



BECOME A PLUS MEMBER FOR MORE:
THEHIGHERSIDECHATS.COM

1
00:00:04,039 --> 00:00:02,300
embrace yourself because you're about to

2
00:00:06,230 --> 00:00:04,049
dive into another free first hour

3
00:00:07,400 --> 00:00:06,240
episode of the higher side chats and we

4
00:00:08,810 --> 00:00:07,410
just want to let you know that whether

5
00:00:10,790 --> 00:00:08,820
you're looking for a companion through

6
00:00:12,410 --> 00:00:10,800
your paranoid insomnia entertaining

7
00:00:14,390 --> 00:00:12,420
yourself through one of life's mundane

8
00:00:16,099 --> 00:00:14,400
activities or trying to ward off the

9
00:00:18,710 --> 00:00:16,109
internal scream to all those sad

10
00:00:20,480 --> 00:00:18,720
smothered Souls around the office THC is

11
00:00:22,130 --> 00:00:20,490
here and you should know that every

12
00:00:24,170 --> 00:00:22,140
episode of the higher side chats has an

13
00:00:26,540 --> 00:00:24,180

entire second hour four plus members

14

00:00:29,029 --> 00:00:26,550

sign up at the higher side chats plus

15

00:00:31,609 --> 00:00:29,039

calm and you get years of plus show

16

00:00:33,020 --> 00:00:31,619

archives lifetime forum access the

17

00:00:36,410 --> 00:00:33,030

special invite to Greg Carl woods

18

00:00:39,860 --> 00:00:36,420

monthly joint sessions mp3s of THC music

19

00:00:42,020 --> 00:00:39,870

and bonus episodes for videos and 10%

20

00:00:44,090 --> 00:00:42,030

off t-shirts grinders and whatever else

21

00:00:45,440 --> 00:00:44,100

ends up in the higher side store it's

22

00:00:47,779 --> 00:00:45,450

eight dollars a month that you won't

23

00:00:49,729 --> 00:00:47,789

miss so become a plus member and treat

24

00:00:52,130 --> 00:00:49,739

yourself in these troubled times always

25

00:00:53,930 --> 00:00:52,140

action-packed and commercial free which

26
00:01:31,880 --> 00:00:53,940
means you'll unfortunately never hear my

27
00:01:33,770 --> 00:01:31,890
voice here we go again higher side

28
00:01:35,899 --> 00:01:33,780
shatters how the hell are you from sunny

29
00:01:37,850 --> 00:01:35,909
San Diego i'm greg carl wood and we're

30
00:01:39,649 --> 00:01:37,860
all well aware that we're born into a

31
00:01:41,330 --> 00:01:39,659
world where corporate behemoths through

32
00:01:43,789 --> 00:01:41,340
the land and whether we're talking about

33
00:01:46,550 --> 00:01:43,799
food medicine media or really any other

34
00:01:48,469 --> 00:01:46,560
crucial industry you can find a handful

35
00:01:50,719 --> 00:01:48,479
of companies steering their respective

36
00:01:53,389 --> 00:01:50,729
sectors towards private profit in a way

37
00:01:55,550 --> 00:01:53,399
from public good typically we see a

38
00:01:57,440 --> 00:01:55,560

shocking amount of regulatory capture

39

00:01:59,510 --> 00:01:57,450

and the government agencies set up to

40

00:02:01,730 --> 00:01:59,520

police them a revolving door of

41

00:02:03,800 --> 00:02:01,740

corporate loyalists moving into watchdog

42

00:02:05,300 --> 00:02:03,810

positions only to take the teeth out of

43

00:02:07,910 --> 00:02:05,310

them and clear a path for their true

44

00:02:10,130 --> 00:02:07,920

masters a slashing of crucial

45

00:02:11,900 --> 00:02:10,140

regulations and even a suppression of

46

00:02:13,580 --> 00:02:11,910

scientific testing that might show

47

00:02:15,770 --> 00:02:13,590

concerning results if

48

00:02:17,869 --> 00:02:15,780

they do the testing at all it's a

49

00:02:20,030 --> 00:02:17,879

template we can apply many places but

50

00:02:21,890 --> 00:02:20,040

few are as impactful or as

51
00:02:24,800 --> 00:02:21,900
world-changing as the introduction of

52
00:02:26,509 --> 00:02:24,810
genetically engineered agriculture as if

53
00:02:28,339 --> 00:02:26,519
taken a page right out of the tobacco

54
00:02:30,559 --> 00:02:28,349
industry playbook the billion-dollar

55
00:02:33,530 --> 00:02:30,569
players responsible have invested

56
00:02:35,570 --> 00:02:33,540
heavily and lobbyists positive PR and

57
00:02:37,910 --> 00:02:35,580
media mouthpieces to convince you there

58
00:02:39,619 --> 00:02:37,920
is nothing to see here but one thing

59
00:02:42,470 --> 00:02:39,629
they don't have is the support of

60
00:02:44,839 --> 00:02:42,480
today's amazing guest Stephen M Druker a

61
00:02:46,940 --> 00:02:44,849
true champion of the people Stephen Drew

62
00:02:49,190 --> 00:02:46,950
Kerr is a public interest attorney who

63
00:02:52,190 --> 00:02:49,200

founded the Alliance for bio integrity

64

00:02:54,530 --> 00:02:52,200

and initiated a lawsuit in 1998 that

65

00:02:56,809 --> 00:02:54,540

forced the FDA to divulge its internal

66

00:02:59,449 --> 00:02:56,819

files on genetically engineered foods a

67

00:03:01,910 --> 00:02:59,459

telling trove of over forty thousand

68

00:03:04,280 --> 00:03:01,920

pages of memos studies and most

69

00:03:06,470 --> 00:03:04,290

importantly warnings and concerns from

70

00:03:09,170 --> 00:03:06,480

FDA scientists that were ignored and

71

00:03:10,910 --> 00:03:09,180

suppressed by their superiors while the

72

00:03:12,860 --> 00:03:10,920

contents of these freshly available

73

00:03:15,559 --> 00:03:12,870

documents became the basis for his

74

00:03:17,569 --> 00:03:15,569

crucial book altered genes twisted truth

75

00:03:20,509 --> 00:03:17,579

how the venture to genetically engineer

76

00:03:22,610 --> 00:03:20,519

our food has subverted science corrupted

77

00:03:25,460 --> 00:03:22,620

government and systematically deceived

78

00:03:27,979 --> 00:03:25,470

the public a startling expose of an

79

00:03:30,500 --> 00:03:27,989

enormous fraud in fact quite possibly

80

00:03:31,780 --> 00:03:30,510

the biggest and most damaging scientific

81

00:03:34,099 --> 00:03:31,790

fraud in history

82

00:03:36,440 --> 00:03:34,109

Stephen is also now a prominent

83

00:03:39,259 --> 00:03:36,450

commentator on the risks and regulatory

84

00:03:41,180 --> 00:03:39,269

issues of GE foods and has served on the

85

00:03:42,890 --> 00:03:41,190

food safety panels at conferences

86

00:03:44,569 --> 00:03:42,900

conducted by the National Research

87

00:03:46,879 --> 00:03:44,579

Council and the Food and Drug

88

00:03:48,890 --> 00:03:46,889

Administration he has been invited to

89

00:03:50,479 --> 00:03:48,900

speak at many universities and has met

90

00:03:52,460 --> 00:03:50,489

with government officials worldwide

91

00:03:54,680 --> 00:03:52,470

including the United Kingdom's

92

00:03:56,839 --> 00:03:54,690

environmental Minister Canada's health

93

00:03:59,390 --> 00:03:56,849

minister and the heads of food safety

94

00:04:02,930 --> 00:03:59,400

for the UK France Ireland and Australia

95

00:04:05,330 --> 00:04:02,940

and in 2017 he also received a

96

00:04:07,759 --> 00:04:05,340

Luxembourg Peace Prize for outstanding

97

00:04:09,319 --> 00:04:07,769

work on behalf of the environment so

98

00:04:11,629 --> 00:04:09,329

let's break it down the activist

99

00:04:13,670 --> 00:04:11,639

attorney and the twisted truth revealer

100

00:04:17,000 --> 00:04:13,680

himself Stephen welcome to the higher

101
00:04:18,409 --> 00:04:17,010
side Thank You Greg and thank you for

102
00:04:20,839 --> 00:04:18,419
that nice introduction

103
00:04:25,610 --> 00:04:20,849
it's a pleasure to be talking with you

104
00:04:26,870 --> 00:04:25,620
in this fireside chat thank you and this

105
00:04:29,720 --> 00:04:26,880
is a true honor for me

106
00:04:31,550 --> 00:04:29,730
book is required reading for anyone who

107
00:04:34,730 --> 00:04:31,560
really wants to get to the heart of this

108
00:04:37,370 --> 00:04:34,740
GMO issue and it's just covered in an

109
00:04:39,770 --> 00:04:37,380
avalanche of praise from doctors and

110
00:04:43,070 --> 00:04:39,780
biochemistry professors geneticists

111
00:04:44,600 --> 00:04:43,080
engineers and even Jane Goodall who all

112
00:04:47,180 --> 00:04:44,610
pretty much say the same thing

113
00:04:50,810 --> 00:04:47,190

meticulously documented irrefutable

114

00:04:53,600 --> 00:04:50,820

evidence clear and ironclad logic it

115

00:04:55,550 --> 00:04:53,610

really is impressive and I figured we

116

00:04:58,100 --> 00:04:55,560

could kick this off with a little more

117

00:05:00,650 --> 00:04:58,110

context for that journey your

118

00:05:03,770 --> 00:05:00,660

introduction to the book is entitled how

119

00:05:05,360 --> 00:05:03,780

I reluctantly became an activist can you

120

00:05:08,030 --> 00:05:05,370

tell us a little bit about the path that

121

00:05:11,780 --> 00:05:08,040

led to this lawsuit and ultimately these

122

00:05:15,110 --> 00:05:11,790

documents being released well as the

123

00:05:18,470 --> 00:05:15,120

title stated it was with reluctance that

124

00:05:21,800 --> 00:05:18,480

I actually got into this whole issue as

125

00:05:24,800 --> 00:05:21,810

an activist I became concerned basically

126

00:05:30,470 --> 00:05:24,810

as the as the introduction explains in

127

00:05:32,870 --> 00:05:30,480

early 1996 I began doing something that

128

00:05:35,450 --> 00:05:32,880

unfortunately not enough Americans or

129

00:05:37,430 --> 00:05:35,460

people anywhere were doing and I began

130

00:05:40,220 --> 00:05:37,440

to learn the facts about this massive

131

00:05:42,980 --> 00:05:40,230

venture to reconfigure the genetic core

132

00:05:45,500 --> 00:05:42,990

of the world's food supply and I had

133

00:05:47,930 --> 00:05:45,510

been concerned for many years with food

134

00:05:52,160 --> 00:05:47,940

safety issues and I thought I was pretty

135

00:05:55,940 --> 00:05:52,170

up on them but I was somewhat blindsided

136

00:05:58,790 --> 00:05:55,950

by the the state of thee of this massive

137

00:06:03,010 --> 00:05:58,800

venture the massive Ag biotech venture

138

00:06:06,230 --> 00:06:03,020

at that point because I had no idea that

139

00:06:10,070 --> 00:06:06,240

there were plans underway and in fact

140

00:06:13,790 --> 00:06:10,080

crops in the pipeline about ready to be

141

00:06:17,240 --> 00:06:13,800

released with genetically engineered DNA

142

00:06:21,230 --> 00:06:17,250

and I wanted to know more about what was

143

00:06:22,910 --> 00:06:21,240

happening and as the introduction states

144

00:06:26,840 --> 00:06:22,920

the more I learned the more I became

145

00:06:29,480 --> 00:06:26,850

concerned and it did become quickly

146

00:06:33,020 --> 00:06:29,490

rather quickly apparent that there was a

147

00:06:35,360 --> 00:06:33,030

major gap between the claims that were

148

00:06:37,580 --> 00:06:35,370

being made by the proponents of genetic

149

00:06:43,879 --> 00:06:37,590

engineered foods and the facts

150

00:06:47,840 --> 00:06:43,889

themselves and I eventually realized

151
00:06:49,790 --> 00:06:47,850
that one thing that that I thought could

152
00:06:52,610 --> 00:06:49,800
be very effective in trying to slow down

153
00:06:55,719 --> 00:06:52,620
the juggernaut was a lawsuit against the

154
00:06:59,240 --> 00:06:55,729
Food and Drug Administration the FDA

155
00:07:04,150 --> 00:06:59,250
challenging their policy because the FDA

156
00:07:06,500 --> 00:07:04,160
had made a presumption in 1992 that

157
00:07:10,430 --> 00:07:06,510
basically all genetically engineered

158
00:07:12,850 --> 00:07:10,440
foods would be safe and that they could

159
00:07:15,379 --> 00:07:12,860
basically just give them a blanket

160
00:07:19,730 --> 00:07:15,389
presumption of generally recognized as

161
00:07:22,640 --> 00:07:19,740
safe and they were pretty much given a

162
00:07:27,320 --> 00:07:22,650
green light for the manufacturers just

163
00:07:28,820 --> 00:07:27,330

to dump any Ge Ge food on the american

164

00:07:32,029 --> 00:07:28,830

market that they wanted to without

165

00:07:34,159 --> 00:07:32,039

without having to go through any safety

166

00:07:38,680 --> 00:07:34,169

testing at all and without providing

167

00:07:42,200 --> 00:07:38,690

labels to inform the consumers about the

168

00:07:45,370 --> 00:07:42,210

genetic configurations that had that had

169

00:07:47,960 --> 00:07:45,380

been done to their foods and I really

170

00:07:49,460 --> 00:07:47,970

didn't touch that didn't sit well with

171

00:07:51,110 --> 00:07:49,470

me it didn't sit well with a lot of

172

00:07:54,710 --> 00:07:51,120

other people who understood what was

173

00:07:57,730 --> 00:07:54,720

going on I did not envision myself as

174

00:08:01,400 --> 00:07:57,740

playing a key role in the lawsuit

175

00:08:03,110 --> 00:08:01,410

because I hadn't really been involved in

176
00:08:05,360 --> 00:08:03,120
litigation although I have a law degree

177
00:08:08,390 --> 00:08:05,370
from University of California Berkeley

178
00:08:12,170 --> 00:08:08,400
I hadn't been practicing law and I

179
00:08:14,180 --> 00:08:12,180
hadn't done any litigation and I was

180
00:08:17,150 --> 00:08:14,190
involved in some other project dur to my

181
00:08:20,360 --> 00:08:17,160
heart so my goal was just to get some

182
00:08:22,790 --> 00:08:20,370
public interest group inspired a group

183
00:08:25,730 --> 00:08:22,800
that had the resources and left them to

184
00:08:28,159 --> 00:08:25,740
the lawsuit and that's how I began was

185
00:08:30,469 --> 00:08:28,169
just contacting public interest groups

186
00:08:33,640 --> 00:08:30,479
trying to get them sold on the idea of

187
00:08:36,079 --> 00:08:33,650
doing a lawsuit as it turns out

188
00:08:38,600 --> 00:08:36,089

everybody with whom I spoke thought it

189

00:08:39,829 --> 00:08:38,610

was a great idea to do the lawsuit but

190

00:08:41,630 --> 00:08:39,839

they also thought I actually was

191

00:08:44,449 --> 00:08:41,640

planning to do it and I was just trying

192

00:08:46,610 --> 00:08:44,459

to inform them about it and when I said

193

00:08:48,410 --> 00:08:46,620

no I'm trying to get you to do it they

194

00:08:49,759 --> 00:08:48,420

always had one or another reason

195

00:08:51,230 --> 00:08:49,769

as to why they weren't prepared their

196

00:08:54,949 --> 00:08:51,240

group wasn't prepared to do it

197

00:08:58,550 --> 00:08:54,959

eventually in speaking with a friend who

198

00:09:00,889 --> 00:08:58,560

was a molecular biologist and explaining

199

00:09:03,050 --> 00:09:00,899

the situation to him you know he said

