

The Skeptic Zone
Show 369 - 15 Nov 2015



Paris

1
00:00:10,230 --> 00:00:07,990
is an award-winning weekly science show

2
00:00:11,749 --> 00:00:10,240
in french hosted by a bunch of crazy

3
00:00:14,230 --> 00:00:11,759
enthusiasts

4
00:00:16,470 --> 00:00:14,240
we are convinced that the greatest ideas

5
00:00:18,550 --> 00:00:16,480
in science are quite easy to grasp as

6
00:00:21,109 --> 00:00:18,560
long as they're presented with passion

7
00:00:23,590 --> 00:00:21,119
using a vocabulary common to all curious

8
00:00:24,790 --> 00:00:23,600
minds whatever their academic background

9
00:00:26,950 --> 00:00:24,800
if any

10
00:00:28,230 --> 00:00:26,960
we don't understand french yet but it's

11
00:00:29,830 --> 00:00:28,240
never too late

12
00:00:31,669 --> 00:00:29,840
all our stories have a written

13
00:00:33,830 --> 00:00:31,679

transcript on the website and people

14

00:00:36,470 --> 00:00:33,840

from all around the world are using our

15

00:00:39,110 --> 00:00:36,480

content to learn malia's language

16

00:00:41,709 --> 00:00:39,120

our topics range from zero to infinity

17

00:00:43,590 --> 00:00:41,719

from evolution to artificial life from

18

00:00:44,790 --> 00:00:43,600

electromagnetism to the science of

19

00:00:47,350 --> 00:00:44,800

introverts

20

00:00:50,950 --> 00:00:47,360

we just love mathematics science

21

00:00:52,630 --> 00:00:50,960

critical thinking so do you want to join

22

00:00:54,430 --> 00:00:52,640

you can subscribe to the podcast for

23

00:00:57,189 --> 00:00:54,440

free from our website

24

00:00:59,910 --> 00:00:57,199

podcastscience.fm that's in one word you

25

00:01:02,630 --> 00:00:59,920

also find us on itunes and soundcloud

26

00:01:19,429 --> 00:01:02,640

see you soon hopefully at

27

00:01:36,310 --> 00:01:22,070

welcome to the skeptic zone the podcast

28

00:01:40,950 --> 00:01:38,789

hello and welcome to the skeptic zone

29

00:01:43,670 --> 00:01:40,960

bonjour for the

30

00:01:46,389 --> 00:01:43,680

15th of november 2015 richard saunders

31

00:01:48,469 --> 00:01:46,399

here with you from sydney australia

32

00:01:49,990 --> 00:01:48,479

and i don't need to tell you why i

33

00:01:51,670 --> 00:01:50,000

played the promo there for our

34

00:01:54,069 --> 00:01:51,680

colleagues in france of course the whole

35

00:01:56,950 --> 00:01:54,079

world's thinking of

36

00:01:58,310 --> 00:01:56,960

the events in paris over the last 48

37

00:02:00,630 --> 00:01:58,320

hours

38

00:02:02,630 --> 00:02:00,640

and we should also be remembering the

39

00:02:05,350 --> 00:02:02,640

events in beirut and other parts of the

40

00:02:07,590 --> 00:02:05,360

world where similar atrocities

41

00:02:10,229 --> 00:02:07,600

occur

42

00:02:12,150 --> 00:02:10,239

what's the answer

43

00:02:14,070 --> 00:02:12,160

well

44

00:02:16,550 --> 00:02:14,080

i don't know

45

00:02:19,190 --> 00:02:16,560

but i do know

46

00:02:20,550 --> 00:02:19,200

that we must continue our

47

00:02:22,869 --> 00:02:20,560

course of

48

00:02:24,710 --> 00:02:22,879

reason

49

00:02:26,949 --> 00:02:24,720

these problems will one day be confined

50

00:02:28,790 --> 00:02:26,959

to the history books i'm sure but it's

51

00:02:30,470 --> 00:02:28,800

going to take a long time and

52

00:02:33,190 --> 00:02:30,480

the way we're going to get that page in

53

00:02:35,509 --> 00:02:33,200

the history book is if we pursue

54

00:02:37,910 --> 00:02:35,519

slowly and carefully the course of

55

00:02:40,229 --> 00:02:37,920

reason and it's also a sobering thought

56

00:02:41,670 --> 00:02:40,239

to think that uh

57

00:02:43,750 --> 00:02:41,680

quite possibly

58

00:02:45,670 --> 00:02:43,760

some of the people who died in the uh

59

00:02:47,430 --> 00:02:45,680

recent events

60

00:02:49,750 --> 00:02:47,440

especially in uh

61

00:02:51,910 --> 00:02:49,760

in france could well have been skeptics

62

00:02:53,509 --> 00:02:51,920

own listeners but quite frankly i think

63

00:02:55,509 --> 00:02:53,519

i'm really lost for words so we'll

64

00:02:57,509 --> 00:02:55,519

continue on and we'll look at to see

65

00:02:59,030 --> 00:02:57,519

what's coming up on this week's episode

66

00:03:01,670 --> 00:02:59,040

of the skeptic zone we're going to kick

67

00:03:03,830 --> 00:03:01,680

off with heidi robertson the raw skeptic

68

00:03:05,190 --> 00:03:03,840

report heidi is going to be giving us an

69

00:03:06,790 --> 00:03:05,200

update

70

00:03:09,509 --> 00:03:06,800

bringing us up to date

71

00:03:12,470 --> 00:03:09,519

with the report by the senate committee

72

00:03:14,790 --> 00:03:12,480

into no jab no pay

73

00:03:16,630 --> 00:03:14,800

if you remember last week's episode and

74

00:03:19,430 --> 00:03:16,640

if you've stopped laughing from the

75

00:03:22,790 --> 00:03:19,440

antics of those

76
00:03:24,869 --> 00:03:22,800
wacky crazy zany outrageous people on

77
00:03:26,790 --> 00:03:24,879
the anti-vaccination front what's that

78
00:03:28,949 --> 00:03:26,800
expression they only open their mouth to

79
00:03:30,309 --> 00:03:28,959
change feet

80
00:03:32,110 --> 00:03:30,319
well heidi is going to be telling us

81
00:03:34,470 --> 00:03:32,120
what the senate concluded and its

82
00:03:36,789 --> 00:03:34,480
recommendations on this matter and thank

83
00:03:38,710 --> 00:03:36,799
you heidi for all your hard work on this

84
00:03:40,309 --> 00:03:38,720
subject following that it's a weakened

85
00:03:41,830 --> 00:03:40,319
signs from the royal institution of

86
00:03:44,149 --> 00:03:41,840
australia hello paul willis my old

87
00:03:45,670 --> 00:03:44,159
friend dr paul willis now he's a man and

88
00:03:48,550 --> 00:03:45,680

that's an organization that certainly

89

00:03:51,350 --> 00:03:48,560

believe in reason science and reason

90

00:03:53,270 --> 00:03:51,360

then after that it's maynard's spooky

91

00:03:55,910 --> 00:03:53,280

action maynard went to skeptics in the

92

00:03:56,869 --> 00:03:55,920

pub here in sydney and bumps into none

93

00:03:58,149 --> 00:03:56,879

other

94

00:04:01,030 --> 00:03:58,159

then

95

00:04:03,670 --> 00:04:01,040

dr richie dr rachel dunlop who is in

96

00:04:06,149 --> 00:04:03,680

sydney at the moment doing some research

97

00:04:08,229 --> 00:04:06,159

she's been uh quite a jet setter lately

98

00:04:09,750 --> 00:04:08,239

so we'll find out how rich he's going

99

00:04:12,070 --> 00:04:09,760

and also maynard's going to be chatting

100

00:04:13,350 --> 00:04:12,080

to various people about the topic of the

101
00:04:14,630 --> 00:04:13,360
evening

102
00:04:17,990 --> 00:04:14,640
which was

103
00:04:19,830 --> 00:04:18,000
the uh legalization of medical marijuana

104
00:04:21,670 --> 00:04:19,840
medical cannabis what an interesting

105
00:04:24,710 --> 00:04:21,680
topic that is

106
00:04:27,030 --> 00:04:24,720
what do skeptics in the pub pub

107
00:04:28,629 --> 00:04:27,040
type people think about this topic find

108
00:04:31,030 --> 00:04:28,639
out a bit later on

109
00:04:33,510 --> 00:04:31,040
with maynard then to round off the show

110
00:04:35,030 --> 00:04:33,520
it's joe alabaster evidence please and

111
00:04:39,030 --> 00:04:35,040
joe's going to be telling us about a

112
00:04:41,990 --> 00:04:39,040
recent award given to dr edsard ernst

113
00:04:43,749 --> 00:04:42,000

one of our colleagues in the uk and that

114

00:04:45,430 --> 00:04:43,759

report will come to you courtesy of

115

00:04:49,390 --> 00:04:45,440

australian skeptics on the australian

116

00:04:53,189 --> 00:04:51,749

www.skeptics.com.au well worth a visit

117

00:04:55,350 --> 00:04:53,199

well that's enough for me right now i'm

118

00:04:59,270 --> 00:04:55,360

going to run downstairs and

119

00:05:03,909 --> 00:05:01,909

that does sound good why not and i think

120

00:05:27,029 --> 00:05:03,919

i think i really should while i'm doing

121

00:05:38,870 --> 00:05:29,590

it's the raw skeptic report

122

00:05:43,590 --> 00:05:40,230

hi everyone

123

00:05:46,230 --> 00:05:43,600

heidi robertson coming to you from my

124

00:05:49,510 --> 00:05:46,240

noisy with wildlife home here in the

125

00:05:51,590 --> 00:05:49,520

northern rivers of new south wales

126

00:05:53,830 --> 00:05:51,600

this is an update on the latest news

127

00:05:57,029 --> 00:05:53,840

surrounding the senate hearing into the

128

00:05:58,870 --> 00:05:57,039

no jab no pay legislation

129

00:06:00,710 --> 00:05:58,880

you may recall that on the 2nd of

130

00:06:02,629 --> 00:06:00,720

november the northern river's

131

00:06:05,590 --> 00:06:02,639

vaccination supporters

132

00:06:08,230 --> 00:06:05,600

along with stop the abn and friends of

133

00:06:10,150 --> 00:06:08,240

science in medicine were asked to appear

134

00:06:14,390 --> 00:06:10,160

in front of a senate committee to give

135

00:06:16,390 --> 00:06:14,400

testimony regarding the legislation

136

00:06:18,870 --> 00:06:16,400

also giving testimony amongst many

137

00:06:21,270 --> 00:06:18,880

others were anti-vaccination advocates

138

00:06:23,990 --> 00:06:21,280

including two former presidents of the

139

00:06:26,550 --> 00:06:24,000

australian vaccination skeptics network

140

00:06:28,950 --> 00:06:26,560

merrill dorey and greg beatty

141

00:06:32,870 --> 00:06:28,960

as well as naturopath brett smith

142

00:06:35,189 --> 00:06:32,880

and debbie kemp a child care operator

143

00:06:37,189 --> 00:06:35,199

last week richard played some audio of

144

00:06:39,430 --> 00:06:37,199

them speaking over each other

145

00:06:42,390 --> 00:06:39,440

refusing to answer questions

146

00:06:45,430 --> 00:06:42,400

calling the senators mouthpieces for

147

00:06:48,150 --> 00:06:45,440

rupert murdoch and generally behaving in

148

00:06:50,309 --> 00:06:48,160

a manner that didn't seem to do them any

149

00:06:52,790 --> 00:06:50,319

favours

150

00:06:55,430 --> 00:06:52,800

on tuesday november the 11th the senate

151
00:06:58,070 --> 00:06:55,440
committee recommended the passing of the

152
00:07:00,710 --> 00:06:58,080
