

1  
00:00:00,000 --> 00:00:02,029

1

2  
00:00:03,819 --> 00:00:09,109  
but guests yours is an award-winning

3  
00:00:06,259 --> 00:00:12,109  
weekly science show in French hosted by

4  
00:00:09,109 --> 00:00:14,419  
a bunch of crazy enthusiasts we are

5  
00:00:12,109 --> 00:00:16,759  
convinced that the greatest ideas in

6  
00:00:14,419 --> 00:00:19,009  
science are quite easy to grasp as long

7  
00:00:16,760 --> 00:00:21,410  
as they are presented with passion using

8  
00:00:19,010 --> 00:00:23,720  
a vocabulary common to all curious minds

9  
00:00:21,410 --> 00:00:26,509  
whatever their academic background if

10  
00:00:23,719 --> 00:00:29,538  
any you don't understand French yet oh

11  
00:00:26,510 --> 00:00:31,400  
it's never too late all our stories have

12  
00:00:29,539 --> 00:00:33,170  
a written transcript on the website and

13  
00:00:31,399 --> 00:00:35,299  
people from all around the world are

14  
00:00:33,170 --> 00:00:38,420  
using our content to learn Malia's

15  
00:00:35,299 --> 00:00:40,849  
language our topics range from 0 to

16  
00:00:38,420 --> 00:00:43,219  
infinity from evolution to artificial

17  
00:00:40,850 --> 00:00:45,859  
life from electromagnetism to the

18  
00:00:43,219 --> 00:00:49,069  
science of introverts we just love

19  
00:00:45,859 --> 00:00:51,859  
mathematics science critical thinking so

20  
00:00:49,069 --> 00:00:53,569  
do you want to join you can subscribe to

21  
00:00:51,859 --> 00:00:56,239  
the podcast for free from our website

22  
00:00:53,569 --> 00:00:58,909  
podcast science tops FM that's in one

23  
00:00:56,238 --> 00:01:01,459  
word you also find us on itunes and

24  
00:00:58,908 --> 00:01:03,289  
soundcloud see you soon hopefully I'd

25  
00:01:01,460 --> 00:01:05,829  
lose like a year at the other words or

26  
00:01:03,289 --> 00:01:05,829  
pedestrians

27  
00:01:18,939 --> 00:01:26,679  
welcome to the skeptic zone the podcast

28  
00:01:22,099 --> 00:01:26,679  
from Australia for science and reason

29

00:01:35,700 --> 00:01:42,850  
hello and welcome to the skeptic zone on

30  
00:01:39,069 --> 00:01:44,949  
Joe for the 15th of November 2015

31  
00:01:42,849 --> 00:01:47,349  
Richard Saunders here with you from

32  
00:01:44,950 --> 00:01:49,750  
Sydney Australia and I don't need to

33  
00:01:47,349 --> 00:01:51,339  
tell you why I played the promo there

34  
00:01:49,750 --> 00:01:54,759  
for our colleagues in France of course

35  
00:01:51,340 --> 00:01:59,020  
the whole world's then give the events

36  
00:01:54,759 --> 00:02:01,239  
in Paris over the last 48 hours and we

37  
00:01:59,019 --> 00:02:02,739  
should also be remembering the events in

38  
00:02:01,239 --> 00:02:07,929  
Beirut and other parts of the world

39  
00:02:02,739 --> 00:02:14,680  
where similar atrocities occur what's

40  
00:02:07,929 --> 00:02:20,098  
the answer well I don't know but I do

41  
00:02:14,680 --> 00:02:24,459  
know that we must continue our course of

42  
00:02:20,098 --> 00:02:26,139  
reason these problems will one day be

43  
00:02:24,459 --> 00:02:28,140

confined to the history books I'm sure

44

00:02:26,139 --> 00:02:30,399

but it's going to take a long time and

45

00:02:28,139 --> 00:02:32,639

the way we're going to get to that page

46

00:02:30,400 --> 00:02:35,289

in the history book is if we pursue

47

00:02:32,639 --> 00:02:37,719

slowly and carefully the course of

48

00:02:35,289 --> 00:02:42,159

reason and it's also a sobering thought

49

00:02:37,719 --> 00:02:45,030

to think that quite possibly some of the

50

00:02:42,159 --> 00:02:48,969

people who died in the recent events

51

00:02:45,030 --> 00:02:51,340

especially in in France could well have

52

00:02:48,969 --> 00:02:52,959

been skeptics own listeners but quite

53

00:02:51,340 --> 00:02:54,670

frankly I think I'm really lost for

54

00:02:52,959 --> 00:02:56,590

words so we'll continue on and we'll

55

00:02:54,669 --> 00:02:58,780

look at the see what's coming up on this

56

00:02:56,590 --> 00:03:00,430

week's episode of the skeptic zone we're

57

00:02:58,780 --> 00:03:03,009

going to kick off with Heidi Roberts and

58  
00:03:00,430 --> 00:03:05,769  
the raw skeptic report Heidi is going to

59  
00:03:03,009 --> 00:03:09,159  
be giving us an update bringing us

60  
00:03:05,769 --> 00:03:12,939  
upgrade with the report by the Senate

61  
00:03:09,159 --> 00:03:15,129  
committee into know jab no pay if you

62  
00:03:12,939 --> 00:03:17,409  
remember last week's episode and if you

63  
00:03:15,129 --> 00:03:22,780  
stopped laughing from the antics of

64  
00:03:17,409 --> 00:03:24,818  
those wacky crazy zany outrageous people

65  
00:03:22,780 --> 00:03:26,379  
on the anti-vaccination front what's

66  
00:03:24,818 --> 00:03:29,619  
that expression they only open their

67  
00:03:26,379 --> 00:03:31,150  
mouths to change feet well Heidi is

68  
00:03:29,620 --> 00:03:33,400  
going to be telling us what the Senate

69  
00:03:31,150 --> 00:03:35,349  
concluded and its recommendations on

70  
00:03:33,400 --> 00:03:37,959  
this matter and Thank You Heidi for all

71  
00:03:35,348 --> 00:03:39,310  
your hard work on this subject following

72  
00:03:37,959 --> 00:03:40,959  
that it's a weakened signs from the

73  
00:03:39,310 --> 00:03:42,669  
Royal Institution of Australia hello

74  
00:03:40,959 --> 00:03:44,620  
Paul Willis my old friend dr. Paul

75  
00:03:42,669 --> 00:03:46,209  
Willis and he's a man and that's an

76  
00:03:44,620 --> 00:03:46,830  
organization that certainly believe in

77  
00:03:46,209 --> 00:03:49,680  
reason

78  
00:03:46,830 --> 00:03:52,620  
science and reason then after that it's

79  
00:03:49,680 --> 00:03:54,420  
Maynard spooky action may nod winter

80  
00:03:52,620 --> 00:03:59,400  
skeptics in the pub here in Sydney and

81  
00:03:54,419 --> 00:04:01,619  
bumps into none other and dr. Richie dr.