200

00:09:04,160 --> 00:09:03,060

Steve you know you've got to realize

201

00:09:06,769 --> 00:09:04,170

this is your baby

202

00:09:09,230 --> 00:09:06,779

you have the idea you have the the

203

00:09:12,800 --> 00:09:09,240

enthusiasm and if you don't do it it's

204

00:09:15,079 --> 00:09:12,810

not going to happen and much as I didn't

205

00:09:17,180 --> 00:09:15,089

want to accept that assessment

206

00:09:21,110 --> 00:09:17,190

deep down I had a feeling it was right

207

00:09:23,449 --> 00:09:21,120

and so I decided well I guess I'm going

208

00:09:26,780 --> 00:09:23,459

to have to to start the public interest

209

00:09:30,530 --> 00:09:26,790

organization that'll basically spearhead

210

00:09:33,410 --> 00:09:30,540

this lawsuit so I'm in September of 1996

211

00:09:36,500 --> 00:09:33,420

I founded the Alliance for bio integrity

212

00:09:40,790 --> 00:09:36,510

and as its president and executive

213

00:09:43,540 --> 00:09:40,800

director began to move ahead vigorously

214

00:09:46,460 --> 00:09:43,550

to to basically mount the lawsuit to

215

00:09:50,120 --> 00:09:46,470

assemble the financial resources to get

216

00:09:54,350 --> 00:09:50,130

plaintiffs together and it took until

217

00:09:56,930 --> 00:09:54,360

May of 1998 until that suit was filed in

218

00:10:00,350 --> 00:09:56,940

federal district court and in Washington

219

00:10:03,560 --> 00:10:00,360

DC and a very key component of being

220

00:10:05,329 --> 00:10:03,570

able to have that suit filed was having

221

00:10:07,519 --> 00:10:05,339

attracted the attention of the

222

00:10:10,460 --> 00:10:07,529

International Center for Technology

223

00:10:12,500 --> 00:10:10,470

Assessment in Washington DC a very good

224

00:10:15,560 --> 00:10:12,510

public interest group they had a good

225

00:10:17,480 --> 00:10:15,570

legal team they they were skilled at

226

00:10:20,420 --> 00:10:17,490

bringing lawsuits against federal

227

00:10:22,790 --> 00:10:20,430

administrative agencies they liked the

228

00:10:25,960 --> 00:10:22,800

idea of the lawsuit and they became an

229

00:10:27,100 --> 00:10:25,970

involved as attorneys of record I

230

00:10:30,170 --> 00:10:27,110

besides

231

00:10:32,470 --> 00:10:30,180

organizing the main components of the

232

00:10:34,819 --> 00:10:32,480

plaintiffs plaintiff group and and

233

00:10:36,559 --> 00:10:34,829

raising a lot of the initial funding

234

00:10:38,740 --> 00:10:36,569

that was needed I eventually became

235

00:10:41,829 --> 00:10:38,750

involved as a lawyer too and spent

236

00:10:45,290 --> 00:10:41,839

several months really in Washington DC

237

00:10:47,600 --> 00:10:45,300

collaborating with that organization and

238

00:10:49,970 --> 00:10:47,610

doing some of the important research on

239

00:10:52,340 --> 00:10:49,980

the food safety issues and helping write

240

00:10:55,040 --> 00:10:52,350

the the legal documents and the briefs

241

00:10:58,670 --> 00:10:55,050

that were filed with the court mm-hmm

242

00:11:01,670 --> 00:10:58,680

yes noble use of your skills with a huge

243

00:11:03,530 --> 00:11:01,680

impact because now we know much more

244

00:11:06,829 --> 00:11:03,540

then we did then which will of course

245

00:11:08,540 --> 00:11:06,839

get into and as well as reading your

246

00:11:10,730 --> 00:11:08,550

book I've also heard some of the

247

00:11:12,889 --> 00:11:10,740

presentations you've given and in one

248

00:11:16,309 --> 00:11:12,899

instance you started it by asking people

249

00:11:18,499 --> 00:11:16,319

to imagine a miraculous situation in

250

00:11:21,019 --> 00:11:18,509

which everyone's opinions on GMOs

251
00:11:23,359 --> 00:11:21,029
becomes consistent with our best

252
00:11:25,129 --> 00:11:23,369
scientific knowledge rather than the

253
00:11:27,769 --> 00:11:25,139
rhetoric because then we'd all be

254
00:11:31,100 --> 00:11:27,779
concerned and I really love that because

255
00:11:33,710 --> 00:11:31,110
the criticism so often hurled at GMO

256
00:11:36,079 --> 00:11:33,720
skeptics is that it's our arguments that

257
00:11:38,809 --> 00:11:36,089
are not scientific and we should just

258
00:11:40,790 --> 00:11:38,819
defer to the experts hope people

259
00:11:44,449 --> 00:11:40,800
understand how that is actually

260
00:11:46,759 --> 00:11:44,459
backwards right well thank you for

261
00:11:49,639 --> 00:11:46,769
listening to some of my presentations

262
00:11:51,169 --> 00:11:49,649
and you're right that's that's the way

263
00:11:53,509 --> 00:11:51,179

I've begun several talks

264

00:11:56,480 --> 00:11:53,519

I think it's effective because as you

265

00:12:00,619 --> 00:11:56,490

say what we continually hear through the

266

00:12:03,230 --> 00:12:00,629

media is that there's a tremendous size

267

00:12:05,419 --> 00:12:03,240

of a consensus and that all the sciences

268

00:12:08,360 --> 00:12:05,429

on the side of the the safety of these

269

00:12:10,850 --> 00:12:08,370

foods and that you you one one here

270

00:12:13,819 --> 00:12:10,860

scientists complaining time and again

271

00:12:17,239 --> 00:12:13,829

that oh if scientists who propound these

272

00:12:19,939 --> 00:12:17,249

foods who advocate these foods if only

273

00:12:22,220 --> 00:12:19,949

the public understood the facts then

274

00:12:25,220 --> 00:12:22,230

there wouldn't be any of this opposition

275

00:12:27,079 --> 00:12:25,230

and that if the public were adequately

276

00:12:30,019 --> 00:12:27,089

informed all the opposition would

277

00:12:33,590 --> 00:12:30,029

disappear and as I show in those talks

278

00:12:37,549 --> 00:12:33,600

and as my book fully demonstrates very

279

00:12:39,769 --> 00:12:37,559

very fully demonstrates actually as you

280

00:12:43,269 --> 00:12:39,779

said is just the other way around if the

281

00:12:46,100 --> 00:12:43,279

public and the our government

282

00:12:48,769 --> 00:12:46,110

decision-makers actually understood the

283

00:12:50,360 --> 00:12:48,779

facts if their opinions were in line

284

00:12:53,329 --> 00:12:50,370

with the best scientific knowledge

285

00:12:55,460 --> 00:12:53,339

available then the phenomenon that would

286

00:12:57,259 --> 00:12:55,470

quickly vanish would not be the

287

00:13:00,769 --> 00:12:57,269

opposition to genetically engineered

288

00:13:05,059 --> 00:13:00,779

foods but the food's themselves and that

289

00:13:09,079 --> 00:13:05,069

is why despite their you know purporting

290

00:13:10,730 --> 00:13:09,089

to want to educate people the proponents

291

00:13:12,860 --> 00:13:10,740

of genetically engineered food whether

292

00:13:16,940 --> 00:13:12,870

they're an industry or inside

293

00:13:19,760 --> 00:13:16,950

whether they are in universities or

294

00:13:21,590 --> 00:13:19,770

scientific institutions if they're

295

00:13:24,290 --> 00:13:21,600

pushing genetically engineered foods

296

00:13:27,140 --> 00:13:24,300

then they almost always are

297

00:13:30,760 --> 00:13:27,150

misrepresenting key facts and at minimum

298

00:13:33,050 --> 00:13:30,770

suppressing key facts and instead of

299

00:13:36,380 --> 00:13:33,060

educating the public as they claim to

300

00:13:39,350 --> 00:13:36,390

wish to do they're actually keeping the

301
00:13:42,530 --> 00:13:39,360
the public in the dark to a significant

302
00:13:46,370 --> 00:13:42,540
extent and often significantly confused

303
00:13:49,540 --> 00:13:46,380
and misled and it's one of the major

304
00:13:53,300 --> 00:13:49,550
themes of my book that this massive

305
00:13:55,580 --> 00:13:53,310
venture to reconfigure the genetic core

306
00:13:58,270 --> 00:13:55,590
of the world's food supply although it

307
00:14:02,690 --> 00:13:58,280
purports to rest on solid science

308
00:14:06,170 --> 00:14:02,700
actually rests on ignoring science in to

309
00:14:08,630 --> 00:14:06,180
a large extent subverting science and it

310
00:14:11,900 --> 00:14:08,640
really rests on a foundation of

311
00:14:14,060 --> 00:14:11,910
falsehood and fraud and it could not

312
00:14:16,670 --> 00:14:14,070
stand an honest airing of the facts it

313
00:14:19,720 --> 00:14:16,680

would quickly collapse mm-hmm very well

314

00:14:22,520 --> 00:14:19,730

said and exactly as you just mentioned

315

00:14:24,800 --> 00:14:22,530

your book does cover a lot of ground but

316

00:14:27,650 --> 00:14:24,810

you do say the key fraud in all this in

317

00:14:29,090 --> 00:14:27,660

plain language is that as genetically

318

00:14:31,400 --> 00:14:29,100

engineered agriculture was being

319

00:14:34,670 --> 00:14:31,410

developed the memos and the warnings of

320

00:14:36,470 --> 00:14:34,680

FDA employed scientists in the lab were

321

00:14:38,630 --> 00:14:36,480

suppressed by their superiors who lied

322

00:14:41,090 --> 00:14:38,640

and said these foods were different in

323

00:14:44,000 --> 00:14:41,100

no significant way and I really want

324

00:14:47,090 --> 00:14:44,010

people to understand that point can you

325

00:14:49,100 --> 00:14:47,100

elaborate on some of the evidence for

326

00:14:52,970 --> 00:14:49,110

that that maybe came through in those

327

00:14:55,250 --> 00:14:52,980

documents that were disclosed sure and I

328

00:14:58,160 --> 00:14:55,260

mentioned that that was the key fraud

329

00:15:01,880 --> 00:14:58,170

and it was because as I mentioned

330

00:15:04,730 --> 00:15:01,890

earlier in this chat it was in May of

331

00:15:07,730 --> 00:15:04,740

1992 that the US Food and Drug

332

00:15:11,120 --> 00:15:07,740

Administration basically got the jump on

333

00:15:15,200 --> 00:15:11,130

all of the other major food regulatory

334

00:15:18,380 --> 00:15:15,210

agencies in other countries and became

335

00:15:22,430 --> 00:15:18,390

really the first major to my knowledge

336

00:15:25,250 --> 00:15:22,440

the first major governmental food

337

00:15:26,270 --> 00:15:25,260

regulatory agency to take a public

338

00:15:28,850 --> 00:15:26,280

position

339

00:15:32,090 --> 00:15:28,860

on genetically engineered foods and they

340

00:15:34,910 --> 00:15:32,100

declared that there was basically a an

341

00:15:37,010 --> 00:15:34,920

overwhelming consensus within the sides

342

00:15:41,260 --> 00:15:37,020

of the community that genetic

343

00:15:43,430 --> 00:15:41,270

engineering is essentially as safe as

344

00:15:44,900 --> 00:15:43,440

traditional breeding techniques in

345

00:15:47,960 --> 00:15:44,910

creating new varieties of foods

346

00:15:51,350 --> 00:15:47,970

basically at least is safe if not safer

347

00:15:53,240 --> 00:15:51,360

than just pollen based reproduction

348

00:15:55,820 --> 00:15:53,250

through naturally available sexual

349

00:15:59,060 --> 00:15:55,830

pathways which is the way farmers have

350

00:16:02,090 --> 00:15:59,070

been producing new varieties for in

351

00:16:06,020 --> 00:16:02,100

millennia just letting it happen through

352

00:16:09,170 --> 00:16:06,030

pollen and natural reproduction they

353

00:16:11,780 --> 00:16:09,180

said even that the genetic engineering

354

00:16:15,620 --> 00:16:11,790

is essentially no different and at least

355

00:16:19,430 --> 00:16:15,630

is safe they also stated that the agency

356

00:16:20,960 --> 00:16:19,440

was not aware of any information showing

357

00:16:23,830 --> 00:16:20,970

that foods produced through genetic

358

00:16:26,300 --> 00:16:23,840

engineering techniques differ in any

359

00:16:28,780 --> 00:16:26,310

uniform or meaningful way from other

360

00:16:32,690 --> 00:16:28,790

foods now that was an outright lie

361

00:16:36,170 --> 00:16:32,700

because as you've mentioned on discovery

362

00:16:38,570 --> 00:16:36,180

early on in the lawsuit the FDA was

363

00:16:42,920 --> 00:16:38,580

compelled to hand over all of their

364

00:16:45,440 --> 00:16:42,930

internal files relative to their policy

365

00:16:47,420 --> 00:16:45,450

on genetically engineered foods and I

366

00:16:49,670 --> 00:16:47,430

think in the future I'll just be often

367

00:16:52,670 --> 00:16:49,680

referring to them as GMOs it's shorthand

368

00:16:54,320 --> 00:16:52,680

but I mean by that when I say GMOs in

369

00:16:56,570 --> 00:16:54,330

the context of this broadcast

370

00:17:00,620 --> 00:16:56,580

I mean genetically engineered or

371

00:17:04,910 --> 00:17:00,630

genetically modified foods so but that

372

00:17:09,620 --> 00:17:04,920

was actually a major lie because I found

373

00:17:13,160 --> 00:17:09,630

in going through the files as you

374

00:17:15,770 --> 00:17:13,170

mentioned was over 40,000 pages there

375

00:17:19,160 --> 00:17:15,780

were many memos from the FDA's own

376

00:17:21,410 --> 00:17:19,170

experts whom the FDA had asked to

377

00:17:23,449 --> 00:17:21,420

actually review the issue and they did

378

00:17:25,900 --> 00:17:23,459

review it and they actually thought the

379

00:17:28,069 --> 00:17:25,910

FDA wanted them to function as

380

00:17:30,650 --> 00:17:28,079

responsible scientists which they did

381

00:17:32,450 --> 00:17:30,660

and being responsible scientists they

382

00:17:35,020 --> 00:17:32,460

could recognize that there are

383

00:17:37,220 --> 00:17:35,030

significant differences between

384

00:17:38,649 --> 00:17:37,230

producing foods through conventional

385

00:17:40,960 --> 00:17:38,659

means and

386

00:17:45,450 --> 00:17:40,970

loosen them through recombinant DNA

387

00:17:49,089 --> 00:17:45,460

techniques or genetic engineering and

388

00:17:51,669 --> 00:17:49,099

they they cautioned they issued many

389

00:17:54,789 --> 00:17:51,679

cautions they explained how the genetic

390

00:17:56,710 --> 00:17:54,799

engineering process is not as precise

391

00:17:59,529 --> 00:17:56,720

and predictable as its proponents

392

00:18:02,589 --> 00:17:59,539

claimed they stated there was a risk of

393

00:18:04,899 --> 00:18:02,599

unintended side-effects anytime that

394

00:18:08,859 --> 00:18:04,909

that technique was used to produce a new

395

00:18:12,339 --> 00:18:08,869

food and explained how food bearing

396

00:18:14,560 --> 00:18:12,349

organisms are complicated that their DNA

397

00:18:18,039 --> 00:18:14,570

can be disrupted that there are several

398

00:18:20,710 --> 00:18:18,049