social services legislation amendment no

153
00:07:03,270 --> 00:07:00,720
jab no pay bill

154
00:07:06,629 --> 00:07:03,280
in this recommendation they specifically

155
00:07:08,150 --> 00:07:06,639
cited testimony given by stop the avn

156
00:07:10,469 --> 00:07:08,160
the northern river's vaccination

157
00:07:13,350 --> 00:07:10,479
supporters and friends of science in

158
00:07:15,909 --> 00:07:13,360
medicine it was fantastic to read this

159
00:07:17,029 --> 00:07:15,919
as we now know that they not only

160
00:07:19,589 --> 00:07:17,039
listened

161
00:07:22,070 --> 00:07:19,599
they actively took note of the points we

162
00:07:25,110 --> 00:07:22,080
raised and formed their decision and

163
00:07:27,270 --> 00:07:25,120

further recommendations around this

164

00:07:29,189 --> 00:07:27,280

also interestingly

165

00:07:32,550 --> 00:07:29,199

the recommendation mentioned the amount

166

00:07:34,950 --> 00:07:32,560

of form letters or standardized letters

167

00:07:36,150 --> 00:07:34,960

that were submitted to them by vaccine

168

00:07:38,749 --> 00:07:36,160

refuses

169

00:07:42,390 --> 00:07:38,759

one type of form letter was submitted by

170

00:07:45,909 --> 00:07:42,400

703 people whilst another type was

171

00:07:48,230 --> 00:07:45,919

submitted by 52 people

172

00:07:50,950 --> 00:07:48,240

these form letters were obviously not as

173

00:07:53,550 --> 00:07:50,960

effective as those people sending them

174

00:07:55,589 --> 00:07:53,560

in had been led to believe by certain

175

00:07:57,830 --> 00:07:55,599

anti-vaccination groups

176

00:08:00,469 --> 00:07:57,840

the recommendations made as part of this

177

00:08:03,110 --> 00:08:00,479

report are all supported by us the

178

00:08:05,189 --> 00:08:03,120

northern rivers vaccination supporters

179

00:08:07,589 --> 00:08:05,199

except perhaps for one

180

00:08:10,070 --> 00:08:07,599

made by senator dina tarly that the

181

00:08:13,110 --> 00:08:10,080

legislation actually be delayed until

182

00:08:15,350 --> 00:08:13,120

january the 1st 2018

183

00:08:17,830 --> 00:08:15,360

in order to allow immunization data

184

00:08:19,909 --> 00:08:17,840

systems to be improved we would hope

185

00:08:22,710 --> 00:08:19,919

that the legislation is not delayed for

186

00:08:25,670 --> 00:08:22,720

this amount of time

187

00:08:28,070 --> 00:08:25,680

so key aspects of the recommendations by

188

00:08:30,710 --> 00:08:28,080

the committee were as follows

189

00:08:32,070 --> 00:08:30,720

recommendation one

190

00:08:34,230 --> 00:08:32,080

the committee recommends that the

191

00:08:37,029 --> 00:08:34,240

government consider an initial review

192

00:08:39,670 --> 00:08:37,039

after 12 months to assess the immediate

193

00:08:41,589 --> 00:08:39,680

impact of the bill and a full evaluation

194

00:08:45,430 --> 00:08:41,599

of the impact and effectiveness of the

195

00:08:47,670 --> 00:08:45,440

bill after three years of implementation

196

00:08:49,030 --> 00:08:47,680

recommendation two

197

00:08:51,509 --> 00:08:49,040

the committee recommends that the

198

00:08:53,509 --> 00:08:51,519

government consider the educational and

199

00:08:56,070 --> 00:08:53,519

communication strategies

200

00:08:59,190 --> 00:08:56,080

to improve vaccination rates proposed by

201
00:09:01,269 --> 00:08:59,200
submitters to this inquiry

202
00:09:02,710 --> 00:09:01,279
recommendation 3

203
00:09:04,949 --> 00:09:02,720
the committee recommends that the

204
00:09:06,949 --> 00:09:04,959
government investigate a means of

205
00:09:10,389 --> 00:09:06,959
continuing to monitor conscientious

206
00:09:12,389 --> 00:09:10,399
objection if the bill is passed

207
00:09:14,389 --> 00:09:12,399
recommendation 4

208
00:09:17,269 --> 00:09:14,399
the committee encourages the government

209
00:09:20,710 --> 00:09:17,279
to investigate the merits of a national

210
00:09:22,790 --> 00:09:20,720
vaccine compensation scheme

211
00:09:25,350 --> 00:09:22,800
recommendation 5

212
00:09:28,310 --> 00:09:25,360
the committee recommends that the bill

213
00:09:30,310 --> 00:09:28,320

be passed

214

00:09:32,630 --> 00:09:30,320

so the next sitting of the house of

215

00:09:35,990 --> 00:09:32,640

representatives and the senate is

216

00:09:39,910 --> 00:09:36,000

scheduled for the 23rd of november and

217

00:09:41,990 --> 00:09:39,920

we expect to hear more then

218

00:09:42,870 --> 00:09:42,000

this is heidi robertson signing off for

219

00:09:45,829 --> 00:09:42,880

now

220

00:09:48,070 --> 00:09:45,839

for more information on vaccination and

221

00:09:55,190 --> 00:09:48,080

vaccine preventable diseases

222

00:10:00,790 --> 00:09:57,670

and give us some love in the way of a

223

00:10:02,070 --> 00:10:00,800

like on facebook

224

00:10:12,790 --> 00:10:02,080

thank you

225

00:10:16,949 --> 00:10:15,269

welcome to a week in science from rios

226

00:10:19,990 --> 00:10:16,959

bringing you the science you need to

227

00:10:22,310 --> 00:10:20,000

know it was one small step for an animal

228

00:10:24,550 --> 00:10:22,320

one giant leap for the animal kingdom

229

00:10:26,710 --> 00:10:24,560

but just how did the first vertebrates

230

00:10:28,870 --> 00:10:26,720

walk onto land and breathe air for the

231

00:10:35,350 --> 00:10:28,880

first time it's time to take a closer

232

00:10:40,069 --> 00:10:37,829

two recent papers reveal key insights

233

00:10:42,470 --> 00:10:40,079

into how the first vertebrates walked

234

00:10:44,470 --> 00:10:42,480

onto land and took their first breath

235

00:10:47,350 --> 00:10:44,480

the mechanism that determines whether

236

00:10:49,430 --> 00:10:47,360

you have fish fins or walking limbs is

237

00:10:51,430 --> 00:10:49,440

the rate at which a couple of hox genes

238

00:10:53,990 --> 00:10:51,440

are expressed hox genes are like

239

00:10:56,790 --> 00:10:54,000

orchestra conductors they regulate how a

240

00:10:58,790 --> 00:10:56,800

whole suite of other genes perform and

241

00:11:01,670 --> 00:10:58,800

changing its rate of expression can

242

00:11:03,430 --> 00:11:01,680

radically alter how an organism develops

243

00:11:05,750 --> 00:11:03,440

we learnt more about limb building when

244

00:11:08,949 --> 00:11:05,760

developmental embryologists switch the

245

00:11:11,190 --> 00:11:08,959

hox genes from a fish to a mouse

246

00:11:13,750 --> 00:11:11,200

the fish hox gene could not produce

247

00:11:15,670 --> 00:11:13,760

fingers and toes in mice thus the

248

00:11:18,310 --> 00:11:15,680

genetic apparatus required to make

249

00:11:21,670 --> 00:11:18,320

fingers and toes must have evolved after

250

00:11:26,230 --> 00:11:24,150

and we also now know how breathing

251
00:11:28,150 --> 00:11:26,240
developed for the first time and guess

252
00:11:30,710 --> 00:11:28,160
what we almost ended up breathing

253
00:11:32,870 --> 00:11:30,720
through our ears a team studied live

254
00:11:35,190 --> 00:11:32,880
polyterrain fish from africa

255
00:11:38,790 --> 00:11:35,200
these fish have a simple lung but no

256
00:11:40,949 --> 00:11:38,800
windpipe the team found that 93 of the

257
00:11:43,110 --> 00:11:40,959
air getting into the lung came through

258
00:11:46,150 --> 00:11:43,120
holes in the tops of the head called

259
00:11:48,150 --> 00:11:46,160
spiracles being surrounded by bone these

260
00:11:50,470 --> 00:11:48,160
structures are usually found in fossils

261
00:11:52,949 --> 00:11:50,480
of advanced fish and primitive walking

262
00:11:54,949 --> 00:11:52,959
vertebrates the tetrapods

263
00:11:57,190 --> 00:11:54,959

so now we can track how this early

264

00:11:59,350 --> 00:11:57,200

breathing mechanism developed in more

265

00:12:02,150 --> 00:11:59,360

advanced tetrapods like us the

266

00:12:05,190 --> 00:12:02,160

sphericals ended up becoming our ears

267

00:12:07,590 --> 00:12:05,200

and now four fast facts about walking on

268

00:12:11,910 --> 00:12:09,190

while the standard body plan for

269

00:12:13,590 --> 00:12:11,920

tetrapods includes five fingers and toes

270

00:12:15,590 --> 00:12:13,600

at the ends of each limb

271

00:12:18,150 --> 00:12:15,600

some of the earliest land walkers had

272

00:12:20,150 --> 00:12:18,160

eight digits in recent years several

273

00:12:23,030 --> 00:12:20,160

fossil finds have completed the picture

274

00:12:25,590 --> 00:12:23,040

of every conceivable intermediate stage

275

00:12:27,590 --> 00:12:25,600

between advanced fish and the first land

276

00:12:29,910 --> 00:12:27,600

walking vertebrates the queensland

277

00:12:32,150 --> 00:12:29,920

lungfish while not an immediate ancestor

278

00:12:33,990 --> 00:12:32,160

to land walking vertebrates provides a

279

00:12:36,790 --> 00:12:34,000

clear picture of how air breathing

280

00:12:37,829 --> 00:12:36,800

evolved in fish before they walked onto

281

00:12:39,990 --> 00:12:37,839

the land

282

00:12:41,670 --> 00:12:40,000

and in case you're wondering queensland

283

00:12:43,829 --> 00:12:41,680

lungfish are supposed to taste like a

284

00:12:46,710 --> 00:12:43,839

very oily salmon and they're covered in

285

00:12:48,470 --> 00:12:46,720

a thick sticky mucus i know that because

286

00:12:50,790 --> 00:12:48,480

i had to throw my shirt away after

287

00:12:53,030 --> 00:12:50,800

handling one of them that's it for this

288

00:12:57,069 --> 00:12:53,040

week in science for more information on

289

00:12:59,750 --> 00:12:57,079

walking on land go to the rio's website

290

00:13:03,269 --> 00:12:59,760

rius.org.edu follow us on twitter at

291

00:13:14,790 --> 00:13:03,279

rios and like us on facebook i'm paul

292

00:13:18,949 --> 00:13:16,710

want to help support the skeptic zone

293

00:13:22,069 --> 00:13:18,959

and look pretty damn stylish while

294

00:13:24,509 --> 00:13:22,079

you're about it visit mr cat's origami

295

00:13:26,790 --> 00:13:24,519

jewelry go to

296

00:13:29,990 --> 00:13:26,800

www.skepticzone.tv and click the link or

297

00:13:31,990 --> 00:13:30,000

simply google mr cat's origami jewelry

298