82  
00:03:59,400 --> 00:04:04,319  
Rachel Dunlop who is in sitting at the

83  
00:04:01,620 --> 00:04:06,870  
moment doing some research she's been a

84  
00:04:04,319 --> 00:04:08,699  
quite a jet setter lately so we'll find

85  
00:04:06,870 --> 00:04:10,349  
out how r a cheese going then also

86

00:04:08,699 --> 00:04:12,679  
Maenads going to be chatting to various

87  
00:04:10,349 --> 00:04:17,159  
people about the topic of the evening

88  
00:04:12,680 --> 00:04:19,470  
which was the legalization of medical

89  
00:04:17,160 --> 00:04:22,200  
marijuana medical cannabis what an

90  
00:04:19,470 --> 00:04:25,320  
interesting topic that is what the

91  
00:04:22,199 --> 00:04:27,389  
skeptics in the pub pub pub type people

92  
00:04:25,319 --> 00:04:30,750  
think about this topic find out a bit

93  
00:04:27,389 --> 00:04:33,089  
later on with me not then the round off

94  
00:04:30,750 --> 00:04:34,680  
the show it's joe alabaster evidence

95  
00:04:33,089 --> 00:04:37,169  
please and Joe is going to be telling us

96  
00:04:34,680 --> 00:04:40,439  
about a recent award given to doctor

97  
00:04:37,170 --> 00:04:43,170  
it's at ernst one of our colleagues in

98  
00:04:40,439 --> 00:04:45,269  
the UK and that report will come to you

99  
00:04:43,170 --> 00:04:48,590  
courtesy of australian skeptics on the

100  
00:04:45,269 --> 00:04:52,259

australian skeptics website wwc optics

101

00:04:48,589 --> 00:04:53,729  
com au well worth a visit well that's

102

00:04:52,259 --> 00:04:56,519  
enough for me right now I'm going to run

103

00:04:53,730 --> 00:05:00,960  
downstairs and maybe have a nice cross

104

00:04:56,519 --> 00:05:03,599  
on mmm when does sound good why not and

105

00:05:00,959 --> 00:05:06,060  
i think i think i really should well I'm

106

00:05:03,600 --> 00:05:08,360  
doing that I hope you enjoy the skeptics

107

00:05:06,060 --> 00:05:08,360  
earning

108

00:05:11,720 --> 00:05:14,720  
member

109

00:05:26,259 --> 00:05:41,180  
it's the raw skeptic report with Heidi

110

00:05:30,259 --> 00:05:44,360  
Robertson hi everyone Heidi Robertson

111

00:05:41,180 --> 00:05:46,730  
coming to you from my noisy with

112

00:05:44,360 --> 00:05:50,060  
wildlife home here in the northern

113

00:05:46,730 --> 00:05:51,920  
rivers of New South Wales this is an

114

00:05:50,060 --> 00:05:54,889  
update on the latest news surrounding

115  
00:05:51,920 --> 00:05:58,189  
the Senate hearing into the no job no

116  
00:05:54,889 --> 00:06:00,560  
pay legislation you may recall that on

117  
00:05:58,189 --> 00:06:03,230  
the second of November the Northern

118  
00:06:00,560 --> 00:06:06,170  
Rivers vaccination supporters along with

119  
00:06:03,230 --> 00:06:08,629  
stop the avian and Friends of science in

120  
00:06:06,170 --> 00:06:10,400  
medicine were asked to appear in front

121  
00:06:08,629 --> 00:06:15,139  
of a Senate committee to give testimony

122  
00:06:10,399 --> 00:06:16,879  
regarding the legislation also giving

123  
00:06:15,139 --> 00:06:19,759  
testimony amongst many others were

124  
00:06:16,879 --> 00:06:21,920  
anti-vaccination advocates including two

125  
00:06:19,759 --> 00:06:24,709  
former presidents of the Australian

126  
00:06:21,920 --> 00:06:28,100  
vaccination skeptics network Meryl Dory

127  
00:06:24,709 --> 00:06:30,949  
and greg BTW as well as naturopath brett

128  
00:06:28,100 --> 00:06:34,490  
Smith and Debbie Kemp a childcare

129  
00:06:30,949 --> 00:06:36,849  
operator last week Richard played some

130  
00:06:34,490 --> 00:06:40,129  
audio of them speaking over each other

131  
00:06:36,850 --> 00:06:43,340  
refusing to answer questions calling the

132  
00:06:40,129 --> 00:06:46,129  
Senators mouthpieces for Rupert Murdoch

133  
00:06:43,339 --> 00:06:50,169  
and generally behaving in a manner that

134  
00:06:46,129 --> 00:06:52,879  
didn't seem to do them any favors on

135  
00:06:50,170 --> 00:06:55,520  
Tuesday November the 11th the Senate

136  
00:06:52,879 --> 00:06:58,009  
committee recommended the passing of the

137  
00:06:55,519 --> 00:07:01,549  
social services legislation amendment no

138  
00:06:58,009 --> 00:07:05,029  
jab no pay bill in this recommendation

139  
00:07:01,550 --> 00:07:07,579  
they specifically cited testimony given

140  
00:07:05,029 --> 00:07:10,069  
by stop the avn the northern rivers

141  
00:07:07,579 --> 00:07:12,229  
vaccination supporters and friends of

142  
00:07:10,069 --> 00:07:15,500  
science in medicine it was fantastic to

143

00:07:12,230 --> 00:07:18,680  
read this as we now know that they not

144  
00:07:15,500 --> 00:07:21,410  
only listened they actively took note of

145  
00:07:18,680 --> 00:07:22,910  
the points we raised and formed their

146  
00:07:21,410 --> 00:07:27,530  
decision and further recommendations

147  
00:07:22,910 --> 00:07:28,370  
around this also interestingly the

148  
00:07:27,529 --> 00:07:30,668  
recommendation

149  
00:07:28,370 --> 00:07:33,379  
mentioned the amount of form letters or

150  
00:07:30,668 --> 00:07:36,769  
standardized letters that were submitted

151  
00:07:33,379 --> 00:07:40,339  
to them by vaccine refuses one type of

152  
00:07:36,769 --> 00:07:43,609  
form letter was submitted by 703 people

153  
00:07:40,339 --> 00:07:47,569  
whilst another type was submitted by 52

154  
00:07:43,610 --> 00:07:50,810  
people these form letters were obviously

155  
00:07:47,569 --> 00:07:52,639  
not as effective as those people sending

156  
00:07:50,810 --> 00:07:55,850  
them in had been led to believe by

157  
00:07:52,639 --> 00:07:57,829

certain anti-vaccination groups the

158

00:07:55,850 --> 00:08:00,620

recommendations made as part of this

159

00:07:57,829 --> 00:08:02,649

report are all supported by us the

160

00:08:00,620 --> 00:08:06,199

Northern Rivers vaccination supporters

161

00:08:02,649 --> 00:08:08,689

except perhaps for one made by Senator

162

00:08:06,199 --> 00:08:12,530

de natale that the legislation actually

163

00:08:08,689 --> 00:08:15,019

be delayed until January the first 2018

164

00:08:12,529 --> 00:08:17,959

in order to allow immunization data

165

00:08:15,019 --> 00:08:20,060

systems to be improved we would hope

166

00:08:17,959 --> 00:08:24,319

that the legislation is not delayed for

167

00:08:20,060 --> 00:08:26,300

this amount of time so key aspects of

168

00:08:24,319 --> 00:08:31,009

the recommendations by the committee

169

00:08:26,300 --> 00:08:32,690

were as follows recommendation 1 the

170

00:08:31,009 --> 00:08:34,939

committee recommends that the government

171

00:08:32,690 --> 00:08:37,669

consider an initial review after 12

172  
00:08:34,940 --> 00:08:40,010  
months to assess the immediate impact of

173  
00:08:37,668 --> 00:08:41,929  
the bill and a full evaluation of the

174  
00:08:40,009 --> 00:08:45,278  
impact and effectiveness of the bill

175  
00:08:41,929 --> 00:08:48,319  
after three years of implementation

176  
00:08:45,278 --> 00:08:50,088  
recommendation to the Committee

177  
00:08:48,320 --> 00:08:52,370  
recommends that the government consider

178  
00:08:50,089 --> 00:08:55,160  
the educational and communication

179  
00:08:52,370 --> 00:08:59,080  
strategies to improve vaccination rates

180  
00:08:55,159 --> 00:09:01,939  
proposed by submitters to this inquiry

181  
00:08:59,080 --> 00:09:03,320  
recommendation 3 the committee

182  
00:09:01,940 --> 00:09:05,810  
recommends that the government

183  
00:09:03,320 --> 00:09:08,390  
investigate a means of continuing to

184  
00:09:05,809 --> 00:09:12,679  
monitor conscientious objection if the

185  
00:09:08,389 --> 00:09:14,689  
bill is passed recommendation for the

186  
00:09:12,679 --> 00:09:17,088  
committee encourages the government to

187  
00:09:14,690 --> 00:09:20,589  
investigate the merits of a national

188  
00:09:17,089 --> 00:09:23,450  
vaccine Compensation Scheme

189  
00:09:20,589 --> 00:09:28,640  
recommendation 5 the committee

190  
00:09:23,450 --> 00:09:30,440  
recommends that the bill be passed so

191  
00:09:28,639 --> 00:09:32,259  
the next setting of the House of

192  
00:09:30,440 --> 00:09:35,510  
Representatives and the Senate is

193  
00:09:32,259 --> 00:09:40,429  
scheduled for the 23rd of November and

194  
00:09:35,509 --> 00:09:41,960  
we expect to hear more then this is

195  
00:09:40,429 --> 00:09:44,269  
Heidi Robertson signing off

196  
00:09:41,960 --> 00:09:46,639  
for now for more information on

197  
00:09:44,269 --> 00:09:52,220  
vaccinations and vaccine-preventable

198  
00:09:46,639 --> 00:09:57,259  
diseases please visit our website w WN

199  
00:09:52,220 --> 00:10:02,360  
rvs info and give us some love in the

200

00:09:57,259 --> 00:10:14,360  
way of a like on facebook thank you bye

201  
00:10:02,360 --> 00:10:16,639  
for now welcome to a week in science

202  
00:10:14,360 --> 00:10:19,370  
from RI oz bring you the science you

203  
00:10:16,639 --> 00:10:21,620  
need to know it was one small step for

204  
00:10:19,370 --> 00:10:23,899  
an animal one giant leap for the animal

205  
00:10:21,620 --> 00:10:26,120  
kingdom but just how did the first

206  
00:10:23,899 --> 00:10:28,549  
vertebrates walk onto land and breathe

207  
00:10:26,120 --> 00:10:35,600  
air for the first time it's time to take

208  
00:10:28,549 --> 00:10:38,059  
a closer look at our first steps to

209  
00:10:35,600 --> 00:10:40,310  
recent papers reveal key insights into

