

1
00:00:06,009 --> 00:00:13,679
welcome to the skeptic zone the podcast

2
00:00:09,099 --> 00:00:13,679
from Australia for science and reason

3
00:00:22,980 --> 00:00:29,850
hello and welcome to the skeptics are on

4
00:00:25,778 --> 00:00:33,308
episode number 297 for the 29th of jun

5
00:00:29,850 --> 00:00:36,520
2014 Richard Saunders here from Sydney

6
00:00:33,308 --> 00:00:39,849
Australia very chilly but pleasant

7
00:00:36,520 --> 00:00:43,359
Sydney Australia at the moment now

8
00:00:39,850 --> 00:00:45,340
before we even begin to get stuck into

9
00:00:43,359 --> 00:00:47,289
this show and find out what's coming up

10
00:00:45,340 --> 00:00:49,000
a major announcement regarding the

11
00:00:47,289 --> 00:00:52,299
Australian skeptics national convention

12
00:00:49,000 --> 00:00:54,399
in november and i quote from the website

13
00:00:52,299 --> 00:00:58,449
of australian skeptics skeptics calm

14
00:00:54,399 --> 00:01:01,090
today you we have major news after a

15
00:00:58,450 --> 00:01:03,309
great deal of negotiations we are very

16
00:01:01,090 --> 00:01:05,950
excited to announce a ticket price

17
00:01:03,308 --> 00:01:08,140
reduction for the 30th Australian

18
00:01:05,950 --> 00:01:09,789
skeptics national convention the new

19
00:01:08,140 --> 00:01:12,460
standard ticket price for the whole

20
00:01:09,789 --> 00:01:16,210
convention is only two hundred and sixty

21
00:01:12,459 --> 00:01:18,759
dollars previously it was 320 effective

22
00:01:16,209 --> 00:01:20,559
immediately since we began planning this

23
00:01:18,759 --> 00:01:22,329
convention trying to reduce the ticket

24
00:01:20,560 --> 00:01:24,519
price has been a high priority on our

25
00:01:22,329 --> 00:01:26,769
list convention attendance costs can be

26
00:01:24,519 --> 00:01:28,810
prohibitive and we wanted to make sure

27
00:01:26,769 --> 00:01:30,969
that as many people as possible from

28
00:01:28,810 --> 00:01:33,819
both Australia and overseas would be

29

00:01:30,969 --> 00:01:35,649
able to attend now after finalizing the

30
00:01:33,819 --> 00:01:38,228
last price adjustments and overall

31
00:01:35,649 --> 00:01:39,879
budget we're extremely pleased that we

32
00:01:38,228 --> 00:01:43,118
can offer the same event with the same

33
00:01:39,879 --> 00:01:44,978
wonderful speakers for less what has

34
00:01:43,118 --> 00:01:47,618
change I hear you ask over these event

35
00:01:44,978 --> 00:01:50,079
what has changed I didn't hear you ask

36
00:01:47,618 --> 00:01:52,899
the only change directly impacting the

37
00:01:50,079 --> 00:01:54,700
attendees is that we won't be offering a

38
00:01:52,899 --> 00:01:57,069
catered lunch this year this is because

39
00:01:54,700 --> 00:01:58,599
the convention venue is located in the

40
00:01:57,069 --> 00:02:01,269
middle of one of Sydney's busiest

41
00:01:58,599 --> 00:02:03,489
shopping and business centres which is

42
00:02:01,269 --> 00:02:06,609
bustling with restaurants cafes

43
00:02:03,489 --> 00:02:08,110

takeaways you name it frozen yogurt all

44

00:02:06,609 --> 00:02:10,330

sorts of things you won't have to walk

45

00:02:08,110 --> 00:02:12,730

more than a couple of minutes to find

46

00:02:10,330 --> 00:02:15,069

something for your fancy however good

47

00:02:12,729 --> 00:02:17,139

news you won't go thirsty we will be

48

00:02:15,068 --> 00:02:19,689

serving tea and coffee throughout

49

00:02:17,139 --> 00:02:21,718

birthdays of the convention and even

50

00:02:19,689 --> 00:02:24,430

better news yes we aren't doing

51

00:02:21,718 --> 00:02:26,199

concession tickets we are pleased to

52

00:02:24,430 --> 00:02:29,140

finally announce a limited number of

53

00:02:26,199 --> 00:02:31,030

session tickets for pensioners and full

54

00:02:29,139 --> 00:02:32,969

time students the concession ticket

55

00:02:31,030 --> 00:02:35,709

prices two hundred and twenty dollars

56

00:02:32,969 --> 00:02:37,959

really good news and the news just keeps

57

00:02:35,709 --> 00:02:40,539

on getting better but if you already

58
00:02:37,959 --> 00:02:43,269
bought a ticket do you get a refund yes

59
00:02:40,539 --> 00:02:45,459
absolutely everybody who bought a ticket

60
00:02:43,269 --> 00:02:47,890
already will be reimbursed the price

61
00:02:45,459 --> 00:02:49,539
difference wow I'm more good news there