00:13:34,870 --> 00:13:32,000

also on facebook

299

00:13:36,710 --> 00:13:34,880

pendants earrings and cufflinks

300

00:13:48,069 --> 00:13:36,720

support mr cat

301

00:13:56,710 --> 00:13:52,150

here's maynard's spooky action

302

00:14:00,310 --> 00:13:58,230

we're here at skeptics at the pub and

303

00:14:02,550 --> 00:14:00,320

there's a controversial chat going on

304

00:14:04,710 --> 00:14:02,560

tonight it's going to be about

305

00:14:06,790 --> 00:14:04,720

decriminalization of cannabis insofar as

306

00:14:08,310 --> 00:14:06,800

being able to use for medical purposes

307

00:14:10,069 --> 00:14:08,320

and can you let us know kind of what

308

00:14:12,629 --> 00:14:10,079

we're going to be talking about tonight

309

00:14:14,550 --> 00:14:12,639

yes i think our speaker who's involved

310

00:14:16,790 --> 00:14:14,560

in the area is going to be

311

00:14:18,230 --> 00:14:16,800

talking about the minefield

312

00:14:21,990 --> 00:14:18,240

that

313

00:14:23,269 --> 00:14:22,000

it comes to

314

00:14:25,670 --> 00:14:23,279

um

315

00:14:26,470 --> 00:14:25,680

allowing the medicinal use of cannabis

316

00:14:29,110 --> 00:14:26,480

for

317

00:14:31,829 --> 00:14:29,120

long-term illnesses like um

318

00:14:32,629 --> 00:14:31,839

cancer epilepsy

319

00:14:35,189 --> 00:14:32,639

and

320

00:14:36,949 --> 00:14:35,199

other very very nasty illnesses

321

00:14:39,509 --> 00:14:36,959

i think it's fairly

322

00:14:40,790 --> 00:14:39,519

well established that cannabis can be of

323

00:14:43,670 --> 00:14:40,800

use

324

00:14:46,790 --> 00:14:43,680

and i think the question is just how

325

00:14:49,350 --> 00:14:46,800

how to uh harness that in a in a safe

326

00:14:51,590 --> 00:14:49,360

and reliable and legal way and does the

327

00:14:53,110 --> 00:14:51,600

legislation have to change

328

00:14:54,550 --> 00:14:53,120

do you think there's a bit of woo around

329

00:14:55,750 --> 00:14:54,560

cannabis like there is around some of

330

00:14:57,269 --> 00:14:55,760

these things just speaking to some

331

00:14:59,030 --> 00:14:57,279

people you'd think it was an actual

332

00:15:01,189 --> 00:14:59,040

miracle drug people like give the idea

333

00:15:02,550 --> 00:15:01,199

that it doesn't only have relief from

334

00:15:03,990 --> 00:15:02,560

the symptoms of cancer it can actually

335

00:15:06,310 --> 00:15:04,000

cure it you hear all sorts of things

336

00:15:09,110 --> 00:15:06,320

about it oh i've heard that too yes and

337

00:15:11,509 --> 00:15:09,120

yeah and i know somebody who had cancer

338

00:15:14,310 --> 00:15:11,519

has unfortunately died but they were

339

00:15:16,629 --> 00:15:14,320

very much into the cannabis oil supposed

340

00:15:18,150 --> 00:15:16,639

cure and i think um

341

00:15:19,910 --> 00:15:18,160

yes i think there's a lot of woo

342

00:15:22,389 --> 00:15:19,920

attached to it

343

00:15:25,350 --> 00:15:22,399

simply because it's it's um it's you

344

00:15:26,470 --> 00:15:25,360

know that kind of drug really but

345

00:15:27,590 --> 00:15:26,480

that's not what we're going to be

346

00:15:29,990 --> 00:15:27,600

talking tonight we're going to be

347

00:15:33,829 --> 00:15:30,000

talking about legitimate medical uses

348

00:15:34,949 --> 00:15:33,839

with a clinically proven effect

349

00:15:36,389 --> 00:15:34,959

yes because there are too many people

350

00:15:38,790 --> 00:15:36,399

that want to jump on the bandwagon

351

00:15:40,550 --> 00:15:38,800

aren't there oh yes i think they uh they

352

00:15:44,150 --> 00:15:40,560

definitely want to jump on the bandwagon

353

00:15:46,710 --> 00:15:44,160

and perhaps exploit this uh exploit this

354

00:15:49,350 --> 00:15:46,720

um but having said that um i understand

355

00:15:51,030 --> 00:15:49,360

that that our speaker tonight um

356

00:15:52,790 --> 00:15:51,040

is um

357

00:15:55,189 --> 00:15:52,800

is going also going to be talking about

358

00:15:57,670 --> 00:15:55,199

the the commercial potential of this

359

00:15:59,269 --> 00:15:57,680

industry and it i understand does it

360

00:16:02,870 --> 00:15:59,279

does have a huge commercial potential

361

00:16:05,350 --> 00:16:02,880

domestically also you know for export so

362

00:16:08,230 --> 00:16:05,360

you know why stymie that if it can be

363

00:16:09,189 --> 00:16:08,240

done safely and legitimately what do you

364

00:16:11,350 --> 00:16:09,199

think uh

365

00:16:12,949 --> 00:16:11,360

we're talking about medicinal marijuana

366

00:16:14,389 --> 00:16:12,959

here this evening and there are

367

00:16:16,310 --> 00:16:14,399

legitimate uses of that but do you think

368

00:16:18,470 --> 00:16:16,320

people get a bit too uh they get a bit

369

00:16:20,230 --> 00:16:18,480

too effusive about the possible benefits

370

00:16:23,110 --> 00:16:20,240

of cannabis sometimes

371

00:16:25,269 --> 00:16:23,120

well they're the only ones to know

372

00:16:27,829 --> 00:16:25,279

so who are we to know who we who are not

373

00:16:30,790 --> 00:16:27,839

in chronic pain that's true that's true

374

00:16:33,269 --> 00:16:30,800

i suffer from migraines actually and

375

00:16:34,230 --> 00:16:33,279

i have never found a suitable medication

376

00:16:36,150 --> 00:16:34,240

that will

377

00:16:39,110 --> 00:16:36,160

make a migraine at least bearable to

378

00:16:41,189 --> 00:16:39,120

stop me thinking of suicide yes i i know

379

00:16:44,389 --> 00:16:41,199

you have to stay inside for like is it

380

00:16:46,310 --> 00:16:44,399

more than one day you can go on for

381

00:16:47,590 --> 00:16:46,320

well one day and the day to recover can

382

00:16:50,230 --> 00:16:47,600

be so

383

00:16:52,389 --> 00:16:50,240

so if there's medicinal marijuana

384

00:16:54,310 --> 00:16:52,399

available i'd probably be oh okay i'm

385

00:16:56,310 --> 00:16:54,320

not trying it but i wouldn't i've got no

386

00:16:58,550 --> 00:16:56,320

intention of trying it otherwise

387

00:17:00,150 --> 00:16:58,560

and do you think um if they should uh

388

00:17:02,069 --> 00:17:00,160

hone the active ingredient down into a

389

00:17:04,549 --> 00:17:02,079

tablet or just let people be able to

390

00:17:06,710 --> 00:17:04,559

pipe it up if they feel like it

391

00:17:08,710 --> 00:17:06,720

oh look i don't know it's so complicated

392

00:17:10,789 --> 00:17:08,720

yeah what's what's going to

393

00:17:11,750 --> 00:17:10,799

stop it being criminalized as the main

394

00:17:14,870 --> 00:17:11,760

thing

395

00:17:16,789 --> 00:17:14,880

because how do you separate the two yeah

396

00:17:18,309 --> 00:17:16,799

i don't have the answer there because

397

00:17:22,230 --> 00:17:18,319

there is a lot of people that think that

398

00:17:25,909 --> 00:17:23,829

well hemp rope certainly enabled people

399

00:17:27,590 --> 00:17:25,919

to sail around the world

400

00:17:29,029 --> 00:17:27,600

200 years ago

401
00:17:32,230 --> 00:17:29,039
and of course i've also got someone here

402
00:17:34,870 --> 00:17:32,240
what's your views on the on the subject

403
00:17:36,950 --> 00:17:34,880
um i'm quite neutral on it um

404
00:17:40,070 --> 00:17:36,960
i've i've only tried um

405
00:17:42,070 --> 00:17:40,080
cannabis once when i was very young

406
00:17:43,510 --> 00:17:42,080
do you think it should be investigated

407
00:17:45,029 --> 00:17:43,520
further do you think the claim is a

408
00:17:46,950 --> 00:17:45,039
little bit exaggerated

409
00:17:49,510 --> 00:17:46,960
probably exaggerated

410
00:17:51,830 --> 00:17:49,520
although not not completely um

411
00:17:54,070 --> 00:17:51,840
useless i mean it would it would it

412
00:17:55,350 --> 00:17:54,080
would be there with aspirin and

413
00:17:58,150 --> 00:17:55,360

some other

414

00:18:00,230 --> 00:17:58,160

other popular drugs

415

00:18:04,470 --> 00:18:00,240

so well and you're just going to wait to

416

00:18:05,750 --> 00:18:04,480

see what to said tonight i think so yes

417

00:18:07,669 --> 00:18:05,760

now tim benjamin because you're a man

418

00:18:09,430 --> 00:18:07,679

who went to a university in the 70s and

419

00:18:10,630 --> 00:18:09,440

you saw a few things i did see a few

420

00:18:11,909 --> 00:18:10,640

things i'd rather not talk about them

421

00:18:13,510 --> 00:18:11,919

actually

422

00:18:15,510 --> 00:18:13,520

so what do you think of the the claims

423

00:18:16,950 --> 00:18:15,520

behind a medicinal use of cannabis at

424

00:18:18,310 --> 00:18:16,960

the moment in new south wales uh

425

00:18:20,230 --> 00:18:18,320

medicinal i think it's a bit limited

426

00:18:21,590 --> 00:18:20,240

actually

427

00:18:22,870 --> 00:18:21,600

although speaking to some people they go

428

00:18:26,230 --> 00:18:22,880

a little bit too far with their claims

429

00:18:29,510 --> 00:18:26,240

sometimes don't they i think well

430

00:18:31,190 --> 00:18:29,520

excuse me any claims about marijuana um

431

00:18:32,470 --> 00:18:31,200

that are sort of you mean contract they

432

00:18:33,430 --> 00:18:32,480

mean they're lying about how effective

433

00:18:36,710 --> 00:18:33,440

they are

434

00:18:38,870 --> 00:18:36,720

sometimes the the range of things that

435

00:18:40,950 --> 00:18:38,880

can treat is sometimes expanded beyond

436

00:18:43,430 --> 00:18:40,960

yeah probably probably i mean

437

00:18:46,230 --> 00:18:43,440

it obviously doesn't treat brain damage

438

00:18:49,029 --> 00:18:46,240

it rather creates a brain damage i

439

00:18:49,830 --> 00:18:49,039

believe i can't remember actually

440

00:18:51,750 --> 00:18:49,840

so

441

00:18:53,110 --> 00:18:51,760

was it prevalent amongst the university

442

00:18:55,190 --> 00:18:53,120

when you were there or not or was it

443

00:18:58,549 --> 00:18:55,200

just sort of a secret underground thing

444

00:19:00,789 --> 00:18:58,559

nah it wasn't secret at all actually

445

00:19:03,110 --> 00:19:00,799

there was an excellent little music room

446

00:19:05,029 --> 00:19:03,120

down below one of the sydney uni um

447