210  
00:10:38,059 --> 00:10:42,769  
how the first vertebrates walked onto

211  
00:10:40,309 --> 00:10:44,719  
land and took their first breath the

212  
00:10:42,769 --> 00:10:47,629  
mechanism that determines whether you

213  
00:10:44,720 --> 00:10:49,639  
have fish fins or walking limbs is the

214  
00:10:47,629 --> 00:10:52,039

rate at which a couple of hox genes are

215

00:10:49,639 --> 00:10:54,289

expressed hox genes are like Orchestra

216

00:10:52,039 --> 00:10:56,449

conductors they regulate how a whole

217

00:10:54,289 --> 00:10:58,909

suite of other genes perform and

218

00:10:56,450 --> 00:11:00,970

changing its rate of expression can

219

00:10:58,909 --> 00:11:03,439

radically alter how an organism develops

220

00:11:00,970 --> 00:11:05,810

we learn more about limb building when

221

00:11:03,440 --> 00:11:09,170

developmental embryologists switch the

222

00:11:05,809 --> 00:11:11,059

hox genes from a fish to a mouse the

223

00:11:09,169 --> 00:11:13,879

fish Hawks gene could not produce

224

00:11:11,059 --> 00:11:15,679

fingers and toes in mice thus the

225

00:11:13,879 --> 00:11:17,960

genetic apparatus required to make

226

00:11:15,679 --> 00:11:22,849

fingers and toes must have evolved after

227

00:11:17,960 --> 00:11:24,830

walking limbs developed and we also now

228

00:11:22,850 --> 00:11:27,409

know how breathing developed for the

229  
00:11:24,830 --> 00:11:29,150  
first time and guess what we almost

230  
00:11:27,409 --> 00:11:31,909  
ended up breathing through our ears a

231  
00:11:29,149 --> 00:11:34,819  
team studied live Polly terrod fish from

232  
00:11:31,909 --> 00:11:38,419  
Africa these fish have a simple lung but

233  
00:11:34,820 --> 00:11:40,700  
no windpipe the team found that 93% of

234  
00:11:38,419 --> 00:11:42,409  
the air getting into the lung came

235  
00:11:40,700 --> 00:11:45,110  
through holes in the tops of the head

236  
00:11:42,409 --> 00:11:47,509  
called spiracles being surrounded by

237  
00:11:45,110 --> 00:11:49,399  
bone these structures are usually found

238  
00:11:47,509 --> 00:11:51,500  
in fossils of advanced fish and

239  
00:11:49,399 --> 00:11:54,649  
primitive walking vertebrates the

240  
00:11:51,500 --> 00:11:56,629  
tetrapods so now we can track how this

241  
00:11:54,649 --> 00:11:59,389  
early breathing mechanism developed in

242  
00:11:56,629 --> 00:12:02,149  
more advanced tetrapods like us the

243  
00:11:59,389 --> 00:12:06,939  
spiracles ended up becoming our ears and

244  
00:12:02,149 --> 00:12:09,350  
now for fast facts about walking on land

245  
00:12:06,940 --> 00:12:11,750  
while the standard body plan for

246  
00:12:09,350 --> 00:12:14,120  
tetrapods includes five fingers and toes

247  
00:12:11,750 --> 00:12:16,370  
at the ends of each limb some of the

248  
00:12:14,120 --> 00:12:18,860  
earliest land Walker's had eight digits

249  
00:12:16,370 --> 00:12:20,779  
in recent years several fossil finds

250  
00:12:18,860 --> 00:12:22,990  
have completed the picture of every

251  
00:12:20,779 --> 00:12:26,089  
conceivable intermediate stage between

252  
00:12:22,990 --> 00:12:28,070  
advanced fish and the first land walking

253  
00:12:26,090 --> 00:12:30,379  
vertebrates the Queensland lungfish

254  
00:12:28,070 --> 00:12:32,480  
while not an immediate ancestor tool and

255  
00:12:30,379 --> 00:12:34,730  
walking vertebrates provides a clear

256  
00:12:32,480 --> 00:12:37,220  
picture of how air-breathing evolved in

257

00:12:34,730 --> 00:12:40,070  
fish before they walked onto the land

258  
00:12:37,220 --> 00:12:41,660  
and in case you're wondering Queensland

259  
00:12:40,070 --> 00:12:43,970  
lungfish are supposed to taste like a

260  
00:12:41,659 --> 00:12:46,730  
very oily salmon and they're covered in

261  
00:12:43,970 --> 00:12:48,560  
a thick sticky mucus I know that because

262  
00:12:46,730 --> 00:12:50,570  
I had to throw my shirt away after

263  
00:12:48,559 --> 00:12:53,119  
handling one of them that's it for this

264  
00:12:50,570 --> 00:12:55,340  
week in science for more information on

265  
00:12:53,120 --> 00:12:59,600  
walking on land go to the RAS website

266  
00:12:55,340 --> 00:13:03,410  
riaa us ok you follow us on twitter at

267  
00:12:59,600 --> 00:13:07,100  
our iOS and like us on Facebook I'm Paul

268  
00:13:03,409 --> 00:13:16,669  
Willis and we'll catch you next week

269  
00:13:07,100 --> 00:13:19,070  
I want to help support the skeptic zone

270  
00:13:16,669 --> 00:13:21,949  
and look pretty damn stylish while

271  
00:13:19,070 --> 00:13:26,120

you're about it visit mr. Katz origami

272

00:13:21,950 --> 00:13:28,940  
jewelry owww pigs on TV and click the

273

00:13:26,120 --> 00:13:32,539  
link or simply Google mr. Katz origami

274

00:13:28,940 --> 00:13:36,250  
jewelry also on Facebook pendants

275

00:13:32,539 --> 00:13:49,539  
earrings and cufflinks support mr. cat

276

00:13:36,250 --> 00:13:54,639  
support the skeptic zone here's may not

277

00:13:49,539 --> 00:13:54,639  
spooky action at a distance

278

00:13:56,039 --> 00:14:00,429  
we're here at skeptics at the pub and

279

00:13:58,330 --> 00:14:02,670  
there's a controversial chat going on

280

00:14:00,429 --> 00:14:04,659  
tonight it's going to be about

281

00:14:02,669 --> 00:14:06,159  
decriminalization of cannabis in so far

282

00:14:04,659 --> 00:14:08,379  
as being able to use for medical

283

00:14:06,159 --> 00:14:09,159  
purposes and can you let us know kind of

284

00:14:08,379 --> 00:14:11,740  
what we're going to be talking about

285

00:14:09,159 --> 00:14:13,929  
tonight yes I think our speaker who's

286  
00:14:11,740 --> 00:14:18,879  
involved in the area is going to be

287  
00:14:13,929 --> 00:14:22,769  
talking about the minefield that is that

288  
00:14:18,879 --> 00:14:25,330  
they are entering when it comes to

289  
00:14:22,769 --> 00:14:29,579  
allowing the medicinal use of cannabis

290  
00:14:25,330 --> 00:14:33,879  
for long-term illnesses like cancer

291  
00:14:29,580 --> 00:14:37,240  
epilepsy and other very very nasty

292  
00:14:33,879 --> 00:14:39,850  
illnesses I think it's fairly well

293  
00:14:37,240 --> 00:14:43,930  
established that cannabis can be of use

294  
00:14:39,850 --> 00:14:47,350  
and I think the question is just how how

295  
00:14:43,929 --> 00:14:50,049  
to harness that in a safe and reliable

296  
00:14:47,350 --> 00:14:52,360  
and legal way and does the legislation

297  
00:14:50,049 --> 00:14:54,099  
have to change you think there's a bit

298  
00:14:52,360 --> 00:14:55,659  
of woo around cannabis like there is

299  
00:14:54,100 --> 00:14:57,190  
around some of these things to speak to

300  
00:14:55,659 --> 00:14:59,199  
some people you'd think it was an actual

301  
00:14:57,190 --> 00:15:01,420  
miracle drug people i give the idea that

302  
00:14:59,200 --> 00:15:03,040  
it doesn't only have relief from the

303  
00:15:01,419 --> 00:15:04,659  
symptoms of cancer it actually cure it

304  
00:15:03,039 --> 00:15:06,610  
is he all sorts of things about it oh

305  
00:15:04,659 --> 00:15:09,309  
I've heard that two years and and yeah

306  
00:15:06,610 --> 00:15:11,620  
and I know somebody who had cancer has

307  
00:15:09,309 --> 00:15:13,599  
unfortunately died but they were very

308  
00:15:11,620 --> 00:15:16,360  
much into the cannabis oil you know

309  
00:15:13,600 --> 00:15:18,100  
supposed to cure and I think Jeremy my

310  
00:15:16,360 --> 00:15:21,220  
god yes I think there's a lot of woe

311  
00:15:18,100 --> 00:15:23,470  
attached to it simply because it's it's

312  
00:15:21,220 --> 00:15:26,470  
um it's you know that kind of drug

313  
00:15:23,470 --> 00:15:27,730  
really but that's not what we're going

314

00:15:26,470 --> 00:15:29,830  
to be talking tonight we're going to be

315  
00:15:27,730 --> 00:15:34,149  
talking about legitimate medical uses

316  
00:15:29,830 --> 00:15:35,379  
with a clinically proven effect yes

317  
00:15:34,149 --> 00:15:37,000  
because there are too many people want

318  
00:15:35,379 --> 00:15:39,549  
to jump on the bandwagon out there oh

319  
00:15:37,000 --> 00:15:41,080  
yes I think they they definitely want to

320  
00:15:39,549 --> 00:15:45,250  
jump on the bandwagon and perhaps

321  
00:15:41,080 --> 00:15:46,360  
exploit this exploit this but having

322  
00:15:45,250 --> 00:15:48,009  
said that

323  
00:15:46,360 --> 00:15:52,269  
I understand that that our speaker

324  
00:15:48,009 --> 00:15:54,189  
tonight is it's going to also going to

325  
00:15:52,269 --> 00:15:56,919  
be talking about the the commercial

326  
00:15:54,190 --> 00:15:58,450  
potential of this industry and if i

327  
00:15:56,919 --> 00:16:00,429  
understand i think it does have a huge

328  
00:15:58,450 --> 00:16:04,240

commercial potential domestically also

329

00:16:00,429 --> 00:16:06,299

get it for export so you know why stymie

330

00:16:04,240 --> 00:16:09,490

that if it can be done safely and

331

00:16:06,299 --> 00:16:11,649

legitimately what do you think we're

332

00:16:09,490 --> 00:16:13,209

talking about medicinal marijuana here

333

00:16:11,649 --> 00:16:14,828

this evening and there are legitimate

334

00:16:13,208 --> 00:16:16,899

uses of that but do you think people get

335

00:16:14,828 --> 00:16:19,120

a bit too they going to be too effusive

336

00:16:16,899 --> 00:16:21,879

about the possible benefits of cannabis