different ways in which deleterious side

399

00:18:24,719 --> 00:18:20,720

effects could be created and that in

400

00:18:27,759 --> 00:18:24,729

total in the in the holistic viewpoint

401
00:18:30,820 --> 00:18:27,769
the risks were going to be not only

402
00:18:33,879 --> 00:18:30,830
different but greater and that the foods

403
00:18:35,979 --> 00:18:33,889
needed to be tested carefully because

404
00:18:39,609 --> 00:18:35,989
especially there could be risks of

405
00:18:42,879 --> 00:18:39,619
unintended new toxins new toxic

406
00:18:46,149 --> 00:18:42,889
poisonous substances that were generated

407
00:18:48,369 --> 00:18:46,159
within that plant that had never been

408
00:18:50,080 --> 00:18:48,379
even in that species before it might

409
00:18:52,659 --> 00:18:50,090
have never even been seen on the face of

410
00:18:56,879 --> 00:18:52,669
the earth before so be very difficult

411
00:18:59,169 --> 00:18:56,889
for them to be detected through

412
00:19:02,529 --> 00:18:59,179
superficial inspections that there would

413
00:19:06,249 --> 00:19:02,539

need to be rigorous testing of the whole

414

00:19:08,889 --> 00:19:06,259

food the whole food and to make sure

415

00:19:12,070 --> 00:19:08,899

that it was actually safe and they also

416

00:19:14,440 --> 00:19:12,080

stated that in addition to novel toxins

417

00:19:17,589 --> 00:19:14,450

there could be novel allergens as well

418

00:19:19,719 --> 00:19:17,599

and that again the allergenic potential

419

00:19:22,330 --> 00:19:19,729

of these foods would be very difficult

420

00:19:25,869 --> 00:19:22,340

to assess in fact the FDA's own

421

00:19:28,089 --> 00:19:25,879

biotechnology management manager stated

422

00:19:30,999 --> 00:19:28,099

that very clearly at a letter to a

423

00:19:34,839 --> 00:19:31,009

Canadian Health official in either

424

00:19:36,820 --> 00:19:34,849

September or October of 1991 that the

425

00:19:39,820 --> 00:19:36,830

allergenic potential would be hard to

426
00:19:42,669 --> 00:19:39,830
predict he also acknowledged that at

427
00:19:44,259 --> 00:19:42,679
that point there was not a consensus

428
00:19:47,049 --> 00:19:44,269
about safety in the size of the

429
00:19:48,999 --> 00:19:47,059
community clear consensus that even

430
00:19:51,849 --> 00:19:49,009
outside of the FDA there was not

431
00:19:52,280 --> 00:19:51,859
assigned to the consensus and he knew

432
00:19:55,100 --> 00:19:52,290
full

433
00:19:57,230 --> 00:19:55,110
well that within the FDA to the extent

434
00:19:59,750 --> 00:19:57,240
that there was a consensus it was that

435
00:20:02,180 --> 00:19:59,760
these foods until unique risks in fact

436
00:20:04,130 --> 00:20:02,190
that was the consensus of the FDA

437
00:20:06,620 --> 00:20:04,140
scientists that were on the

438
00:20:10,790 --> 00:20:06,630

biotechnology task force carefully

439

00:20:13,280 --> 00:20:10,800

studying the issue so so strong so

440

00:20:17,990 --> 00:20:13,290

pervasive was that consensus within the

441

00:20:21,350 --> 00:20:18,000

FDA that an FDA biotechnology I'm sure

442

00:20:24,320 --> 00:20:21,360

an FDA compliance officer whose job it

443

00:20:27,580 --> 00:20:24,330

was to review all of the data all of the

444

00:20:30,590 --> 00:20:27,590

memos wrote in a very strong memo to the

445

00:20:35,270 --> 00:20:30,600

biotechnology coordinator in January of

446

00:20:37,580 --> 00:20:35,280

1992 that the processes of genetic

447

00:20:39,890 --> 00:20:37,590

engineering and traditional breeding are

448

00:20:42,500 --> 00:20:39,900

different and according to the technical

449

00:20:45,370 --> 00:20:42,510

experts in the agency they lead to

450

00:20:48,410 --> 00:20:45,380

different risks a very strong statement

451
00:20:51,740 --> 00:20:48,420
but what happened a few months later the

452
00:20:53,690 --> 00:20:51,750
FDA the FDA's administrators decision

453
00:20:56,360 --> 00:20:53,700
makers came out with that policy

454
00:20:59,060 --> 00:20:56,370
statement stating that they were not

455
00:21:01,250 --> 00:20:59,070
aware of any information showing that

456
00:21:04,330 --> 00:21:01,260
genetically engineered foods differed in

457
00:21:08,240 --> 00:21:04,340
any uniform or meaningful way now I

458
00:21:10,730 --> 00:21:08,250
think we could all agree that memos from

459
00:21:13,220 --> 00:21:10,740
your own scientists counters information

460
00:21:17,290 --> 00:21:13,230
and that the statement the FDA makes

461
00:21:19,880 --> 00:21:17,300
counts as disinformation so and also

462
00:21:21,830 --> 00:21:19,890
again the claim that these foods were

463
00:21:24,110 --> 00:21:21,840

generally recognized as safe within the

464

00:21:27,410 --> 00:21:24,120

sides of the community again was a

465

00:21:31,190 --> 00:21:27,420

fraudulent claim because they knew that

466

00:21:33,440 --> 00:21:31,200

again as what I've said shows the

467

00:21:36,380 --> 00:21:33,450

overwhelming consensus within the FDA's

468

00:21:39,050 --> 00:21:36,390

own scientific staff was these foods are

469

00:21:41,470 --> 00:21:39,060

different and they entail unique risk

470

00:21:43,360 --> 00:21:41,480

greater risks and the FDA's own

471

00:21:46,160 --> 00:21:43,370

biotechnology coordinator had

472

00:21:48,110 --> 00:21:46,170

acknowledged there was not a consensus

473

00:21:51,440 --> 00:21:48,120

about safety in the size of the

474

00:21:54,170 --> 00:21:51,450

community so really a major double lie

475

00:21:57,680 --> 00:21:54,180

was told there but the FDA got away with

476
00:22:01,160 --> 00:21:57,690
it and nobody knew really the extent to

477
00:22:03,170 --> 00:22:01,170
which that was a lie until we were able

478
00:22:05,030 --> 00:22:03,180
to get our hands on the FDA's met

479
00:22:07,040 --> 00:22:05,040
internal files

480
00:22:10,040 --> 00:22:07,050
more people would know about that if the

481
00:22:12,320 --> 00:22:10,050
mainstream American media had reported

482
00:22:15,530 --> 00:22:12,330
that it certainly has been reported to

483
00:22:19,130 --> 00:22:15,540
them I have given the media the major

484
00:22:21,590 --> 00:22:19,140
media outlets solid documentation of the

485
00:22:23,990 --> 00:22:21,600
FDA's frauds and they've covered it up

486
00:22:25,490 --> 00:22:24,000
consistently unfortunately that's an

487
00:22:28,190 --> 00:22:25,500
entire chapter in the book the

488
00:22:30,640 --> 00:22:28,200

malfunction of the mainstream American

489

00:22:33,650 --> 00:22:30,650

media and unfortunately they've fallen

490

00:22:38,630 --> 00:22:33,660

fallen down on the job when it comes to

491

00:22:41,690 --> 00:22:38,640

exposing the risks of GMOs yes they very

492

00:22:43,370 --> 00:22:41,700

much have and that's a great summary I

493

00:22:46,130 --> 00:22:43,380

really love drilling home the fact that

494

00:22:50,000 --> 00:22:46,140

the FDA knew because government often

495

00:22:52,610 --> 00:22:50,010

hides behind ignorant or incompetence

496

00:22:55,760 --> 00:22:52,620

and it's nice to have that paper trail

497

00:22:58,570 --> 00:22:55,770

that shows that there was prior

498

00:23:02,240 --> 00:22:58,580

knowledge but it seems like with the

499

00:23:04,040 --> 00:23:02,250

technique itself one of the foundational

500

00:23:07,130 --> 00:23:04,050

issues is that these scientists are

501
00:23:08,870 --> 00:23:07,140
taught this mindset that an organism is

502
00:23:11,180 --> 00:23:08,880
like a puzzle where you can just take

503
00:23:13,880 --> 00:23:11,190
out a piece here replace a piece there

504
00:23:16,130 --> 00:23:13,890
and it doesn't have an effect on the

505
00:23:20,330 --> 00:23:16,140
whole of the organism but in truth

506
00:23:23,780 --> 00:23:20,340
nature is complex and holistic and it's

507
00:23:25,940 --> 00:23:23,790
not plug-and-play in fact sometimes its

508
00:23:28,340 --> 00:23:25,950
own defenses are triggered when there's

509
00:23:32,600 --> 00:23:28,350
something inside of it that shouldn't be

510
00:23:36,560 --> 00:23:32,610
there naturally so this is kind of how

511
00:23:38,780 --> 00:23:36,570
toxins emerge that aren't expected just

512
00:23:42,410 --> 00:23:38,790
by doing even small tweaks to these

513
00:23:45,370 --> 00:23:42,420

organisms correct it could be that's the

514

00:23:47,930 --> 00:23:45,380

case and in fact the very first

515

00:23:52,040 --> 00:23:47,940

ingestible product that was created

516

00:23:54,560 --> 00:23:52,050

through a genetic engineering was a food

517

00:23:57,740 --> 00:23:54,570

supplement of the essential amino acid

518

00:24:01,820 --> 00:23:57,750

l-tryptophan which actually came to the

519

00:24:05,750 --> 00:24:01,830

market in the mid-1980s and actually was

520

00:24:08,660 --> 00:24:05,760

creating some serious illnesses we

521

00:24:12,950 --> 00:24:08,670

didn't we meaning the the scientific

522

00:24:15,290 --> 00:24:12,960

community and medical community what

523

00:24:18,560 --> 00:24:15,300

didn't become aware of the of the

524

00:24:20,960 --> 00:24:18,570

problem until a very strong

525

00:24:23,300 --> 00:24:20,970

a much stronger version of genetically

526
00:24:26,660 --> 00:24:23,310
engineered bacteria that was producing

527
00:24:29,120 --> 00:24:26,670
this supplement were used so there were

528
00:24:31,490 --> 00:24:29,130
genetically engineered bacteria they

529
00:24:34,160 --> 00:24:31,500
were being they had been given some

530
00:24:36,500 --> 00:24:34,170
extra copies of their own genes wasn't

531
00:24:39,860 --> 00:24:36,510
even foreign genetic material that was

532
00:24:41,900 --> 00:24:39,870
put in but they were being forced and

533
00:24:45,020 --> 00:24:41,910
I'm not and I'm using that term

534
00:24:46,730 --> 00:24:45,030
advisedly they were being forced to over

535
00:24:49,550 --> 00:24:46,740
produce something they ordinarily

536
00:24:51,920 --> 00:24:49,560
produce anyway but when they ordinarily

537
00:24:54,170 --> 00:24:51,930
produce it it's safe for them and it can

538
00:24:56,480 --> 00:24:54,180

be harvested from them and put into

539

00:24:58,880 --> 00:24:56,490

supplements none of the supplements

540

00:25:02,870 --> 00:24:58,890

produced through conventional bacteria

541

00:25:04,750 --> 00:25:02,880

had ever caused problems but the

542

00:25:08,180 --> 00:25:04,760

supplements produced through these

543

00:25:10,970 --> 00:25:08,190

bacteria that were hyper producing hyper

544

00:25:14,810 --> 00:25:10,980

producing that amino acid because

545

00:25:17,810 --> 00:25:14,820

through genetic engineering did create

546

00:25:22,390 --> 00:25:17,820

not only a problem but a major epidemic

547

00:25:27,170 --> 00:25:22,400

so when the epidemic was was created in

548

00:25:29,630 --> 00:25:27,180

1989 and 1990 then finally it came to

549

00:25:31,820 --> 00:25:29,640

the attention it popped up people

550

00:25:34,460 --> 00:25:31,830

looking back could see that there were

551
00:25:37,040 --> 00:25:34,470
even problems in the earlier in the

552
00:25:39,290 --> 00:25:37,050
earlier supplements were produced from

553
00:25:42,170 --> 00:25:39,300
bacteria that had not been pushed quite

554
00:25:44,600 --> 00:25:42,180
so hard but they had been pushed too

555
00:25:46,760 --> 00:25:44,610
hard abnormally hard but when they

556
00:25:49,580 --> 00:25:46,770
really jacked it up really hyper

557
00:25:52,250 --> 00:25:49,590
produced were forced to produce that's

558
00:25:55,010 --> 00:25:52,260
when the problem reached epidemic

559
00:25:58,490 --> 00:25:55,020
proportions now getting back to your

560
00:26:00,890 --> 00:25:58,500
initial question that was compared to

561
00:26:03,920 --> 00:26:00,900
most genetically engineered foods a

562
00:26:07,490 --> 00:26:03,930
fairly minor tweak because us said it

563
00:26:11,180 --> 00:26:07,500

was just extra copies of the bacterias

564

00:26:14,210 --> 00:26:11,190

own genes who were used in creating by

565

00:26:15,710 --> 00:26:14,220

in synthesizing the old tryptophan the

566

00:26:18,740 --> 00:26:15,720

thing that was different was they were

567

00:26:21,680 --> 00:26:18,750

being forced to produce it much more

568

00:26:23,830 --> 00:26:21,690

rapidly than they usually do and in much

569

00:26:26,840 --> 00:26:23,840

greater quantities and that apparently

570

00:26:31,260 --> 00:26:26,850

the best scientific evidence points to

571

00:26:34,080 --> 00:26:31,270

that as having created a destabilization

572

00:26:35,990 --> 00:26:34,090

in the bacteria's metabolism that led to

573

00:26:38,490 --> 00:26:36,000

the creation of some unusual

574

00:26:40,980 --> 00:26:38,500

contaminants at least one of which was

575

00:26:43,680 --> 00:26:40,990

highly toxic at a very low level of

576
00:26:46,740 --> 00:26:43,690
concentration in fact another sobering

577
00:26:49,230 --> 00:26:46,750
fact is those supplements those

578
00:26:51,510 --> 00:26:49,240
l-tryptophan supplements were refined

579
00:26:54,870 --> 00:26:51,520
products they weren't like whole foods

580
00:26:57,260 --> 00:26:54,880
they were refined and they were tested

581
00:26:59,940 --> 00:26:57,270
to be pharmacopoeia pure

582
00:27:03,480 --> 00:26:59,950
pharmacologically pure their level of

583
00:27:06,030 --> 00:27:03,490
purity was such that even had there been

584
00:27:08,070 --> 00:27:06,040
toxic contaminants they should have been

585
00:27:10,050 --> 00:27:08,080
at such a low level of concentration

586
00:27:12,210 --> 00:27:10,060
that they should have caused any problem

587
00:27:15,000 --> 00:27:12,220
anyway so from the standpoint of

588
00:27:17,190 --> 00:27:15,010

pharmacology those supplements were pure

589

00:27:19,410 --> 00:27:17,200

but from the standpoint of the human

590

00:27:21,990 --> 00:27:19,420

consumers were two men thousands of them

591

00:27:24,000 --> 00:27:22,000

they weren't they were toxic they killed

592

00:27:26,490 --> 00:27:24,010

dozens of Americans and seriously

593

00:27:28,350 --> 00:27:26,500

sickened between four and five thousand

594

00:27:31,080 --> 00:27:28,360

a court in the most recent estimates of

595

00:27:33,290 --> 00:27:31,090

the Center for Disease Control so they

596

00:27:37,020 --> 00:27:33,300

were not at all benign even they were

597

00:27:39,530 --> 00:27:37,030