00:19:06,870 --> 00:19:05,039

the union theater

448

00:19:09,190 --> 00:19:06,880

used to go and play music there they

449

00:19:10,710 --> 00:19:09,200

listen to music okay and no one could

450

00:19:12,549 --> 00:19:10,720

see in

451

00:19:14,870 --> 00:19:12,559

i mean literally you couldn't see him he

452

00:19:17,430 --> 00:19:14,880

was just smokey and with the authorities

453

00:19:19,190 --> 00:19:17,440

sort of turning a blind eye or they just

454

00:19:20,549 --> 00:19:19,200

weren't they didn't weren't up to it

455

00:19:25,750 --> 00:19:20,559

well because the police aren't allowed

456

00:19:29,430 --> 00:19:27,270

but it was the case then i mean they had

457

00:19:30,310 --> 00:19:29,440

to be invited on by the vice chancellor

458

00:19:32,549 --> 00:19:30,320

or something so they couldn't just

459

00:19:33,990 --> 00:19:32,559

wander on and do a random search they

460

00:19:35,110 --> 00:19:34,000

were a security guard by the university

461

00:19:36,549 --> 00:19:35,120

but i think they ignored it they didn't

462

00:19:37,909 --> 00:19:36,559

care okay so you're going to be

463

00:19:40,230 --> 00:19:37,919

certainly interested in the talk tonight

464

00:19:41,669 --> 00:19:40,240

absolutely interested i have a lot of

465

00:19:46,150 --> 00:19:41,679

medical conditions which i'd like to

466

00:19:49,590 --> 00:19:47,669

oh there's a lot of excitement has gone

467

00:19:51,350 --> 00:19:49,600

through the crown hotel here at skeptics

468

00:19:53,110 --> 00:19:51,360

in the pub as dr richie has walked in

469

00:19:54,310 --> 00:19:53,120

and most people realize that that she

470

00:19:57,190 --> 00:19:54,320

owes the money so there's a bit of a

471

00:20:01,510 --> 00:19:57,200

fuffle going on doctor

472

00:20:04,230 --> 00:20:02,789

hey look and look and look like i said

473

00:20:06,310 --> 00:20:04,240

there's a lot of people that dr reggio's

474

00:20:07,990 --> 00:20:06,320

money too so it's pretty wild that she's

475

00:20:10,310 --> 00:20:08,000

shown her face at sydney skeptics in the

476
00:20:12,630 --> 00:20:10,320
pub dr rachie welcome back thank you

477
00:20:14,630 --> 00:20:12,640
maynard it's nice to be back no i

478
00:20:17,110 --> 00:20:14,640
believe you've been in jackson hole

479
00:20:18,310 --> 00:20:17,120
um is that a euphemism well i don't know

480
00:20:19,510 --> 00:20:18,320
i don't know what goes on in that place

481
00:20:20,789 --> 00:20:19,520
but yeah when you say i'm going to

482
00:20:23,270 --> 00:20:20,799
jackson hole

483
00:20:25,909 --> 00:20:23,280
i don't know no it is a place yes i have

484
00:20:27,990 --> 00:20:25,919
been there it is in wyoming and it's um

485
00:20:30,149 --> 00:20:28,000
a ski village pretty much so at the

486
00:20:31,669 --> 00:20:30,159
moment it is snowing there now i

487
00:20:33,029 --> 00:20:31,679
understand it's a place that has really

488
00:20:35,350 --> 00:20:33,039

rich people and really poor people it's

489

00:20:36,950 --> 00:20:35,360

sort of a dual economy going on yeah so

490

00:20:39,029 --> 00:20:36,960

i guess you could describe it as that

491

00:20:41,270 --> 00:20:39,039

because it's um wealthy because it's a

492

00:20:42,789 --> 00:20:41,280

ski resort and then the people that run

493

00:20:44,470 --> 00:20:42,799

the resorts you know the workers the

494

00:20:47,190 --> 00:20:44,480

people that run the cafes and bars and

495

00:20:48,950 --> 00:20:47,200

stuff they're all paid fairly

496

00:20:50,310 --> 00:20:48,960

averagely being that it's american

497

00:20:52,470 --> 00:20:50,320

hospitality

498

00:20:54,950 --> 00:20:52,480

and that's endemic across the country

499

00:20:57,029 --> 00:20:54,960

and there's a very um serious housing

500

00:20:58,789 --> 00:20:57,039

shortage issue in jackson hole as well

501
00:21:00,870 --> 00:20:58,799
wow okay so

502
00:21:03,430 --> 00:21:00,880
rent is very expensive and workers

503
00:21:05,669 --> 00:21:03,440
simply can't afford to live in the town

504
00:21:07,270 --> 00:21:05,679
so dr rachel dunlop what have you been

505
00:21:08,630 --> 00:21:07,280
up to since last time we spoke to you

506
00:21:09,909 --> 00:21:08,640
here you you wouldn't even tell us where

507
00:21:11,990 --> 00:21:09,919
you were going probably because you

508
00:21:13,430 --> 00:21:12,000
didn't want to say jackson hole

509
00:21:15,510 --> 00:21:13,440
that's right i wouldn't even tell you

510
00:21:18,549 --> 00:21:15,520
where i was going yeah yeah

511
00:21:20,390 --> 00:21:18,559
um oh well yeah i mean i've been

512
00:21:21,669 --> 00:21:20,400
back and forth to australia a couple of

513
00:21:23,270 --> 00:21:21,679

times i was

514

00:21:24,870 --> 00:21:23,280

in jackson for a few months and then i

515

00:21:28,070 --> 00:21:24,880

came back here

516

00:21:29,510 --> 00:21:28,080

to melbourne went back to jackson

517

00:21:30,549 --> 00:21:29,520

came back here

518

00:21:32,630 --> 00:21:30,559

and

519

00:21:34,470 --> 00:21:32,640

then my boss decided to send me to

520

00:21:35,669 --> 00:21:34,480

sydney to do some work

521

00:21:37,350 --> 00:21:35,679

because we don't have the right

522

00:21:40,149 --> 00:21:37,360

equipment that we need to do this

523

00:21:41,430 --> 00:21:40,159

particular project in the usa

524

00:21:43,510 --> 00:21:41,440

but they happen to have it here at

525

00:21:46,310 --> 00:21:43,520

macquarie university

526

00:21:48,070 --> 00:21:46,320

so i managed to uh wrangle my way back

527

00:21:49,830 --> 00:21:48,080

get a treat back to australia to do a

528

00:21:51,669 --> 00:21:49,840

month's worth of work in macquarie

529

00:21:53,750 --> 00:21:51,679

university yeah now of course your

530

00:21:56,230 --> 00:21:53,760

research is into um

531

00:21:57,350 --> 00:21:56,240

motor neuron disease and possible causes

532

00:21:58,630 --> 00:21:57,360

of it and

533

00:22:00,149 --> 00:21:58,640

what path are you examining at the

534

00:22:02,390 --> 00:22:00,159

moment and we must stress that this is

535

00:22:05,350 --> 00:22:02,400

just merely an initial finding but it

536

00:22:06,710 --> 00:22:05,360

probably means that you will cure cancer

537

00:22:09,830 --> 00:22:06,720

that's that's what i'm planning to do

538

00:22:11,190 --> 00:22:09,840

next week actually yeah yeah no we're um

539

00:22:13,270 --> 00:22:11,200

we've got a drug now that we've been

540

00:22:14,950 --> 00:22:13,280

trialing for a couple of years and we're

541

00:22:16,470 --> 00:22:14,960

going to put it into phase two trials

542

00:22:17,270 --> 00:22:16,480

next year can i have some for saturday

543

00:22:19,830 --> 00:22:17,280

night

544

00:22:22,630 --> 00:22:19,840

uh you can buy it online get out but not

545

00:22:24,710 --> 00:22:22,640

through silk road

546

00:22:27,430 --> 00:22:24,720

just through amazon actually

547

00:22:29,990 --> 00:22:27,440

um yeah so we we're doing phase two

548

00:22:32,870 --> 00:22:30,000

trials now to see because um when when

549

00:22:34,549 --> 00:22:32,880

drugs go into trials with humans you do

550

00:22:36,070 --> 00:22:34,559

um the first lot which is called phase

551
00:22:37,350 --> 00:22:36,080
one and that's just to check if the drug

552
00:22:39,750 --> 00:22:37,360
is toxic

553
00:22:41,510 --> 00:22:39,760
and if people can tolerate it so it's a

554
00:22:43,830 --> 00:22:41,520
safety check if you like and that's a

555
00:22:45,270 --> 00:22:43,840
small number of patients usually less

556
00:22:47,190 --> 00:22:45,280
than 100

557
00:22:49,430 --> 00:22:47,200
and then if that's

558
00:22:51,669 --> 00:22:49,440
successful you go into the next stage

559
00:22:53,430 --> 00:22:51,679
which is called phase two and that's to

560
00:22:55,430 --> 00:22:53,440
work out if the drug actually does

561
00:22:57,190 --> 00:22:55,440
anything does it slow down the disease

562
00:22:59,830 --> 00:22:57,200
does it cure the disease does it have

563
00:23:02,549 --> 00:22:59,840

any efficacy as as the scientific term

564

00:23:04,470 --> 00:23:02,559

goes so that's where we're going next

565

00:23:06,950 --> 00:23:04,480

um and at the moment we're looking for

566

00:23:11,190 --> 00:23:06,960

2.5 million bucks to do that so if

567

00:23:12,870 --> 00:23:11,200

anybody has a spare 2.5 million bucks

568

00:23:14,630 --> 00:23:12,880

um that would be good we could use that

569

00:23:15,590 --> 00:23:14,640

kickstarter

570

00:23:19,510 --> 00:23:15,600

maybe

571

00:23:21,350 --> 00:23:19,520

actually been discussed kickstarter has

572

00:23:23,029 --> 00:23:21,360

been discussed now you're hoping that

573

00:23:25,110 --> 00:23:23,039

this will be abuse against motor neuron

574

00:23:27,350 --> 00:23:25,120

disease now is that across the board so

575

00:23:29,830 --> 00:23:27,360

would that be ms as we know it as well

576

00:23:31,510 --> 00:23:29,840

or different sorts here what what type

577

00:23:33,990 --> 00:23:31,520

well motor neurone disease as you

578

00:23:35,430 --> 00:23:34,000

suggest is an umbrella term for a lot of

579

00:23:37,750 --> 00:23:35,440

different disorders

580

00:23:39,750 --> 00:23:37,760

ms though is not a neurodegenerative

581

00:23:42,310 --> 00:23:39,760

disease it's actually an autoimmune

582

00:23:43,990 --> 00:23:42,320

disease so that's a different category

583

00:23:46,230 --> 00:23:44,000

but this will apply possibly to

584

00:23:48,310 --> 00:23:46,240

parkinson's disease alzheimer's disease

585

00:23:51,029 --> 00:23:48,320

frontal temporal dementia

586

00:23:53,350 --> 00:23:51,039

lewy body dementia which actually was

587

00:23:56,470 --> 00:23:53,360

announced today that it's thought that

588

00:23:58,870 --> 00:23:56,480

robin williams had frontal uh lewy body

589

00:24:00,789 --> 00:23:58,880

dementia actually okay and all those

590

00:24:02,710 --> 00:24:00,799

diseases are termed neurodegenerative

591

00:24:05,190 --> 00:24:02,720

diseases so our therapy may help with

592

00:24:06,950 --> 00:24:05,200

any of those possibly

593

00:24:09,350 --> 00:24:06,960