337

00:16:19,120 --> 00:16:25,000

sometimes well they're the only ones to

338

00:16:21,879 --> 00:16:28,480

know so who are we to know who we are

339

00:16:25,000 --> 00:16:30,879

not in chronic pain that's true I suffer

340

00:16:28,480 --> 00:16:33,220

from migraines actually and you but I

341

00:16:30,879 --> 00:16:35,620

have never found a suitable medication

342

00:16:33,220 --> 00:16:37,629

that will make a migraine at least

343  
00:16:35,620 --> 00:16:40,839  
bearable to stop me thinking of suicide

344  
00:16:37,629 --> 00:16:42,458  
yes I I know you have to stay inside for

345  
00:16:40,839 --> 00:16:45,550  
like is it more than one day you can go

346  
00:16:42,458 --> 00:16:48,609  
on for well one day and the day to

347  
00:16:45,549 --> 00:16:50,948  
recover can be so so it if it was

348  
00:16:48,610 --> 00:16:53,800  
medicinal marijuana available i'd

349  
00:16:50,948 --> 00:16:55,328  
probably be trying it but i wouldn't

350  
00:16:53,799 --> 00:16:57,819  
I've been our intention of trying it

351  
00:16:55,328 --> 00:16:59,979  
other worse hmm and do you think if they

352  
00:16:57,820 --> 00:17:01,778  
should hone the active ingredient down

353  
00:16:59,980 --> 00:17:04,808  
into a tablet or just let people be able

354  
00:17:01,778 --> 00:17:06,429  
to pipe it up if they feel like it I'll

355  
00:17:04,808 --> 00:17:09,519  
look I don't know it's so complicated

356  
00:17:06,429 --> 00:17:12,459  
yes what's going to stop it being

357  
00:17:09,519 --> 00:17:14,490  
criminalized as the main thing just how

358  
00:17:12,459 --> 00:17:16,170  
do you date the two

359  
00:17:14,490 --> 00:17:18,058  
and I don't have the answer there

360  
00:17:16,170 --> 00:17:21,769  
because there is a lot of people to

361  
00:17:18,058 --> 00:17:24,029  
think that that hemp can save the world

362  
00:17:21,769 --> 00:17:27,019  
hemp rope certainly enabled people to

363  
00:17:24,029 --> 00:17:29,160  
sail around the world and 200 years ago

364  
00:17:27,019 --> 00:17:31,879  
because have also got someone here what

365  
00:17:29,160 --> 00:17:36,029  
what your views on the on the subject

366  
00:17:31,880 --> 00:17:39,059  
I'm quite neutral on it I've only tried

367  
00:17:36,029 --> 00:17:42,058  
um cannabis once when I was very young

368  
00:17:39,058 --> 00:17:43,799  
but you think it should be investigated

369  
00:17:42,058 --> 00:17:46,428  
further do you think the claims a little

370  
00:17:43,799 --> 00:17:50,339  
bit exaggerated probably exaggerated

371

00:17:46,429 --> 00:17:52,500  
although not not completely useless so

372  
00:17:50,339 --> 00:17:55,589  
many it would it would it would be there

373  
00:17:52,500 --> 00:17:59,700  
with aspirin and um some of the other

374  
00:17:55,589 --> 00:18:00,990  
popular drugs hmm so well and you're

375  
00:17:59,700 --> 00:18:05,308  
just gonna wait to see what to said

376  
00:18:00,990 --> 00:18:06,359  
tonight I think so yes Tim mendham of

377  
00:18:05,308 --> 00:18:08,399  
course you're a man who went to a

378  
00:18:06,359 --> 00:18:09,899  
university in the 70s and you saw a few

379  
00:18:08,400 --> 00:18:12,330  
things I did see a few things I'd rather

380  
00:18:09,900 --> 00:18:14,130  
not talk about them XP hmm and it's what

381  
00:18:12,329 --> 00:18:16,019  
do you think of the the claims behind a

382  
00:18:14,130 --> 00:18:18,000  
medicinal use of cannabis at the moment

383  
00:18:16,019 --> 00:18:21,089  
in New South Wales medicinal I think has

384  
00:18:18,000 --> 00:18:22,200  
been limited actually although speaking

385  
00:18:21,089 --> 00:18:23,369

to some people they go a little bit too

386

00:18:22,200 --> 00:18:26,730  
far with their claims sometimes

387

00:18:23,369 --> 00:18:30,089  
something I think well I'm yeah scuze me

388

00:18:26,730 --> 00:18:31,349  
any claims about marijuana that I sort

389

00:18:30,089 --> 00:18:32,579  
of you mean the country for how they

390

00:18:31,349 --> 00:18:34,980  
mean they're lying about how effective

391

00:18:32,579 --> 00:18:36,480  
they are on a stick by you know that

392

00:18:34,980 --> 00:18:37,799  
there's sometimes the the range of

393

00:18:36,480 --> 00:18:39,808  
things that can treat is sometimes

394

00:18:37,799 --> 00:18:41,669  
expanded beyond yeah probably probably

395

00:18:39,808 --> 00:18:44,700  
I'm Noddin yeah it obviously doesn't

396

00:18:41,670 --> 00:18:47,190  
treat brain damage rather you create

397

00:18:44,700 --> 00:18:50,880  
some brain damage I believe I can

398

00:18:47,190 --> 00:18:52,320  
remember actually was was it prevalent

399

00:18:50,880 --> 00:18:53,760  
amongst the university when you were

400  
00:18:52,319 --> 00:18:56,129  
there or not or was it just sort of a

401  
00:18:53,759 --> 00:18:58,118  
secret underground thing no it wasn't

402  
00:18:56,130 --> 00:19:00,129  
sacred role like late

403  
00:18:58,118 --> 00:19:03,338  
there was an excellent little music room

404  
00:19:00,128 --> 00:19:05,978  
down below one of the Sydney Uni the

405  
00:19:03,338 --> 00:19:09,308  
union theater you to give and play music

406  
00:19:05,979 --> 00:19:11,469  
they listen to music and no one could

407  
00:19:09,308 --> 00:19:13,868  
see and good I mean literally you

408  
00:19:11,469 --> 00:19:15,939  
couldn't see him you're just smoky and

409  
00:19:13,868 --> 00:19:18,068  
with the authorities sort of turning a

410  
00:19:15,939 --> 00:19:20,019  
blind eye or they just weren't they

411  
00:19:18,068 --> 00:19:21,148  
didn't weren't up to it of course the

412  
00:19:20,019 --> 00:19:24,638  
police aren't allowed onto the campus

413  
00:19:21,148 --> 00:19:26,348  
okay okay so it was then I don't leave

414  
00:19:24,638 --> 00:19:27,578  
it is little case now but it was the

415  
00:19:26,348 --> 00:19:29,678  
case then I mean but they had to be

416  
00:19:27,578 --> 00:19:30,729  
invited on by the Vice Chancellor is

417  
00:19:29,679 --> 00:19:32,889  
something so they couldn't just wander

418  
00:19:30,729 --> 00:19:34,298  
run and do a random search they were a

419  
00:19:32,888 --> 00:19:35,678  
security guard where the University of I

420  
00:19:34,298 --> 00:19:37,358  
think they got they didn't care so

421  
00:19:35,679 --> 00:19:38,949  
you're gonna be certainly interested in

422  
00:19:37,358 --> 00:19:41,168  
the talk tonight absolutely interested

423  
00:19:38,949 --> 00:19:42,308  
you I have a lot of medical conditions

424  
00:19:41,169 --> 00:19:46,749  
which I'd like to hopefully that

425  
00:19:42,308 --> 00:19:48,128  
marijuana can cure oh yeah oh there's a

426  
00:19:46,749 --> 00:19:49,929  
lot of excitement has gone through the

427  
00:19:48,128 --> 00:19:51,788  
crown hotel here at skeptics in the pub

428

00:19:49,929 --> 00:19:53,559  
as dr. rachel has walked in and most

429  
00:19:51,788 --> 00:19:54,519  
people realized that that she owes the

430  
00:19:53,558 --> 00:19:58,328  
money so there's a bit of a kerfuffle

431  
00:19:54,519 --> 00:20:00,279  
going on dr. AG put 20 bucks dr. right

432  
00:19:58,328 --> 00:20:02,889  
you twenty bucks

433  
00:20:00,279 --> 00:20:04,269  
I look and look and look like I said

434  
00:20:02,890 --> 00:20:06,370  
there's a lot of people that dr. agios

435  
00:20:04,269 --> 00:20:08,019  
money too so it's pretty wild that she's

436  
00:20:06,369 --> 00:20:09,789  
shown a face at Sydney skeptics in the

437  
00:20:08,019 --> 00:20:11,680  
pub it's not to rate you welcome back I

438  
00:20:09,789 --> 00:20:13,779  
don't think you may not it's nice to be

439  
00:20:11,680 --> 00:20:17,140  
back no I believe you've been in Jackson

440  
00:20:13,779 --> 00:20:18,339  
Hole um is that a euphemism I don't know

441  
00:20:17,140 --> 00:20:19,600  
I don't know what goes on in that place

442  
00:20:18,339 --> 00:20:22,480

but yeah we're just say I'm going to

443

00:20:19,599 --> 00:20:24,159

Jackson Hole I don't know no it is a

444

00:20:22,480 --> 00:20:27,190

place yes I have been there it is in

445

00:20:24,160 --> 00:20:28,960

Wyoming and it's um a ski village pretty

446

00:20:27,190 --> 00:20:31,299

much so at the moment it is snowing

447

00:20:28,960 --> 00:20:32,680

there now I understand it's a place that

448

00:20:31,299 --> 00:20:34,299

has really rich people and many poor

449

00:20:32,680 --> 00:20:36,820

people it's sort of a dual economy going

450

00:20:34,299 --> 00:20:38,859

on yes I guess you could describe it as

451

00:20:36,819 --> 00:20:41,109

that because it's some wealthy because

452

00:20:38,859 --> 00:20:42,429

it's a ski resort and then the people

453

00:20:41,109 --> 00:20:44,259

that run the results you know the work

454

00:20:42,430 --> 00:20:46,539

is the people that run the cafes and

455

00:20:44,259 --> 00:20:49,089

bars and stuff they're all paid fairly

456

00:20:46,539 --> 00:20:51,579

average Lee being that it's American

457  
00:20:49,089 --> 00:20:54,699  
hospitality and that's endemic across

458  
00:20:51,579 --> 00:20:56,589  
the country and there's a very serious

459  
00:20:54,700 --> 00:20:59,950  
housing shortage issue in Jackson Hole

460  
00:20:56,589 --> 00:21:02,049  
as well okay so rent is very expensive

461  
00:20:59,950 --> 00:21:04,930  
and workers simply can't afford to live

462  
00:21:02,049 --> 00:21:06,759  
in the town yeah so dr. Rachel Dunlop

463  
00:21:04,930 --> 00:21:08,350  