62
00:02:47,889 --> 00:02:51,609
than you can poke a stick out really

63
00:02:49,539 --> 00:02:53,530
that's a funny expression in it look for

64
00:02:51,610 --> 00:02:55,959
more details you can go to skeptics com

65
00:02:53,530 --> 00:03:00,818
delay you or better yet go to convention

66
00:02:55,959 --> 00:03:02,409
dot skeptics calm got a you wow great

67
00:03:00,818 --> 00:03:04,629
news for the Australian skeptics

68
00:03:02,409 --> 00:03:07,180
national convention coming up in

69
00:03:04,629 --> 00:03:09,519
November if you've been sort of yeah

70
00:03:07,180 --> 00:03:11,200
hanging out there hanging off not

71
00:03:09,519 --> 00:03:13,180
getting your tickets now's the time to

72
00:03:11,199 --> 00:03:15,369
buy the tickets the prices have crashed

73
00:03:13,180 --> 00:03:19,150
down there are concession tickets

74
00:03:15,370 --> 00:03:21,519
available good news all around and i'll

75
00:03:19,150 --> 00:03:24,700
be sure to be telling everybody at the

76
00:03:21,519 --> 00:03:27,459
amazing meeting in las vegas in a few

77
00:03:24,699 --> 00:03:29,469
weeks time that good news as well but

78
00:03:27,459 --> 00:03:32,310
let's uh let's calm down a little bit

79
00:03:29,469 --> 00:03:34,389
now it's just a take a deep breath

80
00:03:32,310 --> 00:03:37,299
what's coming up on this week's episode

81
00:03:34,389 --> 00:03:39,150
of the skeptic zone well here's a

82
00:03:37,299 --> 00:03:44,409
question for you have you got an

83
00:03:39,150 --> 00:03:48,909
embarrassing body I sure do oh yes oh

84
00:03:44,409 --> 00:03:50,620
yes this week a man who I'm sure doesn't

85
00:03:48,909 --> 00:03:52,959
have an embarrassing body around sigep

86

00:03:50,620 --> 00:03:55,180
is going to chat to dr. Bradley who's

87
00:03:52,959 --> 00:03:57,759
one of the Australian doctors in the

88
00:03:55,180 --> 00:03:59,889
Australian series of embarrassing bodies

89
00:03:57,759 --> 00:04:01,629
now that for those of you who are maybe

90
00:03:59,889 --> 00:04:02,939
not familiar with embarrassing bodies

91
00:04:01,629 --> 00:04:05,349
it's a show where people with

92
00:04:02,939 --> 00:04:07,120
embarrassing but sometimes very serious

93
00:04:05,349 --> 00:04:09,939
medical conditions come along to see

94
00:04:07,120 --> 00:04:12,250
doctors and we sort of follow their

95
00:04:09,939 --> 00:04:14,949
stories and how they're helped or their

96
00:04:12,250 --> 00:04:18,339
situation is managed and done some cases

97
00:04:14,949 --> 00:04:20,319
are wonderful recoveries anyway Iran's

98
00:04:18,339 --> 00:04:23,379
going to be talking with dr. Brad about

99
00:04:20,319 --> 00:04:26,409
the show and some other embarrassing

100
00:04:23,379 --> 00:04:27,639

things after that it's a week in science

101

00:04:26,410 --> 00:04:30,280

from our good friends at the Royal

102

00:04:27,639 --> 00:04:32,319

Institution of Australia Oh who's on

103

00:04:30,279 --> 00:04:34,029

this week Paul Willis dr. Paul Willis

104

00:04:32,319 --> 00:04:37,930

now there's some head with an

105

00:04:34,029 --> 00:04:38,469

embarrassing body nor too after that we

106

00:04:37,930 --> 00:04:41,350

catch

107

00:04:38,470 --> 00:04:42,880

with Maynard now Maynard is taking a

108

00:04:41,350 --> 00:04:44,950

little break from skeptic zone

109

00:04:42,879 --> 00:04:48,009

activities at the moment to concentrate

110

00:04:44,949 --> 00:04:49,509

on his own podcast bunga bunga and we

111

00:04:48,009 --> 00:04:52,180

have a little chat about that catching

112

00:04:49,509 --> 00:04:54,579

up with me nod well there's so much good

113

00:04:52,180 --> 00:04:56,050

stuff coming out of me nod he's when

114

00:04:54,579 --> 00:04:58,719

he's not doing the skeptic zone he's

115
00:04:56,050 --> 00:05:01,509
doing his own fun podcast bunga bunga

116
00:04:58,720 --> 00:05:03,790
check it out at Maynard com got a you

117
00:05:01,509 --> 00:05:06,189
and we look forward to more reports from

118
00:05:03,790 --> 00:05:08,410
Maynard when he's good and ready and

119
00:05:06,189 --> 00:05:11,050
following that I catch up with a good

120
00:05:08,410 --> 00:05:14,230
friend of mine Bob blaskowitz from the

121
00:05:11,050 --> 00:05:17,319
United States who is hot on the tail hot

122
00:05:14,230 --> 00:05:20,680
on the trail on the case of one dr.

