studies on 70:13 glyphosate; correct? 70:14 A. Correct. 70:15 Q. And there have not been long-term 70:16 carcinogenicity studies on the surfactant; correct? 70:17 A. I am not the surfactants are not our 	Koch.45

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	Koch-Koch, Michael 01-11-2019	
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	70:18 products, and so I don't know what all their dataset 70:19 describes comprised of. 70:20 Q. But Roundup that's a Monsanto product;	
	70:21 right? 70:22 A. It is. 70:23 Q. And to the best of your knowledge,	
	70:24 Monsanto has never conducted a long-term animal	
	71:1 carcinogenicity study on Roundup; correct?	16 1 40
71:4 - 71:12	Koch, Michael 01-11-2019 (00:00:32)	Koch.46
	71:4 A. Monsanto did the active ingredient carc	
	71:5 (ph) study and at much higher doses than would be found	
	71:6 in a Roundup product. Likewise, the safety dataset	
	71:7 from the other components would be has been found to	
	71:8 show no safety concerns, and so there was not a need to	
	71:9 conduct a study with the Roundup formulation.	
	71:10 Q. (By Mr. Wisner) Sir, I didn't ask you	
	71:11 about the need. I will get to that question. I'm just	
71:13 - 71:15	71:12 trying to get a baseline here.	Koch.47
71.10 - 71.10	Koch, Michael 01-11-2019 (00:00:10)	Room.47
	71:13 isn't it true, Doctor, that Monsanto has never	
	71:14 conducted a long-term animal carcinogenicity study on	
71:18 - 71:23	71:15 the Roundup formulated product?	Koch.48
71.10 71.20	Koch, Michael 01-11-2019 (00:00:14)	rtoonro
	71:18 A. As I said, the components of Roundup have	
	71:19 been extensively tested, but there is no formulated	
	71:20 product carcinogenicity study.	
	71:21 Q. (By Mr. Wisner) So that's a no, they've	
	71:22 never done a study on Roundup; just the parts within 71:23 it?	
72:1 - 72:1	Koch, Michael 01-11-2019 (00:00:01)	Koch.49
72.1 72.1	72:1 A. Not to my knowledge.	
146:9 - 146:12	Koch, Michael 01-11-2019 (00:00:11)	Koch.50
	146:9 Q. And isn't it true that even today Monsanto	
	146:10 has to be careful about how it discusses any particular	
	146:11 Roundup product because some Roundup products have	
	146:12 other stuff in them beyond just glyphosate?	
146:16 - 146:17	Koch, Michael 01-11-2019 (00:00:02)	Koch.51
	146:16 A. I don't know the contents of all the	
	146:17 Roundup products.	
146:18 - 147:2	Koch, Michael 01-11-2019 (00:00:15)	Koch.52

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	Koch-Koch, Michael 01-11-2019	
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	146:18 Q. (By Mr. Wisner) Well, you're head of the	
	146:19 product safety center; right?	
	146:20 A. That is correct.	
	146:21 Q. Roundup is a product?	
	146:22 A. It is.	
	146:23 Q. And in your capacity as the head of the	
	146:24 product safety center, you understand that certain	
	147:1 Roundup products contain active ingredients beyond just	
	147:2 glyphosate; right?	
147:5 - 147:5	Koch, Michael 01-11-2019 (00:00:00)	Koch.53
	147:5 A. That's correct.	
147:6 - 147:10	Koch, Michael 01-11-2019 (00:00:10)	Koch.54
	147:6 Q. (By Mr. Wisner) And so when you talk	
	147:7 about the safety of, quote/unquote, Roundup, you got to	
	147:8 be careful because you might be talking about other	
	147:9 chemicals depending on which specific Roundup you're	
	147:10 talking about?	
147:12 - 147:19	Koch, Michael 01-11-2019 (00:00:15)	Koch.55
	147:12 A. Yeah, this e-mail I've never seen it	
	147:13 before. I'm not sure to what they're referring here.	
	147:14 Q. (By Mr. Wisner) I wasn't asking you about	
	147:15 the e-mail. I was asking you about your knowledge as	
	147:16 the product safety center lead.	
	147:17 A. Then I'm sorry. I misinterpreted you.	
	147:18 Could you restate the question?	
	147:19 Q. Sure.	
147:20 - 147:21	Koch, Michael 01-11-2019 (00:00:11)	Koch.56
	147:20 [The pending question was read by the	
	147:21 reporter.]	
147:24 - 148:5	Koch, Michael 01-11-2019 (00:00:11)	Koch.57
	147:24 A. There's a lot in that question. Can you	
	148:1 unpack that a little bit for me?	
	148:2 Q. (By Mr. Wisner) I'll just have him read	
	148:3 it back, and I thought it was a good question, so	
	148:4 but if you can't answer it that's fine, but let's have	
	148:5 him read it back again.	
148:6 - 148:7	Koch, Michael 01-11-2019 (00:00:13)	Koch.58
	148:6 [The pending question was read by the	
	148:7 reporter.]	
148:9 - 148:10	Koch, Michael 01-11-2019 (00:00:03)	Koch.59

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	Koch-Koch, Michael 01-11-2019	
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	148:9 A. Yeah. I can't answer that question as	
440-40 440-04	148:10 asked.	Kaab 60
148:16 - 148:24	Koch, Michael 01-11-2019 (00:00:24)	Koch.60
	148:16 Q. Okay. Fine. Let's move on with	
	148:17 the e-mail. Dr. Farmer writes the terms glyphosate and	
	148:18 Roundup cannot be used interchangeably, nor can you use	
	148:19 Roundup for all glyphosate-based herbicides anymore.	
	148:20 Did I read that correctly?	
	148:21 A. It says the terms glyphosate and Roundup	
	148:22 cannot be used interchangeably, nor can you use Roundup	
	148:23 for all glyphosate-based herbicides anymore. Yes.	
140.0 140.6	148:24 Q. Do you agree with that?	Koch.61
149:3 - 149:6	Koch, Michael 01-11-2019 (00:00:07)	Kocn.61
	149:3 A. I don't know what's in all the Roundup	
	149:4 formulations.	
	149:5 Q. (By Mr. Wisner) I'm sorry. That	
440.0 4E0.0	149:6 sentence do you agree with it or not?	Koch.62
149:8 - 150:2	Koch, Michael 01-11-2019 (00:00:56)	ROCH.02
	149:8 A. I don't know the composition of all the	
	149:9 glyphosate formulations so I can't comment.	
	149:10 Q. (By Mr. Wisner) Sir, isn't it true that	
	149:11 the terms glyphosate and Roundup cannot be used	
	149:12 interchangeably nor can you use Roundup for all	
	149:13 glyphosate herbicides?	
	149:14 A. Glyphosate is the active ingredient in	
	149:15 Roundup, and so that's they are there are other	
	149:16 things in Roundup that are not glyphosate, yes.	
	149:17 Q. Great. For example she goes on to say,	
	149:18 for example, you cannot say Roundup is not a	
	149:19 carcinogen. We have not done the necessary testing on	
	149:20 the formulation to make that statement. The testing on	
	149:21 the formulations are not anywhere near the level of the	
	149:22 active ingredient. You can make that statement about	
	149:23 glyphosate and you can infer that there is no reason to	
	149:24 believe that Roundup would cause cancer. Did I read	
	150:1 that right?	
150:23 - 151:2	150:2 A. Yes, you read what was there.	Koch.64
100.20 - 101.2	Koch, Michael 01-11-2019 (00:00:09)	R0011.04
	150:23 Q. (By Mr. Wisner) And after Dr. Farmer made	
	150:24 this statement in 2003, Monsanto did not go about	

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	Koch-Koch, Michael 01-11-2019	ì
Page/Line	Source	ID
	151:1 conducting a carcinogenicity study on the Roundup	
154.5 454.40	151:2 formulated product, did it?	Koch.65
151:5 - 151:13	Koch, Michael 01-11-2019 (00:00:19)	KOCH.05
	151:5 A. To my knowledge there is no carcinogen	
	151:6 there is not a carcinogenicity study with Roundup	
	151:7 because it's not necessary because the regulatory	
	151:8 dataset is sufficient for coming to the conclusion it's	
	151:9 not a carcinogen.	
	151:10 Q. (By Mr. Wisner) Do you agree with her	
	151:11 that you cannot say that Roundup is not a carcinogen?	
	151:12 A. I don't know what she meant by that so I	
160:1E 160:16	151:13 can't comment on that.	Koch.66
163:15 - 163:16	Koch, Michael 01-11-2019 (00:00:03)	KOCH.00
	163:15 Q. (By Mr. Wisner) How long does it take to	
163:20 - 164:11	163:16 do a long-term animal carcinogenicity study?	Koch.67
103.20 - 104.11	Koch, Michael 01-11-2019 (00:00:39)	KOCII.07
	163:20 A. Carcinogenicity studies in mice typically	
	163:21 take 18 months and in rats two years.	
	163:22 Q. (By Mr. Wisner) And then it takes about,	
	163:23 what, another year or so to do all the histopathology	
	163:24 on those animals?	
	164:1 A. Yes, that's the dosing period for each of	
	164:2 those studies, and then there's the reporting process.	
	164:3 Yeah.	
	164:4 Q. So ballpark, to do a long-term rodent	
	164:5 carcinogenicity study it's approximately three years?	
	164:6 A. That's correct.	
	164:7 Q. So if Monsanto had started a long-term	
	164:8 animal carcinogenicity study in 2009, by the time you	
	164:9 arrived at Monsanto, and even today, we'd have data	
	164:10 about whether or not the formulated product induces	
164:16 - 164:18	164:11 tumors; correct? Koch, Michael 01-11-2019 (00:00:08)	Koch.68
10.110 101110	164:16 A. To my knowledge, Monsanto hasn't didn't	
	164:17 start a study in 2009 on the formulation, and so there 164:18 would be nothing to report.	
175:18 - 176:12	Koch, Michael 01-11-2019 (00:00:54)	Koch.69
	175:18 Q. (By Mr. Wisner) Well, you do have grounds	
	175.16 Q. (By Mr. Wisher) Well, you do have grounds 175:19 for saying that we don't have an urgent need to study	
	175.19 for saying that we don't have an digent need to study 175:20 the carcinogenicity of the formulated product; right?	
	170.20 the carcinogenicity of the formulated product, right!	

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	Koch-Koch, Michael 01-11-2019	
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	175:21 You have grounds for saying that; right?	
	175:22 A. Because the existing dataset, which	
	175:23 consists of data from multiple registrants, indicates	
	175:24 that there are no carcinogenicity concerns, yes.	
	176:1 Q. And in fact, there has never been a	
	176:2 carcinogenicity study done by Monsanto specifically to	
	176:3 look at whether the formulated product causes cancer or	
	176:4 promotes cancer; correct?	
	176:5 A. That's right. We believe the existing	
	176:6 dataset demonstrates the safety of the active	
	176:7 ingredient and that the other data available support	
	176:8 the safety of a formulation. Additionally, the	
	176:9 feasibility of conducting a chronic study with the	
	176:10 formulation is unknown. Things like the surfactants in	
	176:11 there could irritate the animals' stomachs and make it	
	176:12 impossible to feed them for two years.	
206:7 - 206:14	Koch, Michael 01-11-2019 (00:00:17)	Koch.70
	206:7 A. So as I said, there's a wide definition of	
	206:8 what people might call ghostwriting.	
	206:9 Q. (By Mr. Wisner) So you	
	206:10 A. And it's hard to say what would be	
	206:11 unethical or not.	
	206:12 Q. So it's your testimony to this jury that	
	206:13 you can't say one way or the other whether ghostwriting	
	206:14 is just across the board unethical?	14 1 74
206:9 - 206:11	Koch, Michael 01-11-2019 (00:00:03)	Koch.71
	206:9 Q. (By Mr. Wisner) So you	
	206:10 A. And it's hard to say what would be	
000 47 000 00	206:11 unethical or not.	Kb 70
206:17 - 206:20	Koch, Michael 01-11-2019 (00:00:11)	Koch.72
	206:17 A. Yeah, I think it's I think that the	
	206:18 fact that multiple definitions of ghostwriting exist,	
	206:19 and so therefore it's hard to say whether or not it's	
007.4 007.40	206:20 entirely inappropriate.	Kh 70
207:1 - 207:18	Koch, Michael 01-11-2019 (00:00:47)	Koch.73
	207:1 Q. When is ghostwriting appropriate, sir?	
	207:2 A. I think the term as I said, I think the	
	207:3 term means many things. Someone might use it as	
	207:4 shorthand for providing background information or	
	207:5 references or other things to facilitate someone else	