what have you been up to since last time

464  
00:21:06,759 --> 00:21:09,579  
we spoke to hear you you wouldn't even

465  
00:21:08,349 --> 00:21:11,339  
tell us where you were going probably

466  
00:21:09,579 --> 00:21:13,629  
sure didn't wanna say Jackson Hole

467  
00:21:11,339 --> 00:21:17,079  
that's right i wouldn't even tell you

468  
00:21:13,630 --> 00:21:19,510  
well yeah yeah yeah um oh well yeah I

469  
00:21:17,079 --> 00:21:21,819  
mean I've been back and forth to

470  
00:21:19,509 --> 00:21:23,529  
Australia a couple of times I was in

471  
00:21:21,819 --> 00:21:26,559  
Jackson for a few months and then I came

472  
00:21:23,529 --> 00:21:31,629  
back here to Melbourne went back to

473  
00:21:26,559 --> 00:21:33,639  
Jackson came back here and then my boss

474  
00:21:31,630 --> 00:21:35,740  
decided to send me to Sydney to do some

475  
00:21:33,640 --> 00:21:37,360  
work because we don't have the right

476  
00:21:35,740 --> 00:21:40,599  
equipment that we need to do this

477  
00:21:37,359 --> 00:21:41,919  
particular project in the USA but they

478  
00:21:40,599 --> 00:21:43,490  
happen to have it here at Macquarie

479  
00:21:41,920 --> 00:21:46,700  
University

480  
00:21:43,490 --> 00:21:48,470  
so I managed to wrangle my way but get a

481  
00:21:46,700 --> 00:21:50,120  
trip back to Australia to do a month's

482  
00:21:48,470 --> 00:21:53,079  
worth of work in Macquarie University

483  
00:21:50,119 --> 00:21:56,299  
yeah of course your researchers into

484  
00:21:53,079 --> 00:21:58,250  
motor neuron disease and possible causes

485

00:21:56,299 --> 00:21:59,480  
of it and what what path you were

486  
00:21:58,250 --> 00:22:01,279  
examining at the moment and we must

487  
00:21:59,480 --> 00:22:02,960  
stress that this is just merely an

488  
00:22:01,279 --> 00:22:06,049  
initial finding but it probably means

489  
00:22:02,960 --> 00:22:07,220  
that you will cure cancer that's that's

490  
00:22:06,049 --> 00:22:10,279  
what I'm planning to do next week

491  
00:22:07,220 --> 00:22:12,049  
actually yeah yeah nowhere and we've got

492  
00:22:10,279 --> 00:22:13,759  
a drug now that we've been trialing for

493  
00:22:12,049 --> 00:22:15,740  
a couple of years and we're going to put

494  
00:22:13,759 --> 00:22:18,200  
it into Phase two trials next year I

495  
00:22:15,740 --> 00:22:20,450  
have some for Saturday night ah you can

496  
00:22:18,200 --> 00:22:26,179  
buy it online yeah but not three Silk

497  
00:22:20,450 --> 00:22:28,400  
Road just three amazon actually yeah so

498  
00:22:26,179 --> 00:22:31,280  
we're doing phase 2 trials now to see

499  
00:22:28,400 --> 00:22:34,040

because when when drugs go into trials

500

00:22:31,279 --> 00:22:35,450

with humans you do the first lot which

501

00:22:34,039 --> 00:22:37,970

is called phase one and that's just to

502

00:22:35,450 --> 00:22:40,308

check if the drug is toxic and if people

503

00:22:37,970 --> 00:22:42,319

can tolerate it so it's a safety check

504

00:22:40,308 --> 00:22:45,710

if you like and that's a small number of

505

00:22:42,319 --> 00:22:49,069

patients usually less than 100 and then

506

00:22:45,710 --> 00:22:50,990

if that's a successful you go into the

507

00:22:49,069 --> 00:22:53,149

next stage which is called phase 2 and

508

00:22:50,990 --> 00:22:55,190

that's to work out if the drug actually

509

00:22:53,150 --> 00:22:57,110

does anything doesn't slow down the

510

00:22:55,190 --> 00:22:59,660

disease doesn't cure the disease does it

511

00:22:57,109 --> 00:23:01,609

have any efficacy as as the scientific

512

00:22:59,660 --> 00:23:04,279

term goes so that's where we're going

513

00:23:01,609 --> 00:23:07,039

next and at the moment we're looking for

514  
00:23:04,279 --> 00:23:11,480  
2.5 million bucks to do that so if

515  
00:23:07,039 --> 00:23:12,859  
anybody has a spare 2.5 million bucks um

516  
00:23:11,480 --> 00:23:17,240  
that would be good we did you say

517  
00:23:12,859 --> 00:23:18,709  
Kickstarter maybe maybe yeah I mean it

518  
00:23:17,240 --> 00:23:20,660  
has that has actually been discussed

519  
00:23:18,710 --> 00:23:22,100  
Kickstarter has been discussed now

520  
00:23:20,660 --> 00:23:24,290  
you're hoping this will be abused

521  
00:23:22,099 --> 00:23:26,629  
against motor neuron disease now is that

522  
00:23:24,289 --> 00:23:28,460  
across the board so would that be ms as

523  
00:23:26,630 --> 00:23:30,830  
we know it as well or different sorts

524  
00:23:28,460 --> 00:23:32,808  
here what what type well motor neuron

525  
00:23:30,829 --> 00:23:35,869  
disease as you suggest is an umbrella

526  
00:23:32,808 --> 00:23:37,399  
term for a lot of different disorders ms

527  
00:23:35,869 --> 00:23:39,678  
though is not a neurodegenerative

528  
00:23:37,400 --> 00:23:41,980  
disease it's actually an autoimmune

529  
00:23:39,679 --> 00:23:44,110  
disease so that's a different category

530  
00:23:41,980 --> 00:23:46,058  
but this will apply possibly to

531  
00:23:44,109 --> 00:23:48,969  
Parkinson's disease Alzheimer's disease

532  
00:23:46,058 --> 00:23:51,548  
frontal temporal dementia Lewy body

533  
00:23:48,970 --> 00:23:53,798  
dementia which actually was announced

534  
00:23:51,548 --> 00:23:56,650  
today that it's thought that Robin

535  
00:23:53,798 --> 00:23:59,889  
Williams had frontal Lewy body dementia

536  
00:23:56,650 --> 00:24:01,720  
actually and all those diseases a term

537  
00:23:59,890 --> 00:24:03,600  
to neurodegenerative diseases so our

538  
00:24:01,720 --> 00:24:06,370  
therapy may help with any of those

539  
00:24:03,599 --> 00:24:07,719  
possibly has your research also

540  
00:24:06,369 --> 00:24:11,289  
suggested there's something we should

541  
00:24:07,720 --> 00:24:15,160  
avoid doing or eating or being or

542

00:24:11,289 --> 00:24:17,319  
breathing yes yes I mean specifically

543  
00:24:15,160 --> 00:24:19,990  
we're looking at a toxin found and

544  
00:24:17,319 --> 00:24:22,178  
blue-green algae and you might say to me

545  
00:24:19,990 --> 00:24:25,048  
well Rachel I don't eat algae so I'm

546  
00:24:22,179 --> 00:24:28,210  
fine but it turns out that this toxin

547  
00:24:25,048 --> 00:24:29,950  
comes from blue-green algae that you

548  
00:24:28,210 --> 00:24:32,169  
find on the surface of lakes and rivers

549  
00:24:29,950 --> 00:24:36,308  
and it can then get into the food chain

550  
00:24:32,169 --> 00:24:38,650  
through seafood through muscles through

551  
00:24:36,308 --> 00:24:42,279  
the water and if for example you water

552  
00:24:38,650 --> 00:24:43,990  
crops with unfiltered water that has the

553  
00:24:42,279 --> 00:24:46,000  
toxin it can get into things like leafy

554  
00:24:43,990 --> 00:24:48,130  
vegetables and wheat and rice and that

555  
00:24:46,000 --> 00:24:50,980  
sort of thing so actually it can be in

556  
00:24:48,130 --> 00:24:52,510

all kinds of foods and currently people

557

00:24:50,980 --> 00:24:53,860

wouldn't be trying to necessarily filter

558

00:24:52,509 --> 00:24:55,779

it out because it's not considered a

559

00:24:53,859 --> 00:24:57,879

problem is that true or not no it is

560

00:24:55,779 --> 00:24:59,918

considered problem okay but people

561

00:24:57,880 --> 00:25:02,320

aren't testing for it because they don't

562

00:24:59,919 --> 00:25:06,480

have a test for it yet oh there's not a

563

00:25:02,319 --> 00:25:10,240

simple quick cheap way of detecting it

564

00:25:06,480 --> 00:25:12,069

at the moment so the only advice I could

565

00:25:10,240 --> 00:25:14,589

give you is to just don't eat stuff

566

00:25:12,069 --> 00:25:18,369

that's come from really you know green

567

00:25:14,589 --> 00:25:20,379

mucky waters and I mean how can you tell

568

00:25:18,369 --> 00:25:22,928

that Maynard you may ask me if you just

569

00:25:20,380 --> 00:25:26,080

go buy it from your fishmonger well you

570

00:25:22,929 --> 00:25:27,910

probably can't so I remember there are

571  
00:25:26,079 --> 00:25:29,589  
studies showing that muscles have x

572  
00:25:27,910 --> 00:25:31,450  
levels of this toxin because they filter

573  
00:25:29,589 --> 00:25:34,240  
water so anything that's a filter feeder

574  
00:25:31,450 --> 00:25:36,460  
like a muscle or a clam they will filter

575  
00:25:34,240 --> 00:25:38,950  
water and then whatever was in the water

576  
00:25:36,460 --> 00:25:40,730  
retains back in their flesh so they can

577  
00:25:38,950 --> 00:25:42,529  
have high levels of the toxin

578  
00:25:40,730 --> 00:25:44,360  
yeah so you think that a bit of a

579  
00:25:42,529 --> 00:25:47,599  
turning point about this in a few years

580  
00:25:44,359 --> 00:25:51,529  
time but we goin uh huh I think that's

581  
00:25:47,599 --> 00:25:54,319  
happening soon we are one of my

582  
00:25:51,529 --> 00:25:56,869  
collaboration groups we had a big grant

583  
00:25:54,319 --> 00:25:59,000  
awarded to us just this week which is

584  
00:25:56,869 --> 00:26:00,979  
looking at the distribution of this

585  
00:25:59,000 --> 00:26:03,160  
toxin in Australia because nobody has

586  
00:26:00,980 --> 00:26:05,240  
demonstrated yet that is actually here

587  
00:26:03,160 --> 00:26:07,220  
so that's going to be something we're

588  
00:26:05,240 --> 00:26:08,660  
doing in the next few years and there's

589  
00:26:07,220 --> 00:26:11,360  
a lot of stuff we're working on the u.s.