123
00:05:17,319 --> 00:05:23,199
Brzezinski what's this so-called cancer

124
00:05:20,680 --> 00:05:26,560
expert up to now we catch up with the

125
00:05:23,199 --> 00:05:28,539
latest concerning news then to round off

126
00:05:26,560 --> 00:05:30,550
the show itself at somebody who's fast

127
00:05:28,540 --> 00:05:34,020
becoming a favorite on the skeptic zone

128
00:05:30,550 --> 00:05:36,129
Joe alabaster with more evidence please

129
00:05:34,019 --> 00:05:40,649
Joe's going to be looking at a recent

130
00:05:36,129 --> 00:05:43,930
study concerning rats and maze

131
00:05:40,649 --> 00:05:46,149
not-not-not the maze you rats and mice

132
00:05:43,930 --> 00:05:48,610
running that the maze you eat it means

133
00:05:46,149 --> 00:05:51,009
you eat yasir at sammy's an interesting

134
00:05:48,610 --> 00:05:54,610
investigation by Joe and a good lesson

135
00:05:51,009 --> 00:05:56,589
in science i think more evidence please

136
00:05:54,610 --> 00:05:58,840
that's what we want more Joe alabaster

137
00:05:56,589 --> 00:06:01,569
she's coming up to round off the show

138
00:05:58,839 --> 00:06:03,159
now quick update from me on a personal

139
00:06:01,569 --> 00:06:05,709
project I've been working on for some

140
00:06:03,160 --> 00:06:08,680
time the upcoming documentary the

141
00:06:05,709 --> 00:06:11,829
vaccination chronicles as we speak as

142
00:06:08,680 --> 00:06:13,269
ice because I speak to you yes it works

143

00:06:11,829 --> 00:06:15,490
like that i think is i'm speaking to you

144
00:06:13,269 --> 00:06:17,918
right now on sunday night here in

145
00:06:15,490 --> 00:06:20,019
australia my good friend and sometimes

146
00:06:17,918 --> 00:06:22,810
co-host of the skeptics own stefan sojka

147
00:06:20,019 --> 00:06:25,839
he is busy in his place which is many

148
00:06:22,810 --> 00:06:28,810
kilometers from here are finishing off

149
00:06:25,839 --> 00:06:30,299
the music for this documentary I sort of

150
00:06:28,810 --> 00:06:32,199
wrote a little theme I sent to him

151
00:06:30,300 --> 00:06:34,120
because he's a much better piano player

152
00:06:32,199 --> 00:06:37,918
than I and he's back and forth anyway

153
00:06:34,120 --> 00:06:37,918
he's his little taste of it

154
00:06:42,800 --> 00:06:46,259
that's all you're getting you're gonna

155
00:06:44,579 --> 00:06:48,658
have to watch the documentary soon when

156
00:06:46,259 --> 00:06:50,280
it comes out but I think you can

157
00:06:48,658 --> 00:06:52,288

understand my excitement to hear that

158

00:06:50,279 --> 00:06:53,818

music to put it on the timeline to see

159

00:06:52,288 --> 00:06:56,180

it interact with the credits and the

160

00:06:53,819 --> 00:06:58,979

opening bit and it's all very exciting

161

00:06:56,180 --> 00:07:02,129

and I hope that documentary will be out

162

00:06:58,978 --> 00:07:04,318

for everybody to see very very soon now

163

00:07:02,129 --> 00:07:06,389

but now it's time for me to run

164

00:07:04,319 --> 00:07:08,520

downstairs run downstairs open that

165

00:07:06,389 --> 00:07:11,218

cupboard open the fridge open the

166

00:07:08,519 --> 00:07:12,628

freezer open the toaster the microwave

167

00:07:11,218 --> 00:07:15,750

and everything else in the kitchen I can

168

00:07:12,629 --> 00:07:19,050

possibly open mmm I think I'll have a

169

00:07:15,750 --> 00:07:22,889

plate of toasted ravioli and finish it