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	Koch-Koch, Michael 01-11-2019	
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	207:6 writing a paper. I don't see anything wrong with that.	
	207:7 Ghostwriting could also be someone writing a paper and	
	207:8 someone else signing their name to it as them having	
	207:9 written it, and I would say that is probably that's	
	207:10 not appropriate.	
	207:11 Q. So that second one where someone else	
	207:12 writes it and then someone signs their name, so to	
	207:13 speak that's the unethical type?	
	207:14 A. I would not be comfortable doing that.	
	207:15 Q. And you wouldn't be comfortable for any of	
	207:16 the people that you work with or work under you doing	
	207:17 that; correct? 207:18 A. That's correct.	
221:22 - 222:2		Koch.74
221.22 222.2	Koch, Michael 01-11-2019 (00:00:13)	Room, 1
	221:22 Q. Okay. Great. Now, you've repeatedly 221:23 stated that studies were not needed to study the	
	221:24 formulated product of Roundup; correct?	
	222:1 A. I've stated that carcinogenicity studies	
	222:2 aren't necessary with the formulated product, yes.	
250:12 - 251:2	Koch, Michael 01-11-2019 (00:00:34)	Koch.75
	250:12 Are you familiar with IARC?	
	250:13 A. I am.	
	250:14 Q. What is your understanding of what IARC	
	250:15 is?	
	250:16 A. The I know the acronym stands for the	
	250:17 International Agency for Research on Cancer.	
	250:18 Q. And when did you first learn about IARC?	
	250:19 A. 2014.	
	250:20 Q. And what was the circumstances of you	
	250:21 learning about it?	
	250:22 A. We had heard that they were going to	
	250:23 review glyphosate.	
	250:24 Q. And do you recall when in 2014 you first	
	251:1 heard about that?	
	251:2 A. I don't recall the exact date, no.	
251:3 - 251:5	Koch, Michael 01-11-2019 (00:00:10)	Koch.76
	251:3 Q. You understand that IARC's one of the	
	251:4 things that it does is it tries to identify the	
054.7 051.15	251:5 potential causes of human cancer?	
251:7 - 251:10	Koch, Michael 01-11-2019 (00:00:15)	Koch.77

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	Koch-Koch, Michael 01-11-2019	
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	251:7 A. IARC reviews publicly available data to	
	251:8 reach conclusions on safety. I think that often leaves	
	251:9 out a very important part of data on the safety of	
251:11 - 251:13	251:10 compounds, which is the regulatory data.	Koch.78
201.11 - 201.10	Koch, Michael 01-11-2019 (00:00:07)	Koon.70
	251:11 Q. (By Mr. Wisner) I understand that. But 251:12 you understand that IARC is its purpose is to try to	
	251:13 identify the causes of human cancer?	
251:16 - 251:18	Koch, Michael 01-11-2019 (00:00:08)	Koch.79
	251:16 A. IARC reviews publicly available	
	251:17 information on substances to determine whether or not	
	251:18 they believe it forms a carcinogen hazard.	
253:19 - 254:10	Koch, Michael 01-11-2019 (00:00:41)	Koch.80
	253:19 Q. (By Mr. Wisner) Do you understand how a	
	253:20 compound gets selected for IARC review?	
	253:21 A. I don't have a lot of knowledge of that,	
	253:22 no.	
	253:23 Q. Have you investigated that process to sort	
	253:24 of learn how glyphosate was selected?	
	254:1 A. Myself? No. Members of my team I believe	
	254:2 have looked into that, but I wasn't very much involved	
	254:3 with that.	
	254:4 Q. And so to be clear, it's your	
	254:5 understanding that you first became aware that IARC was	
	254:6 going to investigate glyphosate in 2014; is that right?	
	254:7 A. Yes.	
	254:8 Q. And I don't know if you answered this, but	
	254:9 I forget. Was that in around September of 2014? 254:10 A. That seems reasonable.	
283:21 - 284:18	Koch, Michael 01-11-2019 (00:00:52)	Koch.81
	283:21 Q. I'm handing you a document that's Exhibit	KOCH18.1
	283:22 18 to your deposition.	
	283:23 [Exhibit 18 marked for identification.]	
	283:24 Q. This is an e-mail a series of e-mail	
	284:1 exchanges. Again, you're on these e-mail exchanges;	KOCH18.1.1
	284:2 correct?	
	284:3 A. I am.	
	284:4 Q. And I'm sorry. And these document	
	284:5 this e-mail exchange was sent by you in the capacity of	
	284:6 your work at Monsanto?	

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	Koch-Koch, Michael 01-11-2019	
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	284:7 A. Yes. Yes.	KOCH18.1.2
	284:8 Q. So we see at the bottom here you have an	KOOH16.1.2
	284:9 e-mail that's addressed to, among other people,	
	284:10 yourself as well, from Daniel Jenkins. You see that?	
	284:11 A. I do.	
	284:12 Q. And the subject is EPA glyphosate. Do you	
	284:13 see that?	
	284:14 A. Yes.	
	284:15 Q. And this is Mr. Jenkins he was a guy	
	284:16 who dealt frequently in interacting with the EPA?	
	284:17 A. Dan was a member of the Government Affairs	
	284:18 Team, yes.	
285:8 - 285:23	Koch, Michael 01-11-2019 (00:00:39)	Koch.82
	285:8 Q. And down at	
	285:9 the bottom it talks about IARC; right?	KOCH18.1.3
	285:10 A. Yes.	
	285:11 Q. And this is in January of 2015, so this is	
	285:12 before the monograph has actually met; correct?	
	285:13 A. Yes.	
	285:14 Q. And it says IARC, they are sending	
	285:15 delegates trying to get names that are	
	285:16 knowledgeable RE glyphosate from EDSP and oncogenicity	
	285:17 standpoint. Do you see that?	
	285:18 A. Yes.	
	285:19 Q. And EDSP that refers to endocrine	KOCH18.1.5
	285:20 disruptors?	
	285:21 A. It's my understanding that EDSP in that	
	285:22 sentence stands for the Endocrine Disruptor Screening	
	285:23 Program.	
285:24 - 289:8	Koch, Michael 01-11-2019 (00:03:49)	Koch.83
	285:24 Q. And oncogenicity that refers to the	
	286:1 ability of a substance to cause tumors?	
	286:2 A. Yes.	
	286:3 Q. It says the findings by IARC would likely	KOCH18.1.6
	286:4 be impactful on their analysis. Do you see that?	
	286:5 A. I do.	
	286:6 Q. Now, you actually respond to this e-mail,	
	286:7 sending it or you forward it to Dr. Heydens; right?	KOCH18.1.7
	286:8 A. Yes.	
	286:9 Q. And the only thing that you comment on is	

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Koch-Koch, Michael 01-11-2019		
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	286:10 this statement about IARC; right?	
	286:11 A. Yes, I said that's what we didn't want to	
	286:12 hear, because we were concerned about the data that	
	286:13 the amount of data they would have to review and they	
	286:14 might come to the wrong conclusion.	
	286:15 Q. Well, what you wrote I understand what	
	286:16 you just said, but what you actually wrote to Dr.	
	286:17 Heydens was RE IARC, precisely what we didn't want to	
	286:18 hear about impact, huh? That's what you wrote?	
	286:19 A. That's what I wrote.	
	286:20 Q. And then Dr. Heydens responds to this	KOCH18.1.8
	286:21 concern that you raised to him, and he says I am	
	286:22 yes, I am sitting here pondering this as we speak, dot,	
	286:23 dot, dot. The \$1 billion question is, how could it	
	286:24 impact, actually cause them to reopen their cancer	
	287:1 review and do their own in-depth epid evaluation? I'll	
	287:2 stop right there. Epid that's epidemiology?	
	287:3 A. In this context that's what I take it to	
	287:4 be.	
	287:5 Q. And so it looks like there's a concern	
	287:6 raised by Dr. Heydens that if IARC classified	
	287:7 glyphosate or Roundup as being a human carcinogen that	
	287:8 it might cause the EPA to actually do its own in-depth	
	287:9 epidemiology evaluation?	
	287:10 A. I think what Bill was concerned about was	
	287:11 that if IARC came to the wrong conclusion based on a	

287:17 A. What Bill has stated is that he had -- he 287:18 was concerned that it would cause them to reopen their

287:14 Q. Yeah. Specifically he was worried that it

287:19 cancer review and do their own in-depth epi evaluation.

287:15 would cause them to reopen their cancer review and do 287:16 their own in-depth epidemiological review; correct?

287:12 limited dataset that it would cause a lot of concern

287:20 Q. And he was concerned about the EPA doing

287:21 that?

287:22 A. Well, it says he -- no, it doesn't say

287:13 and a lot of additional reviews.

287:23 concerned. It says actually cause them to reopen their

287:24 cancer review and do their own in-depth epid

288:1 evaluation.

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	Koch-Koch, Michael 01-11-2019	
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	288:2 Q. He refers to this as a \$1 billion	
	288:3 question, doesn't he?	
	288:4 A. That's what written.	
	288:5 Q. And he says this is getting huge after	
	288:6 what we heard on our call this morning, dot, dot, dot.	
	288:7 Do you see that?	
	288:8 A. I do. I took the \$1 billion question to	
	288:9 be hyperbole. I think it probably could have said the	
	288:10 \$64,000 question too.	
	288:11 Q. He could have said that, but he says a \$1	
	288:12 billion question, doesn't he?	
	288:13 A. He does.	
	288:14 Q. Did you have a conversation with him about	
	288:15 what he meant by the \$1 billion reference?	
	288:16 A. No.	
	288:17 Q. So you're just speculating?	
	288:18 A. I guess it's written \$1 billion there.	
	288:19 That's speculation.	
	288:20 Q. He says after we heard on our call this	
	288:21 morning. Do you know what call he's referring to?	
	288:22 A. I don't recall that.	
	288:23 Q. Were you on that call?	
	288:24 A. I don't recall if I was on a call nearly	
	289:1 four years ago on I don't even know whatever day	
	289:2 the 15th was. I don't recall.	
	289:3 Q. Sure. I understand. And then you respond	KOCH18.1.9
	289:4 to this e-mail; right?	
	289:5 A. Yes.	
	289:6 Q. You said yep, I had several of the same	
	289:7 thoughts; right?	
	289:8 A. Yes.	
289:9 - 289:12	Koch, Michael 01-11-2019 (00:00:12)	Koch.84
	289:9 Q. Now, I want to be clear. You've read into	
	289:10 this in your answers that there was a concern that the	
	289:11 IARCs didn't have access to certain information and	clear
	289:12 that was what this was all about; right?	
289:17 - 289:21	Koch, Michael 01-11-2019 (00:00:12)	Koch.85
	289:17 A. The concern all along is that we didn't	
	289:18 have our information available in the public literature	
	289:19 for IARC to review, and so they would be limit they	
	•	