590  
00:26:08,660 --> 00:26:14,330  
that I can't talk about for IP reasons

591  
00:26:11,359 --> 00:26:16,789  
but that will I think that will

592  
00:26:14,329 --> 00:26:19,939  
accelerate research in this area once

593  
00:26:16,789 --> 00:26:21,289  
these things are done okay so just for

594  
00:26:19,940 --> 00:26:24,110  
the rest of us and for the listeners of

595  
00:26:21,289 --> 00:26:27,619  
the skeptic zone um what are the big um

596  
00:26:24,109 --> 00:26:30,349  
the turning points in this investigation

597  
00:26:27,619 --> 00:26:31,939  
and research are doing at what points do

598  
00:26:30,349 --> 00:26:33,529  
you go yeah I mean what was the last one

599

00:26:31,940 --> 00:26:36,500  
we went yes we've turned a major point

600  
00:26:33,529 --> 00:26:39,379  
here you've reached the junction yeah

601  
00:26:36,500 --> 00:26:40,880  
was it a slow gradual thing I mean I get

602  
00:26:39,380 --> 00:26:43,160  
asked this question quite a lot and I

603  
00:26:40,880 --> 00:26:46,340  
don't science doesn't really work that

604  
00:26:43,160 --> 00:26:47,840  
way even though it as a researcher at

605  
00:26:46,339 --> 00:26:50,569  
the coalface that's not really how it

606  
00:26:47,839 --> 00:26:52,639  
works but that's how people picture it

607  
00:26:50,569 --> 00:26:54,589  
to work and that's how it's marketed to

608  
00:26:52,640 --> 00:26:57,250  
work and that's you know what press

609  
00:26:54,589 --> 00:27:00,439  
releases try to allude to I suppose but

610  
00:26:57,250 --> 00:27:01,730  
really it is a slow burn and the stuff

611  
00:27:00,440 --> 00:27:05,298  
that we've been working on for the last

612  
00:27:01,730 --> 00:27:08,599  
three is we sort of came across by

613  
00:27:05,298 --> 00:27:10,579

accident so you know people tend to

614

00:27:08,599 --> 00:27:11,750

think that science is like your reach a

615

00:27:10,579 --> 00:27:13,879

moment where you look at something and

616

00:27:11,750 --> 00:27:15,859

go oh wow that's amazing I've got

617

00:27:13,880 --> 00:27:17,840

something here but more often than not

618

00:27:15,859 --> 00:27:19,399

the kind of discoveries that become

619

00:27:17,839 --> 00:27:21,349

important and useful or the ones that

620

00:27:19,400 --> 00:27:24,559

you go I don't really understand that

621

00:27:21,349 --> 00:27:26,659

that's that's weird why it was like that

622

00:27:24,558 --> 00:27:28,190

I don't understand that and dr. Rocha

623

00:27:26,660 --> 00:27:30,019

have you really wanted to punch any

624

00:27:28,190 --> 00:27:31,700

journalist slightly that of our stupid

625

00:27:30,019 --> 00:27:32,929

questions or got the wrong end of the

626

00:27:31,700 --> 00:27:35,690

stick and then proceeded the beat about

627

00:27:32,929 --> 00:27:38,250

the bush with it no never and you know

628  
00:27:35,690 --> 00:27:40,019  
but you know why may not because

629  
00:27:38,250 --> 00:27:42,059  
because I've learned from people like

630  
00:27:40,019 --> 00:27:45,900  
yourself and from other journals on that

631  
00:27:42,059 --> 00:27:48,539  
smart maybe your professional you're a

632  
00:27:45,900 --> 00:27:53,190  
professional journal say I've learned

633  
00:27:48,539 --> 00:27:55,440  
have you spoken with the ABCs I am I

634  
00:27:53,190 --> 00:27:59,970  
haven't been to that part of the HR

635  
00:27:55,440 --> 00:28:01,890  
website no but but if you breathe

636  
00:27:59,970 --> 00:28:04,259  
journalists properly and you understand

637  
00:28:01,890 --> 00:28:07,110  
what they want and you give them short

638  
00:28:04,259 --> 00:28:10,710  
sharp answers you will usually end up

639  
00:28:07,109 --> 00:28:12,629  
with a good result so no I haven't had

640  
00:28:10,710 --> 00:28:14,579  
that recently because I always go into

641  
00:28:12,630 --> 00:28:16,980  
those sort of situations where i briefed

642  
00:28:14,579 --> 00:28:19,679  
them well beforehand I asked for the

643  
00:28:16,980 --> 00:28:22,140  
questions before the interview always

644  
00:28:19,680 --> 00:28:23,970  
asked for the questions I asked was the

645  
00:28:22,140 --> 00:28:25,890  
context of the report I asked who else

646  
00:28:23,970 --> 00:28:28,259  
is going to be in the report so I know

647  
00:28:25,890 --> 00:28:29,940  
exactly I mean and that's particularly

648  
00:28:28,259 --> 00:28:32,549  
important with vaccination stories by

649  
00:28:29,940 --> 00:28:34,230  
the way because several tribes have had

650  
00:28:32,549 --> 00:28:35,789  
to pull out of interviews about

651  
00:28:34,230 --> 00:28:37,380  
vaccinations if they've told me they've

652  
00:28:35,789 --> 00:28:39,089  
got an anti Baxter on as well as me

653  
00:28:37,380 --> 00:28:42,680  
because I will not participate in

654  
00:28:39,089 --> 00:28:45,119  
reports that perpetuate false balance so

655  
00:28:42,680 --> 00:28:46,259  
I've not had that issue with Joe nose at

656

00:28:45,119 --> 00:28:48,659  
all and I did an interview this

657  
00:28:46,259 --> 00:28:51,000  
afternoon I'm via skype for a South

658  
00:28:48,660 --> 00:28:53,610  
African Current Affair show and it was

659  
00:28:51,000 --> 00:28:54,869  
got done in 20 minutes because I asked

660  
00:28:53,609 --> 00:28:57,059  
for the questions beforehand I was

661  
00:28:54,869 --> 00:28:58,679  
prepared i rattled them off that was it

662  
00:28:57,059 --> 00:29:00,960  
an easy

663  
00:28:58,680 --> 00:29:02,730  
and getting back to the regular sort of

664  
00:29:00,960 --> 00:29:04,140  
skepticism what sort of Wu has kept you

665  
00:29:02,730 --> 00:29:06,930  
up at night telling people they're wrong

666  
00:29:04,140 --> 00:29:08,580  
on the Internet well it's funny you

667  
00:29:06,930 --> 00:29:10,470  
should ask me that question do that be

668  
00:29:08,579 --> 00:29:12,449  
something there's always something well

669  
00:29:10,470 --> 00:29:15,120  
there's the town where I've been living

670  
00:29:12,450 --> 00:29:18,360

in Wyoming Jackson Hole is very much a

671

00:29:15,119 --> 00:29:19,889

we were town you know no it is and and

672

00:29:18,359 --> 00:29:22,829

when I first got there there were people

673

00:29:19,890 --> 00:29:25,770

asking me if I'd heard of some

674

00:29:22,829 --> 00:29:27,929

Australian guy who's a famous juicer and

675

00:29:25,769 --> 00:29:30,569

I can't even remember his name now but

676

00:29:27,930 --> 00:29:33,180

he made a movie called fat sick and dead

677

00:29:30,569 --> 00:29:34,649

or and almost dead or something it's a

678

00:29:33,180 --> 00:29:36,870

really famous in the States and it was

679

00:29:34,650 --> 00:29:38,430

about you know the classic journey of he

680

00:29:36,869 --> 00:29:40,169

was really overweight and ill and high

681

00:29:38,430 --> 00:29:43,200

blood pressure and so he started juicing

682

00:29:40,170 --> 00:29:44,850

in only eating you know like chaos and

683

00:29:43,200 --> 00:29:47,100

smoothies and he lost weight and blah

684

00:29:44,849 --> 00:29:48,809

blah blah I've lost weight I know you

685  
00:29:47,099 --> 00:29:53,849  
have what have you been up to I got

686  
00:29:48,809 --> 00:29:57,569  
dumped Oh see that's not that's not a

687  
00:29:53,849 --> 00:29:59,129  
diet that i'd recommend I'm a pepper but

688  
00:29:57,569 --> 00:30:01,619  
you got to get something out of it I

689  
00:29:59,130 --> 00:30:04,080  
suppose if it isn't like you were needed

690  
00:30:01,619 --> 00:30:05,729  
to lose weight not to be keen weird i'm

691  
00:30:04,079 --> 00:30:08,309  
wearing my knight in 84 suit i just

692  
00:30:05,730 --> 00:30:11,099  
realized that's 31 years ago right sue

693  
00:30:08,309 --> 00:30:12,690  
so Alicia can fit into your 1984 suit

694  
00:30:11,099 --> 00:30:14,879  
that's right should you be wearing a

695  
00:30:12,690 --> 00:30:18,269  
suit from 1984 but I think we're getting

696  
00:30:14,880 --> 00:30:20,010  
off topic here you completely derail

697  
00:30:18,269 --> 00:30:22,230  
this discussion didn't you hear so maybe

698  
00:30:20,009 --> 00:30:24,240  
I can have the getting dumped diet maybe

699  
00:30:22,230 --> 00:30:25,319  
you could then so i just have encouraged

700  
00:30:24,240 --> 00:30:27,900  
people to go out with inappropriate

701  
00:30:25,319 --> 00:30:29,819  
people yeah and then you can make a

702  
00:30:27,900 --> 00:30:31,530  
movie and this on netflix i haven't seen

703  
00:30:29,819 --> 00:30:34,460  
it I'm gonna hate monetize there's a lot

704  
00:30:31,529 --> 00:30:37,079  
of people do it on their own time yeah

705  
00:30:34,460 --> 00:30:40,140  
yeah there's a family need something you

706  
00:30:37,079 --> 00:30:41,970  
can maybe explore it I know yeah yeah so

707  
00:30:40,140 --> 00:30:44,310  
this guy's juicing things are people are

708  
00:30:41,970 --> 00:30:46,230  
going crikey they've been saying he's

709  
00:30:44,309 --> 00:30:47,369  
juicing stuff in his Australian well

710  
00:30:46,230 --> 00:30:49,470  
it's funny you should mention cranky

711  
00:30:47,369 --> 00:30:51,269  
because it reminds me of when you know

712  
00:30:49,470 --> 00:30:53,630  
Steve Irwin was around and he used to be

713

00:30:51,269 --> 00:30:55,220  
extremely famous in the USA

714  
00:30:53,630 --> 00:30:57,230  
yea though I had never heard of him in

715  
00:30:55,220 --> 00:30:58,940  
Australia many people hadn't because he

716  
00:30:57,230 --> 00:31:01,130  
was more famous there than he was here

717  
00:30:58,940 --> 00:31:04,070  
this guy and his name I can't even

718  
00:31:01,130 --> 00:31:07,460  
recall is the same deal ok very famous

719  
00:31:04,069 --> 00:31:09,500  
for juicing ok so did they ask you did

720  
00:31:07,460 --> 00:31:11,329  
you know him I guess cuz everyone knows

721  
00:31:09,500 --> 00:31:13,190  
everyone in Australia I don't think they

722  
00:31:11,329 --> 00:31:16,069  
meant it that way I just meant do you

723  
00:31:13,190 --> 00:31:17,809  
know of him not necessarily do know who

724  
00:31:16,069 --> 00:31:19,309  
he is some had any local battles with

725  
00:31:17,809 --> 00:31:25,369  
woo like fluoridation or anything like

726  
00:31:19,309 --> 00:31:28,609  
that um no no I've had to be very

727  
00:31:25,369 --> 00:31:31,699

careful about you live there I live

728

00:31:28,609 --> 00:31:35,419

there so in fact it's been a good lesson

729

00:31:31,700 --> 00:31:37,700

in how to deal with these things without

730

00:31:35,420 --> 00:31:39,470

being a deacon food if you like you know

731

00:31:37,700 --> 00:31:41,630

how feel played that many years ago

732

00:31:39,470 --> 00:31:43,610

about don't be a deacon yelling at

733

00:31:41,630 --> 00:31:45,200

people's not going to help so you just

734

00:31:43,609 --> 00:31:48,439

have to kind of lead them to that

735

00:31:45,200 --> 00:31:52,340

decision themselves and an offer advice

736

00:31:48,440 --> 00:31:54,950

without being you know what's the word

737

00:31:52,339 --> 00:31:57,859

I'm looking for rude more you know

738

00:31:54,950 --> 00:32:00,259

condescending farty farty you're

739

00:31:57,859 --> 00:32:01,789

patronizing and there's a state jackson

740

00:32:00,259 --> 00:32:03,890

hole in a state where marijuana is

741

00:32:01,789 --> 00:32:07,369

available for medicinal purposes or not

742  
00:32:03,890 --> 00:32:09,530  
not yet no not yet but Colorado is and

743  
00:32:07,369 --> 00:32:11,059  
that's not far away from us and I

744  
00:32:09,529 --> 00:32:13,309  
believe they've done very well out of

745  
00:32:11,059 --> 00:32:15,589  
that they like made a huge amount of

746  
00:32:13,309 --> 00:32:17,480  
money from the you know the taxes they

747  
00:32:15,589 --> 00:32:19,669  
took from that and they've funded all

748  
00:32:17,480 --> 00:32:22,640  
this public stuff like schools and

749  
00:32:19,670 --> 00:32:24,380  
things so yeah yeah that's cool well

750  
00:32:22,640 --> 00:32:25,759  
what do you think of the battles going

751  
00:32:24,380 --> 00:32:27,980  
to be here in New South Wales to

752  
00:32:25,759 --> 00:32:30,650  
possibly get medicinal use of cannabis

753  
00:32:27,980 --> 00:32:32,089  
going in New South Wales well I just

754  
00:32:30,650 --> 00:32:33,860  
think it's a matter of time isn't it I

755  
00:32:32,089 --> 00:32:36,199  
don't think it's gonna be you know it'll

756  
00:32:33,859 --> 00:32:37,759  
take time but I think it'll happen like

757  
00:32:36,200 --> 00:32:39,620  
gay marriage it's gonna happen it's like

758  
00:32:37,759 --> 00:32:41,029  
well why muck around and waste people's

759  
00:32:39,619 --> 00:32:43,399  
time let's just deal with it and do it

760  
00:32:41,029 --> 00:32:44,750  
it's ridiculous you look for many years

761  
00:32:43,400 --> 00:32:46,160  
I fought for the medicinal use of

762  
00:32:44,750 --> 00:32:48,980  
whipped cream bulbs but I was always

763  
00:32:46,160 --> 00:32:49,840  
unsuccessful were you shelving them

764  
00:32:48,980 --> 00:32:52,240  
though may not

765  
00:32:49,839 --> 00:32:57,038  
supposed to do that Bobby I'll be right

766  
00:32:52,240 --> 00:32:58,509  
back my head's really spinning now

767  
00:32:57,038 --> 00:33:02,349  
because I've just been watching lots of

768  
00:32:58,509 --> 00:33:03,879  
legal talk about legalizing cannabis for

769  
00:33:02,349 --> 00:33:05,048  
medicine or use and I think I should

770

00:33:03,880 --> 00:33:07,480  
pass you over to someone who really

771  
00:33:05,048 --> 00:33:09,400  
knows what it is who we got here dr.