pharmacologically pure that shows how

598

00:27:42,750 --> 00:27:39,540

important it is to do tests to make sure

599

00:27:45,960 --> 00:27:42,760

that genetically engineered foods are

600

00:27:49,890 --> 00:27:45,970

safe that they don't harbor unusual

601
00:27:52,550 --> 00:27:49,900
toxicants at very low levels and that

602
00:27:57,000 --> 00:27:52,560
kind of testing has not been required

603
00:27:58,890 --> 00:27:57,010
hmm yes I love that example it's one of

604
00:28:01,800 --> 00:27:58,900
the strongest points that I learned

605
00:28:03,660 --> 00:28:01,810
about from digesting your work because

606
00:28:06,270 --> 00:28:03,670
you always hear that there's no evidence

607
00:28:07,860 --> 00:28:06,280
that GMOs can be harmful to humans well

608
00:28:09,660 --> 00:28:07,870
you know except for this first

609
00:28:12,300 --> 00:28:09,670
genetically engineered product to ever

610
00:28:14,910 --> 00:28:12,310
hit the market which made 5,000 people

611
00:28:17,250 --> 00:28:14,920
seriously sick and hundreds of people

612
00:28:19,500 --> 00:28:17,260
still haven't recovered from like

613
00:28:23,130 --> 00:28:19,510

they'll just never be the same and as

614

00:28:24,780 --> 00:28:23,140

you said this is a pretty simple version

615

00:28:26,370 --> 00:28:24,790

of genetic engineering and it's like

616

00:28:30,180 --> 00:28:26,380

what does that really say about the

617

00:28:32,070 --> 00:28:30,190

risks of crossing genetics or species

618

00:28:35,520 --> 00:28:32,080

that shouldn't even be in the same

619

00:28:38,700 --> 00:28:35,530

category if you have problems at even

620

00:28:40,410 --> 00:28:38,710

this base level yes it's a good point

621

00:28:42,549 --> 00:28:40,420

you've certainly done your homework Greg

622

00:28:44,440 --> 00:28:42,559

and I appreciate that you

623

00:28:47,259 --> 00:28:44,450

read the book as thoroughly as you have

624

00:28:51,220 --> 00:28:47,269

and because what you're saying is very

625

00:28:53,799 --> 00:28:51,230

important and if I can amplify just a

626

00:28:56,980 --> 00:28:53,809

bit more in my points the genetically

627

00:29:00,220 --> 00:28:56,990

engineered food crops even if they and

628

00:29:02,710 --> 00:29:00,230

rarely are they just using genes from

629

00:29:03,700 --> 00:29:02,720

that species only even if they were that

630

00:29:06,820 --> 00:29:03,710

could be a problem

631

00:29:09,039 --> 00:29:06,830

because just about every genetically

632

00:29:11,919 --> 00:29:09,049

engineered food on the market is being

633

00:29:13,840 --> 00:29:11,929

forced to over produce at least one

634

00:29:17,169 --> 00:29:13,850

product and usually more one gene

635

00:29:19,330 --> 00:29:17,179

product so and usually these genes are

636

00:29:23,470 --> 00:29:19,340

from foreign species genes that have

637

00:29:25,029 --> 00:29:23,480

never been in that species before and we

638

00:29:27,399 --> 00:29:25,039

don't know what a safe level of

639

00:29:31,389 --> 00:29:27,409

production of that gene is within that

640

00:29:33,909 --> 00:29:31,399

species but certainly they are being

641

00:29:36,369 --> 00:29:33,919

forced to over produce at a level that

642

00:29:39,009 --> 00:29:36,379

would raise concern even if it was just

643

00:29:42,730 --> 00:29:39,019

one of their own genes even if we didn't

644

00:29:44,830 --> 00:29:42,740

add any gene but just forced one one or

645

00:29:45,580 --> 00:29:44,840

two of the native genes to over produce

646

00:29:49,299 --> 00:29:45,590

like that

647

00:29:52,169 --> 00:29:49,309

that would entail a food safety risk so

648

00:29:57,070 --> 00:29:52,179

we've got that risk really multiplied

649

00:29:59,980 --> 00:29:57,080

amplified because not not only is our

650

00:30:02,259 --> 00:29:59,990

one or more genes being forced to hyper

651
00:30:06,519 --> 00:30:02,269
produce in these genetically engineered

652
00:30:08,259 --> 00:30:06,529
foods we don't really those genes as you

653
00:30:10,509 --> 00:30:08,269
said haven't been there before

654
00:30:13,090 --> 00:30:10,519
for the most part haven't been in that

655
00:30:17,259 --> 00:30:13,100
species so that can create additional

656
00:30:20,350 --> 00:30:17,269
problems in several respects right right

657
00:30:23,859 --> 00:30:20,360
and let me also ask you about the

658
00:30:26,649 --> 00:30:23,869
typical pro-gmo talking points that you

659
00:30:28,899 --> 00:30:26,659
have to combat because i'm sure they're

660
00:30:30,759 --> 00:30:28,909
the same arguments that some of us that

661
00:30:32,529 --> 00:30:30,769
are listening are going to get into or

662
00:30:35,680 --> 00:30:32,539
here when we have these conversations

663
00:30:38,320 --> 00:30:35,690

with friends and family what are some of

664

00:30:42,940 --> 00:30:38,330

the things that you hear most often and

665

00:30:45,720 --> 00:30:42,950

how do you respond to them well one of

666

00:30:50,190 --> 00:30:45,730

the things of course is the claim that

667

00:30:52,690 --> 00:30:50,200

the FDA has carefully tested these

668

00:30:54,970 --> 00:30:52,700

because often the claim as the FDA has

669

00:30:55,700 --> 00:30:54,980

been doing careful testing or at least

670

00:30:57,740 --> 00:30:55,710

rigors

671

00:31:00,580 --> 00:30:57,750

regulating them and they say they're

672

00:31:03,019 --> 00:31:00,590

safe well of course the FDA actually

673

00:31:06,250 --> 00:31:03,029

first we know the FDA has been lied

674

00:31:08,510 --> 00:31:06,260

repeatedly they lied about the

675

00:31:12,070 --> 00:31:08,520

I-tryptophan incident as well they were

676

00:31:14,919 --> 00:31:12,080

one of the biggest liars that actually

677

00:31:17,990 --> 00:31:14,929

allowed the genetic engineering

678

00:31:20,389 --> 00:31:18,000

juggernaut to continue because if the

679

00:31:21,470 --> 00:31:20,399

facts on that epidemic had come out it

680

00:31:23,510 --> 00:31:21,480

would have really slowed everything

681

00:31:26,149 --> 00:31:23,520

probably would have stopped the whole

682

00:31:31,549 --> 00:31:26,159

genetic engineering food venture in its

683

00:31:34,519 --> 00:31:31,559

tracks but the FDA through a series of

684

00:31:36,860 --> 00:31:34,529

frauds on that was able to create a lot

685

00:31:39,070 --> 00:31:36,870

of confusion and fool people and they

686

00:31:41,539 --> 00:31:39,080

were working hand in glove with the

687

00:31:43,399 --> 00:31:41,549

industry it appears but they were

688

00:31:43,880 --> 00:31:43,409

certainly doing the industry's work for

689

00:31:47,090 --> 00:31:43,890

them

690

00:31:49,760 --> 00:31:47,100

the FDA by the way I should note has

691

00:31:54,049 --> 00:31:49,770

admitted in writing that it has an

692

00:31:56,000 --> 00:31:54,059

agenda to promote biotechnology so it

693

00:31:58,760 --> 00:31:56,010

admits that and it has had that agenda

694

00:32:01,340 --> 00:31:58,770

since the 1980s during the Reagan

695

00:32:03,260 --> 00:32:01,350

administration and every successive

696

00:32:05,510 --> 00:32:03,270

presidential administration in the

697

00:32:08,690 --> 00:32:05,520

United States whether Republican or

698

00:32:12,049 --> 00:32:08,700

Democrat has continued to push the

699

00:32:14,840 --> 00:32:12,059

promotional policy for the federal

700

00:32:17,960 --> 00:32:14,850

executive agencies for the FDA for the

701
00:32:21,380 --> 00:32:17,970
USDA for the EPA they have all pushed it

702
00:32:23,659 --> 00:32:21,390
very strongly so and that is documented

703
00:32:26,149 --> 00:32:23,669
I'm not making that up it's not some

704
00:32:28,549 --> 00:32:26,159
wild conspiracy theory the FDA even

705
00:32:31,610 --> 00:32:28,559
admits that they have the policy to

706
00:32:33,799 --> 00:32:31,620
promote the biotechnology sector and

707
00:32:36,980 --> 00:32:33,809
they've done an excellent job of

708
00:32:40,070 --> 00:32:36,990
promoting it they've fallen flat on

709
00:32:42,560 --> 00:32:40,080
their main responsibilities which is to

710
00:32:45,139 --> 00:32:42,570
protect the safety of our food and to

711
00:32:47,389 --> 00:32:45,149
behave in a scientific manner and uphold

712
00:32:49,850 --> 00:32:47,399
ethics they've been lying they've been

713
00:32:52,279 --> 00:32:49,860

ignoring science and they have sided

714

00:32:56,120 --> 00:32:52,289

with the biotech industry instead of the

715

00:32:59,299 --> 00:32:56,130

American consumer and you know those are

716

00:33:01,610 --> 00:32:59,309

facts they're backed up in the book so

717

00:33:05,090 --> 00:33:01,620

you hear that a lot people actually

718

00:33:07,250 --> 00:33:05,100

think that the FDA has been actually

719

00:33:09,260 --> 00:33:07,260

doing tests they're not doing any

720

00:33:09,800 --> 00:33:09,270

regulation on these foods at all

721

00:33:11,900 --> 00:33:09,810

they're

722

00:33:13,280 --> 00:33:11,910

requiring any test to be made on them

723

00:33:15,460 --> 00:33:13,290

they certainly aren't performing their

724

00:33:18,710 --> 00:33:15,470

own tests and as the FDA's on

725

00:33:22,370 --> 00:33:18,720

biotechnology strategic manager once

726

00:33:24,200 --> 00:33:22,380

admitted in writing the FDA what the FDA

727

00:33:28,130 --> 00:33:24,210

is doing what it does voluntary

728

00:33:30,590 --> 00:33:28,140

consultations it encourages Monsanto and

729

00:33:33,380 --> 00:33:30,600

DuPont and the other manufacturers to

730

00:33:35,150 --> 00:33:33,390

voluntarily consult with it about the

731

00:33:37,670 --> 00:33:35,160

various foods that they're going that

732

00:33:40,280 --> 00:33:37,680

they want to release on our market but

733

00:33:43,640 --> 00:33:40,290

that's a smokescreen it's to then give

734

00:33:45,080 --> 00:33:43,650

the industry the the right to brag see

735

00:33:47,420 --> 00:33:45,090

we've actually gone through FDA

736

00:33:51,080 --> 00:33:47,430

regulation but it's not regulation at

737

00:33:53,930 --> 00:33:51,090

all it's voluntary and as the FDA's own

738

00:33:56,780 --> 00:33:53,940

strategic manager is admitted it's not a

739

00:33:58,790 --> 00:33:56,790

scientific review at all because the FDA

740

00:34:01,610 --> 00:33:58,800

doesn't even require original test data

741

00:34:03,260 --> 00:34:01,620

they basically let them Monsanto give

742

00:34:06,440 --> 00:34:03,270

them whatever they want to give them and

743

00:34:09,470 --> 00:34:06,450

they don't even formally approve of the

744

00:34:12,080 --> 00:34:09,480

food they just state we understand that

745

00:34:15,650 --> 00:34:12,090

you think your food is safe so it's a

746

00:34:17,690 --> 00:34:15,660

sham process to give the illusion that

747

00:34:20,270 --> 00:34:17,700

there's some real regulation going on

748

00:34:23,390 --> 00:34:20,280

and again it's it's bamboozled a lot of

749

00:34:26,120 --> 00:34:23,400

people so that's one one claim that I

750

00:34:27,350 --> 00:34:26,130

hear a lot it's easy to refute if people

751
00:34:29,810 --> 00:34:27,360
actually want to listen to the evidence

752
00:34:31,150 --> 00:34:29,820
and many people were so closed-minded

753
00:34:34,870 --> 00:34:31,160
they don't want to hear the evidence

754
00:34:37,280 --> 00:34:34,880
another the claim is that there's a

755
00:34:39,140 --> 00:34:37,290
overwhelming consensus within the sides

756
00:34:41,300 --> 00:34:39,150
of the community that genetically

757
00:34:44,150 --> 00:34:41,310
engineered foods or at least as safe as

758
00:34:47,690 --> 00:34:44,160
conventionally produced foods and that

759
00:34:50,990 --> 00:34:47,700
this consensus is as strong as the size

760
00:34:52,880 --> 00:34:51,000
of the consensus that the climate is

761
00:34:54,860 --> 00:34:52,890
warming and that human activity is

762
00:34:56,480 --> 00:34:54,870
playing a significant role in that

763
00:35:00,140 --> 00:34:56,490

that's just not true

764

00:35:02,900 --> 00:35:00,150

because whereas not a single to my

765

00:35:05,510 --> 00:35:02,910

knowledge not a single respected

766

00:35:09,080 --> 00:35:05,520

scientific organization independent

767

00:35:11,630 --> 00:35:09,090

scientific organization has dissented

768

00:35:13,970 --> 00:35:11,640

from the from the consensus opinion

769

00:35:16,940 --> 00:35:13,980

about global warming within the size of

770

00:35:20,290 --> 00:35:16,950

the community several eminent scientific

771

00:35:22,580 --> 00:35:20,300

organizations have warned about the

772

00:35:23,500 --> 00:35:22,590

risks of genetically engineered foods

773

00:35:25,600 --> 00:35:23,510

and

774

00:35:28,120 --> 00:35:25,610

that the regulation is not strict enough

775

00:35:30,400 --> 00:35:28,130

that the level of testing is not at all

776

00:35:33,580 --> 00:35:30,410

rigorous enough and one of those

777

00:35:37,330 --> 00:35:33,590

organizations is the Royal Society of

778

00:35:39,760 --> 00:35:37,340

Canada that nation's premier scientific

779

00:35:44,290 --> 00:35:39,770

organization it's their National Academy

780

00:35:47,560 --> 00:35:44,300

of Science in 2001 a panel of experts of

781

00:35:50,490 --> 00:35:47,570

the Royal Society of Canada released a

782

00:35:53,260 --> 00:35:50,500

very long comprehensive report on

783

00:35:56,410 --> 00:35:53,270

genetically engineered foods titled

784

00:35:58,900 --> 00:35:56,420

elements of precaution and they made the

785

00:36:01,690 --> 00:35:58,910

case for a much stricter precautionary

786

00:36:04,720 --> 00:36:01,700

approach then the Canadian regulators

787

00:36:07,360 --> 00:36:04,730

were then implying and/or that the EU

788

00:36:09,760 --> 00:36:07,370

was that employing and far stricter than

789

00:36:13,540 --> 00:36:09,770

the US which of course didn't require

790

00:36:16,990 --> 00:36:13,550

any regulation at all and two of the

791

00:36:20,920 --> 00:36:17,000

main conclusions of that expert report

792

00:36:22,900 --> 00:36:20,930

were that the default prediction and

793

00:36:25,150 --> 00:36:22,910

that was their term the default

794

00:36:27,280 --> 00:36:25,160

prediction for every genetically

795

00:36:29,650 --> 00:36:27,290

engineered food should be that the

796

00:36:33,280 --> 00:36:29,660

engineering process the genetic

797

00:36:35,620 --> 00:36:33,290