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Koch-Koch, Michael 01-11-2019		
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		,
	289:20 would be reviewing a smaller dataset and possibly come	
	289:21 to the wrong conclusion.	
290:8 - 290:14	Koch, Michael 01-11-2019 (00:00:26)	Koch.86
	290:8 Q. I'm going to hand you another document.	
	290:9 It's a little bit later in time. It's Exhibit 19 to	KOCH19.1
	290:10 your deposition.	
	290:11 [Exhibit 19 marked for identification.]	
	290:12 Q. Have you seen this document before?	KOCH19.1.1
	290:13 A. Well, I'm CCed on there, so I assume I've	
	290:14 seen it before.	
290:19 - 290:22	Koch, Michael 01-11-2019 (00:00:11)	Koch.87
	290:19 Q. And this is a series of e-mail exchanges	
	290:20 between Bill Heydens and numerous Monsanto employees,	
	290:21 including yourself; correct?	
	290:22 A. Yes.	
291:8 - 291:16	Koch, Michael 01-11-2019 (00:00:24)	Koch.88
	291:8 Q. And this is in February 2015; correct?	
	•	
	•	
	·	
	5 .	
000 4 000 40		16h-00
292:1 - 292:19	•	Kocn.89
	**	
		KOCH10 2
		KOCH19.3.1
	_	KUCH10 2
	•	
	292.141 aimei and you're copied on it, correct?	
292:1 - 292:19	291:9 A. Yes. 291:10 Q. This is before Monsan I'm sorry IARC 291:11 has rendered its classification of glyphosate? 291:12 A. Yes. They met in March of 2015 and the 291:13 monograph was published later that year. 291:14 Q. So at this point Monsanto doesn't actually 291:15 know what the results of the monograph are? 291:16 A. It hadn't been held. Yeah. Koch, Michael 01-11-2019 (00:00:44) 292:1 Q. So these e-mails appear to have been 292:2 conducted in the regular course of Monsanto's work; 292:3 correct? 292:4 A. Yes. 292:5 Q. And if we go starting from the back 292:6 forward, it appears that there was a meeting an IARC 292:7 planning meeting that occurred and they're exchanging 292:8 notes and thoughts about that meeting? 292:9 A. Based on the content of the e-mails, it 292:10 looks like these are steps taken to prepare for the 292:11 IARC meeting. 292:12 Q. And then on February 19th, 2015, Bill 292:13 Heydens writes an e-mail it's addressed to Dr. 292:14 Farmer and you're copied on it; correct?	KOCH19.3 KOCH19.3.1 KOCH19.2 KOCH19.2.1

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	Koch-Koch, Michael 01-11-2019	
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	292:15 A. Yes.	
	292:16 Q. As well as Dr. Saltmiras?	
	292:17 A. Yes.	
	292:18 Q. He's someone who works for you?	
293:1 - 293:3	292:19 A. Yes.	Koch.90
290.1 - 290.0	Koch, Michael 01-11-2019 (00:00:06)	10011.30
	293:1 Q. And at this time Donna Farmer worked for	
	293:2 you as well?	
293:4 - 293:5	293:3 A. Yes. Yes. Koob Michael 01-11-2019 (00:00:05)	Koch.91
200.4 200.0	Koch, Michael 01-11-2019 (00:00:05)	
	293:4 Q. Did Dr. Heydens report to you, or no? 293:5 A. No. Dr. Heydens has never reported to me.	
293:11 - 295:8	Koch, Michael 01-11-2019 (00:02:17)	Koch.92
200.11	•	KOCH19.2.2
	293:11 Q. Well, it says per our call with John the	
	293:12 other day, the next two most important things we need 293:13 to do are the metaanalysis publication and the ag	
	293:14 health study follow-up publication, assuming we can get	
	293:15 our hands on the data in a reasonable time frame. I	KOCH19.2.3
	293:16 feel confident that we will have organizational support	
	293:17 for doing these projects, so I think we need to start	
	293:18 setting them up now. Do you see that?	
	293:19 A. I do.	
	293:20 Q. And this is in the context of IARC	
	293:21 planning; right?	
	293:22 A. Yes.	
	293:23 Q. What are those two projects that are being	
	293:24 contemplated there?	
	294:1 A. It looks to me like there the two items	
	294:2 under consideration are two publications, so a	
	294:3 metaanalysis I think that was a project Exponent was	
	294:4 working on, and the ag health study follow-up	
	294:5 publication. I don't recall as much about that.	
	294:6 Q. It's your understanding that the	
	294:7 metaanalysis was in fact performed and conducted by	
	294:8 Exponent; right?	
	294:9 A. Yes.	
	294:10 Q. But there was never an AHS follow-up	
	294:11 publication by Monsanto; correct?	
	294:12 A. Not that I know of.	
	294:13 Q. But then after that it goes, for the	KOCH19.2.5

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	Koch-Koch, Michael 01-11-2019	
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295:11 - 297:7	294:14 overall plausibility paper that we discussed. Do you 294:15 see that? 294:16 A. Yes. 294:17 Q. Do you know what he's referring to? 294:18 A. No, I don't recall. 294:29 Q. You do recall that there was an expert 294:20 panel convened after the IARC monograph? 294:21 A. Yes. 294:22 Q. That was done through the Intertek 294:23 Corporation? 294:24 A. Yes. 295:1 Q. And do you know if this overall 295:2 plausibility paper that Dr. Heydens is referring to is 295:3 referring to that project? 295:4 A. It's impossible to say given that this is 295:5 February of 2015 and that was done much later in the 295:6 year. I know that one of the papers published by the 295:7 expert panel looks at the overall plausibility. 295:8 Q. Is this the genesis of that idea possibly? Koch, Michael 01-11-2019 (00:02:21) 295:11 A. I don't know the relationship of this 295:12 over Bill's mentioning it here in the actual paper. 295:13 Q. (By Mr. Wisner) Now, you recall earlier 295:14 in the day we talked about types of different types 295:15 of ghostwriting; right? 295:16 A. Yes. 295:17 Q. We talked about ghostwriting that in your 295:18 opinion wasn't so bad, but then certain types of 295:19 ghostwriting that you thought was inappropriate? 295:20 A. Yeah, I think there's a continuum of what 295:21 some people might call ghostwriting. Some of it is 295:22 very some of it is simply it's shorthand a 295:23 shorthand word for gathering information, providing it 295:24 to someone so that they can write. There's and then 296:1 on the far end, as we talked about, there would be I'll 296:2 write this paper, you sign your name, which is 296:3 inappropriate. I think there's a huge continuum 296:4 within between those two variables, and those are 296:5 just extreme examples of the continuum.	clear Koch.93

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	Koch-Koch, Michael 01-11-2019	
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		,
	296:7 plausibility paper we discussed with John where he gave	
	296:8 the "butadeen" example. Did I say that right?	
	296:9 A. I would say "butadyeen."	
	296:10 Q. Let me read that again. For the overall	
	296:11 plausibility paper that we discussed with John where he	
	296:12 gave the butadiene example, I'm still having a little	K0014007
	296:13 trouble wrapping my mind around that. If we went full	KOCH19.2.7
	296:14 bore involving experts from all the major areas epi,	
	296:15 tox, genotox, MOA, exposure not sure who we'd get.	
	296:16 We could be pushing \$250,000 or maybe even more.	
	296:17 A. less expensive, more palatable approach	
	296:18 might be to involve experts only for the areas of	
	296:19 contention epidemiology and possibly MOA, depending	
	296:20 on what comes out of the IARC meeting and we	
	296:21 ghostwrite the exposure, tox, and genotox sections. An 296:22 option would be to add Greim and Kier or Kirkland to	
	296:23 have their names on the publication, but we would be	
	296:24 keeping the costs down by us doing the writing and they	
	297:1 would just edit and sign their names, so to speak. Do	
	297:2 you see that?	
	297:3 A. I do.	
	297:4 Q. So he is actually describing the latter	
	297:5 type of ghostwriting where Monsanto would write the	
	297:6 material and the authors would just edit and sign their	
	297:7 name, so to speak?	
297:10 - 297:24	Koch, Michael 01-11-2019 (00:00:32)	Koch.94
	297:10 A. You read what is written there, but I	
	297:11 don't know what was in Bill's mind.	
	297:12 Q. (By Mr. Wisner) Sure. But that's what he	
	297:13 wrote?	
	297:14 A. That's what's on the page.	
	297:15 Q. And that's the unethical type of	
	297:16 ghostwriting we established a second ago?	
	297:17 A. If that's indeed what happened, that would	
	297:18 be inappropriate.	
	297:19 Q. He goes on to say recall that is how we	KOCH19.2.8
	297:20 handled Williams, Kroes, & Munro, 2000. Do you see	
	297:21 that?	
	297:22 A. I do.	
	297:23 Q. So he's stating there that that's what	

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	Koch-Koch, Michael 01-11-2019	
Page/Line	Source	ID
000-0 000-45	297:24 they did with that particular publication; correct?	Kaab 05
298:2 - 298:15	Koch, Michael 01-11-2019 (00:00:43)	Koch.95
	298:2 A. That's what written.	
	298:3 Q. (By Mr. Wisner) Did you ever talk to Dr.	
	298:4 Heydens about this e-mail that you received?	
	298:5 A. I did not.	
	298:6 Q. Did you ever call up and say hey, Bill,	
	298:7 what are you talking about? We don't do that kind of	
	298:8 stuff here?	
	298:9 A. I did not.	
	298:10 Q. When you read that e-mail back in 2015,	
	298:11 did it concern you?	
	298:12 A. I don't recall what I felt specifically	
	298:13 that day.	
	298:14 Q. Let me hand you another document. This is	
	298:15 Exhibit 20 to your deposition.	
300:21 - 301:4	Koch, Michael 01-11-2019 (00:00:21)	Koch.96
	300:21 Q. Okay, great. And so this was a document	KOCH21.1
	300:22 and a series of e-mails that were done in the regular	
	300:23 course of Monsanto's work; right?	
	300:24 A. Yes.	
	301:1 Q. And at the bottom you talk about people	KOCH21.1.1
	301:2 having to catch other meetings, and that's for a	
	301:3 meeting to take place on Monday, May 11th, 2015?	
	301:4 A. Yes.	
301:15 - 303:5	Koch, Michael 01-11-2019 (00:01:49)	Koch.97
	301:15 Q. So what we have here is your original	
	301:16 e-mails on May 8th and then Bill Heydens writes all,	KOCH21.1.2
	301:17 see attached, which reflects the results of	
	301:18 conversations Donna and I had with various	
	301:19 stakeholders e.g., law, CE, RPSA. Do you see that?	
	301:20 A. I do.	
	301:21 Q. Do you know what law refers to?	
	301:22 A. That's typical shorthand for the legal	
	301:23 team.	
	301:24 Q. Do you know if that related to glyphosate	
	302:1 litigation?	
	302:2 A. I don't know that.	
	302:3 Q. And then CE. What does that refer to?	
	302:4 A. Corporate engagement, typically.	

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	Koch-Koch, Michael 01-11-2019	
Page/Line	Source	ID
	302:5 Q. What's that?	
	302:6 A. It's how we talk with other corporations	
	302:7 who are stakeholders for the downstream products of ag.	
	302:8 Q. Got you. And then RPSA?	
	302:9 A. Regulatory policy and scientific affairs.	
	302:10 Q. He writes this will be the basis of our	
	302:11 discussion today. Thanks. Do you see that?	
	302:12 A. I do.	K001104 4 0
	302:13 Q. So it appears that Dr. Heydens is sharing	KOCH21.1.3
	302:14 this document in anticipation of a meeting that you're	
	302:15 going to be having later that day on May 11th?	
	302:16 A. Yes, that's my interpretation as well.	K001104.0
	302:17 Q. So if we look at the attachment, the title	KOCH21.2
	302:18 of the document is proposal for post-IARC meeting	
	302:19 scientific projects draft, May 11th, 2015. Do you see	
	302:20 that?	
	302:21 A. Yes.	KOOLIO4 O
	302:22 Q. And then if we turn to the next page, it	KOCH21.3
	302:23 starts off with, why do more? The first bullet point	KOCH21.3.1
	302:24 says severe stigma attached to Group 2A classification.	KUCH21.3.1
	303:1 Do you see that?	
	303:2 A. I see it written there.	
	303:3 Q. Did you agree that when IARC classified	
	303:4 glyphosate as a Class 2A carcinogen that it put a	
303:7 - 303:20	303:5 stigma on Roundup?	Koch.98
303.7 - 303.20	Koch, Michael 01-11-2019 (00:00:38)	Roon.so
	303:7 A. When they came to the 2A conclusion I	
	303:8 thought they got the wrong answer and a potentially bad	
	303:9 answer, and so that's what I thought at the time.	
	303:10 Q. (By Mr. Wisner) If we go down here, this	
	303:11 is in response these bullet points is a response	
	303:12 to the question, why do more; right? And if you read 303:13 the bullet point it says provide additional support,	KOCH21.3.2
	303:14 quote, air cover to future regulatory reviews. Do you 303:15 see that?	
	303:16 A. I do.	
	303:17 Q. What does that mean?	
	303:18 A. I don't know.	
	303:19 Q. What does it mean to provide air cover to	
	303:20 a regulatory review?	