has your research also suggested there's

594

00:24:12,950 --> 00:24:09,360

something we should avoid doing

595

00:24:16,230 --> 00:24:12,960

or eating or being or breathing

596

00:24:18,710 --> 00:24:16,240

yes um i mean specifically we're looking

597

00:24:20,710 --> 00:24:18,720

at a toxin found in blue-green algae

598

00:24:23,750 --> 00:24:20,720

and you might say to me well rachel i

599

00:24:25,750 --> 00:24:23,760

don't eat algae so i'm fine but it turns

600

00:24:27,190 --> 00:24:25,760

out that this toxin

601
00:24:28,630 --> 00:24:27,200
comes from

602
00:24:30,950 --> 00:24:28,640
blue-green algae that you find on the

603
00:24:32,710 --> 00:24:30,960
surface of lakes and rivers and

604
00:24:35,110 --> 00:24:32,720
it can then get into the food chain

605
00:24:37,750 --> 00:24:35,120
through seafood through

606
00:24:40,870 --> 00:24:37,760
mussels through the water and if for

607
00:24:42,630 --> 00:24:40,880
example you water crops with um

608
00:24:43,909 --> 00:24:42,640
unfiltered water that has the toxin it

609
00:24:45,830 --> 00:24:43,919
can get into things like leafy

610
00:24:48,070 --> 00:24:45,840
vegetables and wheat and rice and that

611
00:24:49,669 --> 00:24:48,080
sort of thing so actually it can be in

612
00:24:51,510 --> 00:24:49,679
all kinds of foods

613
00:24:52,950 --> 00:24:51,520

and currently people wouldn't be trying

614

00:24:54,470 --> 00:24:52,960

to necessarily filter it out because

615

00:24:56,149 --> 00:24:54,480

it's not considered a problem is that

616

00:24:57,190 --> 00:24:56,159

true or not um no it is considered a

617

00:24:59,430 --> 00:24:57,200

problem

618

00:25:01,750 --> 00:24:59,440

but people aren't testing for it because

619

00:25:03,590 --> 00:25:01,760

they don't have a test for it yet oh

620

00:25:07,269 --> 00:25:03,600

there's not a simple

621

00:25:08,470 --> 00:25:07,279

quick cheap way of detecting it um

622

00:25:09,190 --> 00:25:08,480

at the moment

623

00:25:10,950 --> 00:25:09,200

so

624

00:25:12,789 --> 00:25:10,960

the only advice i could give you is to

625

00:25:15,669 --> 00:25:12,799

just don't eat stuff that's come from

626
00:25:17,269 --> 00:25:15,679
really um you know green mucky waters

627
00:25:19,110 --> 00:25:17,279
and

628
00:25:20,950 --> 00:25:19,120
i mean how can you tell that maynard you

629
00:25:22,230 --> 00:25:20,960
may ask me if you just go buy it from

630
00:25:24,630 --> 00:25:22,240
your fishmonger

631
00:25:25,430 --> 00:25:24,640
um well you probably can't so

632
00:25:26,950 --> 00:25:25,440
um

633
00:25:28,710 --> 00:25:26,960
i mean there are studies showing that

634
00:25:30,549 --> 00:25:28,720
muscles have high levels of this toxin

635
00:25:32,230 --> 00:25:30,559
because they filter water so anything

636
00:25:34,950 --> 00:25:32,240
that's a filter feeder like a muscle or

637
00:25:37,190 --> 00:25:34,960
a clam um they will filter water and

638
00:25:38,870 --> 00:25:37,200

then whatever was in the water retains

639

00:25:41,430 --> 00:25:38,880

back in their flesh so they can have

640

00:25:43,029 --> 00:25:41,440

high levels of the toxin

641

00:25:44,950 --> 00:25:43,039

so you think at a bit of a turning point

642

00:25:46,789 --> 00:25:44,960

about this in a few years time we'll be

643

00:25:49,909 --> 00:25:46,799

going aha

644

00:25:53,510 --> 00:25:49,919

i think that's happening soon um

645

00:25:55,510 --> 00:25:53,520

we at one of my collaboration groups we

646

00:25:58,070 --> 00:25:55,520

had a big grant awarded to us just this

647

00:26:00,070 --> 00:25:58,080

week which is looking at the

648

00:26:01,830 --> 00:26:00,080

distribution of this toxin in australia

649

00:26:03,909 --> 00:26:01,840

because nobody's demonstrated yet that

650

00:26:05,110 --> 00:26:03,919

it's actually here

651
00:26:07,110 --> 00:26:05,120
so that's going to be something we're

652
00:26:08,630 --> 00:26:07,120
doing in the next few years and there's

653
00:26:11,350 --> 00:26:08,640
a lot of stuff we're working on the us

654
00:26:13,669 --> 00:26:11,360
that i can't talk about for ip reasons

655
00:26:15,830 --> 00:26:13,679
but um that will

656
00:26:18,950 --> 00:26:15,840
i think that will accelerate research in

657
00:26:20,710 --> 00:26:18,960
this area once these things are done

658
00:26:23,190 --> 00:26:20,720
so just for the rest of us and for the

659
00:26:24,789 --> 00:26:23,200
listeners of the skeptic zone um

660
00:26:28,149 --> 00:26:24,799
what are the big um

661
00:26:30,070 --> 00:26:28,159
the turning points in this investigation

662
00:26:31,590 --> 00:26:30,080
and research you're doing at what points

663
00:26:32,950 --> 00:26:31,600

do you go yay i mean what was the last

664

00:26:35,029 --> 00:26:32,960

one where you went yes we've turned a

665

00:26:36,710 --> 00:26:35,039

major point here

666

00:26:38,789 --> 00:26:36,720

you've reached the junction you know it

667

00:26:40,310 --> 00:26:38,799

was it a slow gradual thing i think i

668

00:26:42,070 --> 00:26:40,320

mean i get asked this question quite a

669

00:26:43,510 --> 00:26:42,080

lot and i don't

670

00:26:45,350 --> 00:26:43,520

science doesn't really work that way

671

00:26:47,110 --> 00:26:45,360

even though it

672

00:26:49,510 --> 00:26:47,120

as a researcher at the cold face that's

673

00:26:51,590 --> 00:26:49,520

not really how it works but that's how

674

00:26:53,830 --> 00:26:51,600

people pitch it to work and that's how

675

00:26:55,750 --> 00:26:53,840

it's marketed to work and that's you

676
00:26:57,830 --> 00:26:55,760
know what press releases try to allude

677
00:26:59,909 --> 00:26:57,840
to i suppose but

678
00:27:01,510 --> 00:26:59,919
really it is a slow burn and

679
00:27:03,830 --> 00:27:01,520
the stuff that we've been working on for

680
00:27:06,470 --> 00:27:03,840
the last three years um

681
00:27:07,269 --> 00:27:06,480
we sort of came across by accident

682
00:27:09,029 --> 00:27:07,279
so

683
00:27:10,870 --> 00:27:09,039
you know people tend to think that

684
00:27:12,230 --> 00:27:10,880
science is like a eureka moment where

685
00:27:14,310 --> 00:27:12,240
you look at something and go oh wow

686
00:27:15,029 --> 00:27:14,320
that's amazing i i've got something here

687
00:27:16,789 --> 00:27:15,039
but

688
00:27:18,310 --> 00:27:16,799

more often than not that the kind of

689

00:27:20,470 --> 00:27:18,320

discoveries that become important and

690

00:27:22,149 --> 00:27:20,480

useful are the ones that you go i don't

691

00:27:23,190 --> 00:27:22,159

really understand that that's that's

692

00:27:24,789 --> 00:27:23,200

weird

693

00:27:26,870 --> 00:27:24,799

why why is this like that i don't

694

00:27:28,789 --> 00:27:26,880

understand that and dr rachel have you

695

00:27:30,390 --> 00:27:28,799

really wanted to punch any journalists

696

00:27:31,909 --> 00:27:30,400

lately that have asked stupid questions

697

00:27:33,190 --> 00:27:31,919

or got the wrong end of the stick and

698

00:27:36,070 --> 00:27:33,200

then proceeded to beat about the bush

699

00:27:38,630 --> 00:27:36,080

with it no never and you know but you

700

00:27:39,990 --> 00:27:38,640

know why maynard because

701
00:27:41,750 --> 00:27:40,000
because i've learned from people like

702
00:27:43,909 --> 00:27:41,760
yourself and from other journals because

703
00:27:45,830 --> 00:27:43,919
i'm not smart

704
00:27:48,630 --> 00:27:45,840
no but you're a professional you're a

705
00:27:50,630 --> 00:27:48,640
professional journal so i've learned

706
00:27:53,190 --> 00:27:50,640
have you spoken with the abc

707
00:27:55,510 --> 00:27:53,200
no no no

708
00:27:57,669 --> 00:27:55,520
i haven't been to that part of the hr

709
00:28:00,549 --> 00:27:57,679
website um

710
00:28:02,149 --> 00:28:00,559
no but but if you brief journalists

711
00:28:04,630 --> 00:28:02,159
properly and you understand what they

712
00:28:07,269 --> 00:28:04,640
want and you give them short sharp

713
00:28:09,350 --> 00:28:07,279

answers you will usually end up with a

714

00:28:11,269 --> 00:28:09,360

good result um

715

00:28:13,029 --> 00:28:11,279

so no i haven't had that recently

716

00:28:15,190 --> 00:28:13,039

because i always go into those sort of

717

00:28:17,510 --> 00:28:15,200

situations where i brief them well

718

00:28:20,070 --> 00:28:17,520

beforehand i ask for the questions

719

00:28:21,110 --> 00:28:20,080

before the interview always asks for the

720

00:28:23,350 --> 00:28:21,120

questions

721

00:28:25,029 --> 00:28:23,360

i ask what's the context of the report i

722

00:28:27,190 --> 00:28:25,039

ask who else is going to be in the

723

00:28:28,549 --> 00:28:27,200

report so i know exactly

724

00:28:30,230 --> 00:28:28,559

i mean and that's particularly important

725

00:28:31,510 --> 00:28:30,240

with vaccination stories by the way

726

00:28:33,110 --> 00:28:31,520

because

727

00:28:35,190 --> 00:28:33,120

several times i've had to pull out of

728

00:28:36,789 --> 00:28:35,200

interviews about vaccination if they've

729

00:28:38,389 --> 00:28:36,799

told me they've got an anti-vaxxer on as

730

00:28:40,789 --> 00:28:38,399

well as me because i will not

731

00:28:42,310 --> 00:28:40,799

participate in reports that perpetuate

732

00:28:44,549 --> 00:28:42,320

false balance

733

00:28:46,070 --> 00:28:44,559

so i i i've not had that issue with

734

00:28:48,549 --> 00:28:46,080

jono's at all and i did an interview

735

00:28:51,110 --> 00:28:48,559

this afternoon um via skype for a south

736

00:28:53,590 --> 00:28:51,120

african current affairs show and it was

737

00:28:55,669 --> 00:28:53,600

done in 20 minutes because i asked for

738

00:28:59,029 --> 00:28:55,679

the questions beforehand i was prepared

739

00:29:00,789 --> 00:28:59,039

i rattled them off that was it easy

740

00:29:02,630 --> 00:29:00,799

and getting back to the regular sort of

741

00:29:04,070 --> 00:29:02,640

skepticism what sort of woo has kept you

742

00:29:06,070 --> 00:29:04,080

up at night telling people they're wrong

743

00:29:07,510 --> 00:29:06,080

on the internet

744