reconfiguration process has created some

798

00:36:37,960 --> 00:36:35,630

unintended side effect or side effects

799

00:36:40,480 --> 00:36:37,970

that could have rendered that product

800

00:36:43,210 --> 00:36:40,490

harmful for the human or the animal

801
00:36:46,390 --> 00:36:43,220
consumer and one of the second main

802
00:36:48,810 --> 00:36:46,400
conclusions was that it is

803
00:36:52,120 --> 00:36:48,820
scientifically unjustifiable

804
00:36:54,640 --> 00:36:52,130
scientifically unjustified to presume

805
00:36:57,460 --> 00:36:54,650
that any genetically engineered food is

806
00:37:00,310 --> 00:36:57,470
safe based on the kinds of testing that

807
00:37:02,080 --> 00:37:00,320
was then currently in place and the

808
00:37:06,580 --> 00:37:02,090
kinds if somebody thinks well that was

809
00:37:10,240 --> 00:37:06,590
2001 so things are better now yes in the

810
00:37:12,880 --> 00:37:10,250
European Union there is some stricter

811
00:37:15,730 --> 00:37:12,890
level of testing required now but not in

812
00:37:19,120 --> 00:37:15,740
Canada and not in the US but even in the

813
00:37:22,600 --> 00:37:19,130

EU what is being required wasn't

814

00:37:24,700 --> 00:37:22,610

instituted until 2013 quite a long time

815

00:37:27,070 --> 00:37:24,710

after genetically engineered foods began

816

00:37:30,040 --> 00:37:27,080

to permeate the North American market

817

00:37:32,050 --> 00:37:30,050

and secondly the kind of testing that is

818

00:37:34,450 --> 00:37:32,060

now required in the European Union is

819

00:37:36,620 --> 00:37:34,460

still much lesser than the kind of

820

00:37:40,850 --> 00:37:36,630

testing than the Canadian X

821

00:37:43,370 --> 00:37:40,860

it's stated is necessary so that report

822

00:37:45,890 --> 00:37:43,380

which has never been revised nor

823

00:37:50,270 --> 00:37:45,900

retracted is still as relevant today as

824

00:37:51,320 --> 00:37:50,280

it was back in 2001 and so that's a very

825

00:37:53,600 --> 00:37:51,330

important point

826

00:37:57,350 --> 00:37:53,610

also the Public Health Association of

827

00:37:59,600 --> 00:37:57,360

Australia beginning in 2000 was coming

828

00:38:02,180 --> 00:37:59,610

out with many cautionary statements

829

00:38:04,720 --> 00:38:02,190

about the risks of GM foods strongly

830

00:38:08,240 --> 00:38:04,730

criticizing the regulatory framework and

831

00:38:10,280 --> 00:38:08,250

most recently in 2016 their policy

832

00:38:13,910 --> 00:38:10,290

statement on genetically engineered

833

00:38:17,270 --> 00:38:13,920

foods called for an immediate freeze on

834

00:38:19,010 --> 00:38:17,280

the importation or planting or marketing

835

00:38:22,130 --> 00:38:19,020

of genetically engineered foods until

836

00:38:25,160 --> 00:38:22,140

each one of them has been demonstrated

837

00:38:28,010 --> 00:38:25,170

to be safe through long-term testing

838

00:38:31,130 --> 00:38:28,020

performed independently of the industry

839

00:38:34,790 --> 00:38:31,140

well that standard has not been met

840

00:38:38,360 --> 00:38:34,800

at all and British Medical Association

841

00:38:41,450 --> 00:38:38,370

is also I issued cautionary statements

842

00:38:44,240 --> 00:38:41,460

so and other organizations as well the

843

00:38:47,270 --> 00:38:44,250

Academy of environmental medicine so

844

00:38:50,150 --> 00:38:47,280

again a very these claims that the

845

00:38:52,340 --> 00:38:50,160

consensus about scientific consensus

846

00:38:54,140 --> 00:38:52,350

about genetically engineered foods is on

847

00:38:57,680 --> 00:38:54,150

a par with the scientific consensus

848

00:38:59,600 --> 00:38:57,690

regarding climate change false and there

849

00:39:01,010 --> 00:38:59,610

never has been a scientific consensus

850

00:39:03,140 --> 00:39:01,020

about safety of the genetically

851

00:39:05,540 --> 00:39:03,150

engineered foods so that's very

852

00:39:09,140 --> 00:39:05,550

important to know and that's one of the

853

00:39:11,480 --> 00:39:09,150

major falsehoods that I come up against

854

00:39:13,240 --> 00:39:11,490

all the time and most of your listeners

855

00:39:15,500 --> 00:39:13,250

have probably heard that as well and

856

00:39:17,630 --> 00:39:15,510

most commentators in the mainstream

857

00:39:20,630 --> 00:39:17,640

media believe that they've been led to

858

00:39:22,460 --> 00:39:20,640

believe that's the case another major

859

00:39:23,930 --> 00:39:22,470

falsehood or do you want to interject

860

00:39:26,870 --> 00:39:23,940

something here I've been speaking for

861

00:39:28,940 --> 00:39:26,880

quite a while well I was gonna say that

862

00:39:31,190 --> 00:39:28,950

those are two great ones that I think

863

00:39:33,710 --> 00:39:31,200

everyone's heard and it is so scary that

864

00:39:36,380 --> 00:39:33,720

these things are rubber stamped based on

865

00:39:37,880 --> 00:39:36,390

what you call phantom data and then

866

00:39:40,880 --> 00:39:37,890

dumped on the market without any

867

00:39:42,590 --> 00:39:40,890

tracking or accountability and we really

868

00:39:45,490 --> 00:39:42,600

can't get the toothpaste back in the

869

00:39:48,230 --> 00:39:45,500

tube when I was going to bring up was

870

00:39:50,010 --> 00:39:48,240

something I often hear trying to paint

871

00:39:52,080 --> 00:39:50,020

Monsanto as the hero of this

872

00:39:54,900 --> 00:39:52,090

story is that we need this technology

873

00:39:57,270 --> 00:39:54,910

for drought-tolerant or pest resistant

874

00:40:00,060 --> 00:39:57,280

crops to feed the world's growing

875

00:40:03,680 --> 00:40:00,070

population that it's a necessary evil

876

00:40:07,080 --> 00:40:03,690

and this is a bit of a myth that seems

877

00:40:10,680 --> 00:40:07,090

yeah it's more than a myth again that

878

00:40:14,370 --> 00:40:10,690

flies in the face of so many facts for

879

00:40:18,720 --> 00:40:14,380

instance one of the major studies that

880

00:40:21,750 --> 00:40:18,730

actually studied what is needed to meet

881

00:40:27,180 --> 00:40:21,760

the world's food needs during the next

882

00:40:30,180 --> 00:40:27,190

50 years was co-sponsored by the World

883

00:40:32,070 --> 00:40:30,190

Bank and for United Nations agencies so

884

00:40:35,520 --> 00:40:32,080

those are hardly radical anti

885

00:40:38,070 --> 00:40:35,530

technological agencies it was a four

886

00:40:40,920 --> 00:40:38,080

year study it was conducted by more than

887

00:40:43,500 --> 00:40:40,930

400 experts from 80 countries and has

888

00:40:45,690 --> 00:40:43,510

been endorsed by 58 governments it is

889

00:40:47,850 --> 00:40:45,700

called the International assessment of

890

00:40:51,420 --> 00:40:47,860

agricultural knowledge science and

891

00:40:53,850 --> 00:40:51,430

technology for development and its

892

00:40:56,070 --> 00:40:53,860

assessment of genetic engineering flew

893

00:40:59,070 --> 00:40:56,080

in the face of the promotional claims

894

00:41:01,140 --> 00:40:59,080

that you just stated Greg by concluding

895

00:41:03,210 --> 00:41:01,150

that genetic engineering is not

896

00:41:06,690 --> 00:41:03,220

essential for solving the problem of

897

00:41:09,240 --> 00:41:06,700

hunger now they did endorse the experts

898

00:41:11,400 --> 00:41:09,250

who wrote that report did endorse a

899

00:41:13,020 --> 00:41:11,410

different approach they called for the

900

00:41:15,210 --> 00:41:13,030

development of what they would they

901
00:41:17,850 --> 00:41:15,220
termed agro ecological methods of

902
00:41:20,730 --> 00:41:17,860
production those methods require fewer

903
00:41:23,490 --> 00:41:20,740
inputs they can serve resources they

904
00:41:26,520 --> 00:41:23,500
preserve the soil those methods are

905
00:41:30,510 --> 00:41:26,530
generally either organic or near organic

906
00:41:33,510 --> 00:41:30,520
they do not rely on GMOs they don't rely

907
00:41:37,050 --> 00:41:33,520
on the pesticides that are required by

908
00:41:40,020 --> 00:41:37,060
so many of the GMO crops they increase

909
00:41:43,020 --> 00:41:40,030
yields better than GMOs have been shown

910
00:41:44,610 --> 00:41:43,030
to do and they also build pest

911
00:41:47,820 --> 00:41:44,620
protection but through natural means

912
00:41:49,800 --> 00:41:47,830
that do not create harm to the farmers

913
00:41:51,990 --> 00:41:49,810

or the ultimate consumer or the

914

00:41:55,250 --> 00:41:52,000

environment they induce harder your

915

00:41:58,350 --> 00:41:55,260

crops than greater soil fertility and

916

00:42:00,480 --> 00:41:58,360

when the head of that report was asked

917

00:42:01,799 --> 00:42:00,490

at the press conference of witches it

918

00:42:04,589 --> 00:42:01,809

was announced so he

919

00:42:07,410 --> 00:42:04,599

see any role for genetic engineering in

920

00:42:10,469 --> 00:42:07,420

meeting the world's future food needs

921

00:42:14,640 --> 00:42:10,479

he stated well the the Frank answer is

922

00:42:18,359 --> 00:42:14,650

no so and the deputy director of that

923

00:42:21,209 --> 00:42:18,369

gave the same negative answer so again

924

00:42:24,299 --> 00:42:21,219

the proponents never mentioned that

925

00:42:27,539 --> 00:42:24,309

study in fact the United States at

926
00:42:29,249 --> 00:42:27,549
Monsanto industry was involved in that -

927
00:42:31,739 --> 00:42:29,259
there were industry members when

928
00:42:34,739 --> 00:42:31,749
Monsanto saw that it was going against

929
00:42:37,410 --> 00:42:34,749
them they pulled out so they could they

930
00:42:40,229 --> 00:42:37,420
could attack it but as I mentioned there

931
00:42:43,109 --> 00:42:40,239
were there were hundreds of more than

932
00:42:46,349 --> 00:42:43,119
400 experts from 80 countries were

933
00:42:49,259 --> 00:42:46,359
involved in producing that report it was

934
00:42:52,289 --> 00:42:49,269
comprehensive it was thorough but

935
00:42:55,709 --> 00:42:52,299
because it came down with actually a

936
00:42:57,150 --> 00:42:55,719
fact-based judgment on GMOs you don't

937
00:42:59,249 --> 00:42:57,160
hear about it in the mainstream media

938
00:43:01,410 --> 00:42:59,259

it's been pretty much ignored in this

939

00:43:04,949 --> 00:43:01,420

country our government has ignored it

940

00:43:07,019 --> 00:43:04,959

and the proponents of genetic

941

00:43:09,569 --> 00:43:07,029

engineering ignore it which is too bad

942

00:43:13,890 --> 00:43:09,579

and it's in line with many other studies

943

00:43:16,650 --> 00:43:13,900

that show that small-scale farming based

944

00:43:18,890 --> 00:43:16,660

on agro ecological techniques can out

945

00:43:24,109 --> 00:43:18,900

produce large-scale industrial

946

00:43:28,529 --> 00:43:24,119

agriculture even when it uses GMOs hmm

947

00:43:30,390 --> 00:43:28,539

very telling very telling and man this

948

00:43:32,669 --> 00:43:30,400

is just cruising right along I can't

949

00:43:34,469 --> 00:43:32,679

believe it but I wanted to address this

950

00:43:37,499 --> 00:43:34,479

to you it comes up in the book and I'll

951
00:43:39,359 --> 00:43:37,509
just use a quote from you before we do

952
00:43:42,390 --> 00:43:39,369
that I did let me get to one of the

953
00:43:44,669 --> 00:43:42,400
other main falsehoods leaves it is

954
00:43:45,989 --> 00:43:44,679
important undermine and then please get

955
00:43:47,910 --> 00:43:45,999
back to the question you're about to ask

956
00:43:49,769 --> 00:43:47,920
sorry there are J know it's important

957
00:43:51,749 --> 00:43:49,779
circle we keep going I'll forget we

958
00:43:54,749 --> 00:43:51,759
won't get back to this and that's the

959
00:43:56,640 --> 00:43:54,759
claim again which one here's repeated

960
00:43:59,759 --> 00:43:56,650
time and again as if it's a scientific

961
00:44:02,339 --> 00:43:59,769
truth in the mainstream media or in

962
00:44:05,219 --> 00:44:02,349
academic conferences or I get it when I

963
00:44:07,169 --> 00:44:05,229

963
speak at universities and scientists in

964

00:44:11,900 --> 00:44:07,179

the audience want to object they say and

965

00:44:14,789 --> 00:44:11,910

the claim is that there has been no

966

00:44:15,210 --> 00:44:14,799

substantiating evidence of any harm that

967

00:44:17,520 --> 00:44:15,220

has been

968

00:44:21,660 --> 00:44:17,530

caused by any genetically engineered

969

00:44:26,099 --> 00:44:21,670

food and of course we I talked about the

970

00:44:29,220 --> 00:44:26,109

the l-tryptophan incident but if we go

971

00:44:31,290 --> 00:44:29,230

to the genetically engineered crops that

972

00:44:33,870 --> 00:44:31,300

have been introduced there's a claim no

973

00:44:37,230 --> 00:44:33,880

crop no genetically engineered food crop

974

00:44:39,839 --> 00:44:37,240

has ever been shown to have an adverse

975

00:44:44,370 --> 00:44:39,849

effect that's just not true there are

976

00:44:46,370 --> 00:44:44,380

many many sound studies published in the

977

00:44:49,320 --> 00:44:46,380

peer-reviewed scientific literature

978

00:44:52,380 --> 00:44:49,330

documenting harm serious harm in several

979

00:44:54,210 --> 00:44:52,390

cases in laboratory animals that were in

980

00:44:55,950 --> 00:44:54,220

the experimental group that was

981

00:44:57,599 --> 00:44:55,960

unfortunate enough to be fed the

982

00:44:59,760 --> 00:44:57,609

genetically engineered food instead of

983

00:45:02,370 --> 00:44:59,770

the conventional food and that's why

984

00:45:04,589 --> 00:45:02,380

these experiments are done because if

985

00:45:06,120 --> 00:45:04,599

there are problems for the animals then

986

00:45:10,200 --> 00:45:06,130

the food's not supposed to get on the

987

00:45:12,500 --> 00:45:10,210

market until changes are made or you

988

00:45:16,680 --> 00:45:12,510

know we can show that those problems

989

00:45:19,109 --> 00:45:16,690

were in fact not related to the food but

990

00:45:20,880 --> 00:45:19,119

what time it again happens is the

991

00:45:23,550 --> 00:45:20,890

proponents of genetically engineered

992

00:45:25,290 --> 00:45:23,560

food and this includes eminent

993

00:45:28,470 --> 00:45:25,300

scientists and scientific Accor ghen is

994

00:45:31,260 --> 00:45:28,480

a shion's ignore that data and they make

995

00:45:34,020 --> 00:45:31,270