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	Koch-Koch, Michael 01-11-2019	
Page/Line	Source	ID
202:00 204:44	M. J. M. J. J. a. 44 0040 (00 00 00)	Kaab 00
303:22 - 304:11	Koch, Michael 01-11-2019 (00:00:29)	Koch.99
	303:22 A. I don't know what he meant.	KOCH21.3.3
	303:23 Q. (By Mr. Wisner) The next one is the ASTDR	1001121.0.0
	303:24 evaluation. Do you see that?	
	304:1 A. Uh-huh.	
	304:2 Q. And it was your understanding that the	
	304:3 ASTDR, which is a you understand that's an agency 304:4 within the CDC?	
	304:5 A. Yes.	
	304:6 Q. And you understand that they had proposed 304:7 doing a risk assessment or hazard assessment for	
	304:8 glyphosate?	
	304:9 A. I was aware they were considering	
	304:10 additional work. I don't recall what that additional	
	304:11 work was comprised of.	
304:16 - 305:2	Koch, Michael 01-11-2019 (00:00:28)	Koch.100
	304:16 Q. Do you know if Monsanto requested aid or	
	304:17 enlisted the help of any members of the EPA to shut	
	304:18 that investigation down?	
	304:19 A. No.	
	304:20 Q. The next one is Prop 65. Do you see that?	KOCH21.3.4
	304:21 A. Yes.	
	304:22 Q. Do you know what that refers to?	
	304:23 A. I think that's shorthand for Proposition	
	304:24 65 in California.	
	305:1 Q. And that's the law in California that	
	305:2 basically follows IARC; right?	12 1 484
305:4 - 305:5	Koch, Michael 01-11-2019 (00:00:06)	Koch.101
	305:4 A. As I understand it, Proposition 65 uses	
205:46 205:00	305:5 IARC as one of the criteria for evaluation.	Koch.102
305:16 - 305:20	Koch, Michael 01-11-2019 (00:00:16)	K0CII.102
	305:16 Q. So you don't know sitting here today	
	305:17 whether or not glyphosate is one of the listed	
	305:18 chemicals under Proposition 65?	
	305:19 A. With absolute certainty, no, I don't. 305:20 Q. Well, with general certainty do you know?	
305:24 - 305:24	Koch, Michael 01-11-2019 (00:00:01)	Koch.103
	305:24 A. Yeah, I don't know.	
306:7 - 306:13	Koch, Michael 01-11-2019 (00:00:15)	Koch.104
	306:7 Q. The last one is in response to the	KOCH21.3.5
	a. The last one is an itopolise to the	

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	Koch-Koch, Michael 01-11-2019	
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		· ·
	306:8 question, why do more, is litigation support. Do you	
	306:9 see that?	
	306:10 A. I do.	
	306:11 Q. And this was specifically referring to	
	306:12 lawsuits against Monsanto for Roundup causing	
000.45 000.40	306:13 non-Hodgkin's lymphoma; correct?	K 405
306:15 - 306:18	Koch, Michael 01-11-2019 (00:00:10)	Koch.105
	306:15 A. No, I think it might have related to the	
	306:16 Prop 65 case as well. I think when talking about	
	306:17 litigation support it's helping the legal team	
000.40 000.40	306:18 understand some of the science sometimes.	Kaab 106
306:19 - 308:13	Koch, Michael 01-11-2019 (00:01:23)	Koch.106
	306:19 Q. (By Mr. Wisner) So if we turn to the next	KOCH21.4
	306:20 page, the first says the first two words are counter	KOCH21 4 1
	306:21 IARC; right?	KOCH21.4.1
	306:22 A. Yes.	
	306:23 Q. And it says it wants to counter all this	KOCH21.4.2
	306:24 data and it lists some possibilities; right?	KOUH21.4.2
	307:1 A. Yes.	
	307:2 Q. The first one is conduct and publish a new	KOCH21.4.3
	307:3 metaanalysis; right?	KOOH21.4.3
	307:4 A. Yes.	
	307:5 Q. Actually talked about that possibility in	
	307:6 one of those previous e-mails?	
	307:7 A. Yes.	KOCH21.4.4
	307:8 Q. The next one is publication on animal data	KOOH21.4.4
	307:9 cited by IARC?	
	307:10 A. Yes.	KOCH21.4.5
	307:11 Q. The other one was published an updated AHS	KOOH21.4.0
	307:12 study data. Do you see that?	
	307:13 A. Yes.	
	307:14 Q. That's another one that we discussed a	
	307:15 minute ago?	
	307:16 A. I recall that.	KOCH21.4.6
	307:17 Q. Published a weight of the evidence	ROOME 1.4.0
	307:18 plausibility paper? Do you see that?	
	307:19 A. Yes.	
	307:21 proviously in that a mail?	
	307:21 previously in that e-mail? 307:22 A. Yes.	
	507.22 A. 165.	

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	Koch-Koch, Michael 01-11-2019	
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	307:23 Q. And then it just says genotox, MOA. Do 307:24 you see that? 308:1 A. I do. 308:2 Q. Do you know what that refers to?	KOCH21.4.7
	308:3 A. It's more vague than the others and I	
	308:4 don't recall exactly what that refers to. 308:5 Q. So we turn to the next page. It discusses	KOCH21.5
	308:6 the proposal of the of a metaanalysis; right?	KOCH21.5.1
	308:8 Q. Turn to the next page. It discusses	KOCH21.6
	308:9 publication on animal carcinogenicity data; right? 308:10 A. Yes.	KOCH21.6.1
	308:11 Q. And then it has the description of the	
	308:12 project; right?	KOCH21.6.2
00040 04040	308:13 A. It does.	Koch.107
309:13 - 310:16	Koch, Michael 01-11-2019 (00:01:04)	KOCH21.6.3
	309:13 Q. It says Greim and one other two other	KOO1121.0.0
	309:14 external authors, question mark. Do you see that? 309:15 A. Yes.	
	309:16 Q. And it has the cost. Do you see that	KOCH21.6.4
	309:17 section about cost?	
	309:18 A. Yes.	
	309:19 Q. And this is about how much it would	
	309:20 cost Monsanto to put this publication together?	
	309:21 A. Yes.	
	309:22 Q. And then it says majority of writing can	KOCH21.6.5
	309:23 be done by Monsanto keeping OS, dollar sign, down. Do	
	309:24 you see that? 310:1 A. I do.	
	310:1 A. I do. 310:2 Q. What is OS, dollar sign? Is that a	KOCH21.6.6
	310:3 A. That's usual shorthand for outside spend.	
	310:4 Q. So this is suggesting that the majority of	
	310:5 writing can be done by Monsanto so we can keep outside	
	310:6 spend costs down?	
	310:7 A. That's what's written.	
	310:8 Q. Turn to the next page, AHS collaboration	KOCH21.7
	310:9 is addressed; right?	
	310:10 A. Yes.	V001104 7.4
	310:11 Q. And it describes the project. It says the 310:12 risk is low; right?	KOCH21.7.1
	OTO. 12 Hot to low, right:	

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	Koch-Koch, Michael 01-11-2019	
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		,
	310:13 A. Yes.	
	310:14 Q. The downside it's a longer-term	KOCH21.7.2
	310:15 project, won't get quick results. Do you see that?	
	310:16 A. I see that written there, yes.	
311:18 - 311:24	Koch, Michael 01-11-2019 (00:00:18)	Koch.108
	311:18 Q. Yeah. So we have the overall	KOCH21.8
	311:19 weight of evidence plausibility publication, possibly	KOCH21.8.1
	311:20 via expert panel concept; right?	
	311:21 A. Yes.	
	311:22 Q. And this is where the idea of an expert	
	311:23 panel sort of comes more clearly into view in what will	
	311:24 later become the Intertek project?	
312:4 - 312:18	Koch, Michael 01-11-2019 (00:00:39)	Koch.109
	312:4 A. It's a consistent theme in the documents	
	312:5 we've looked at. It's impossible to say, but it's a	
	312:6 consistent theme.	
	312:7 Q. And the product description is a	KOCH21.8.2
	312:8 comprehensive evaluation of carcinogenic potential by	
	312:9 credible scientists; right? Project description?	
	312:10 A. That's what's written.	
	312:11 Q. It actually lists possible panelists and	
	312:12 authors; right?	KOCH21.8.3
	312:13 A. It does.	
	312:14 Q. Dr. Solomon?	
	312:15 A. Solomon is a name there.	
	312:16 Q. And Dr. Solomon actually is ultimately	
	312:17 goes on to become part of the Intertek panel; right?	
	312:18 A. If this is Keith Solomon, then yes.	
313:2 - 314:18	Koch, Michael 01-11-2019 (00:01:09)	Koch.110
	313:2 Q. (By Mr. Wisner) Dr. Sorohan for	
	313:3 epidemiology. Do you see that?	
	313:4 A. Yes.	
	313:5 Q. And then we have Dr. Greim, animal	
	313:6 bioassay. Do you see that?	
	313:7 A. I do.	
	313:8 Q. Dr. Greim actually was part of the	
	313:9 Intertek panel?	
	313:10 A. If by Helmut Greim that's what we	
	313:11 mean yes.	
	313:12 Q. Do you know any other Greims by any	

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	Koch-Koch, Michael 01-11-2019	· ·
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	313:13 chance?	
	313:14 A. Not off the top of my head.	
	313:15 Q. And then G. Williams that's Gary	
	313:16 Williams. You understand who that is?	
	313:17 A. Another panel member.	
	313:18 Q. He also ended up being on the expert panel	
	313:19 for Intertek?	
	313:20 A. Uh-huh.	
	313:21 Q. Is that right?	
	313:22 A. Yes.	
	313:23 Q. And then Dr. Kirkland also on the expert	
	313:24 panel?	
	314:1 A. There's Dr. Kirkland on the expert panel,	
	314:2 yes.	
	314:3 Q. And both Dr. Williams, Dr. Kirkland	
	314:4 they actually did a genotox method-of-action paper?	
	314:5 A. I'd have to go back and review which	
	314:6 papers were which, but	
	314:7 Q. We will get there very soon.	
	314:8 A. Okay.	KOCH21.8.4
	314:9 Q. So the cost is between \$200,000 and	KOO1121.0.4
	314:10 \$250,000 depending on. Do you see that?	
	314:11 A. I do.	KOCH21.8.5
	314:12 Q. It says who slash how many scientists we	
	314:13 include. Do you see that? 314:14 A. I do.	
	314:15 Q. And then it says, how much writing can be	KOCH21.8.6
	314:16 done by Monsanto scientists to help keep costs down?	
	314:17 Do you see that?	
	314:18 A. I do.	
314:19 - 314:22	Koch, Michael 01-11-2019 (00:00:08)	Koch.111
	314:19 Q. And it says an alternative would be one or	KOCH21.8.7
	314:20 two separate publications with a subset of authors;	
	314:21 right?	
	314:22 A. That's what's written.	
314:23 - 315:13	Koch, Michael 01-11-2019 (00:00:38)	Koch.112
	314:23 Q. So turning to the last project described	KOCH21.9
	314:24 in this PowerPoint, genotox slash MOA. Do you see	KOCH21.9.1
	315:1 that?	
	315:2 A. Yes.	

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	Koch-Koch, Michael 01-11-2019	
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		,
	315:3 Q. And the first bullet point is counter	K001104 0 0
	315:4 IARC's claim of strong evidence of DNA damage slash	KOCH21.9.2
	315:5 oxidative stress; right?	
	315:6 A. Yes.	
	315:7 Q. And it says right here could be important	K001104 0 0
	315:8 for future litigation support. See that?	KOCH21.9.3
	315:9 A. I do.	
	315:10 Q. So even at this point Monsanto and your	
	315:11 group that are meeting for this meeting on May 11th are	
	315:12 contemplating that at least one of these projects could	
04545 0404	315:13 be important for future litigation?	V 440
315:15 - 316:1	Koch, Michael 01-11-2019 (00:00:24)	Koch.113
	315:15 A. I didn't put the slide together, but that	
	315:16 is what is written there.	
	315:17 Q. (By Mr. Wisner) But you were at the	
	315:18 meeting; right?	
	315:19 A. I was.	
	315:20 Q. And you were sent this presentation to	
	315:21 review and consider before the meeting?	
	315:22 A. I was.	
	315:23 Q. And it was your understanding at that time	
	315:24 that part of the work you were doing in responding to	
040:4 040:5	316:1 IARC would be important for future litigation?	Vaab 111
316:4 - 316:5	Koch, Michael 01-11-2019 (00:00:02)	Koch.114
	316:4 A. I don't recall exactly what litigation	
046.6 047.0	316:5 they're referring to there, so	Koob 115
316:6 - 317:9	Koch, Michael 01-11-2019 (00:01:04)	Koch.115
	316:6 Q. (By Mr. Wisner) So then after the	KOCH21.10.1
	316:7 description of all these projects there's like a sort	KOOH21.10.1
	316:8 of quick rundown, do you see, in the next two pages	
	316:9 called feedback? Do you see that?	
	316:10 A. Yes.	
	316:11 Q. And it has it looks like sort of entries	
	316:12 related to feedback from these various stakeholders;	
	316:13 right?	
	316:14 A. Uh-huh.	
	316:15 Q. Is that a yes?	
	316:16 A. Sorry.	
	316:17 Q. I know you're chewing on ice.	
	316:18 A. Yes.	