00:29:08,789 --> 00:29:07,520

well it's funny you should ask me that

745

00:29:11,269 --> 00:29:08,799

question i knew there'd be something

746

00:29:12,870 --> 00:29:11,279

there's always something well there's

747

00:29:15,110 --> 00:29:12,880

the town where i've been living in in

748

00:29:18,149 --> 00:29:15,120

wyoming jackson hole is very much a

749

00:29:19,830 --> 00:29:18,159

woo-woo town get out no it is and and

750

00:29:22,470 --> 00:29:19,840

when i first got there there were people

751

00:29:24,549 --> 00:29:22,480

asking me if i'd heard of

752

00:29:26,789 --> 00:29:24,559

some australian guy who's a famous

753

00:29:29,350 --> 00:29:26,799

juicer and i can't even remember his

754

00:29:31,830 --> 00:29:29,360

name now but he made a movie called fat

755

00:29:32,789 --> 00:29:31,840

sick and dead or almost dead or

756

00:29:34,389 --> 00:29:32,799

something

757

00:29:36,470 --> 00:29:34,399

it's really famous in the states and it

758

00:29:38,149 --> 00:29:36,480

was about you know the classic journey

759

00:29:39,669 --> 00:29:38,159

of he was really overweight and ill and

760

00:29:41,990 --> 00:29:39,679

high blood pressure and so he started

761

00:29:44,149 --> 00:29:42,000

juicing and only eating you know

762

00:29:46,070 --> 00:29:44,159

like kale some smoothies and he lost

763

00:29:47,669 --> 00:29:46,080

weight and blah blah blah i've lost

764

00:29:51,669 --> 00:29:47,679

weight i know you have what have you

765

00:29:57,269 --> 00:29:54,310

see that's not that's not a diet that

766

00:29:58,789 --> 00:29:57,279

i'd recommend like maybe not but yeah

767

00:30:00,789 --> 00:29:58,799

but you've got to get something out of

768

00:30:02,870 --> 00:30:00,799

it that's surprising but it's not like

769

00:30:05,110 --> 00:30:02,880

you needed to lose weight

770

00:30:07,510 --> 00:30:05,120

to begin with well i'm wearing my 1984

771

00:30:08,710 --> 00:30:07,520

suit i just realized that's 31 years ago

772

00:30:10,789 --> 00:30:08,720

right so

773

00:30:12,230 --> 00:30:10,799

so at least you can fit into your 1984

774

00:30:14,470 --> 00:30:12,240

suit that's right but should you be

775

00:30:16,950 --> 00:30:14,480

wearing a suit from 1984 but i think

776

00:30:18,950 --> 00:30:16,960

we're getting off topic here

777

00:30:20,389 --> 00:30:18,960

you completely derailed this discussion

778

00:30:22,950 --> 00:30:20,399

didn't you so maybe i could have the

779

00:30:24,710 --> 00:30:22,960

getting dumped died maybe you could that

780

00:30:27,110 --> 00:30:24,720

so i just got to encourage people to go

781

00:30:28,710 --> 00:30:27,120

out with inappropriate people yeah and

782

00:30:30,310 --> 00:30:28,720

then you can make a movie and it's on

783

00:30:31,510 --> 00:30:30,320

netflix i haven't seen it i don't know

784

00:30:33,430 --> 00:30:31,520

how you monetize that because a lot of

785

00:30:35,190 --> 00:30:33,440

people do it on their own time

786

00:30:36,950 --> 00:30:35,200

yeah true i mean

787

00:30:39,510 --> 00:30:36,960

yeah there's a i mean it's something you

788

00:30:41,510 --> 00:30:39,520

can maybe explore i don't know

789

00:30:42,870 --> 00:30:41,520

yeah so this guy's juicing things and

790

00:30:44,630 --> 00:30:42,880

people are going

791

00:30:46,310 --> 00:30:44,640

crikey they've been saying he's juicing

792

00:30:47,750 --> 00:30:46,320

stuff and he's australian well it's

793

00:30:49,669 --> 00:30:47,760

funny you should mention crikey because

794

00:30:51,269 --> 00:30:49,679

it reminds me of when you know steve

795

00:30:53,990 --> 00:30:51,279

irwin was around and he used to be

796

00:30:55,990 --> 00:30:54,000

extremely famous in the usa

797

00:30:57,510 --> 00:30:56,000

and i'd never heard of him in australia

798

00:30:59,430 --> 00:30:57,520

many people hadn't because he was more

799

00:31:01,590 --> 00:30:59,440

famous there than he was here

800

00:31:04,149 --> 00:31:01,600

this guy whose name i can't even recall

801
00:31:07,350 --> 00:31:04,159
is the same deal okay very famous for

802
00:31:09,190 --> 00:31:07,360
juicing okay so um did they ask you did

803
00:31:10,870 --> 00:31:09,200
you know him i guess because everyone

804
00:31:12,230 --> 00:31:10,880
knows everyone in australia i don't

805
00:31:14,710 --> 00:31:12,240
think they meant it that way i think

806
00:31:16,389 --> 00:31:14,720
they just meant do you know of him

807
00:31:17,990 --> 00:31:16,399
not necessarily do you know who he is

808
00:31:20,549 --> 00:31:18,000
have you had any local battles with wu

809
00:31:22,710 --> 00:31:20,559
like fluoridation or anything like that

810
00:31:24,549 --> 00:31:22,720
um no

811
00:31:27,029 --> 00:31:24,559
no

812
00:31:28,149 --> 00:31:27,039
i've had to be very careful about did

813
00:31:31,110 --> 00:31:28,159

you live there

814

00:31:33,909 --> 00:31:31,120

i live there um so in fact it's been a

815

00:31:35,750 --> 00:31:33,919

good lesson in how to

816

00:31:37,750 --> 00:31:35,760

deal with these things without being a

817

00:31:39,430 --> 00:31:37,760

dick if you if you like you know how

818

00:31:41,029 --> 00:31:39,440

phil plate did that talk many years ago

819

00:31:42,710 --> 00:31:41,039

about don't be a dick and

820

00:31:44,950 --> 00:31:42,720

yelling at people is not going to help

821

00:31:45,750 --> 00:31:44,960

so you just have to kind of lead them to

822

00:31:48,470 --> 00:31:45,760

that

823

00:31:50,789 --> 00:31:48,480

decision themselves and and offer advice

824

00:31:51,669 --> 00:31:50,799

without being um you know

825

00:31:54,549 --> 00:31:51,679

um

826

00:31:57,750 --> 00:31:54,559

what's the word i'm looking for rude or

827

00:31:59,190 --> 00:31:57,760

you know condescending farty or fatty or

828

00:32:01,110 --> 00:31:59,200

patronizing

829

00:32:03,110 --> 00:32:01,120

and is jackson hole in a state where

830

00:32:06,070 --> 00:32:03,120

marijuana is available for medicinal

831

00:32:08,310 --> 00:32:06,080

purposes or not not yet no not yet but

832

00:32:10,789 --> 00:32:08,320

colorado is and that's not far away from

833

00:32:12,389 --> 00:32:10,799

us and i believe they've done very well

834

00:32:14,549 --> 00:32:12,399

out of that they

835

00:32:16,230 --> 00:32:14,559

made a huge amount of money from the um

836

00:32:18,789 --> 00:32:16,240

you know the taxes they took from that

837

00:32:21,350 --> 00:32:18,799

and they've funded all this public stuff

838

00:32:23,110 --> 00:32:21,360

like schools and things so yeah

839

00:32:24,230 --> 00:32:23,120

yeah that's cool well

840

00:32:25,830 --> 00:32:24,240

what do you think of the battle is going

841

00:32:28,070 --> 00:32:25,840

to be here in new south wales to

842

00:32:30,070 --> 00:32:28,080

possibly get medicinal use of cannabis

843

00:32:31,509 --> 00:32:30,080

going in new south wales

844

00:32:33,269 --> 00:32:31,519

well i just think it's a matter of time

845

00:32:35,110 --> 00:32:33,279

isn't it i don't think it's going to be

846

00:32:35,909 --> 00:32:35,120

it'll it'll take time but i think it'll

847

00:32:38,950 --> 00:32:35,919

happen

848

00:32:40,389 --> 00:32:38,960

it's like well why why muck around and

849

00:32:42,710 --> 00:32:40,399

waste people's time let's just deal with

850

00:32:43,830 --> 00:32:42,720

it and do it it's ridiculous

851
00:32:45,669 --> 00:32:43,840
for many years i thought for the

852
00:32:47,990 --> 00:32:45,679
medicinal use of whipped cream bulbs but

853
00:32:49,430 --> 00:32:48,000
i was always unsuccessful

854
00:32:51,269 --> 00:32:49,440
were you shelving them though maynard

855
00:32:55,029 --> 00:32:51,279
you're not supposed to do that

856
00:32:58,549 --> 00:32:56,950
look uh my head's really spinning now

857
00:33:01,029 --> 00:32:58,559
because i've just been watching lots of

858
00:33:03,110 --> 00:33:01,039
legal talk about uh

859
00:33:04,389 --> 00:33:03,120
legalizing cannabis for medicinal use

860
00:33:05,909 --> 00:33:04,399
and i think i should pass you over to

861
00:33:08,549 --> 00:33:05,919
someone who really knows what it is who

862
00:33:11,750 --> 00:33:08,559
we got here dr teresa nicoletti i'm a

863
00:33:14,549 --> 00:33:11,760

partner at piper alderman and i

864

00:33:17,269 --> 00:33:14,559

practice in intellectual property

865

00:33:19,350 --> 00:33:17,279

my specialty is in

866

00:33:22,789 --> 00:33:19,360

legal issues in the pharmaceutical and

867

00:33:25,350 --> 00:33:22,799

biotech industry we're involved in the

868

00:33:28,149 --> 00:33:25,360

legalization of medicinal cannabis and

869

00:33:30,149 --> 00:33:28,159

we are constantly engaging with

870

00:33:31,990 --> 00:33:30,159

state and federal governments to try and

871

00:33:34,710 --> 00:33:32,000

get our heads around

872

00:33:36,710 --> 00:33:34,720

a a framework that will allow a

873

00:33:38,470 --> 00:33:36,720

medicinal cannabis industry to operate

874

00:33:39,750 --> 00:33:38,480

in australia are politicians a bit

875

00:33:41,509 --> 00:33:39,760

scared of this do you think there's

876

00:33:42,870 --> 00:33:41,519

votes in it or it's a bit of a touchy

877

00:33:45,430 --> 00:33:42,880

subject

878

00:33:48,230 --> 00:33:45,440

i think that look i think there is a bit

879

00:33:50,230 --> 00:33:48,240

of controversy around it because of the

880

00:33:52,470 --> 00:33:50,240

historical stigma associated with the

881

00:33:56,470 --> 00:33:52,480

use of medicinal cannabis but what it

882

00:33:58,470 --> 00:33:56,480

comes back to is that there are genuine

883

00:34:00,149 --> 00:33:58,480

therapeutic benefits for

884

00:34:02,470 --> 00:34:00,159

products that are derived from cannabis

885

00:34:04,149 --> 00:34:02,480

and and that's what we should focus on

886

00:34:06,070 --> 00:34:04,159

providing access for medicinal and

887

00:34:07,830 --> 00:34:06,080

scientific use and that's entirely

888

00:34:09,510 --> 00:34:07,840

consistent with the convention

889

00:34:11,669 --> 00:34:09,520

now you mentioned that there are large

890