this claim and then they all start

996

00:45:36,030 --> 00:45:34,030

reciting one another's claims and they

997

00:45:37,950 --> 00:45:36,040

act as if it's true now there's an old

998

00:45:40,349 --> 00:45:37,960

saying if you repeat a lie long enough

999

00:45:42,270 --> 00:45:40,359

people start believing it's true if you

1000

00:45:45,000 --> 00:45:42,280

keep repeating it that's what they're

1001
00:45:48,150 --> 00:45:45,010
doing and yet they're ignoring the data

1002
00:45:49,770 --> 00:45:48,160
but it is just a falsehood to state that

1003
00:45:51,599 --> 00:45:49,780
there's been no evidence that any

1004
00:45:54,510 --> 00:45:51,609
genetically engineered food has caused

1005
00:45:58,500 --> 00:45:54,520
harm there's abundant evidence of that

1006
00:46:01,620 --> 00:45:58,510
and many of the studies that claim that

1007
00:46:03,960 --> 00:46:01,630
a GMO food didn't cause harm have been

1008
00:46:06,990 --> 00:46:03,970
shoddy studies that were not conducted

1009
00:46:09,450 --> 00:46:07,000
with the same level of rigor as many of

1010
00:46:12,720 --> 00:46:09,460
the studies that did show harm so it's

1011
00:46:15,750 --> 00:46:12,730
very important that we understand what

1012
00:46:18,839 --> 00:46:15,760
the data does show and that these claims

1013
00:46:21,120 --> 00:46:18,849

of no harm has been documented are

1014

00:46:23,910 --> 00:46:21,130

exposed for the falsehoods that they are

1015

00:46:24,750 --> 00:46:23,920

and just I want to make another point

1016

00:46:26,790 --> 00:46:24,760

before then

1017

00:46:28,710 --> 00:46:26,800

you can ask that question you were about

1018

00:46:31,530 --> 00:46:28,720

to do when I interrupted you and that is

1019

00:46:37,200 --> 00:46:31,540

that one of the key points of my book is

1020

00:46:38,940 --> 00:46:37,210

that the main misrepresentations that

1021

00:46:42,720 --> 00:46:38,950

have enabled the genetically engineered

1022

00:46:45,510 --> 00:46:42,730

food venture to not only advance but

1023

00:46:48,960 --> 00:46:45,520

actually to survive have not come from

1024

00:46:52,590 --> 00:46:48,970

Monsanto and DuPont and Syngenta they

1025

00:46:55,740 --> 00:46:52,600

have come from regulatory agencies like

1026
00:46:59,970 --> 00:46:55,750
the FDA or Canada's food regulatory

1027
00:47:02,880 --> 00:46:59,980
agency or from and from the scientific

1028
00:47:04,890 --> 00:47:02,890
establishment from respected elements of

1029
00:47:08,210 --> 00:47:04,900
the scientific establishment be they

1030
00:47:10,140 --> 00:47:08,220
university side by ologists or

1031
00:47:11,730 --> 00:47:10,150
organizations like the American

1032
00:47:14,160 --> 00:47:11,740
Association for the Advancement of

1033
00:47:16,620 --> 00:47:14,170
science or the National Academy of

1034
00:47:18,210 --> 00:47:16,630
Science and I know that's hard for a lot

1035
00:47:21,410 --> 00:47:18,220
of people to get their heads around how

1036
00:47:23,790 --> 00:47:21,420
could the National Academy of Science be

1037
00:47:25,620 --> 00:47:23,800
misrepresenting facts how could they be

1038
00:47:28,020 --> 00:47:25,630

trying to suppress evidence and confuse

1039

00:47:31,260 --> 00:47:28,030

the public unfortunately that's happened

1040

00:47:33,090 --> 00:47:31,270

that has been happening and consistently

1041

00:47:35,880 --> 00:47:33,100

through the National Academy of Science

1042

00:47:37,860 --> 00:47:35,890

in my book documents that it's a sorry

1043

00:47:40,590 --> 00:47:37,870

state of affairs I wish it were

1044

00:47:43,620 --> 00:47:40,600

otherwise but it's not and my book

1045

00:47:47,580 --> 00:47:43,630

documents documents that sorry state of

1046

00:47:49,380 --> 00:47:47,590

reality yes yes very important point I'm

1047

00:47:50,850 --> 00:47:49,390

really glad you mentioned that and that

1048

00:47:52,920 --> 00:47:50,860

we squeeze it into the first hour

1049

00:47:55,290 --> 00:47:52,930

because that's a real aspect that I

1050

00:47:57,240 --> 00:47:55,300

found super interesting because I have a

1051

00:47:59,580 --> 00:47:57,250

tendency to always go to the

1052

00:48:01,830 --> 00:47:59,590

corporation's DuPont Monsanto Bayer

1053

00:48:03,600 --> 00:48:01,840

because they're the producers and

1054

00:48:06,000 --> 00:48:03,610

they're also the profit ears and

1055

00:48:07,950 --> 00:48:06,010

honestly it's hard to parse completely

1056

00:48:10,050 --> 00:48:07,960

when they have so many executives going

1057

00:48:12,030 --> 00:48:10,060

back and forth between corporations and

1058

00:48:14,480 --> 00:48:12,040

government but that's an interesting

1059

00:48:16,380 --> 00:48:14,490

thing you bring up that the most serious

1060

00:48:18,690 --> 00:48:16,390

misrepresentations actually come from

1061

00:48:21,240 --> 00:48:18,700

the scientific institutions it's odd

1062

00:48:23,790 --> 00:48:21,250

because we know what Monsanto's

1063

00:48:26,670 --> 00:48:23,800

incentive would be to lie it'd be money

1064

00:48:30,390 --> 00:48:26,680

but what are the motivations from the

1065

00:48:32,570 --> 00:48:30,400

scientific institutions okay and if

1066

00:48:35,490 --> 00:48:32,580

again it's important to point out

1067

00:48:37,260 --> 00:48:35,500

Monsanto and many manufacturers have

1068

00:48:40,020 --> 00:48:37,270

been behaving very badly

1069

00:48:42,210 --> 00:48:40,030

it's just if the sides of the community

1070

00:48:43,950 --> 00:48:42,220

did not back them up if the sides of

1071

00:48:46,290 --> 00:48:43,960

community actually exposed the

1072

00:48:48,540 --> 00:48:46,300

falsehoods for what they are as the

1073

00:48:50,910 --> 00:48:48,550

Excite if a' community has been doing

1074

00:48:53,330 --> 00:48:50,920

admirably in the case of climate change

1075

00:48:55,890 --> 00:48:53,340

they've been exposing the

1076
00:48:58,890 --> 00:48:55,900
misrepresentations of the fossil fuel

1077
00:49:02,250 --> 00:48:58,900
industry and the other industries that

1078
00:49:04,260 --> 00:49:02,260
are you know threatened by by exposing

1079
00:49:06,300 --> 00:49:04,270
the facts of climate change but it's

1080
00:49:09,150 --> 00:49:06,310
very different unfortunately in the case

1081
00:49:11,730 --> 00:49:09,160
of GMOs and that's why it's so dangerous

1082
00:49:14,430 --> 00:49:11,740
the GMO juggernaut because you've got

1083
00:49:16,830 --> 00:49:14,440
the scientific establishment aligned

1084
00:49:19,590 --> 00:49:16,840
with the major corporations so it's

1085
00:49:22,340 --> 00:49:19,600
scaring what is their motivation well

1086
00:49:26,100 --> 00:49:22,350
they're mixed motivations as my book

1087
00:49:27,870 --> 00:49:26,110
documents many many scientists who are

1088
00:49:30,900 --> 00:49:27,880

members of the National Academy of

1089

00:49:34,170 --> 00:49:30,910

Sciences or on important have important

1090

00:49:36,540 --> 00:49:34,180

positions do have financial conflicts of

1091

00:49:39,900 --> 00:49:36,550

interests because with the advent of

1092

00:49:42,599 --> 00:49:39,910

genetic engineering by biologists were

1093

00:49:44,760 --> 00:49:42,609

able to patent you know gene this gene

1094

00:49:49,349 --> 00:49:44,770

or that gene this kind of changed this

1095

00:49:52,470 --> 00:49:49,359

this crop and so then they get a

1096

00:49:55,620 --> 00:49:52,480

financial stake in a biotech company or

1097

00:49:58,470 --> 00:49:55,630

that way or if not through ownership

1098

00:50:02,490 --> 00:49:58,480

then they can get lucrative consulting

1099

00:50:05,340 --> 00:50:02,500

contracts and this has happened too but

1100

00:50:07,050 --> 00:50:05,350

there are cases of many cases in which

1101

00:50:10,380 --> 00:50:07,060

scientists do not appear to have any

1102

00:50:12,599 --> 00:50:10,390

financial conflict of interest but they

1103

00:50:14,640 --> 00:50:12,609

still are pushing GMOs and I've lost

1104

00:50:17,040 --> 00:50:14,650

sight of of ethics that have actually

1105

00:50:21,000 --> 00:50:17,050

been acting as spin doctors and

1106

00:50:23,580 --> 00:50:21,010

sometimes worse and it's difficult to

1107

00:50:25,830 --> 00:50:23,590

understand the psychology my book goes

1108

00:50:28,290 --> 00:50:25,840

into that little but the main thing is

1109

00:50:30,630 --> 00:50:28,300

we don't need to establish motive it's

1110

00:50:32,220 --> 00:50:30,640

not like trying to establish that

1111

00:50:34,500 --> 00:50:32,230

somebody's guilty of first-degree murder

1112

00:50:36,660 --> 00:50:34,510

where you have to show they their state

1113

00:50:38,490 --> 00:50:36,670

of mind they you know premeditated I

1114

00:50:40,380 --> 00:50:38,500

don't have to show the state of mind of

1115

00:50:43,349 --> 00:50:40,390

any scientists all I have to show is

1116

00:50:45,480 --> 00:50:43,359

their statements that are contradicted

1117

00:50:49,530 --> 00:50:45,490

by hard evidence ok

1118

00:50:50,730 --> 00:50:49,540

so I've shown that in the book so their

1119

00:50:53,040 --> 00:50:50,740

motivation is it

1120

00:50:54,420 --> 00:50:53,050

elephant for that's point but obviously

1121

00:50:57,690 --> 00:50:54,430

we want to know how could it have

1122

00:51:00,420 --> 00:50:57,700

happened and a lot of it is arrogance I

1123

00:51:03,480 --> 00:51:00,430

believe a lot of it is scientists

1124

00:51:06,380 --> 00:51:03,490

thinking we know better we can do this

1125

00:51:09,570 --> 00:51:06,390

and feeling somehow invested

1126

00:51:12,240 --> 00:51:09,580

psychologically in this venture because

1127

00:51:15,750 --> 00:51:12,250

remember in climate change they're not

1128

00:51:17,960 --> 00:51:15,760

invested in in it except maybe a few

1129

00:51:21,540 --> 00:51:17,970

scientists who might be have by now

1130

00:51:23,460 --> 00:51:21,550

invested in you know solar energy or

1131

00:51:25,290 --> 00:51:23,470

something but what I'm saying is the

1132

00:51:28,380 --> 00:51:25,300

climate scientists the people doing

1133

00:51:32,490 --> 00:51:28,390

climate science you know they're just

1134

00:51:35,250 --> 00:51:32,500

trying to act as scientists and they're

1135

00:51:38,130 --> 00:51:35,260

not pushing a technology whereas genetic

1136

00:51:41,580 --> 00:51:38,140

engineering became identified as this

1137

00:51:44,160 --> 00:51:41,590

great scientific revolution and I think

1138

00:51:46,620 --> 00:51:44,170

to that extent scientists then were made

1139

00:51:49,170 --> 00:51:46,630

to feel that they have to stand up and

1140

00:51:50,850 --> 00:51:49,180

defend it and there's been a lot of

1141

00:51:53,520 --> 00:51:50,860

propaganda going around that have

1142

00:51:55,410 --> 00:51:53,530

convinced scientists of that and it's

1143

00:51:58,170 --> 00:51:55,420

difficult to fight back against it

1144

00:52:00,660 --> 00:51:58,180

because they think that there's some

1145

00:52:04,290 --> 00:52:00,670

equation between defending GMOs and

1146

00:52:07,080 --> 00:52:04,300

defending science and that does not

1147

00:52:09,720 --> 00:52:07,090

happen in fact if science were truly

1148

00:52:12,660 --> 00:52:09,730

being defended in this issue if the

1149

00:52:15,000 --> 00:52:12,670

facts had actually been told and have

1150

00:52:17,790 --> 00:52:15,010

been fully and truthfully communicated

1151
00:52:19,890 --> 00:52:17,800
and if good scientific research had been

1152
00:52:22,260 --> 00:52:19,900
performed and if the good research that

1153
00:52:25,230 --> 00:52:22,270
has been performed hadn't been trashed

1154
00:52:26,730 --> 00:52:25,240
out or suppressed Jeannette Leonard

1155
00:52:28,770 --> 00:52:26,740
foods couldn't have been on the market

1156
00:52:30,990 --> 00:52:28,780
today we wouldn't really be I wouldn't

1157
00:52:34,530 --> 00:52:31,000
have had to write the book and that is a

1158
00:52:36,150 --> 00:52:34,540
problem and that is why one of the

1159
00:52:38,280 --> 00:52:36,160
eminent biologists the wrote a very

1160
00:52:41,070 --> 00:52:38,290
strong recommendation for my book

1161
00:52:44,040 --> 00:52:41,080
Philip regal stated that what my book

1162
00:52:46,830 --> 00:52:44,050
shows is that what's at stake is not

1163
00:52:49,230 --> 00:52:46,840

only the safety of our food but the

1164

00:52:51,599 --> 00:52:49,240

future of science itself science has

1165

00:52:55,410 --> 00:52:51,609

become corrupted to a very large extent

1166

00:52:57,960 --> 00:52:55,420

and it has to stop and so I always am

1167

00:52:59,640 --> 00:52:57,970

amused when if I speak at a at a

1168

00:53:01,230 --> 00:52:59,650

university and somebody from the

1169

00:53:03,210 --> 00:53:01,240

audience tries to accused me of being

1170

00:53:04,109 --> 00:53:03,220

anti science and that said I'm trying to

1171

00:53:05,640 --> 00:53:04,119

defend

1172

00:53:08,069 --> 00:53:05,650

are you saying that by trying to bring

1173

00:53:10,140 --> 00:53:08,079

out the facts I'm somehow assaulting

1174

00:53:12,210 --> 00:53:10,150

science that's oh that's a sorry state

1175

00:53:14,849 --> 00:53:12,220

of affairs if somebody who's trying to

1176

00:53:16,980 --> 00:53:14,859

bring out the facts is actually accused

1177

00:53:20,730 --> 00:53:16,990

of being anti science because science

1178

00:53:23,400 --> 00:53:20,740

has to be you can't represent science if

1179

00:53:26,430 --> 00:53:23,410

you're misrepresenting the facts yes

1180

00:53:29,779 --> 00:53:26,440

cheers to that that's a definitely a

1181

00:53:32,029 --> 00:53:29,789

theme around here and blind trust in

1182

00:53:34,920 --> 00:53:32,039

scientific authorities is an issue

1183

00:53:39,420 --> 00:53:34,930

surfacing in many sectors as that quote

1184

00:53:40,740 --> 00:53:39,430

you just read is indicating and I'm glad

1185

00:53:42,539 --> 00:53:40,750

we took the time to get a couple more

1186

00:53:45,630 --> 00:53:42,549

arguments out there because helping

1187

00:53:48,059 --> 00:53:45,640

people have the conversation and have

1188

00:53:51,509 --> 00:53:48,069

convincing arguments and truths in their

1189

00:53:53,940 --> 00:53:51,519

arsenal is very important because it's

1190

00:53:57,359 --> 00:53:53,950

not enough to just be right we have to

1191

00:54:00,150 --> 00:53:57,369