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	Koch-Koch, Michael 01-11-2019	
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	316:19 Q. The first one is the metaanalysis; right? 316:20 You see that?	KOCH21.10.2
	316:21 A. Yes. 316:22 Q. And then the next one is updated AHS 316:23 study; right?	KOCH21.10.3
	316:24 A. Yes. 317:1 Q. And that one, based on what it says here, 317:2 was most appealing to the legal group; right?	KOCH21.10.4
	317:3 A. Yes. 317:4 Q. And it explains Monsanto somewhat 317:5 distanced and AHS involved. Do you see that? 317:6 A. Yes.	KOCH21.10.5
	317:0 A. Tes. 317:7 Q. Do you recall that legal was that legal 317:8 thought that an updated AHS study would be beneficial 317:9 for its work?	
317:16 - 318:11	Koch, Michael 01-11-2019 (00:00:53) 317:16 A. I don't recall having conversations with	Koch.116
	317:17 them about this. 317:18 Q. (By Mr. Wisner) Well, based here it's 317:19 for the legal group it says most appealing; right? 317:20 A. That's what's written.	KOCH21.10.6
	317:20 A. That's what's written. 317:21 Q. And then if we go on the next one, publish	KOCH21.11
	317:22 weight of the evidence plausibility paper. Do you see 317:23 that?	KOCH21.11.1
	317:24 A. I do. 318:1 Q. And it says legal appealing, best if use 318:2 big names, better sponsored by some group; right? 318:3 A. That's what written.	KOCH21.11.2
	318:4 Q. And so in this kind of weight of the 318:5 evidence plausibility paper, ultimately Monsanto did in 318:6 fact retain Intertek to put it together; right? 318:7 A. There is an overall review of the weight	
	318:8 of evidence and plausibility paper as part of the 318:9 expert panel. 318:10 Q. And you guys put some big names on that 318:11 panel; right?	
318:13 - 318:19	Koch, Michael 01-11-2019 (00:00:23) 318:13 A. We Intertek gathered some very well 318:14 acknowledged or very highly thought of independent 318:15 experts to be a part of that panel, yes.	Koch.117

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	Koch-Koch, Michael 01-11-2019	
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	318:16 Q. (By Mr. Wisner) And so it appears that	
	318:17 legal's statement here, best if use big names, better	
	318:18 sponsored by some group those two suggestions appear	
318:21 - 318:22	318:19 to have been implemented?	Koch.118
310.21 - 310.22	Koch, Michael 01-11-2019 (00:00:06)	KOCII. I IO
	318:21 A. I wasn't a part of those conversations and	
320:23 - 321:6	318:22 so I don't know if what was done met that guidance.	Koch.119
320.23 - 321.0	Koch, Michael 01-11-2019 (00:00:17)	KOCH22.1
	320:23 Q. (By Mr. Wisner) So Doctor, I've handed	ROOHZZ.1
	320:24 you Exhibit 22. This is a series of e-mail exchanges.	KOCH22.1.1
	321:1 It's dated May 11th, 2015. Do you see that?	ROOHZZ.1.1
	321:2 [Exhibit 22 marked for identification.]	
	321:3 A. Yes.	
	321:4 Q. And it's from Dr. Heydens and it's to you	
	321:5 and others; right?	
321:16 - 322:19	321:6 A. Correct.	Koch.120
321.10 - 322.19	Koch, Michael 01-11-2019 (00:01:11)	K0011.120
	321:16 Q. And these e-mail exchanges they occur	
	321:17 in the regular course of your work at Monsanto; right?	
	321:18 A. Yes.	KOCH22.1.2
	321:19 Q. It reads all, here's what I think I heard	1001122.1.2
	321:20 and one question in our meeting today. Please send any	
	321:21 corrections slash additions. Do you see that?	
	321:22 A. I do.	
	321:23 Q. So it appears that he's actually talking	
	321:24 about the meeting you guys had on the 11th?	
	322:1 A. That's my interpretation as well.	KOCH22.1.5
	322:2 Q. And he's talking about really the five	
	322:3 different projects that we just went through from that	
	322:4 PowerPoint? Do you see that? I'm sorry. Four	
	322:5 different projects?	
	322:6 A. I see projects that I recognize from	KOCH22.1.3
	322:7 seeing them in the PowerPoint earlier, yes.	
	322:8 Q. And for example, on the publication on	
	322:9 animal data cited by IARC. Do you see that? 322:10 A. I do.	
	322:11 Q. And he says this is the only other idea	
	322:12 that could be done prior to monograph publication. Do	
	322:13 you see that? 322:14 A. Yes.	
	022.17 A. 165.	

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	Koch-Koch, Michael 01-11-2019	
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	322:15 Q. And he said it would be more powerful if 322:16 authored by non-Monsanto scientists, Kirkland, Kier, 322:17 Williams, Greim, and maybe Solo Keith Solomon. Do 322:18 you see that?	KOCH22.1.4
322:20 - 3	322:19 A. I do. Koch, Michael 01-11-2019 (00:00:17) 322:20 Q. So it looks during this meeting do you 322:21 guys recall discussing getting the animal data 322:22 published by some reputable scientists such as Dr. 322:23 Kirkland, Kier, Williams, Greim, and Solomon? 322:24 A. Publication of the animal data cited by 323:1 IARC was an idea at the time.	Koch.121
323:5 - 32		Koch.122
	323:10 Q. Well, I'm going to show you what's Exhibit 323:11 23 to your deposition. 323:12 [Exhibit 23 marked for identification.]	KOCH23.1
324:2 - 32		Koch.123
	324:5 Q. And you write and this is an e-mail you 324:6 sent in the regular course of your work; right? 324:7 A. It is. 324:8 Q. And you write, Bill, I agree with 324:9 everything you've written and have a couple of 324:10 suggested additions. Please see green text below. 324:11 Thanks, Mike. Do you see that? 324:12 A. That is correct. Yeah.	KOCH23.1.1
	324:13 Q. And then it appears that in his e-mail you 324:14 have added in stuff. Although this isn't in color, you 324:15 can see that the font is more faded? 324:16 A. The lighter font color, yes. 324:17 Q. And for example, under the genotox/MOA 324:18 thing section, you write I think this was Donna's 324:19 action item; right?	KOCH23.1.2

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	Koch-Koch, Michael 01-11-2019	
Page/Line	Source	ID
	324:20 A. Yes.	
	324:21 Q. And she was someone that worked for you at	
	324:22 the time?	
	324:23 A. Yes, Donna Farmer.	
	324:24 Q. And then and I was looking through the	
	325:1 rest of this, and the only other addition I see was	KOCH23.1.3
	325:2 under the publication on animal data cited by IARC. Do 325:3 you see that?	
	325:3 you see that?	
	325:5 Q. And you added, quote, manuscript to be	
	325:6 initiated by MON as ghostwriters; correct?	
	325:7 A. That's what I see, yes.	
	325:8 Q. And so MON that refers to Monsanto;	
	325:9 right?	
	325:10 A. It does.	
	325:11 Q. And so the only addition that you added	
	325:12 based on the suggestions or corrections that Bill	
	325:13 Heydens asked for was to mention that Donna would do	
	325:14 the genotox/MOA and that you wanted the manuscript on	
	325:15 the animal data to be issued by Monsanto as	
	325:16 ghostwriters?	
	325:17 A. There's a couple of things about that	
	325:18 publication. So as I mentioned earlier, the	
	325:19 publication on animal data cited by IARC was an idea at	
	325:20 the time. It was never actually published, and when I	
	325:21 mentioned that ghostwriting has many definitions	
	325:22 from on the one end being providing	
	325:23 information background information, data, things	
	325:24 like that, to facilitate an author writing an article	
	326:1 on a short period of time. 326:2 Q. Well, I don't want to fight with you about	
	326:3 what you meant when you wrote this. Do you actually	
	326:4 recall what you were thinking when you wrote this?	
	326:5 A. Yeah, I knew we had very tight timeline	
	326:6 if it was going to get out, if it was going to get	
	326:7 done, we needed to facilitate providing information to	
	326:8 them, and so that's what I was that was my intention	
	326:9 there.	
	326:10 Q. So you actually recall what you were	
	326:11 thinking when you wrote this?	

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	Koch-Koch, Michael 01-11-2019	
Page/Line	Source	ID
	000 10 A Vanla	
	326:12 A. Yeah.	
	326:13 Q. From four years ago?	
	326:14 A. I recall that I thought that we needed to	
	326:15 enable timelines, and I would not be comfortable with	
	326:16 the other definition of ghostwriting that's been	
327:7 - 327:12	326:17 provided today.	Koch.124
321.1 - 321.12	Koch, Michael 01-11-2019 (00:00:17)	ROCII. 124
	327:7 Q. (By Mr. Wisner) And if you read it in the	KOCH23.1.4
	327:8 context of the sentence immediately afterwards, it was	ROOH25.1.4
	327:9 noted that this would be more powerful if authored by	
	327:10 non-Monsanto scientists and it lists a couple of	
	327:11 scientists; right?	
328:1 - 328:13	327:12 A. You've read that correctly.	Koch.125
320.1 - 320.13	Koch, Michael 01-11-2019 (00:00:33)	K0011.125
	328:1 Q. (By Mr. Wisner) Earlier I showed you that	
	328:2 e-mail from Dr. Heydens where he talked about	
	328:3 ghostwriting; right?	
	328:4 A. Yes.	
	328:5 Q. And you didn't raise any alarm or concern	
	328:6 with him in his description of what he was thinking	
	328:7 about doing?	
	328:8 A. No.	
	328:9 Q. And in the same set of meetings related to	
	328:10 IARC, you've now written that a manuscript should be	
	328:11 initiated by MON as ghostwriters; correct?	
	328:12 A. It was a note I made on a project that we	
329:1 - 329:10	328:13 were considering at the time that was never conducted.	Koch.126
329.1 - 329.10	Koch, Michael 01-11-2019 (00:00:37)	K0011.120
	329:1 Q. But now, 2019, January, after lawsuits	
	329:2 have been filed against your employer where allegations	
	329:3 of ghostwriting have been alleged, you remember what	
	329:4 you meant when you wrote this sentence that a	
	329:5 manuscript should be initiated by MON as a ghostwriter?	
	329:6 A. I recall that I felt that my that	
	329:7 ghostwriting in this sense was providing information	
	329:8 like background information, references, things like	
	329:9 that, to an author to facilitate publication of a	
329:16 - 329:20	329:10 paper, because that's what I would be comfortable with.	Koch.127
029.10 · 029.20	Koch, Michael 01-11-2019 (00:00:14)	ROUI. 121
	329:16 Q. So we discussed this earlier about this	