00:34:13,829 --> 00:34:11,679

overseas corporations that could swoop

891

00:34:15,270 --> 00:34:13,839

in and do this if we uh if we don't get

892

00:34:16,869 --> 00:34:15,280

a move on

893

00:34:19,510 --> 00:34:16,879

well yes there is always that

894

00:34:22,069 --> 00:34:19,520

possibility but they will also have to

895

00:34:23,669 --> 00:34:22,079

operate under the regulatory framework

896

00:34:25,510 --> 00:34:23,679

so if they want to bring in their drugs

897

00:34:28,389 --> 00:34:25,520

they have to submit to the same

898

00:34:31,750 --> 00:34:28,399

evaluation process that any company

899

00:34:33,589 --> 00:34:31,760

whether it's in australia or overseas

900

00:34:35,990 --> 00:34:33,599

has to submit to

901
00:34:37,270 --> 00:34:36,000
but there are overseas companies that

902
00:34:40,230 --> 00:34:37,280
are bringing in their product for

903
00:34:41,909 --> 00:34:40,240
clinical trial purposes and

904
00:34:43,669 --> 00:34:41,919
there are also australian companies that

905
00:34:44,389 --> 00:34:43,679
can provide access to those products for

906
00:34:46,069 --> 00:34:44,399
that

907
00:34:47,510 --> 00:34:46,079
purpose so i think australia should try

908
00:34:49,990 --> 00:34:47,520
and facilitate

909
00:34:52,310 --> 00:34:50,000
companies in australia that can provide

910
00:34:54,069 --> 00:34:52,320
that access and so the listeners

911
00:34:55,750 --> 00:34:54,079
probably wondering well what can i do

912
00:34:58,150 --> 00:34:55,760
about it how can i educate myself is

913
00:34:59,750 --> 00:34:58,160

there a best place to go to simply find

914

00:35:02,470 --> 00:34:59,760

out what needs to be done or what the

915

00:35:04,550 --> 00:35:02,480

average person could have an effect upon

916

00:35:06,470 --> 00:35:04,560

you'll find different information at

917

00:35:08,150 --> 00:35:06,480

different sites so you'll find

918

00:35:11,190 --> 00:35:08,160

information about the regulation of

919

00:35:12,870 --> 00:35:11,200

drugs regulate generally on the tga's

920

00:35:15,190 --> 00:35:12,880

website

921

00:35:17,109 --> 00:35:15,200

there's access to all the legislation

922

00:35:19,510 --> 00:35:17,119

but it's a it's a minefield maynard what

923

00:35:21,349 --> 00:35:19,520

can i tell you it's taken me months to

924

00:35:23,510 --> 00:35:21,359

actually get my head around it myself

925

00:35:25,190 --> 00:35:23,520

and i work in the area and you had a

926
00:35:26,550 --> 00:35:25,200
that was beautifully succinctly put

927
00:35:28,150 --> 00:35:26,560
there but even then i was spinning

928
00:35:29,589 --> 00:35:28,160
because people are talking oh we might

929
00:35:31,109 --> 00:35:29,599
probably get this done in six months and

930
00:35:32,630 --> 00:35:31,119
as you showed there are certain things

931
00:35:34,630 --> 00:35:32,640
like what happens if something goes

932
00:35:36,550 --> 00:35:34,640
wrong who's who's responsible who's

933
00:35:38,710 --> 00:35:36,560
going to pay for it those are huge

934
00:35:41,190 --> 00:35:38,720
questions yes yes and that's why we need

935
00:35:43,190 --> 00:35:41,200
regulators in place so there is talk

936
00:35:44,870 --> 00:35:43,200
about a separate regulator for medicinal

937
00:35:47,190 --> 00:35:44,880
cannabis but we already have a very

938
00:35:49,829 --> 00:35:47,200

strong regulator and that's the tga

939

00:35:52,870 --> 00:35:49,839

who already regulate narcotic drugs and

940

00:35:55,190 --> 00:35:52,880

and lower risk drugs and medical devices

941

00:35:58,230 --> 00:35:55,200

and so i think we should draw on that

942

00:36:00,870 --> 00:35:58,240

existing framework to to make this

943

00:36:02,230 --> 00:36:00,880

access to medicinal cannabis work okay

944

00:36:05,190 --> 00:36:02,240

and what is the best way to educate

945

00:36:07,349 --> 00:36:05,200

ourselves generally

946

00:36:10,630 --> 00:36:07,359

the way we all educate ourselves may not

947

00:36:13,589 --> 00:36:10,640

the website but but as i said um i can't

948

00:36:15,829 --> 00:36:13,599

tell you how many uh sources i've seen

949

00:36:16,950 --> 00:36:15,839

that that actually have misinformation

950

00:36:19,109 --> 00:36:16,960

out there

951
00:36:20,470 --> 00:36:19,119
and just uh just off the top of your

952
00:36:21,990 --> 00:36:20,480
head what do you think would be the main

953
00:36:23,589 --> 00:36:22,000
use of the medicinal that you said

954
00:36:24,870 --> 00:36:23,599
there's many things that look promising

955
00:36:26,230 --> 00:36:24,880
what's the one you think in your own

956
00:36:27,829 --> 00:36:26,240
mind and we're not going to hold you to

957
00:36:30,069 --> 00:36:27,839
it there

958
00:36:31,589 --> 00:36:30,079
look the ones i see having the most

959
00:36:32,390 --> 00:36:31,599
promise are

960
00:36:34,870 --> 00:36:32,400
for

961
00:36:38,390 --> 00:36:34,880
epilepsy

962
00:36:39,990 --> 00:36:38,400
multiple sclerosis has established use

963
00:36:42,950 --> 00:36:40,000

also the reduction of pain and

964

00:36:45,349 --> 00:36:42,960

stimulation of appetite so there is um

965

00:36:48,870 --> 00:36:45,359

promise in cancer pain

966

00:36:50,470 --> 00:36:48,880

uh for thc and cbd products and this is

967

00:36:52,310 --> 00:36:50,480

a serious issue do you get a bit sick

968

00:36:53,670 --> 00:36:52,320

some of the people making jokes about

969

00:36:54,870 --> 00:36:53,680

the whole thing because you know that

970

00:36:56,790 --> 00:36:54,880

they smoked a doobie when they were

971

00:36:58,550 --> 00:36:56,800

younger so they think that that that's

972

00:37:00,150 --> 00:36:58,560

all there is to it sometimes

973

00:37:03,109 --> 00:37:00,160

well i think that's part of the

974

00:37:04,310 --> 00:37:03,119

misinformation out there um it is a

975

00:37:05,750 --> 00:37:04,320

valuable

976
00:37:08,310 --> 00:37:05,760
uh product

977
00:37:10,390 --> 00:37:08,320
you know herb that has a number of

978
00:37:12,550 --> 00:37:10,400
important therapeutic agents in there

979
00:37:15,510 --> 00:37:12,560
and what people do need to recognize is

980
00:37:17,430 --> 00:37:15,520
it's not about smoking weed it's about

981
00:37:34,870 --> 00:37:17,440
providing access to an important

982
00:38:13,750 --> 00:38:10,230
is

983
00:38:15,670 --> 00:38:13,760
president of the hungarian skeptic

984
00:38:18,230 --> 00:38:15,680
society and chairman of the european

985
00:38:20,390 --> 00:38:18,240
council of skeptical organizations

986
00:38:22,230 --> 00:38:20,400
as a listener of the skeptic zone you

987
00:38:23,829 --> 00:38:22,240
probably agree that educating others

988
00:38:26,470 --> 00:38:23,839

about pseudoscience and critical

989

00:38:28,230 --> 00:38:26,480

thinking is an important task

990

00:38:30,069 --> 00:38:28,240

if you are eager to take part in either

991

00:38:31,349 --> 00:38:30,079

of these activities we would be happy to

992

00:38:33,430 --> 00:38:31,359

hear from you

993

00:38:36,630 --> 00:38:33,440

don't hesitate to contact us at

994

00:38:40,470 --> 00:38:37,950

or info at

995

00:38:43,510 --> 00:38:40,480

skepticush.edu we also recommend you

996

00:38:45,829 --> 00:38:43,520

visiting our facebook page skeptical

997

00:38:58,150 --> 00:38:45,839

or simply come and join us at one of our

998

00:39:07,510 --> 00:39:02,470

what we wanted some more evidence please

999

00:39:07,520 --> 00:39:13,990

hello this is joe alabasta

1000

00:39:18,790 --> 00:39:16,470

professor edvard ernst and professor

1001
00:39:21,750 --> 00:39:18,800
susan jeb are the two winners of the

1002
00:39:24,069 --> 00:39:21,760
2015 john maddox prize for standing up

1003
00:39:26,390 --> 00:39:24,079
for science

1004
00:39:28,630 --> 00:39:26,400
the prize named after a former editor of

1005
00:39:31,670 --> 00:39:28,640
science journal nature is a joint

1006
00:39:35,510 --> 00:39:31,680
initiative of nature the cone foundation

1007
00:39:37,349 --> 00:39:35,520
and the charity sense about science

1008
00:39:39,349 --> 00:39:37,359
ernst is well known for his stance

1009
00:39:41,790 --> 00:39:39,359
against alternative and complementary

1010
00:39:43,349 --> 00:39:41,800
medical treatments that lack evidence or

1011
00:39:45,670 --> 00:39:43,359
substantiation

1012
00:39:48,230 --> 00:39:45,680
his book trick or treatment alternative

1013
00:39:51,030 --> 00:39:48,240

medicine of trial co-authored with simon

1014

00:39:53,190 --> 00:39:51,040

singh is an exposition of a wide range

1015

00:39:56,150 --> 00:39:53,200

of alternative treatments assessing

1016

00:39:58,069 --> 00:39:56,160

their efficacy if any

1017

00:40:00,310 --> 00:39:58,079

he is also well known for being on the

1018

00:40:01,589 --> 00:40:00,320

receiving end of criticism from sir

1019

00:40:03,990 --> 00:40:01,599

michael peat

1020

00:40:06,230 --> 00:40:04,000

the then principal private secretary of

1021

00:40:08,150 --> 00:40:06,240

prince charles who accused him of

1022

00:40:09,829 --> 00:40:08,160

breaking a confidentiality agreement

1023

00:40:11,910 --> 00:40:09,839

over the smallwood report on

1024

00:40:13,670 --> 00:40:11,920

complementary medicine

1025

00:40:16,069 --> 00:40:13,680

the report had been commissioned by the

1026
00:40:18,150 --> 00:40:16,079
prince and suggested that complementary

1027
00:40:20,069 --> 00:40:18,160
and alternative medicine was cost

1028
00:40:23,270 --> 00:40:20,079
effective and should be available on the

1029
00:40:25,109 --> 00:40:23,280
uk national health scheme

1030
00:40:27,589 --> 00:40:25,119
ernst was initially enlisted as a

1031
00:40:29,829 --> 00:40:27,599
collaborator on the report but asked for

1032
00:40:31,589 --> 00:40:29,839
his name to be removed after a site of

1033
00:40:33,750 --> 00:40:31,599
the draft report convinced him that

1034
00:40:35,430 --> 00:40:33,760
smallwood had quote written the

1035
00:40:37,510 --> 00:40:35,440
conclusions before looking at the

1036
00:40:39,670 --> 00:40:37,520
evidence end quote

1037
00:40:41,750 --> 00:40:39,680
the report did not address whether cam

1038
00:40:44,630 --> 00:40:41,760