772  
00:33:07,480 --> 00:33:13,480  
Theresa nicoletti I'm a partner at Piper

773  
00:33:09,400 --> 00:33:18,070  
alderman and I practice in intellectual

774  
00:33:13,480 --> 00:33:19,900  
property my specialty is in legal issues

775  
00:33:18,069 --> 00:33:22,740  
in the pharmaceutical and biotech

776  
00:33:19,900 --> 00:33:25,240  
industry where are involved in the

777  
00:33:22,740 --> 00:33:28,509  
legalization of medicinal cannabis and

778  
00:33:25,240 --> 00:33:30,460  
we are constantly engaging with state

779  
00:33:28,509 --> 00:33:34,028  
and federal governments to try and get

780  
00:33:30,460 --> 00:33:36,460  
our heads around a framework that will

781  
00:33:34,028 --> 00:33:38,409  
allow a medicinal cannabis industry to

782  
00:33:36,460 --> 00:33:39,819  
operate in Australia our politicians a

783  
00:33:38,409 --> 00:33:41,409  
bit scared at this do you think there's

784  
00:33:39,819 --> 00:33:45,038

votes initial it's a bit of a touchy

785

00:33:41,409 --> 00:33:46,778

subject I think that look I think there

786

00:33:45,038 --> 00:33:49,509

is a bit of controversy around it

787

00:33:46,778 --> 00:33:50,980

because of the historical stigma

788

00:33:49,509 --> 00:33:53,619

associated with the use of medicinal

789

00:33:50,980 --> 00:33:57,190

cannabis but what it comes back to is

790

00:33:53,619 --> 00:33:59,528

that there are genuine therapeutic

791

00:33:57,190 --> 00:34:01,120

benefits for products that are derived

792

00:33:59,528 --> 00:34:03,669

from cannabis and and that's what we

793

00:34:01,119 --> 00:34:05,619

should focus on providing access for

794

00:34:03,669 --> 00:34:07,480

medicinal on scientific yes and that's

795

00:34:05,619 --> 00:34:09,279

entirely consistent with the convention

796

00:34:07,480 --> 00:34:11,769

now you mentioned that there are large

797

00:34:09,280 --> 00:34:14,019

overseas corporations that could swoop

798

00:34:11,769 --> 00:34:16,750

in and do this if we if we don't get a

799  
00:34:14,019 --> 00:34:18,989  
move on well yes there is always that

800  
00:34:16,750 --> 00:34:22,179  
possibility but they will also have to

801  
00:34:18,989 --> 00:34:23,739  
operate under the regulatory framework

802  
00:34:22,179 --> 00:34:25,599  
so if they want to bring in their drugs

803  
00:34:23,739 --> 00:34:28,269  
they have to submit to the same

804  
00:34:25,599 --> 00:34:30,879  
evaluation process that any company

805  
00:34:28,269 --> 00:34:34,759  
whether it's in Australia or over

806  
00:34:30,878 --> 00:34:36,618  
it has to submit to but there are

807  
00:34:34,760 --> 00:34:38,030  
overseas companies that are bringing in

808  
00:34:36,619 --> 00:34:41,450  
their product for clinical trial

809  
00:34:38,030 --> 00:34:43,099  
purposes and there are also Australian

810  
00:34:41,449 --> 00:34:45,138  
companies that can provide access to

811  
00:34:43,099 --> 00:34:46,309  
those products for that purpose so I

812  
00:34:45,139 --> 00:34:48,798  
think Australia should try and

813  
00:34:46,309 --> 00:34:51,950  
facilitate companies in Australia that

814  
00:34:48,798 --> 00:34:53,509  
can provide that access and so the

815  
00:34:51,949 --> 00:34:54,949  
listeners probably wondering well what

816  
00:34:53,510 --> 00:34:58,039  
can I do about it how can i educate

817  
00:34:54,949 --> 00:34:59,719  
myself is a best place to go to simply

818  
00:34:58,039 --> 00:35:01,099  
find out what needs to be done or what

819  
00:34:59,719 --> 00:35:04,608  
the average person could have an effect

820  
00:35:01,099 --> 00:35:06,380  
upon your five different information at

821  
00:35:04,608 --> 00:35:08,239  
different sites so you'll find

822  
00:35:06,380 --> 00:35:11,180  
information about the regulation of

823  
00:35:08,239 --> 00:35:14,598  
drugs regular rate generally on the tj's

824  
00:35:11,179 --> 00:35:16,368  
website there's access to all the

825  
00:35:14,599 --> 00:35:18,710  
legislation but it's a it's a minefield

826  
00:35:16,369 --> 00:35:20,780  
may not what could I tell you it's taken

827

00:35:18,710 --> 00:35:23,150  
me months to actually get my head around

828  
00:35:20,780 --> 00:35:24,890  
it myself and I work in the area and you

829  
00:35:23,150 --> 00:35:26,510  
had that was beautifully and succinctly

830  
00:35:24,889 --> 00:35:28,308  
put there but even then I was spinning

831  
00:35:26,510 --> 00:35:29,660  
because people are talking of we might

832  
00:35:28,309 --> 00:35:31,160  
better get this done in six months and

833  
00:35:29,659 --> 00:35:32,659  
as you showed there are certain things

834  
00:35:31,159 --> 00:35:34,730  
like what happens if something goes

835  
00:35:32,659 --> 00:35:36,500  
wrong who's who's responsible who's

836  
00:35:34,730 --> 00:35:38,809  
going to pay for it those are huge

837  
00:35:36,500 --> 00:35:41,239  
questions yes yes and that's why we need

838  
00:35:38,809 --> 00:35:43,039  
regulators in place so there is talk

839  
00:35:41,239 --> 00:35:44,899  
about a separate regulator for medicinal

840  
00:35:43,039 --> 00:35:47,450  
cannabis but we already have a very

841  
00:35:44,900 --> 00:35:50,059

strong regulator that's the TGA who

842

00:35:47,449 --> 00:35:52,969

already regulate narcotic drugs and and

843

00:35:50,059 --> 00:35:54,849

lower risk drugs and medical devices and

844

00:35:52,969 --> 00:35:58,429

so I think we should draw on that

845

00:35:54,849 --> 00:36:00,859

existing framework to to make this

846

00:35:58,429 --> 00:36:02,058

access to medicinal cannabis work okay

847

00:36:00,858 --> 00:36:05,900

and what is the best way to educate

848

00:36:02,059 --> 00:36:08,030

ourselves generally the way we all

849

00:36:05,900 --> 00:36:11,240

educate ourselves Maynard the website

850

00:36:08,030 --> 00:36:14,269

but but as I said I can't tell you how

851

00:36:11,239 --> 00:36:16,269

many sources I've seen that you could

852

00:36:14,269 --> 00:36:19,400

actually have this information out there

853

00:36:16,269 --> 00:36:20,780

and just just off the top of your head

854

00:36:19,400 --> 00:36:22,309

what do you think would be the main use

855

00:36:20,780 --> 00:36:23,990

of the medicinal that you said there's

856  
00:36:22,309 --> 00:36:25,400  
many things that look promising what's

857  
00:36:23,989 --> 00:36:27,098  
the one you think in your own mind and

858  
00:36:25,400 --> 00:36:29,599  
we're not going to hold you to it there

859  
00:36:27,099 --> 00:36:35,480  
look the ones I see having the most

860  
00:36:29,599 --> 00:36:38,960  
promise are for epilepsy multiple

861  
00:36:35,480 --> 00:36:40,880  
sclerosis has established use also the

862  
00:36:38,960 --> 00:36:43,670  
reduction of pain and stimulation of

863  
00:36:40,880 --> 00:36:48,380  
appetite so there is some promise in

864  
00:36:43,670 --> 00:36:50,329  
cancer pain for THC and CBD products and

865  
00:36:48,380 --> 00:36:52,280  
this is a serious issue you get a bit

866  
00:36:50,329 --> 00:36:53,809  
six sums of people making jokes about

867  
00:36:52,280 --> 00:36:54,950  
the whole thing because you know that

868  
00:36:53,809 --> 00:36:56,809  
they smoked a doobie when they were

869  
00:36:54,949 --> 00:36:59,210  
younger so they think that that that's

870  
00:36:56,809 --> 00:37:00,680  
all there is to it sometimes well I

871  
00:36:59,210 --> 00:37:06,019  
think that's part of the misinformation

872  
00:37:00,679 --> 00:37:08,389  
out there it is a valuable product you

873  
00:37:06,019 --> 00:37:10,219  
know her the thick that has a number of

874  
00:37:08,389 --> 00:37:12,348  
important therapeutic agents in there

875  
00:37:10,219 --> 00:37:15,469  
and what people do need to recognize is

876  
00:37:12,349 --> 00:37:17,539  
it's not about smoking weed it's about

877  
00:37:15,469 --> 00:37:19,989  
providing access to an important

878  
00:37:17,539 --> 00:37:19,989  
medicine

879  
00:37:32,590 --> 00:37:37,579  
it crash go garbled radio a skeptic wish

880  
00:37:35,630 --> 00:37:39,140  
to shock a desolate inches skeptic we

881  
00:37:37,579 --> 00:37:41,869  
service attack elbow Python hashanah

882  
00:37:39,139 --> 00:37:43,549  
Garnica meet the skeptics on podcast

883  
00:37:41,869 --> 00:37:45,500  
target or vision heritage funtage

884

00:37:43,550 --> 00:37:47,420  
metropolis add to the manual control to

885  
00:37:45,500 --> 00:37:49,840  
Chevy language she touched a critical

886  
00:37:47,420 --> 00:37:52,010  
gondola Rosh Hashanah needs a vegetation

887  
00:37:49,840 --> 00:37:53,750  
asserted nearest 20 and then he can

888  
00:37:52,010 --> 00:37:55,820  
shake member travelin coca-cola taught

889  
00:37:53,750 --> 00:37:58,070  
or David upon skeptical starter shark 1

890  
00:37:55,820 --> 00:38:00,410  
2 whereas info at skeptic push bond

891  
00:37:58,070 --> 00:38:02,030  
Hootie man to a boil on film at the

892  
00:38:00,409 --> 00:38:04,609  
Facebook laudanum cottage emitter

893  
00:38:02,030 --> 00:38:06,800  
facebook.com / skeptical star Shakti

894  
00:38:04,610 --> 00:38:11,660  
Mentalist volume interval insulated

895  
00:38:06,800 --> 00:38:13,400  
dharamdas via Incan hi this is garba

896  
00:38:11,659 --> 00:38:15,409  
raas co-president of the Hungarian

897  
00:38:13,400 --> 00:38:16,730  
skeptics society and chairman of the

898  
00:38:15,409 --> 00:38:19,639

European Council of skeptical

899

00:38:16,730 --> 00:38:21,980

organizations a solicitor of the skeptic

900

00:38:19,639 --> 00:38:23,960

zone you probably agree that educating

901

00:38:21,980 --> 00:38:26,990

others about pseudoscience and critical

902

00:38:23,960 --> 00:38:28,579

thinking is an important task if you are

903

00:38:26,989 --> 00:38:30,379

eager to take part in either of these

904

00:38:28,579 --> 00:38:34,150

activities we would be happy to hear

905

00:38:30,380 --> 00:38:39,860

from you don't hesitate to contact us at

906

00:38:34,150 --> 00:38:41,750

www.adr.org info at skeptical hu we also

907

00:38:39,860 --> 00:38:44,570

recommend you visiting our Facebook page

908

00:38:41,750 --> 00:38:47,889

skeptic wish tasha shack or simply come

909

00:38:44,570 --> 00:38:47,890

and join us at one of our events

910

00:38:57,429 --> 00:39:05,799

what we want is some more evidence

911

00:39:00,050 --> 00:39:05,800

please is Joe alabaster

912

00:39:07,130 --> 00:39:11,619

hello this is Joe alabaster

913  
00:39:13,619 --> 00:39:18,849  
professor Ed's odd Ernst and Professor

914  
00:39:16,510 --> 00:39:21,760  
Susan Jeb are the two winners of the

915  
00:39:18,849 --> 00:39:25,539  
2015 John Maddox price for standing up

916  
00:39:21,760 --> 00:39:27,760  
for science the prize named after a

917  
00:39:25,539 --> 00:39:30,699  
former editor of science journal nature

918  
00:39:27,760 --> 00:39:33,430  
is a joint initiative of nature the cone

919  
00:39:30,699 --> 00:39:36,969  
foundation and the charity sense about

920  
00:39:33,429 --> 00:39:38,769  
science Ernst is well known for his

921  
00:39:36,969 --> 00:39:40,509  
stance against alternative and

922  
00:39:38,769 --> 00:39:43,929  
complementary medical treatments that

923  
00:39:40,510 --> 00:39:46,240  
lack evidence or substantiation his book

924  
00:39:43,929 --> 00:39:48,789  
trick or treatment alternative medicine

925  
00:39:46,239 --> 00:39:51,279  
of trial co-authored with Simon Singh is

926  
00:39:48,789 --> 00:39:53,529  
an exposition of a wide range of

927  
00:39:51,280 --> 00:39:57,130  
alternative treatments assessing their

928  
00:39:53,530 --> 00:39:59,050  