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	Koch-Koch, Michael 01-11-2019	
Page/Line	Source	ID
	329:17 overall weight and plausibility publication.	
	329:18 Ultimately there was an expert panel convened through	
	329:19 Intertek; correct?	
330:4 - 330:23	329:20 A. Yes.	Koch.128
330.4 - 330.23	Koch, Michael 01-11-2019 (00:00:52)	clear
	330:4 Q. (By Mr. Wisner) I understand that there	oleai
	330:5 was a series of articles published in the journal of	
	330:6 Critical Reviews in Toxicology; correct?	
	330:7 A. Yes.	
	330:8 Q. And these articles reflected the work and	
	330:9 opinions of the Intertek panel; correct? 330:10 A. Yes.	
	330:11 Q. Isn't it true that Monsanto directly	
	330:12 selected people who would participate in that panel? 330:13 A. It's my understanding that Monsanto	
	330:14 provided some names to Intertek, but I don't know that	
	•	
	330:15 all the people on it were specifically selected. 330:16 Q. And we saw on the document just a few	KOCH23.1.5
	330:17 Minutes ago several of the names that were even thrown	
	330:18 about at the very beginning of this project. They	
	330:19 ultimately made it on the panel; correct?	
	330:20 A. People like Helmut Greim, Larry Kier.	clear
	330:21 Yes, I recall reading those names earlier.	
	330:22 Q. And these were people who were within	
	330:23 Monsanto's toxicology network; correct?	
331:1 - 331:8	Koch, Michael 01-11-2019 (00:00:26)	Koch.129
	331:1 A. The members of the expert panel are	
	331:2 acknowledged experts in their field, and so when we	
	331:3 want independent thoughts on things different things	
	331:4 that we might do, we seek out the best minds in the	
	331:5 field, and so the fact that some of the people	
	331:6 overlapped between the expert panel and people we've	
	331:7 consulted with in the past is a matter of their	
	331:8 expertise.	
331:24 - 332:1	Koch, Michael 01-11-2019 (00:00:07)	Koch.130
	331:24 Q. (By Mr. Wisner) All right, Doctor. I'm	
	332:1 handing you Exhibits 24, 25, 26, and 27.	KOCH4DOCS.1
332:12 - 332:22	Koch, Michael 01-11-2019 (00:00:30)	.1 Koch.131
002.12		
	332:12 Q. (By Mr. Wisner) All right, sir. So these 332:13 are the four Intertek publications that we were just	
	332.13 are the four intertex publications that we were just	
		1

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	Koch-Koch, Michael 01-11-2019	
Page/Line	Source	ID
	000.14 diagonaria an agree 40	
	332:14 discussing; correct? 332:15 A. Yes.	
		clear
	332:16 Q. I want to be just very frank with you.	oloui
	332:17 Did Monsanto employees review these manuscripts before	
	332:18 they were published?	
	332:19 A. I don't know.	
	332:20 Q. Did Monsanto's employees write, edit, or	
	332:21 make any contributions to any portions of these	
332:24 - 333:2	332:22 manuscripts?	Koch.132
002.24 000.2	Koch, Michael 01-11-2019 (00:00:13)	110011.102
	332:24 A. Would you read the question back?	
	333:1 [The pending question was read by the	
333:4 - 333:21	333:2 reporter.]	Koch.133
000.4 000.21	Koch, Michael 01-11-2019 (00:00:47)	noon. roo
	333:4 A. Can you clarify any contribution?	
	333:5 Q. (By Mr. Wisner) Let me just be clear.	
	333:6 Did they write any of the words that occurred in any of	
	333:7 these manuscripts? 333:8 A. I don't know.	
	333:9 Q. Were you in charge or did you oversee this	
	333:10 Intertek panel at all?	
	333:11 A. No, I received some notifications on what	
	333:12 it would cost, but I was not in charge of the panel.	
	333:13 Q. But you know Dr. Farmer was heavily 333:14 involved in it?	
	333:15 A. Dr. Farmer was involved with a lot of the	
	333:16 glyphosate effort at that time, yes.	
	333:17 Q. And she was a toxicologist working under	
	333:18 you at the time?	
	333:19 A. Dr. Farmer has considerable experience	
	333:20 with glyphosate, and so I give her a wide path to do	
333:22 - 334:5	333:21 what she needs to do. I don't micromanage her. Koch, Michael 01-11-2019 (00:00:22)	Koch.134
000.22 001.0	333:22 Q. Sure. Fair enough. I wasn't I didn't	
	333:23 mean to suggest that you did. I was just asking that	
	333:24 at the time Dr. Farmer was working on the Intertek	
	334:1 panel or working with the Intertek panel, she was	
	334:2 working as a toxicologist under you; that's all?	
	334:3 A. I know that Donna was working on	
	334:4 glyphosate-related matters. I'm not sure how close she	

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	Koch-Koch, Michael 01-11-2019	
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	334:5 was to the panel.	
334:6 - 334:10	Koch, Michael 01-11-2019 (00:00:15)	Koch.135
	334:6 Q. So let's turn to the first one, which I	
	334:7 believe is Number 24. This is the glyphosate rodent	KOCH24.1
	334:8 carcinogenicity bioassay expert panel review. Do you	KOCH24.1.1
	334:9 see that?	
	334:10 A. I do.	14 1 400
334:13 - 335:2	Koch, Michael 01-11-2019 (00:01:06)	Koch.136
	334:13 This is a paper	
	334:14 that reviews the long-term animal carcinogenicity	
	334:15 studies conducted on glyphosate; correct?	
	334:16 A. The paper that's the title and the	1/00/104 4 4
	334:17 contents. There's rat information on Table 1. There	KOCH24.4.1
	334:18 looks like there is mouse information in Table 2.	1/00/10/04
	334:19 Q. That's a lot of tables here.	KOCH24.6.1
	334:20 A. There's discussion of hemangiosarcomas in	K001104.7.4
	334:21 Table 3, liver tumor incidence in Table 4,	KOCH24.7.1
	334:22 hepatocellular tumor rates and Cochran-Armitage trend	KOCH24.8.1
	334:23 and Fisher's exact results in Table 5, and tumor	KOCH24.9.1
	334:24 incidence, number of animals examined in Table 6. So	KOCH24.9.2
	335:1 yes, I think it's fair to say it's a review of the carc	
005.0 005.00	335:2 data.	Vaab 107
335:3 - 335:22	Koch, Michael 01-11-2019 (00:01:00)	Koch.137
	335:3 Q. So just to do a short answer to the	clear
	335:4 question there, this paper appears to be a review of	
	335:5 the animal carcinogenicity data related to glyphosate?	
	335:6 A. Yes, it seems to be a review of all of the	
	335:7 available information.	KOCH24.11
	335:8 Q. And if you look at starting on Page 53,	KOCH24.11.1
	335:9 the top right of the article, there is something called	KOCH24.11.1
	335:10 a declaration of interest. Do you see that?	
	335:11 A. I do.	
	335:12 Q. And if you read the second paragraph of	
	335:13 that declaration of interest, it says the expert panel	
	335:14 members' recruitment and evaluation of the data was	
	335:15 organized and conducted by Intertek Scientific &	
	335:16 Regulatory Consultancy, Intertek. Do you see that?	
	335:17 A. I do.	KOCH24.11.2
	335:18 Q. The expert panelists were engaged by and	
	335:19 acted as consultants to Intertek and were not directly	

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	Koch-Koch, Michael 01-11-2019	
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		,
	335:20 contacted by the Monsanto Company. Do you see that?	
	335:21 A. I do see that.	
005.04 000.0	335:22 Q. That's a false statement; right?	Kash 120
335:24 - 336:2	Koch, Michael 01-11-2019 (00:00:04)	Koch.138
	335:24 A. I don't know.	
	336:1 Q. (By Mr. Wisner) You don't know?	
000.0 000.00	336:2 A. I don't know.	K 400
338:6 - 338:23	Koch, Michael 01-11-2019 (00:00:48)	Koch.139
	338:6 Q. So we're on Exhibit 24. We're looking at	
	338:7 the declaration of interest, and the second paragraph	
	338:8 reads the expert panel members' recruitment and	
	338:9 evaluation of the data was organized and conducted by	
	338:10 Intertek Scientific & Regulatory Consultancy, Intertek.	
	338:11 The expert panelists were engaged by and acted as	
	338:12 consultants to Intertek and were not directly contacted	
	338:13 by the Monsanto Company.	
	338:14 Funding for this evaluation was provided	KOCH24.11.3
	338:15 to Intertek by the Monsanto Company, which is a primary	
	338:16 producer of glyphosate and products containing this	
	338:17 active ingredient. Neither any Monsanto Company	
	338:18 employees nor any attorneys reviewed any of the expert	
	338:19 panel's manuscripts prior to submission to the journal.	
	338:20 Do you see that?	
	338:21 A. I do.	
	338:22 Q. Is it your understanding is that a true	
	338:23 statement are those statements in that paragraph?	
339:1 - 339:10	Koch, Michael 01-11-2019 (00:00:26)	Koch.140
	339:1 A. I can speak for myself, and I didn't	
	339:2 review or comment on any of the documents there, and I	
	339:3 don't know that anyone else did.	
	339:4 Q. (By Mr. Wisner) Do you know if any of the	
	339:5 panelists on the Intertek panel were directly	
	339:6 contracted with Monsanto at the time?	
	339:7 A. As we talked about earlier, I know there	
	339:8 were some consulting agreements for other projects. I	
	339:9 don't know how that relates to the membership on the	
	339:10 expert panel.	
339:17 - 340:4	Koch, Michael 01-11-2019 (00:00:37)	Koch.141
	339:17 Okay. I'm handing you Exhibit 28, sir. Do	KOCH28.1
	339:18 you recognize this document?	

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	Koch-Koch, Michael 01-11-2019	
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	339:19 A. It looks like a standard project amendment	
	339:20 letter from a consulting agreement.	KOCH28.1.1
	339:21 Q. And this is between Dr. Larry Kier and the	KOOH26.1.1
	339:22 Monsanto Company?	
	339:23 A. Yes.	KOCH28.2.1
	339:24 Q. And in fact, you signed this agreement, 340:1 haven't you?	11001120.2.1
	340:2 A. I did.	
	340:3 Q. And this was dated August 2015; correct?	KOCH28.1.2
	340:4 A. August two thou August 17, 2015, yes.	
340:16 - 341:19	Koch, Michael 01-11-2019 (00:01:30)	Koch.142
	340:16 Q. And in here it actually says specifically	
	340:17 project name, glyphosate expert panel; correct?	
	340:18 A. Item 2. Yes.	
	340:19 Q. Well, I was actually under the that's	
	340:20 correct. Under project it says name, glyphosate expert	
	340:21 panel. Do you see that?	
	340:22 A. Oh. Yes.	
	340:23 Q. And then under deliverables, Number 2 is	KOCH28.1.3
	340:24 to attend the Intertek Scientific & Regulatory	
	341:1 Consultancy expert panel meeting either in person or	
	341:2 via teleconference; right?	
	341:3 A. Yes.	K00110044
	341:4 Q. And the project contemplates payment not	KOCH28.1.4
	341:5 to exceed \$27,400; correct?	
	341:6 A. I don't twenty total project cost,	
	341:7 \$27,400, yes. 341:8 Q. So in fact, Monsanto had contracted to	
	341:9 potentially pay Dr. Kier \$27,000 specifically for his	
	341:10 work on the Intertek panel?	
	341:11 A. When I mentioned previously that I was	
	341:12 unsure of what was handled directly through the	
	341:13 Intertek panel payment-wise and what was handled by	
	341:14 amendment to existing agreements, that's what I was	
	341:15 referring to.	
	341:16 Q. So when we read in the Intertek panel	clear
	341:17 where it said all the panelists were directly contacted	
	341:18 through Intertek and not through Monsanto, that's just	
	341:19 not accurate?	
341:22 - 342:3	Koch, Michael 01-11-2019 (00:00:14)	Koch.143