treatments were actually effective and

1039

00:40:47,990 --> 00:40:44,640

ernest described it as quote complete

1040

00:40:49,750 --> 00:40:48,000

misleading rubbish end quote

1041

00:40:51,829 --> 00:40:49,760

at the time he was professor of

1042

00:40:54,230 --> 00:40:51,839

complementary medicine at the university

1043

00:40:56,390 --> 00:40:54,240

of exeter the first such academic

1044

00:40:58,309 --> 00:40:56,400

position in the world he was also

1045

00:41:00,309 --> 00:40:58,319

director of complementary medicine of

1046

00:41:01,750 --> 00:41:00,319

the university's peninsula medical

1047

00:41:03,349 --> 00:41:01,760

school

1048

00:41:05,430 --> 00:41:03,359

following the criticism over his

1049

00:41:07,589 --> 00:41:05,440

comments on the smallwood report the

1050

00:41:08,950 --> 00:41:07,599

university undertook an investigation of

1051
00:41:11,190 --> 00:41:08,960
ernst

1052
00:41:13,109 --> 00:41:11,200
even though he was cleared of wrongdoing

1053
00:41:15,030 --> 00:41:13,119
ernst has said that circumstances

1054
00:41:18,309 --> 00:41:15,040
surrounding the ensuing university

1055
00:41:21,670 --> 00:41:18,319
investigation led to his retirement

1056
00:41:23,510 --> 00:41:21,680
regarding the maddox prize he was quote

1057
00:41:25,829 --> 00:41:23,520
recognised for his long commitment to

1058
00:41:27,430 --> 00:41:25,839
applying scientific methodologies in

1059
00:41:29,510 --> 00:41:27,440
research into complementary

1060
00:41:31,670 --> 00:41:29,520
unalternative medicines and to

1061
00:41:33,750 --> 00:41:31,680
communicating this need

1062
00:41:35,910 --> 00:41:33,760
professor ernst continued in his work

1063
00:41:38,309 --> 00:41:35,920

despite personal attacks and attempts to

1064

00:41:40,470 --> 00:41:38,319

undermine his research unit and end his

1065

00:41:42,069 --> 00:41:40,480

employment

1066

00:41:44,150 --> 00:41:42,079

as a result he has addressed a

1067

00:41:46,710 --> 00:41:44,160

significant gap in the research base in

1068

00:41:48,790 --> 00:41:46,720

this field and has brought insights into

1069

00:41:52,069 --> 00:41:48,800

discussions with the public policy

1070

00:41:55,190 --> 00:41:52,079

makers commentators practitioners and

1071

00:41:58,069 --> 00:41:55,200

other researchers end quote

1072

00:41:59,910 --> 00:41:58,079

his co-winner susan jeb is professor of

1073

00:42:03,510 --> 00:41:59,920

diet and population health at the

1074

00:42:05,670 --> 00:42:03,520

university of oxford she was quote

1075

00:42:08,150 --> 00:42:05,680

recognised for her promotion of public

1076
00:42:10,950 --> 00:42:08,160
understanding of nutrition on a diverse

1077
00:42:13,589 --> 00:42:10,960
range of issues of public concern from

1078
00:42:15,510 --> 00:42:13,599
food supplements to dieting

1079
00:42:17,670 --> 00:42:15,520
professor jeb tackled misconceptions

1080
00:42:20,230 --> 00:42:17,680
about sugar in the media and among the

1081
00:42:22,230 --> 00:42:20,240
public and endured personal attacks and

1082
00:42:24,470 --> 00:42:22,240
accusations that industry funding

1083
00:42:27,030 --> 00:42:24,480
compromised her integrity and advisory

1084
00:42:29,109 --> 00:42:27,040
capabilities end quote

1085
00:42:31,270 --> 00:42:29,119
the winners of the 2015 john maddox

1086
00:42:34,309 --> 00:42:31,280
prize were announced on november 3rd

1087
00:42:36,309 --> 00:42:34,319
2015 at the sense about science annual

1088
00:42:39,349 --> 00:42:36,319

reception in london

1089

00:42:42,470 --> 00:42:39,359

the judging panel in 2015 consisted of

1090

00:42:45,510 --> 00:42:42,480

tracy brown director sense about science

1091

00:42:48,630 --> 00:42:45,520

philip campbell editor-in-chief nature

1092

00:42:51,190 --> 00:42:48,640

lord reese of ludlow frs and professor

1093

00:42:54,309 --> 00:42:51,200

colin blakemore frs

1094

00:42:56,870 --> 00:42:54,319

judges sit in a personal capacity

1095

00:42:59,349 --> 00:42:56,880

on winning the prize ernst said that

1096

00:43:01,750 --> 00:42:59,359

quote there is a lot in alternative

1097

00:43:02,950 --> 00:43:01,760

medicine that challenges rationality and

1098

00:43:04,950 --> 00:43:02,960

ethics

1099

00:43:06,950 --> 00:43:04,960

standing up for science by refuting the

1100

00:43:08,870 --> 00:43:06,960

plethora of pseudoscience and low

1101
00:43:11,270 --> 00:43:08,880
quality research in this field is

1102
00:43:13,750 --> 00:43:11,280
important to patients and to people who

1103
00:43:15,670 --> 00:43:13,760
practice medicine as well as to everyone

1104
00:43:17,750 --> 00:43:15,680
else who talks about it

1105
00:43:19,670 --> 00:43:17,760
to receive the john maddox prize is a

1106
00:43:24,309 --> 00:43:19,680
true honor as well as an invaluable

1107
00:43:42,790 --> 00:43:26,550
you can read this report and many more

1108
00:43:47,910 --> 00:43:44,150
hey heidi

1109
00:43:50,950 --> 00:43:47,920
oh hi joe hi heidi oh hi maynard hi

1110
00:43:55,270 --> 00:43:50,960
maynard oh hi joe nice day in this park

1111
00:43:56,710 --> 00:43:55,280
yeah yes great weather oh look a unicorn

1112
00:43:58,710 --> 00:43:56,720
a unicorn

1113
00:44:02,069 --> 00:43:58,720

there are no such things as unicorn

1114

00:44:04,390 --> 00:44:02,079

silly yes there are no there isn't

1115

00:44:06,630 --> 00:44:04,400

hey ladies what are you arguing about

1116

00:44:09,430 --> 00:44:06,640

joe thinks unicorns are real

1117

00:44:12,870 --> 00:44:09,440

they so are let's look this up in the

1118

00:44:15,030 --> 00:44:12,880

skeptics dictionary the words how can we

1119

00:44:17,270 --> 00:44:15,040

do that in this park there are no

1120

00:44:20,150 --> 00:44:17,280

computers here you ladies probably don't

1121

00:44:23,030 --> 00:44:20,160

know about the skeptics dictionary app

1122

00:44:25,910 --> 00:44:23,040

available now for iphone ipad and ipod

1123

00:44:27,829 --> 00:44:25,920

touch in the app store yeah we do we've

1124

00:44:31,670 --> 00:44:27,839

been listening to the skeptic zone for

1125

00:44:34,150 --> 00:44:31,680

years you know uh um yes okay uh the app

1126

00:44:36,790 --> 00:44:34,160

lets you access all the great skeptics

1127

00:44:40,710 --> 00:44:36,800

dictionary articles when you're on the

1128

00:44:43,349 --> 00:44:40,720

go here let me look up unicorns oh cool

1129

00:44:45,589 --> 00:44:43,359

heidi prepare to be proven wrong

1130

00:44:47,750 --> 00:44:45,599

it says here the unicorn is a creature

1131

00:44:49,670 --> 00:44:47,760

from fables ah

1132

00:44:51,190 --> 00:44:49,680

actually i see now that someone just

1133

00:44:52,470 --> 00:44:51,200

dumped their ice cream cone on that

1134

00:44:55,190 --> 00:44:52,480

horse's head

1135

00:45:08,870 --> 00:44:55,200

thanks get the addiction

1136

00:45:11,349 --> 00:45:10,470

thank you for listening to the skeptic

1137

00:45:13,430 --> 00:45:11,359

zone

1138

00:45:15,349 --> 00:45:13,440

thank you to those people who uh helped

1139

00:45:17,829 --> 00:45:15,359

the skeptic zone

1140

00:45:20,390 --> 00:45:17,839

by your little payments micropayments

1141

00:45:22,309 --> 00:45:20,400

through paypal at skepticzone.tv hit the

1142

00:45:24,550 --> 00:45:22,319

subscribe button it really does help

1143

00:45:26,870 --> 00:45:24,560

there's some more microphones in the

1144

00:45:28,550 --> 00:45:26,880

very near future i need to buy

1145

00:45:30,309 --> 00:45:28,560

so your

1146

00:45:32,870 --> 00:45:30,319

chipping into the skeptic zone really

1147

00:45:34,630 --> 00:45:32,880

does help to do that it's it's fantastic

1148

00:45:37,510 --> 00:45:34,640

and thank you to those people who have

1149

00:45:40,150 --> 00:45:37,520

been visiting mr cat's online store mr

1150

00:45:41,910 --> 00:45:40,160

cat's handmade origami jewelry the links

1151

00:45:43,990 --> 00:45:41,920

at skepticzone.tv

1152

00:45:46,710 --> 00:45:44,000

that money also goes to help the skeptic

1153

00:45:49,829 --> 00:45:46,720

zone and i'll be having a little stall

1154

00:45:51,829 --> 00:45:49,839

for mr cats origami jewelry at the glebe

1155

00:45:53,990 --> 00:45:51,839

markets here in sydney on the 12th of

1156

00:45:56,309 --> 00:45:54,000

december if you're there drop by and say

1157

00:45:57,910 --> 00:45:56,319

hello coming up on next week's show more

1158

00:45:59,190 --> 00:45:57,920

interviews from the australian skeptics

1159

00:46:00,950 --> 00:45:59,200

national convention

1160

00:46:02,309 --> 00:46:00,960

maynard running around with his

1161

00:46:04,790 --> 00:46:02,319

microphone

1162

00:46:06,390 --> 00:46:04,800

uh getting some really top interviews so

1163

00:46:07,910 --> 00:46:06,400

more of that coming up i hope you

1164

00:46:11,109 --> 00:46:07,920

enjoyed the interview so far from

1165

00:46:13,670 --> 00:46:11,119

maynard with eugenie scott and

1166

00:46:15,829 --> 00:46:13,680

joe nickel amongst others but for this

1167

00:46:16,870 --> 00:46:15,839

week this is richard saunders signing

1168

00:46:23,829 --> 00:46:16,880

off

1169

00:46:29,309 --> 00:46:25,430

you've been listening to the skeptic

1170

00:46:31,750 --> 00:46:29,319

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1171

00:46:35,109 --> 00:46:31,760

www.skepticzone.tv for contacts an

1172

00:46:37,750 --> 00:46:35,119

archive of all episodes since 2008

1173

00:46:40,309 --> 00:46:37,760

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1174

00:46:43,910 --> 00:46:40,319

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1175

00:46:46,550 --> 00:46:43,920

at skepticzone liking us on facebook and

1176

00:46:48,230 --> 00:46:46,560

leaving a review on itunes

1177

00:46:51,109 --> 00:46:48,240

you can also show your support by

1178

00:46:53,190 --> 00:46:51,119

subscribing via paypal for as little as

1179

00:46:55,109 --> 00:46:53,200

99 cents a week

1180

00:46:57,190 --> 00:46:55,119

the skeptic zone is an independent

1181

00:46:59,270 --> 00:46:57,200

production the views and opinions

1182

00:47:01,349 --> 00:46:59,280

expressed on the skeptic zone are not