be persuasive as well so I think all

1192

00:54:02,190 --> 00:54:00,160

that is great context and before I let

1193

00:54:05,460 --> 00:54:02,200

you go what is next for you are you

1194

00:54:08,039 --> 00:54:05,470

working on other litigation other books

1195

00:54:09,410 --> 00:54:08,049

any other activist projects on this

1196

00:54:12,900 --> 00:54:09,420

particular subject

1197

00:54:14,849 --> 00:54:12,910

well not other a litigation at this

1198

00:54:15,630 --> 00:54:14,859

point although many people have urged me

1199

00:54:19,859 --> 00:54:15,640

to do that

1200

00:54:22,589 --> 00:54:19,869

my main focus has been on trying to get

1201
00:54:25,799 --> 00:54:22,599
key people in the academic community or

1202
00:54:28,589 --> 00:54:25,809
the regulatory committee community or

1203
00:54:32,009 --> 00:54:28,599
you know the the intelligentsia to

1204
00:54:34,890 --> 00:54:32,019
understand the facts and meeting with

1205
00:54:38,309 --> 00:54:34,900
people and giving talks at universities

1206
00:54:41,160 --> 00:54:38,319
and at conferences and there are some

1207
00:54:43,529 --> 00:54:41,170
very hopeful developments on the horizon

1208
00:54:45,569 --> 00:54:43,539
I can't discuss them right now but some

1209
00:54:48,960 --> 00:54:45,579
things that could make major turnarounds

1210
00:54:51,120 --> 00:54:48,970
and so I'm hopeful I'm also hopeful that

1211
00:54:53,460 --> 00:54:51,130
many of the people listen now will want

1212
00:54:56,099 --> 00:54:53,470
to arm themselves with the evidence so

1213
00:54:58,230 --> 00:54:56,109

that they can be stronger when they get

1214

00:55:01,009 --> 00:54:58,240

into debates and arguments with Uncle

1215

00:55:03,299 --> 00:55:01,019

Fred or some cousin who's about you know

1216

00:55:06,329 --> 00:55:03,309

biologists at some University and they

1217

00:55:09,569 --> 00:55:06,339

because my book is really a great

1218

00:55:13,650 --> 00:55:09,579

resource filled with facts and not my

1219

00:55:16,350 --> 00:55:13,660

opinion but solid facts and opinions of

1220

00:55:19,280 --> 00:55:16,360

eminent scientific organizations

1221

00:55:21,630 --> 00:55:19,290

the opinions of the FDA's scientists and

1222

00:55:23,700 --> 00:55:21,640

so I hope that more people will read it

1223

00:55:26,610 --> 00:55:23,710

too because everybody has influence and

1224

00:55:28,590 --> 00:55:26,620

the more people that know the facts then

1225

00:55:30,300 --> 00:55:28,600

they have their influence spreads and

1226

00:55:34,350 --> 00:55:30,310

eventually we're gonna reach a tipping

1227

00:55:37,650 --> 00:55:34,360

point where the truth will triumph here

1228

00:55:39,630 --> 00:55:37,660

here and it is the family holiday season

1229

00:55:42,150 --> 00:55:39,640

after all so important to keep these

1230

00:55:44,580 --> 00:55:42,160

things in mind well thanks a lot

1231

00:55:47,250 --> 00:55:44,590

this has been really wonderful please

1232

00:55:49,050 --> 00:55:47,260

leave the people with links or social

1233

00:55:51,140 --> 00:55:49,060

media info or anything else they should

1234

00:55:53,550 --> 00:55:51,150

know about following up on your work

1235

00:55:56,790 --> 00:55:53,560

okay well again the name of the book is

1236

00:55:58,740 --> 00:55:56,800

altered genes twisted truth Jane Goodall

1237

00:56:00,180 --> 00:55:58,750

wrote the foreword in which he states is

1238

00:56:02,670 --> 00:56:00,190

one of the most important books in the

1239

00:56:04,230 --> 00:56:02,680

last 50 years and there are many

1240

00:56:05,910 --> 00:56:04,240

endorsements of other scientists

1241

00:56:09,210 --> 00:56:05,920

appraising the book's solidity and

1242

00:56:12,060 --> 00:56:09,220

importance the website of the Alliance

1243

00:56:18,410 --> 00:56:12,070

for BA integrity I has a lot of good

1244

00:56:23,150 --> 00:56:18,420

information WWB Oh integrity o RG bi o

1245

00:56:27,330 --> 00:56:23,160

integrity dot o-r-g and you can read

1246

00:56:30,570 --> 00:56:27,340

copies of 24 the FDA's key memos up on

1247

00:56:34,220 --> 00:56:30,580

that website also the book has a website

1248

00:56:36,630 --> 00:56:34,230

altered genes twisted truth calm and

1249

00:56:40,530 --> 00:56:36,640

there's some more information there too

1250

00:56:43,020 --> 00:56:40,540

and the book should be available at

1251
00:56:48,030 --> 00:56:43,030
bookstores it's also of course available

1252
00:56:50,550 --> 00:56:48,040
online and again I leave you with what I

1253
00:56:54,510 --> 00:56:50,560
think is a hopeful message and that is

1254
00:56:57,750 --> 00:56:54,520
that I want science to prevail on this I

1255
00:56:59,460 --> 00:56:57,760
want the facts to prevail and if that if

1256
00:57:02,400 --> 00:56:59,470
those things happen if the science

1257
00:57:05,070 --> 00:57:02,410
prevails that the facts prevail then the

1258
00:57:07,500 --> 00:57:05,080
problems of genetically engineering the

1259
00:57:10,950 --> 00:57:07,510
problems of the GMO venture will vanish

1260
00:57:13,890 --> 00:57:10,960
very quickly so again there should not

1261
00:57:17,190 --> 00:57:13,900
be a perceived dichotomy between science

1262
00:57:19,920 --> 00:57:17,200
and concerns about GMOs because the more

1263
00:57:22,890 --> 00:57:19,930

people understand science and understand

1264

00:57:24,960 --> 00:57:22,900

the facts then the greater reason there

1265

00:57:28,740 --> 00:57:24,970

is to have concerns about the risks of

1266

00:57:32,230 --> 00:57:28,750

GMOs agreed well said

1267

00:57:34,390 --> 00:57:32,240

amazing work I love the book is great

1268

00:57:36,339 --> 00:57:34,400

talking to you you are the man keep

1269

00:57:39,290 --> 00:57:36,349

fighting the good fight thank you so

1270

00:57:44,610 --> 00:57:42,450

well it's the end of the world as we

1271

00:57:48,840 --> 00:57:44,620

know it and I feel fine

1272

00:57:51,630 --> 00:57:48,850

Steven drew ker hmm powerhouse guest on

1273

00:57:54,500 --> 00:57:51,640

the GMO issue and something we haven't

1274

00:57:57,120 --> 00:57:54,510

talked directly about in some time

1275

00:57:59,610 --> 00:57:57,130

marion Nestle was really great but that

1276
00:58:01,530 --> 00:57:59,620
was more about deceptive corporate food

1277
00:58:04,230 --> 00:58:01,540
marketing and twisted nutritional

1278
00:58:07,860 --> 00:58:04,240
science the last time Joseph Ferrell was

1279
00:58:10,320 --> 00:58:07,870
here we did touch on GMO politics a bit

1280
00:58:12,510 --> 00:58:10,330
in the Plus show but that was more about

1281
00:58:15,330 --> 00:58:12,520
how the confessions of an economic

1282
00:58:17,160 --> 00:58:15,340
hitman template is now being rolled out

1283
00:58:19,950 --> 00:58:17,170
in places that are trying to push back

1284
00:58:22,830 --> 00:58:19,960
against the GMO takeover and are trying

1285
00:58:24,840 --> 00:58:22,840
to preserve their food sovereignty you

1286
00:58:27,870 --> 00:58:24,850
know how it goes they coerced smaller

1287
00:58:30,120 --> 00:58:27,880
nations into predatory loans like their

1288
00:58:32,490 --> 00:58:30,130

naive college freshmen trying to get a

1289

00:58:35,580 --> 00:58:32,500

free frisbee for the tailgate party and

1290

00:58:37,470 --> 00:58:35,590

then when these countries can't pay the

1291

00:58:40,380 --> 00:58:37,480

loans they say hey guys don't worry

1292

00:58:44,010 --> 00:58:40,390

about it just let standard oil drop some

1293

00:58:45,450 --> 00:58:44,020

rigs here and we'll call it a deal which

1294

00:58:47,700 --> 00:58:45,460

is what they really want anyway they

1295

00:58:49,720 --> 00:58:47,710

don't actually just want the loan repaid

1296

00:58:52,120 --> 00:58:49,730

that's no fun

1297

00:58:54,670 --> 00:58:52,130

and of course if these nations resist

1298

00:58:59,050 --> 00:58:54,680

then they send in the riot starter's and

1299

00:59:01,870 --> 00:58:59,060

get a coup d'etat a Bruin and now that's

1300

00:59:03,880 --> 00:59:01,880

going on in places that want to get GMO

1301
00:59:06,460 --> 00:59:03,890
crops out and they want to start organic

1302
00:59:10,660 --> 00:59:06,470
seed banks and all that this is actually

1303
00:59:12,730 --> 00:59:10,670
a very big deal I'm waiting to find the

1304
00:59:15,550 --> 00:59:12,740
book that really drills it all home

1305
00:59:17,560 --> 00:59:15,560
I could see dr. ferral riding it or I

1306
00:59:19,720 --> 00:59:17,570
could see it coming from F William Inge

1307
00:59:21,040 --> 00:59:19,730
doll who wrote seeds of destruction and

1308
00:59:23,800 --> 00:59:21,050
is very knowledgeable about

1309
00:59:27,599 --> 00:59:23,810
international geopolitics but

1310
00:59:31,210 --> 00:59:27,609
nevertheless today was about the very

1311
00:59:32,920 --> 00:59:31,220
foundational question of is this stuff

1312
00:59:35,770 --> 00:59:32,930
really safe because that's where you

1313
00:59:39,849 --> 00:59:35,780

have to start the flow chart you know if

1314

00:59:41,140 --> 00:59:39,859

this GMO agriculture is safe then the

1315

00:59:42,580 --> 00:59:41,150

stuff I just mentioned you know it's

1316

00:59:45,250 --> 00:59:42,590

still about power and money and

1317

00:59:47,890 --> 00:59:45,260

corporate greed but if it's not safe

1318

00:59:51,310 --> 00:59:47,900

it's basically breaking the entire

1319

00:59:53,980 --> 00:59:51,320

ecosystem of the planet and Stephen Drew

1320

00:59:57,520 --> 00:59:53,990

Kerr really brought it big things to him

1321

00:59:59,920 --> 00:59:57,530

I mean he can die happy knowing he made

1322

01:00:03,580 --> 00:59:59,930

a huge impact in getting information

1323

01:00:06,220 --> 01:00:03,590

released from the grips of these shady

1324

01:00:08,710 --> 01:00:06,230

corporations and he's become very

1325

01:00:12,490 --> 01:00:08,720

knowledgeable and he has the scientific

1326

01:00:14,590 --> 01:00:12,500

red flags down really well and a major

1327

01:00:16,780 --> 01:00:14,600

reason I wanted to do this show is

1328

01:00:19,480 --> 01:00:16,790

because I think even I was a little

1329

01:00:23,200 --> 01:00:19,490

swept up in that argument that GMO crops

1330

01:00:24,760 --> 01:00:23,210

in general are safe it's just these ones

1331

01:00:27,700 --> 01:00:24,770

that are made to be resistant to

1332

01:00:29,620 --> 01:00:27,710

glyphosate that are the actual issue and

1333

01:00:32,080 --> 01:00:29,630

I thought of it is one of those

1334

01:00:34,720 --> 01:00:32,090

situations where we have a very acute

1335

01:00:36,910 --> 01:00:34,730

problem and it's hiding under a larger

1336

01:00:38,980 --> 01:00:36,920

terminology that gets everyone mixed up

1337

01:00:42,490 --> 01:00:38,990

because we've seen that tactic before

1338

01:00:45,130 --> 01:00:42,500

too but no it's not just glyphosate

1339

01:00:47,620 --> 01:00:45,140

though that is a huge issue it's

1340

01:00:50,620 --> 01:00:47,630

actually many of these lab altered

1341

01:00:53,830 --> 01:00:50,630

frankenfoods maybe all of them because

1342

01:00:55,420 --> 01:00:53,840

and I think just filters into ether

1343

01:00:58,090 --> 01:00:55,430

physics and the complexity of our

1344

01:01:00,010 --> 01:00:58,100

holistic system but when you inject

1345

01:01:02,500 --> 01:01:00,020

unknown components into a

1346

01:01:03,579 --> 01:01:02,510

compartmentalized piece of the system

1347

01:01:07,509 --> 01:01:03,589

say a

1348

01:01:10,420 --> 01:01:07,519

tomatoe the organism recognizes

1349

01:01:12,549 --> 01:01:10,430

something foreign and then seems to

1350

01:01:14,709 --> 01:01:12,559

create toxins or puts out an immune

1351

01:01:17,920 --> 01:01:14,719

response it seems to emerge out of

1352

01:01:21,039 --> 01:01:17,930

nowhere I say out of nowhere because it

1353

01:01:24,009 --> 01:01:21,049

seems like they've got the components of

1354

01:01:27,459 --> 01:01:24,019

a tomato mapped out pretty well but even

1355

01:01:30,339 --> 01:01:27,469

they are surprised by where some of this

1356

01:01:32,700 --> 01:01:30,349

emerges from I mean I'm clearly not the

1357

01:01:36,430 --> 01:01:32,710

scientist but what I got out of this

1358

01:01:39,789 --> 01:01:36,440

would say the toxic tryptophan incident

1359

01:01:43,239 --> 01:01:39,799

was that even if you just throw off the

1360

01:01:45,670 --> 01:01:43,249

natural ratios the system tries to

1361

01:01:48,870 --> 01:01:45,680

self-correct and produces things that

1362

01:01:52,239 --> 01:01:48,880

are unexpected and harmful to consume

1363

01:01:54,700 --> 01:01:52,249

well why is it doing that the impression

1364

01:01:56,650 --> 01:01:54,710

I get is that it's trying to attack that

1365

01:01:59,229 --> 01:01:56,660

manipulation because it's not supposed

1366

01:02:00,729 --> 01:01:59,239

to be there so I'd hate to throw out the

1367

01:02:04,420 --> 01:02:00,739

baby with the bathwater and all that

1368

01:02:08,650 --> 01:02:04,430

stuff but it seems like I've seen enough

1369

01:02:11,469 --> 01:02:08,660

examples to just say don't do it even

1370

01:02:13,390 --> 01:02:11,479

something as simple as a fruit is not

1371

01:02:16,450 --> 01:02:13,400

like a car where you can just switch out

1372

01:02:19,120 --> 01:02:16,460

parts and I say it relates to either

1373

01:02:21,459 --> 01:02:19,130

physics or even spirituality because I

1374

01:02:23,799 --> 01:02:21,469

get this hunch that part of the issue is

1375

01:02:26,259 --> 01:02:23,809

that everything is connected at levels

1376

01:02:28,299 --> 01:02:26,269

of existence that we don't see or even

1377

01:02:31,239 --> 01:02:28,309

really acknowledge in the mainstream and

1378

01:02:32,859 --> 01:02:31,249

it's these trains of thought that

1379

01:02:35,799 --> 01:02:32,869

actually do get me thinking about

1380

01:02:37,660 --> 01:02:35,809

biblical stories like the flood sure

1381

01:02:40,450 --> 01:02:37,670

these stories have been used and tweaked

1382

01:02:42,160 --> 01:02:40,460

for maximum control effort and maybe

1383

01:02:44,829 --> 01:02:42,170

they were made up out of whole cloth too

1384

01:02:47,559 --> 01:02:44,839

but I do think it's provocative to look

1385

01:02:49,779 --> 01:02:47,569

at where we are now all our tweaks and

1386

01:02:53,200 --> 01:02:49,789