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	Koch-Koch, Michael 01-11-2019	
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		· ·
	341:22 A. With the writing of the paper I don't know	
	341:23 who reached out to them. We I did sign a project	
	341:24 amendment letter at that time, but I had no	
	342:1 communication with Dr. Kier other than that.	
	342:2 Q. (By Mr. Wisner) I'm going to hand you	
	342:3 Exhibit 29.	KOCH29.1
342:6 - 343:15	Koch, Michael 01-11-2019 (00:01:40)	Koch.144
	342:6 Q. Sir, do you recognize this document?	K00110044
	342:7 A. Looks like an amendment to a consulting	KOCH29.1.1
	342:8 agreement, yes.	
	342:9 Q. And this is a consulting agreement with	
	342:10 Dr. Acquavella and Monsanto; correct?	
	342:11 A. Yes.	
	342:12 Q. It's signed by you?	
	342:13 A. It is.	V001100 F 4
	342:14 Q. And if you look at the last page of it,	KOCH29.5.1
	342:15 there's a statement of work?	
	342:16 A. Statement of work.	
	342:17 Q. Last page. Keep going. Do you see that?	
	342:18 A. Yes.	
	342:19 Q. And again, like with Dr. Kier, it	
	342:20 specifically states the project name, glyphosate expert	
	342:21 panel. Do you see that?	
	342:22 A. It does.	W001100 F 0
	342:23 Q. And it also says attend under detailed	KOCH29.5.2
	342:24 objectives, Number 2, attend the Intertek Scientific &	
	343:1 Regulatory Consultancy expert panel meeting. Do you	
	343:2 see that?	
	343:3 A. I do.	K001100 5 0
	343:4 Q. And it says Number 3, coordinate the	KOCH29.5.3
	343:5 epidemiology portion of Intertek and generate a draft	
	343:6 manuscript on glyphosate exposure and risk; right?	
	343:7 A. Coordinate the epide yes.	V 0 0 1 10 0 T 4
	343:8 Q. And this was it looks like Dr.	KOCH29.5.4
	343:9 Acquavella was slightly less expensive. This project	
	343:10 with Dr. Acquavella was not to exceed \$24,000; correct?	
	343:11 A. That's what's written.	KOOLIOO C 4
	343:12 Q. And you signed this document?	KOCH29.6.1
	343:13 A. I did.	
	343:14 Q. And Dr. Acquavella and Dr. Kier are both	

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Koch-Koch, Michael 01-11-2019		
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	343:15 authors on these Intertek manuscripts; correct?	
343:16 - 343:16	Koch, Michael 01-11-2019 (00:00:04)	Koch.145
	343:16 A. Kier. Acquavella. Yes.	
343:22 - 345:1	Koch, Michael 01-11-2019 (00:01:12)	Koch.146
	343:22 Are you	
	343:23 aware if the journal has taken any action since its	clear
	343:24 publication to address concerns about their	
	344:1 disclosures?	
	344:2 A. I heard some hallway talk that there was	
	344:3 something being done with the authors of the papers,	
	344:4 but I did not hear any specifics, no.	
	344:5 Q. You mind telling me what that hallway talk	
	344:6 was to the best of your recollection?	
	344:7 A. Just that the authors were being contacted	
	344:8 about some that the editor wanted more information.	
	344:9 Q. I'm handing you a document giving you	KOCH30.1
	344:10 mine. That's fine. I'm handing you a document,	KOCH30.1
	344:11 Exhibit 30 to your deposition.	
	344:12 [Exhibit 30 marked for identification.]	KOCH30.1.1
	344:13 Q. This is as you can see, this is from	KOONSO.1.1
	344:14 the Critical Reviews in Toxicology. Do you see that?	
	344:15 A. Yes.	
	344:16 Q. And it's titled expression of concern;	
	344:17 right? 344:18 A. Yes.	
		KOCH30.2
	344:19 Q. And if you turn the page it actually it 344:20 says expression of concern regarding Critical Reviews	KOCH30.2.1
	344:21 in Toxicology, An Independent Review of the	
	344:22 Carcinogenic Potential of Glyphosate. Do you see that?	
	344:23 A. I do.	
	344:24 Q. This is referring to the Intertek	
	345:1 manuscript publication?	
345:2 - 345:12	Koch, Michael 01-11-2019 (00:00:23)	Koch.147
	345:2 A. I'm trying to link up what's here with the	
	345:3 paper, so	
	345:4 Q. Sure. I'll do it with you.	
	345:5 A. Okay.	
	345:6 Q. So it reads we, the editor in chief and	KOCH30.2.2
	345:7 publisher of the journal, have been informed of	
	345:8 concerns over the completeness of acknowledged	
	•	

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	Koch-Koch, Michael 01-11-2019	
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	345:9 contributions to the above supplement and in the	
	345:10 declarations of interest provided by the named	
	345:11 contributors for the following articles. You see that?	
	345:12 A. Yes.	
345:22 - 347:4	Koch, Michael 01-11-2019 (00:01:29)	Koch.148
	345:22 Q. And it goes on and says we have requested	KOCH30.2.3
	345:23 corrigenda from the authors to provide additional	
	345:24 disclosure as to the contributions to the articles. To	
	346:1 date, we have only received corrigenda for three of the	
	346:2 five articles that have been agreed by all authors. We	
	346:3 have not received an adequate explanation as to why the	
	346:4 necessary level of transparency was not met on the	
	346:5 first submission. We thank those who brought this	
	346:6 matter to our attention. When reading the articles, we	
	346:7 recommend that readers take this context into account.	
	346:8 We will continue to work to update these articles and	
	346:9 ensure full disclosures of all contributions to them.	
	346:10 Do you see that?	
	346:11 A. I see that.	
	346:12 Q. In your time as a researcher and scientist	
	346:13 at Monsanto, have you ever seen an expression of	clear
	346:14 concern issued before?	
	346:15 A. I've seen addenda for articles,	
	346:16 corrigenda, things like that.	
	346:17 Q. Have you ever seen a journal article issue	
	346:18 an expression of concern over the disclosure	
	346:19 statements?	
	346:20 A. I have not.	
	346:21 Q. And so this journal article did issue one	
	346:22 specifically about the articles put out by the Intertek	
	346:23 panel?	
	346:24 A. These appear to be those articles.	
	347:1 Q. And for what it's worth, this is the very	KOCH21.4.8
	347:2 weight of evidence plausibility-type paper that Bill	
	347:3 Heydens talked about ghostwriting back in 2015; isn't	
047.0 0:- :-	347:4 that true?	
347:6 - 347:12	Koch, Michael 01-11-2019 (00:00:20)	Koch.149
	347:6 A. I have no way of knowing what was	clear
	347:7 published here how similar or different it is from	
	347:8 what Bill might have been thinking about.	

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	Koch-Koch, Michael 01-11-2019	
Page/Line	Source	ID
	047-0 O (Dy Mr. Wiener) But when we telled about	
	347:10 those a mails from Dr. Haydone we talked about	
	347:10 those e-mails from Dr. Heydens, we talked about how	
	347:11 this potentially was the genesis of what ultimately	
347:15 - 348:2	347:12 became the Intertek panel; correct?	Koch.150
047.10 - 040.2	Koch, Michael 01-11-2019 (00:00:39)	Room. 100
	347:15 A. There was a theme of doing an overall	
	347:16 review of the dataset that IARC looked at, but the	
	347:17 relationship between that and this is impossible to	
	347:18 determine based on the information in front of me.	
	347:19 Q. (By Mr. Wisner) And in that e-mail from	
	347:20 Dr. Heydens he talks about he literally talks about	
	347:21 ghostwriting; right?	
	347:22 A. That phrase is included in there. I took	
	347:23 that to mean a range of things.	
	347:24 Q. And if we well, I mean, it's	
	348:1 interesting because well, let's just go on. I'm	KOCH31.1
348:9 - 348:14	348:2 handing you Exhibits 31.	Koch.151
040.9 - 040.14	Koch, Michael 01-11-2019 (00:00:16)	KOCH31.1.1
	348:9 Q. Are you looking at 31, sir?	ROOHUI.I.I
	348:10 A. I am now.	KOCH31.2.3
	348:11 Q. And that one is authored it was a	ROOH01.2.0
	348:12 corrigendum authored by the authors of the Acquavella	
	348:13 article?	
349:6 - 349:19	348:14 A. Yes.	Koch.152
049.0 - 049.19	Koch, Michael 01-11-2019 (00:00:42)	10011.102
	349:6 Q. And this is the same Dr. Acquavella that	
	349:7 had actually engaged in a contractual relationship with	
	349:8 Monsanto for \$24,000 to participate in an Intertek	
	349:9 panel?	
	349:10 A. As part of an extension of a consulting	
	349:11 agreement, yes.	KOCH31.2.1
	349:12 Q. And if we look through the declaration of	1001101.2.1
	349:13 interest I don't really want to read the whole	
	349:14 thing. It is it's particularly long and it	
	349:15 discusses all sorts of various interests that these	
	349:16 authors had with corporations like Beyer CropScience	
	349:17 Holding, Inc., Dow AgroSciences, Syngenta. Do you see	
	349:18 that?	
351:22 - 352:15	349:19 A. Yes. Koob, Michael 01-11-2019 (00:00:56)	Koch.153
301.22 002.10	Koch, Michael 01-11-2019 (00:00:56)	

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		Koch-Koch, Michael 01-11-2019	
_	Page/Line	Source	ID
		351:22 Q. And at the very bottom of the corrigendum,	KOCH21 2 2
		351:23 it reads the authors apologize for these errors. Do	KOCH31.2.2
		351:24 you see that?	
		352:1 A. I do.	
		352:2 Q. And if you look at the other corrigendums	
		352:3 that I've given you, in each one of them it concludes	
		352:4 with the authors apologizing for these errors. Do you	
		352:5 see that?	
		352:6 A. Give me one moment. I'm just trying to	
		352:7 make sure I've got all the relevant information in	
		352:8 front of me. 31 through 33?	
		352:9 Q. That's right. And so if you look at	
		352:10 all the last sentence in all the corrigendums, the	
		352:11 authors apologize for these errors. Do you see that?	
		352:12 A. I do.	clear
		352:13 Q. And I guess my question for you, Doctor,	Clear
		352:14 is, are you aware if Monsanto has issued any apologies	
	352:18 - 352:18	352:15 for its role in causing any of these errors?	Koch.154
	302.10 - 302.10	Koch, Michael 01-11-2019 (00:00:00)	Kocii. 104
	357:11 - 357:18	352:18 A. I'm not aware.	Koch.155
	307.11 - 307.10	Koch, Michael 01-11-2019 (00:00:15)	Kocii. 155
		357:11 Q. Let's start with your background. Where	
		357:12 do you live now?	
		357:13 A. I live in the suburbs of St. Louis.	
		357:14 Q. And how long have you lived there?	
		357:15 A. I've lived there for about ten years.	
		357:16 Q. Are you married?	
		357:17 A. I am married and I have two children and	
	358:9 - 363:15	357:18 two dogs.	Koch.156
	330.9 - 303.13	Koch, Michael 01-11-2019 (00:07:01)	Koon. 100
		358:9 Q. Let's talk a little bit about your	
		358:10 education. Where did you get your undergraduate	
		358:11 degree?	
		358:12 A. I did I have a bachelor's in science	
		358:13 and biology from Maryville University in St. Louis.	
		358:14 Q. And where did you get your PhD?	
		358:15 A. From the University of Iowa.	
		358:16 Q. After you got done working at earning	
		358:17 your PhD, where'd you first work?	
		358:18 A. My first role was at WIL Research in	

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358:19 Ashland, Ohio -- it's not part of the Charles River

358:20 system of labs, but they're still located in Ashland --

358:21 doing regulatory toxicology studies in mice, rats,

358:22 guinea pigs, dogs, nonhuman primate -- nonhuman

358:23 primates.

358:24 Q. Did any of your work there have anything

359:1 to do with glyphosate?

359:2 A. It did not.

359:3 Q. What kind of regulatory -- when you say

359:4 regulatory toxicology, what is that?

359:5 A. Regulatory toxicology is a field of

359:6 toxicology that generates data according to

359:7 international guidelines, and we've mentioned the OECD

359:8 test guidelines previously, and those are

359:9 internationally agreed-upon guidelines of how to

359:10 conduct a certain type of study, whether it's a

359:11 carcinogenicity study, a genotoxicity study, an acute

359:12 oral toxicity study. All those types of studies and

359:13 more have international guidelines on how to conduct a

359:14 study.

359:15 Q. What's the benefit of using OECD standards

359:16 for your regulatory toxicology?

359:17 A. So the endpoints in OECD studies are known

359:18 to be accurate predictors of toxicity, whereas

359:19 investigative science, they may have -- they may detect

359:20 a difference, but its relevance to toxicity is unknown.

359:21 Q. Does -- do regulatory bodies accept

359:22 toxicology that doesn't comply with international

359:23 standards?

359:24 A. No, the test guidelines are international

360:1 standards and then there are typically national

360:2 standards to which they're harmonized. For example,

360:3 the EPA expects that studies be conducted in accordance

360:4 with OECD test guidelines and also any guidance that

360:5 they have issued as well on that type of study.