efficacy if any he is also well known

929  
00:39:57,130 --> 00:40:02,079  
for being on the receiving end of

930  
00:39:59,050 --> 00:40:04,330  
criticism from Sir Michael Pete the then

931  
00:40:02,079 --> 00:40:06,789  
principal private secretary of Prince

932  
00:40:04,329 --> 00:40:08,949  
Charles who accused him of breaking a

933  
00:40:06,789 --> 00:40:11,219  
confidentiality agreement over the small

934  
00:40:08,949 --> 00:40:13,629  
would report on complementary medicine

935  
00:40:11,219 --> 00:40:16,119  
the report had been commissioned by the

936  
00:40:13,630 --> 00:40:17,860  
prints and suggested that complementary

937  
00:40:16,119 --> 00:40:19,569  
and alternative medicine was

938  
00:40:17,860 --> 00:40:23,800  
cost-effective and should be available

939  
00:40:19,570 --> 00:40:25,809  
on the UK National Health Scheme Ernst

940  
00:40:23,800 --> 00:40:28,180  
was initially enlisted as a collaborator

941

00:40:25,809 --> 00:40:30,309  
on the report but asked for his name to

942  
00:40:28,179 --> 00:40:32,469  
be removed after a site of the draft

943  
00:40:30,309 --> 00:40:34,719  
report convinced him that Smallwood had

944  
00:40:32,469 --> 00:40:37,869  
quote written the conclusions before

945  
00:40:34,719 --> 00:40:39,699  
looking at the evidence end quote the

946  
00:40:37,869 --> 00:40:41,529  
report did not address whether cam

947  
00:40:39,699 --> 00:40:44,399  
treatments were actually effective and

948  
00:40:41,530 --> 00:40:48,610  
urns described it as quote complete

949  
00:40:44,400 --> 00:40:50,500  
misleading rubbish end quote at the time

950  
00:40:48,610 --> 00:40:53,170  
he was professor of complementary

951  
00:40:50,500 --> 00:40:55,000  
medicine at the University of Exeter the

952  
00:40:53,170 --> 00:40:57,099  
first such academic position in the

953  
00:40:55,000 --> 00:40:58,539  
world he was also director of

954  
00:40:57,099 --> 00:41:01,319  
complementary medicine of the

955  
00:40:58,539 --> 00:41:03,400

university's Peninsula Medical School

956

00:41:01,320 --> 00:41:05,500  
following the criticism over his

957

00:41:03,400 --> 00:41:07,660  
comments on the small would report the

958

00:41:05,500 --> 00:41:10,329  
university undertook an investigation of

959

00:41:07,659 --> 00:41:12,250  
Ernst even though he was cleared of

960

00:41:10,329 --> 00:41:14,349  
wrongdoing Ernst has said that

961

00:41:12,250 --> 00:41:16,690  
circumstances surrounding the ensuing

962

00:41:14,349 --> 00:41:20,440  
university investigation led to his

963

00:41:16,690 --> 00:41:22,960  
retirement regarding the maddox price he

964

00:41:20,440 --> 00:41:24,630  
was quote recognized for his long

965

00:41:22,960 --> 00:41:26,269  
commitment to applying scientific

966

00:41:24,630 --> 00:41:27,680  
methodologies in reefs

967

00:41:26,269 --> 00:41:30,320  
search into complementary and

968

00:41:27,679 --> 00:41:33,349  
alternative medicines and communicating

969

00:41:30,320 --> 00:41:35,450  
this need professor ernst continued in

970  
00:41:33,349 --> 00:41:37,579  
his work despite personal attacks and

971  
00:41:35,449 --> 00:41:41,509  
attempts to undermine his research unit

972  
00:41:37,579 --> 00:41:43,340  
and end his employment as a result he

973  
00:41:41,510 --> 00:41:45,650  
has addressed a significant gap in the

974  
00:41:43,340 --> 00:41:47,600  
research based in this field and has

975  
00:41:45,650 --> 00:41:50,440  
brought insights into discussions with

976  
00:41:47,599 --> 00:41:53,299  
the public policy makers commentators

977  
00:41:50,440 --> 00:41:57,079  
practitioners and other researchers and

978  
00:41:53,300 --> 00:41:59,360  
quote his co winner Susan Jeb is

979  
00:41:57,079 --> 00:42:02,659  
professor of diet and population health

980  
00:41:59,360 --> 00:42:05,300  
at the University of Oxford she was

981  
00:42:02,659 --> 00:42:07,399  
quote recognized for her promotion of

982  
00:42:05,300 --> 00:42:09,769  
public understanding of nutrition on a

983  
00:42:07,400 --> 00:42:13,180  
diverse range of issues of public

984  
00:42:09,769 --> 00:42:15,559  
concern from food supplements to dieting

985  
00:42:13,179 --> 00:42:17,779  
professor Jeb tackled misconceptions

986  
00:42:15,559 --> 00:42:20,090  
about sugar in the media and among the

987  
00:42:17,780 --> 00:42:22,310  
public and endured personal attacks and

988  
00:42:20,090 --> 00:42:24,470  
accusations that industry funding

989  
00:42:22,309 --> 00:42:27,710  
compromised her integrity and advisory

990  
00:42:24,469 --> 00:42:29,750  
capabilities end quote the winners of

991  
00:42:27,710 --> 00:42:32,809  
the 2015 john maddux prize were

992  
00:42:29,750 --> 00:42:35,150  
announced on november 3rd 2015 at the

993  
00:42:32,809 --> 00:42:38,329  
sense about science annual reception in

994  
00:42:35,150 --> 00:42:41,210  
london the judging panel in 2015

995  
00:42:38,329 --> 00:42:44,150  
consisted of Tracy brown director sense

996  
00:42:41,210 --> 00:42:47,740  
about science philip campbell editor in

997  
00:42:44,150 --> 00:42:51,920  
chief nature lord rees of ludlow FRS and

998

00:42:47,739 --> 00:42:55,039  
professor Colin Blakemore FRS judges sit

999  
00:42:51,920 --> 00:42:58,460  
in a personal capacity on winning the

1000  
00:42:55,039 --> 00:43:00,110  
prize Ernst said that quote there is a

1001  
00:42:58,460 --> 00:43:02,530  
lot in alternative medicine that

1002  
00:43:00,110 --> 00:43:05,030  
challenges rationality and ethics

1003  
00:43:02,530 --> 00:43:06,950  
standing up for science by refuting the

1004  
00:43:05,030 --> 00:43:08,660  
plethora of pseudoscience and low

1005  
00:43:06,949 --> 00:43:11,389  
quality research in this field is

1006  
00:43:08,659 --> 00:43:13,879  
important to patients and people who

1007  
00:43:11,389 --> 00:43:16,489  
practice medicine as well as to everyone

1008  
00:43:13,880 --> 00:43:18,559  
else who talks about it to receive the

1009  
00:43:16,489 --> 00:43:20,839  
john maddux prize is a true honor as

1010  
00:43:18,559 --> 00:43:25,340  
well as an invaluable recognition of our

1011  
00:43:20,840 --> 00:43:32,140  
work end quote you can read this report

1012  
00:43:25,340 --> 00:43:32,140

and many more at wwc ethics calm

1013

00:43:42,108 --> 00:43:50,519

hey Heidi oh hi Joe hi Heidi oh hi

1014

00:43:47,010 --> 00:43:53,760

Maynard hi Maynard oh hi Joe nice day in

1015

00:43:50,519 --> 00:43:57,599

this park yeah yes great weather oh look

1016

00:43:53,760 --> 00:44:00,180

a unicorn a unicorn there are no such

1017

00:43:57,599 --> 00:44:03,359

things as unicorns silly yes there are

1018

00:44:00,179 --> 00:44:05,848

no there isn't Hey ladies what are you

1019

00:44:03,358 --> 00:44:09,328

arguing about Joe thinks unicorns are

1020

00:44:05,849 --> 00:44:12,838

real they fo are let's look this up in

1021

00:44:09,329 --> 00:44:15,089

the skeptics dictionary the word how can

1022

00:44:12,838 --> 00:44:17,429

we do that in this park there are no

1023

00:44:15,088 --> 00:44:19,739

computers here you ladies probably don't

1024

00:44:17,429 --> 00:44:22,799

know about the skeptics dictionary app

1025

00:44:19,739 --> 00:44:25,949

available now for iPhone iPad and iPod

1026

00:44:22,800 --> 00:44:27,930

touch in the app store yeah we do we've

1027  
00:44:25,949 --> 00:44:32,250  
been listening to the skeptic zone for

1028  
00:44:27,929 --> 00:44:34,469  
years you know yes ok the app lets you

1029  
00:44:32,250 --> 00:44:38,190  
access all the great skeptics dictionary

1030  
00:44:34,469 --> 00:44:41,009  
articles when you're on the go yeah let

1031  
00:44:38,190 --> 00:44:43,950  
me look up unicorns oh cool Heidi

1032  
00:44:41,010 --> 00:44:46,410  
prepare to be proven wrong it says here

1033  
00:44:43,949 --> 00:44:49,769  
the Unicorn is a creature from fables

1034  
00:44:46,409 --> 00:44:51,269  
aha actually I see now that someone just

1035  
00:44:49,769 --> 00:44:54,000  
dumped their ice cream cone on that

1036  
00:44:51,269 --> 00:44:56,338  
horse's head thanks ditching their

1037  
00:44:54,000 --> 00:44:58,670  
iphone that's just some guy in his

1038  
00:44:56,338 --> 00:44:58,670  
undies

1039  
00:45:08,190 --> 00:45:12,539  
thank you for listening to the skeptic

1040  
00:45:10,568 --> 00:45:16,210  
zone thank you to those people who

1041  
00:45:12,539 --> 00:45:18,220  
helped the skeptic zone by your little

1042  
00:45:16,210 --> 00:45:20,710  
payments micro payments through paypal

1043  
00:45:18,219 --> 00:45:22,778  
at skeptic zone TV hit the subscribe

1044  
00:45:20,710 --> 00:45:25,179  
button it really does help this some

1045  
00:45:22,778 --> 00:45:29,259  
more microphones in the very near future

1046  
00:45:25,179 --> 00:45:31,419  
I need to buy so you're chipping in to

1047  
00:45:29,259 --> 00:45:33,579  
the skeptic zone really does help to do

1048  
00:45:31,420 --> 00:45:35,588  
that it's fantastic and thank you to

1049  
00:45:33,579 --> 00:45:38,740  
those people who have been visiting mr.

1050  
00:45:35,588 --> 00:45:40,989  
Katz online storms tickets handmade

1051  
00:45:38,739 --> 00:45:43,659  
origami jewelry the links at skeptics on

1052  
00:45:40,989 --> 00:45:45,608  
TV that money also goes to help the

1053  
00:45:43,659 --> 00:45:49,118  
skeptic zone and I'll be having a little

1054  
00:45:45,608 --> 00:45:51,578  
stall for mr. Katz origami jewelry at

1055

00:45:49,119 --> 00:45:53,470  
the glebe markets here in Sydney on the

1056  
00:45:51,579 --> 00:45:55,720  
twelfth of December if you're there drop

1057  
00:45:53,469 --> 00:45:57,278  
by and say hello coming up on next

1058  
00:45:55,719 --> 00:45:58,509  
week's show more interviews from the

1059  
00:45:57,278 --> 00:46:00,909  
Australian skeptics National Convention

1060  
00:45:58,509 --> 00:46:03,670  
may not running around with his

1061  
00:46:00,909 --> 00:46:06,129  
microphone I getting some really top

1062  
00:46:03,670 --> 00:46:07,778  
interviews so more of that coming up I

1063  
00:46:06,130 --> 00:46:10,539  
hope you enjoyed the interviews so far

1064  
00:46:07,778 --> 00:46:13,690  
from me not with our Eugenie Scott and

1065  
00:46:10,539 --> 00:46:15,910  
Joe Nickell amongst others but for this

1066  
00:46:13,690 --> 00:46:20,730  
week this is Richard Saunders signing

1067  
00:46:15,909 --> 00:46:20,730  
off au revoir from Sydney Australia

1068  
00:46:23,130 --> 00:46:29,318  
you've been listening to the skeptics

1069  
00:46:25,568 --> 00:46:32,230

own podcast visit our website at wwc a

1070

00:46:29,318 --> 00:46:35,679

petting zoo TV for contacts and archive

1071

00:46:32,230 --> 00:46:38,380

of all episodes since 2008 and our

1072

00:46:35,679 --> 00:46:40,288

online store please support the skeptic

1073

00:46:38,380 --> 00:46:43,450

zone by following us on twitter at

1074

00:46:40,289 --> 00:46:47,109

skeptic zone liking us on facebook and

1075

00:46:43,449 --> 00:46:49,268

leaving a review on iTunes you can also

1076

00:46:47,108 --> 00:46:52,440

show your support by subscribing via

1077

00:46:49,268 --> 00:46:55,209

paypal for as little as 99 cents a week

1078

00:46:52,440 --> 00:46:56,858

the skeptic zone is an independent

1079

00:46:55,210 --> 00:46:59,318

production the views and opinions

1080

00:46:56,858 --> 00:47:01,328

expressed on the skeptic zone are not

1081

00:46:59,318 --> 00:47:05,808

necessarily those of Australian Skepta

1082

00:47:01,329 --> 00:47:07,839

tea or any other skeptical organization

1083

00:47:05,809 --> 00:47:07,839

Oh