changes and abuses of the natural order

1387

01:02:55,450 --> 01:02:53,210

and it really is beyond us and when you

1388

01:02:58,859 --> 01:02:55,460

do these things at this insane corporate

1389

01:03:01,479 --> 01:02:58,869

scale they can screw up everything and

1390

01:03:04,200 --> 01:03:01,489

maybe that supreme consciousness and the

1391

01:03:06,609 --> 01:03:04,210

sky does wipe the slate clean and reset

1392

01:03:08,739 --> 01:03:06,619

indigenous cultures talk about appeasing

1393

01:03:11,200 --> 01:03:08,749

or upsetting the gods all the time and

1394

01:03:13,529 --> 01:03:11,210

it's not like the clouds part and raw

1395

01:03:16,849 --> 01:03:13,539

comes down and starts blasting away the

1396

01:03:19,729 --> 01:03:16,859

gods or whatever is out there

1397

01:03:22,549 --> 01:03:19,739

just act through the system they act

1398

01:03:24,549 --> 01:03:22,559

through nature so if the climate does

1399

01:03:28,120 --> 01:03:24,559

turn towards something inhospitable

1400

01:03:33,380 --> 01:03:28,130

something actually hostile to human life

1401

01:03:36,170 --> 01:03:33,390

did we anger god I don't know but for me

1402

01:03:38,150 --> 01:03:36,180

the best context for biblical stories is

1403

01:03:41,029 --> 01:03:38,160

that they are warnings from the last

1404

01:03:42,829 --> 01:03:41,039

time humanity was strained too far from

1405

01:03:45,440 --> 01:03:42,839

the game that this whole thing is set up

1406

01:03:47,779 --> 01:03:45,450

for us to play and then you can factor

1407

01:03:50,630 --> 01:03:47,789

in the jealous angels and spirits

1408

01:03:53,180 --> 01:03:50,640

whispering in the ear of man no it's all

1409

01:03:53,989 --> 01:03:53,190

good this CRISPR technology is going to

1410

01:03:57,410 --> 01:03:53,999

be great

1411

01:03:59,650 --> 01:03:57,420

come on Silicon Valley we can digitize

1412

01:04:03,319 --> 01:03:59,660

the world you know what I'm saying

1413

01:04:05,150 --> 01:04:03,329

they're egging us on and then I start to

1414

01:04:07,309 --> 01:04:05,160

get intrigued by the wisdom in these

1415

01:04:10,279 --> 01:04:07,319

stories that are thousands of years old

1416

01:04:12,620 --> 01:04:10,289

when I look at them as warnings that we

1417

01:04:14,829 --> 01:04:12,630

should enjoy this place but don't go

1418

01:04:17,960 --> 01:04:14,839

tinkering under the hood so much and

1419

01:04:21,440 --> 01:04:17,970

these stories as warnings would not be

1420

01:04:24,559 --> 01:04:21,450

nearly as compelling if tinkering under

1421

01:04:26,539 --> 01:04:24,569

the hood didn't have all these negative

1422

01:04:28,940 --> 01:04:26,549

consequences every time we see it

1423

01:04:32,839 --> 01:04:28,950

you know the stories wouldn't work if

1424

01:04:35,210 --> 01:04:32,849

this wasn't exactly what we're doing

1425

01:04:37,790 --> 01:04:35,220

uh yeah so that was not really what I'd

1426

01:04:39,920 --> 01:04:37,800

planned for this wrap-up but you know

1427

01:04:42,740 --> 01:04:39,930

the larger point I guess to me is that

1428

01:04:46,310 --> 01:04:42,750

we needed a science-based re-examination

1429

01:04:48,980 --> 01:04:46,320

of the GMO issue outside of the context

1430

01:04:52,190 --> 01:04:48,990

of glyphosate and an element of the show

1431

01:04:54,740 --> 01:04:52,200

being the toxic tryptophan incident on

1432

01:04:56,510 --> 01:04:54,750

the weekend of Thanksgiving I mean

1433

01:04:58,970 --> 01:04:56,520

that's just one of those happy accidents

1434

01:05:01,069 --> 01:04:58,980

that you just can't plan I think it

1435

01:05:03,020 --> 01:05:01,079

means we're doing something right but

1436

01:05:05,930 --> 01:05:03,030

anyway I will be honest you know I get

1437

01:05:07,910 --> 01:05:05,940

lazy and I buy regular ass fruits and

1438

01:05:10,190 --> 01:05:07,920

vegetables all the time the organic

1439

01:05:14,510 --> 01:05:10,200

section is often smaller and it's more

1440

01:05:17,599 --> 01:05:14,520

limited and not only right there is that

1441

01:05:20,329 --> 01:05:17,609

a crazy sign that things are in a scary

1442

01:05:23,300 --> 01:05:20,339

place but I'm sure a lot of us are like

1443

01:05:25,370 --> 01:05:23,310

me and we kind of need this reminder to

1444

01:05:28,609 --> 01:05:25,380

push us towards being more vigilant with

1445

01:05:31,220 --> 01:05:28,619

our choices another good example is

1446

01:05:34,040 --> 01:05:31,230

aluminum we've heard how the aluminum

1447

01:05:37,010 --> 01:05:34,050

content of Alzheimer's sufferers brains

1448

01:05:40,099 --> 01:05:37,020

is off the charts so I started trying to

1449

01:05:43,069 --> 01:05:40,109

avoid it in all areas of life and it

1450

01:05:45,410 --> 01:05:43,079

didn't last long because well when I get

1451

01:05:49,099 --> 01:05:45,420

out there with the boys doing man [h__h]

1452

01:05:51,829 --> 01:05:49,109

like golf or softball you can't take

1453

01:05:54,490 --> 01:05:51,839

glass bottles out there so if you want

1454

01:05:57,290 --> 01:05:54,500

to drink you're drinking from cans and

1455

01:05:59,480 --> 01:05:57,300

then I do a little research on kegs

1456

01:06:02,329 --> 01:05:59,490

because I'm thinking oh I'll just drink

1457

01:06:04,220 --> 01:06:02,339

draft beers and I find out they're not

1458

01:06:07,250 --> 01:06:04,230

all stainless steel a lot of them are

1459

01:06:09,380 --> 01:06:07,260

aluminum - and since San Diego is the

1460

01:06:12,079 --> 01:06:09,390

microbrew capital of these here United

1461

01:06:14,930 --> 01:06:12,089

States I'm sure a lot of the smaller

1462

01:06:17,260 --> 01:06:14,940

brands are using aluminum and I'm not

1463

01:06:20,420 --> 01:06:17,270

going to be that guy at the bar asking

1464

01:06:22,040 --> 01:06:20,430

does belching beaver use aluminum kegs

1465

01:06:23,790 --> 01:06:22,050

or stainless steel can you check on that

1466

01:06:25,830 --> 01:06:23,800

for me

1467

01:06:28,650 --> 01:06:25,840

it's sad that you can't ask that

1468

01:06:31,260 --> 01:06:28,660

question but you really can't and if

1469

01:06:33,560 --> 01:06:31,270

that wasn't enough we also do a lot of

1470

01:06:35,280 --> 01:06:33,570

potluck dinners with the friend group

1471

01:06:37,650 --> 01:06:35,290

Thanksgiving being one of them

1472

01:06:41,280 --> 01:06:37,660

how much aluminum foil did you see at

1473

01:06:43,680 --> 01:06:41,290

Thanksgiving probably at least some it's

1474

01:06:44,310 --> 01:06:43,690

just [h__h] everywhere guys so what can

1475

01:06:48,060 --> 01:06:44,320

I do

1476

01:06:51,510 --> 01:06:48,070

but acquiesce I just let it go and the

1477

01:06:53,250 --> 01:06:51,520

same thing happens with GMO foods you

1478

01:06:55,230 --> 01:06:53,260

also can't be too vigilant about this

1479

01:06:57,360 --> 01:06:55,240

stuff when you live in a house that has

1480

01:07:00,930 --> 01:06:57,370

Wi-Fi everywhere and you keep a cell

1481

01:07:03,510 --> 01:07:00,940

phone in your pocket it all sucks but

1482

01:07:05,640 --> 01:07:03,520

today was a very useful show about food

1483

01:07:08,390 --> 01:07:05,650

right on the heels of the big food

1484

01:07:11,070 --> 01:07:08,400

holiday and I hope it helped you

1485

01:07:13,460 --> 01:07:11,080

recalibrate your own thoughts on what to

1486

01:07:16,200 --> 01:07:13,470

accept and where to draw the line as

1487

01:07:19,380 --> 01:07:16,210

always I put out the first hour of this

1488

01:07:21,630 --> 01:07:19,390

show for free no breaks no sponsors and

1489

01:07:23,460 --> 01:07:21,640

if you like what I do and how I do it

1490

01:07:26,010 --> 01:07:23,470

you can sign up to be a plus member and

1491

01:07:28,950 --> 01:07:26,020

get a second hour with today's guest and

1492

01:07:30,960 --> 01:07:28,960

every guest today we got a lot deeper

1493

01:07:32,760 --> 01:07:30,970

into some things I was trying to

1494

01:07:35,160 --> 01:07:32,770

actually put into the first hour because

1495

01:07:38,100 --> 01:07:35,170

I thought they were really important but

1496

01:07:39,840 --> 01:07:38,110

Steven kept having added points to make

1497

01:07:43,300 --> 01:07:39,850

which that's great that's a beautiful

1498

01:07:45,480 --> 01:07:43,310

thing it's very important stuff too

1499

01:07:48,070 --> 01:07:45,490

but it just means that even more

1500

01:07:50,250 --> 01:07:48,080

intellectual ammunition can be found in

1501
01:07:53,710 --> 01:07:50,260
the second hour than even I planned for

1502
01:07:55,780 --> 01:07:53,720
and we talked about the lessons learned

1503
01:07:58,420 --> 01:07:55,790
from computer science when it comes to

1504
01:08:00,970 --> 01:07:58,430
altering complex information systems the

1505
01:08:03,640 --> 01:08:00,980
concerning truth about the flavor savor

1506
01:08:05,020 --> 01:08:03,650
tomato I think we've all heard about and

1507
01:08:09,820 --> 01:08:05,030
we did talk about the religious

1508
01:08:12,490 --> 01:08:09,830
arguments against GMOs as well as the

1509
01:08:15,040 --> 01:08:12,500
question of has the current

1510
01:08:17,020 --> 01:08:15,050
administration broken from the previous

1511
01:08:19,300 --> 01:08:17,030
ones in any significant way on this

1512
01:08:22,090 --> 01:08:19,310
issue that's something I like to ask

1513
01:08:25,090 --> 01:08:22,100

because there are so many people swept

1514

01:08:27,460 --> 01:08:25,100

up in Trump mania in the conspiracy

1515

01:08:32,320 --> 01:08:27,470

culture and so when it comes to these

1516

01:08:34,780 --> 01:08:32,330

major issues I'm saying well is this par

1517

01:08:37,360 --> 01:08:34,790

for the course or have we changed

1518

01:08:40,090 --> 01:08:37,370

direction and it seems like on all the

1519

01:08:40,420 --> 01:08:40,100

most important stuff it's stay the

1520

01:08:43,840 --> 01:08:40,430

course

1521

01:08:47,620 --> 01:08:43,850

and the only real swamp draining seems

1522

01:08:51,370 --> 01:08:47,630

to be related to personal tit-for-tat

1523

01:08:53,620 --> 01:08:51,380

[h__h] in the political circus but anyway

1524

01:08:55,599 --> 01:08:53,630

but anyway we also talked about CRISPR

1525

01:08:59,320 --> 01:08:55,609

technology and how Stephen is quite

1526

01:09:02,440 --> 01:08:59,330

concerned about that as well so really

1527

01:09:03,940 --> 01:09:02,450

good show that I'm proud of one that I

1528

01:09:06,010 --> 01:09:03,950

think you could actually share with

1529

01:09:07,960 --> 01:09:06,020

friends and family because we do stay

1530

01:09:08,770 --> 01:09:07,970

very measured and down-to-earth on this

1531

01:09:11,410 --> 01:09:08,780

one you know

1532

01:09:14,230 --> 01:09:11,420

just the facts ma'am yeah and I really

1533

01:09:17,110 --> 01:09:14,240

like Stephens angle that we do have the

1534

01:09:19,690 --> 01:09:17,120

science and the data on our side we all

1535

01:09:23,320 --> 01:09:19,700

want the public perception to match the

1536

01:09:25,840 --> 01:09:23,330

science right well then get on board

1537

01:09:28,030 --> 01:09:25,850

people because it's not the GMO critics

1538

01:09:30,379 --> 01:09:28,040

that are lying to you it's the GMO

1539

01:09:33,410 --> 01:09:30,389

profit ears

1540

01:09:36,649 --> 01:09:33,420

and that's the bottom line because stone

1541

01:09:39,109 --> 01:09:36,659

cold said so I don't know where that

1542

01:09:42,050 --> 01:09:39,119

came from but it is probably a sign that

1543

01:09:43,999 --> 01:09:42,060

I should call it in thanks for listening

1544

01:09:46,039 --> 01:09:44,009

thanks for all the love and support I

1545

01:09:47,840 --> 01:09:46,049

hope you had a good holiday despite the

1546

01:09:50,240 --> 01:09:47,850

poison food and I'll see you next time

1547

01:09:52,579 --> 01:09:50,250

your move gene splicing science

1548

01:09:55,000 --> 01:09:52,589

suppressors frankenfood facilitators and

1549

01:10:02,050 --> 01:09:55,010

ignorant agents of the corporate machine

1550

01:10:08,410 --> 01:10:02,060

your [h__h] have a drink in the smoke

1551

01:10:13,970 --> 01:10:08,420

listen to the cast shiny shiny spotlight

1552

01:10:19,640 --> 01:10:13,980

but criminals on blast the pinstripe man

1553

01:10:23,419 --> 01:10:19,650

of morning and families of Finance do

1554

01:10:28,189 --> 01:10:23,429

Pond Windsor and Rothschild the kids

1555

01:10:31,430 --> 01:10:28,199

don't stand a chance the kids don't the

1556

01:10:35,300 --> 01:10:31,440

kids don't stand the kids don't stand a

1557

01:10:38,330 --> 01:10:35,310

chance I said the kids don't the kids

1558

01:10:43,390 --> 01:10:38,340

don't stand the kids don't stand a

1559

01:10:48,229 --> 01:10:43,400

chance we're looking for the answer to

1560

01:10:53,870 --> 01:10:48,239

questions never asked so we come to the

1561

01:10:58,490 --> 01:10:53,880

car wood for the higher side chat the

1562

01:11:03,280 --> 01:10:58,500

Pinstripe man of morning and families of

1563

01:11:07,939 --> 01:11:03,290

Finance do pawn windsor and Rothschild

1564

01:11:11,390 --> 01:11:07,949

the kids don't stand a chance the kids

1565

01:11:14,810 --> 01:11:11,400

don't the kids don't stand the kids

1566

01:11:18,260 --> 01:11:14,820

don't stand a chance I said the kids

1567

01:11:19,560 --> 01:11:18,270

don't the kids don't stand the kids

1568

01:11:38,850 --> 01:11:19,570

don't stand

1569

01:11:43,530 --> 01:11:38,860

chance involved in shady business we try

1570

01:11:48,750 --> 01:11:43,540

to get a glance we're working on the

1571

01:11:53,089 --> 01:11:48,760

numbers resistance must advance the

1572

01:11:57,540 --> 01:11:53,099

pinstripe man of morning and families of

1573

01:12:02,790 --> 01:11:57,550

Finance DuPont Windsor and Rothschild

1574

01:12:06,240 --> 01:12:02,800

the kids don't stand a chance the kids

1575

01:12:09,660 --> 01:12:06,250

don't the kids don't stand the kids

1576

01:12:13,109 --> 01:12:09,670

don't stand a chance I said the kids

1577

01:12:17,879 --> 01:12:13,119

don't the kids don't stand the kids

1578

01:12:21,149 --> 01:12:17,889

don't stand a chance the kids don't the

1579

01:12:25,080 --> 01:12:21,159

kids don't stand the kids don't stand a

1580

01:12:27,990 --> 01:12:25,090

chance I said the kids don't the kids