360:6 Q. And in your practice both at Monsanto and

360:7 before, have you made an effort to adhere to good lab

360:8 practices and international lab guidelines?

360:9 A. Yeah, the good lab practices are sort of a

360:10 cook book for how to make a study reproducible. They

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360:11 ensure that accurate records are kept on what was done,

360:12 and should the study need to be repeated, you would

360:13 know exactly how to do it. The OECD test guidelines

360:14 likewise ensure quality by making minimal suggestions

360:15 of animal number and the endpoints to include.

360:16 Q. Are those both good lab practices and

360:17 international study guidelines -- are those things that

360:18 you've endeavored to abide by when you've conducted or

360:19 overseen research?

360:20 A. Yes.

360:21 Q. Let's get back to your work history. What

360:22 did you do after working for WIL Labs?

360:23 A. I took a job with Seventh Wave Labs, where

360:24 we did short-term toxicity studies and some work with

361:1 pharmacokinetics. That was typically done in rats.

361:2 Q. How long did you stay at Seventh Wave?

361:3 A. I -- so Seven -- I should also mention

361:4 that Seventh Wave -- that's where I sort of first

361:5 became involved in people management. I started

361:6 leading the animal tech group as well as some of the

361:7 adjacent study directors, and so that was sort of my

361:8 first experience with oversight, and I stayed there

361:9 from February of 2018 until -- I'm sorry -- February of

361:10 2008 until June of 2010.

361:11 Q. And in June of 2010, is that when you were

361:12 recruited to Monsanto to participate in their Emerging

361:13 Leaders Program?

361:14 A. The recruitment process for the Emerging

361:15 Leaders in Science Program I started a little bit

361:16 before June, and I think I accepted a position sometime

361:17 in that June timeframe with the understanding that I

361:18 would start in July, as indicated on my CV.

361:19 Q. Was the Emerging Leaders Program in your

361:20 view an honor to participate in?

361:21 A. It was a select group of individuals

361:22 selected for technical backgrounds but also leadership

361:23 potential, and so I don't ever know what those criteria

361:24 were, but apparently I possess them, and they asked me

362:1 to join. I had a good experience with it. I got to

362:2 rotate through three adjacent groups internally and

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Page/Line ID Source 362:3 learn a little bit more about what each did, and I 362:4 think that's benefited me in the long term. 362:5 Q. After you were done with the Emerging 362:6 Leaders Program, you started working as -- in the 362:7 toxicology department of Monsanto? 362:8 A. Yes. So my first position once I came out 362:9 of the Emerging Leaders in Science Program was the new 362:10 technologies in toxicology lead, and that was related 362:11 to our biotech products. So different varieties, GM 362:12 varieties of corn or sov or cotton or canola, as well 362:13 as the traits that were added to those products. 362:14 demonstrating the safety of the trait and the grain or 362:15 other commodity from the crop as well. 362:16 Q. So at that point your work at Monsanto was 362:17 directed toward crops, not toward pesticides? 362:18 A. Yes, it was strict -- there was sort of a 362:19 strict line between the two disciplines, and I was 362:20 working solely on the biotech side at that point. 362:21 Q. Did you stay in that position for about 362:22 two years? 362:23 A. Yes. I was in that position until I 362:24 became the Toxicology and Nutrition Center lead in the 363:1 summer of 2014. 363:2 Q. In 2014, when you became the Toxicology 363:3 and Nutrition Center lead, how did that change your 363:4 responsibilities? 363:5 A. Was more oversight of individuals, a 363:6 larger team to work with them on both business and 363:7 development goals. Monsanto places an unusual 363:8 emphasis, at least for the different places I've 363:9 worked, on developing people and things they're good 363:10 at, and so that was a big emphasis in my leadership 363:11 roles of developing people. 363:12 Q. Was that the first time that you had 363:13 glyphosate as part of your responsibilities and 363:14 portfolio? 363:15 A. Yes. it was. Koch.157 364:5 - 364:9 Koch, Michael 01-11-2019 (00:00:13) 364:5 Q. Was it part of your responsibilities to 364:6 ensure that any products Monsanto was pushing to -- was

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	004 7 marries for morand with development on your could be		
	364:7 moving forward with development on were could be		
	364:8 used safely?		
364:10 - 365:1	364:9 A. Yes.	Koch.158	
004.10 - 000.1	Koch, Michael 01-11-2019 (00:00:52)	Noon: 100	
	364:10 Q. Did you stay in the Toxicology and		
	364:11 Nutrition Center through November of 2015?		
	364:12 A. Yeah. In November of 2015 we added a		
	364:13 team was added to the teams that comprise the		
	364:14 Toxicology and Nutrition Center to re-create what had		
	364:15 been called the Product Safety Center. That brought		
	364:16 the people reporting to me up to about 12 or 13. We're		
	364:17 at I think we're at 11 employees right now with two		
	364:18 open roles, so I think we were right at 13 when the		
	364:19 Product Safety Center was re-created.		
	364:20 So I had oversight of the biotech tox, the		
	364:21 small molecule tox, and the compositional biology.		
	364:22 Compositional biology is something a lot of people		
	364:23 aren't familiar with, but it looks at nutritional		
	364:24 endpoints in GM and non-GM crops to determine if they		
065.0 065.44	365:1 have similar nutritional profiles.	Koch.159	
365:8 - 365:14	Koch, Michael 01-11-2019 (00:00:12)	KOCH. 159	
	365:8 Q. And you've stayed in that position till		
	365:9 the present day?		
	365:10 A. That's correct.		
	365:11 Q. So is that approximately eight years at		
	365:12 Monsanto?		
	365:13 A. Yes, it will be nine this July. Well, now		
070-5 074-0	365:14 that Bayer owns Monsanto, so	K 400	
372:5 - 374:9	Koch, Michael 01-11-2019 (00:03:00)	Koch.160	
	372:5 Q. We talked some about the body named IARC?		
	372:6 A. Yes.		
	372:7 Q. And you were involved in Monsanto's		
	372:8 becoming aware that IARC was going to look at		
	372:9 glyphosate and then responding once IARC had evaluated		
	372:10 glyphosate?		
	372:11 A. That's correct.		
	372:12 Q. Was part of what you did in your job to		
	372:13 understand how IARC was going to review glyphosate?		
	372:14 A. We had some conversations about the review		
	372:15 and the fact that it would be based on publicly		

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- 372:16 available literature.
- 372:17 Q. And I believe you mentioned a number of
- 372:18 times during your testimony that there was another body
- 372:19 of knowledge, the regulatory data, that accompanies
- 372:20 products like glyphosate that are heavily regulated.
- 372:21 Is that right?
- 372:22 A. Yes, that's correct. I made reference to
- 372:23 the regulatory dataset for glyphosate because it's an
- 372:24 unusually large dataset. It has both the Monsanto
- 373:1 safety data as well as safety data from other
- 373:2 registrants of glyphosate. Since glyphosate went off
- 373:3 patent, many other chemical manufacturers have begun
- 373:4 manufacturing glyphosate as well, and they've generated
- 373:5 safety data in addition to what Monsanto has, so it has
- 373:6 a larger safety dataset than usual.
- 373:7 Q. What kind of data is in the regulatory
- 373:8 safety data?
- 373:9 A. So there's an extensive toxicology
- 373:10 database. There's acute, there's repeat dose, there's
- 373:11 developmental and reproductive toxicology, there's
- 373:12 genotoxicity, there's carcinogenicity, and quite a few
- 373:13 other studies. In addition to human safety studies,
- 373:14 there's ecotox studies, residue studies, and just a
- 373:15 considerable amount of data.
- 373:16 Q. And that's all generated for each
- 373:17 registrant that wants to be allowed to make glyphosate?
- 373:18 A. So now that the joint -- the glyphosate
- 373:19 task force has been formed they're sharing data, but
- 373:20 that is a pool of data from which members can pull
- 373:21 from.
- 373:22 Q. Do you know when Monsanto first pulled
- 373:23 together a package of all of this information and
- 373:24 provided it to a regulatory body?
- 374:1 A. I don't.
- 374:2 Q. But glyphosate was first approved sometime
- 374:3 in 1975; is that right?
- 374:4 A. Yeah, I know that glyphosate was
- 374:5 originally approved by regulatory authorities in the
- 374:6 1970s and has been reapproved since then, in the U.S.,
- 374:7 in Canada, in Europe, in Japan, and Australia. So it's

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	374:8 been successfully registered and reregistered around	
	374:9 the world based on the regulatory dataset.	
374:20 - 375:23	Koch, Michael 01-11-2019 (00:01:18)	Koch.161
	374:20 Q. Do and then you said it's been	
	374:21 reregistered a number of times glyphosate?	
	374:22 A. Yes.	
	374:23 Q. Does when glyphosate is reregistered,	
	374:24 does that require supplementing the regulatory database	
	375:1 that's provided to the regulators?	
	375:2 A. When new data requirements evolve, we have	
	375:3 to meet those data requirements, and so over time	
	375:4 additional data has been generated as regulatory	
	375:5 requirements have been put in place.	
	375:6 Q. If am I right that the regulatory data	
	375:7 package needs to be submitted before a product is	
	375:8 approved by the EPA?	
	375:9 A. Yes. Regulatory agencies expect to review	
	375:10 the data. It takes us a couple years, maybe three,	
	375:11 four years to typically generate a full dataset based	
	375:12 on the timing of the studies and how they need to be	
	375:13 run sequentially, and then the EPA conducts their	
	375:14 review, which can take another two to three years.	
	375:15 Q. And so that would have happened at least	
	375:16 for the first time before 1975, for glyphosate?	
	375:17 A. If the first approval was in 1975, I would	
	375:18 imagine it was submitted well before that, but I don't	
	375:19 know for a fact.	
	375:20 Q. Yeah. I mean, obviously you weren't there	
	375:21 at the time, but you know that to get approval you have	
	375:22 to submit this information?	
	375:23 A. Yes.	W 1 400
385:13 - 385:13	Koch, Michael 01-11-2019 (00:00:02)	Koch.162
	385:13 What's a six-pack in toxicological terms?	W 1 400
385:15 - 386:6	Koch, Michael 01-11-2019 (00:00:48)	Koch.163
	385:15 A. A six-pack is shorthand for a group of	
	385:16 studies. Those are acute oral studies, acute dermal	
	385:17 studies, acute inhalation studies, eye irritation, skin	
	385:18 irritation, and skin sensitization.	
	385:19 Q. (By Mr. Brenza) With respect to	
	385:20 glyphosate, when are those six-pack studies done?	

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	385:21 A. For any chemical typically you're doing	
	385:22 your single-dose work early in the process. Those	
	385:23 studies are also conducted for formulation.	
	385:24 Q. And when you say formulations, that's the	
	386:1 chemical mixture of glyphosate and something else that	
	386:2 is sold as Roundup?	
	386:3 A. That's correct.	
	386:4 Q. So those tests do apply to formulated	
	386:5 product?	
	386:6 A. That is correct.	
386:10 - 387:13	Koch, Michael 01-11-2019 (00:01:10)	Koch.164
	386:10 Q. Can you just refresh me on what you	
	386:11 understand synergy to be between two chemicals?	
	386:12 A. When there's a potential for synergy I	
	386:13 typically think of two chemicals who have a similar	
	386:14 mode of action, so if they're present together they	
	386:15 might have a greater than additive effect on whatever	
	386:16 system they act on.	
	386:17 Q. And when you say mode of action, what does	
	386:18 that mean?	
	386:19 A. How it works. For example, glyphosate	
	386:20 inhibits the enzyme EPSPS in plants.	
	386:21 Q. EPSPS?	
	386:22 A. Yes.	
	386:23 Q. And that's an enzyme that plants use to	
	386:24 make amino acids?	
	387:1 A. It is.	
	387:2 Q. What's the other primary constituent of	
	387:3 Roundup besides glyphosate?	
	387:4 A. There's water, there are dyes, and there	
	387:5 are surfactants as well.	
	387:6 Q. How does a surfactant what's the mode	
	387:7 of action of a surfactant?	
	387:8 A. Surfactants aid in dispersal of the 387:9 herbicide across the leaf.	
	387:10 Q. Is that the same mode of action as	
	387:11 glyphosate?	
	387:12 A. It's not. Glyphosate specifically	
	387:13 inhibits EPSPS.	
	357.15 Hilliotto El Gr G.	

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