170

00:07:19,050 --> 00:07:25,408

off with a pint of ted drewes mmm sounds

171

00:07:22,889 --> 00:07:28,019

good to me hey Bob while I'm doing that

172
00:07:25,408 --> 00:07:30,620
or attempting to I hope you enjoy the

173
00:07:28,019 --> 00:07:30,620
skeptic zone

174
00:07:47,079 --> 00:07:57,680
let's all take this with a grain of salt

175
00:07:49,899 --> 00:08:01,069
seas around segev I felt something

176
00:07:57,680 --> 00:08:03,650
snapped next I want to work out it was

177
00:08:01,069 --> 00:08:06,560
bent out of shape this bedroom injury

178
00:08:03,649 --> 00:08:09,229
has left more than just a very deep oh

179
00:08:06,560 --> 00:08:11,300
oh yeah you've got some cracker warts

180
00:08:09,230 --> 00:08:14,390
there and whilst they're down below

181
00:08:11,300 --> 00:08:17,300
inside this bottom is a common household

182
00:08:14,389 --> 00:08:19,430
item don't try to pull it out dr. Brad

183
00:08:17,300 --> 00:08:22,280
and the boy but blocked up and ready to

184
00:08:19,430 --> 00:08:25,430
dig deep grant you and dicing buddies

185
00:08:22,279 --> 00:08:28,309
down under Tuesday night go to only on

186
00:08:25,430 --> 00:08:30,290
you so I'm here with dr. Brad Makai

187
00:08:28,310 --> 00:08:34,250
fellow Australian who happens to be in

188
00:08:30,290 --> 00:08:36,139
the UK at the moment hello proving your

189
00:08:34,250 --> 00:08:40,279
credentials right exactly okay very good

190
00:08:36,139 --> 00:08:42,139
so we were talking about fecal traffic

191
00:08:40,279 --> 00:08:43,939
of transplant so we love to jump

192
00:08:42,139 --> 00:08:46,759
straight into it I don't mean that in

193
00:08:43,940 --> 00:08:49,520
literal way but come on yeah so so there

194
00:08:46,759 --> 00:08:51,590
there's a new fecal bank which has

195
00:08:49,519 --> 00:08:53,960
started up in the States so apparently

196
00:08:51,590 --> 00:08:56,660
there's three donors who are the

197
00:08:53,960 --> 00:08:59,980
official donors of fecal specimens and

198
00:08:56,659 --> 00:09:02,899
so they they will create their own

199
00:08:59,980 --> 00:09:05,029
specimens and then freeze them and then

200

00:09:02,899 --> 00:09:06,980
you can send off the specimens to

201
00:09:05,029 --> 00:09:09,500
different parts around America at this

202
00:09:06,980 --> 00:09:11,930
point of time and then defrost them and

203
00:09:09,500 --> 00:09:13,970
then use them as a fecal transplant so

204
00:09:11,929 --> 00:09:16,609
doctors are starting to use that to help

205
00:09:13,970 --> 00:09:18,560
for chronic diarrhea and bacterial diary

206
00:09:16,610 --> 00:09:21,320
so when you say the doctors are starting

207
00:09:18,559 --> 00:09:23,689
to use that I mean first of all

208
00:09:21,320 --> 00:09:25,610
something like this would have to be

209
00:09:23,690 --> 00:09:28,010
regulated in some way wouldn't I mean

210
00:09:25,610 --> 00:09:29,300
but it's a problem because there's not

211
00:09:28,009 --> 00:09:30,889
much regulation for it if you've got

212
00:09:29,299 --> 00:09:33,049
blood products then that's highly

213
00:09:30,889 --> 00:09:35,389
scrutinized but yeah with fecal

214
00:09:33,049 --> 00:09:38,059

transplants that's really like a very

215

00:09:35,389 --> 00:09:39,529

early stage so there's no real rules for

216

00:09:38,059 --> 00:09:41,779

at the moment so they're saying that

217

00:09:39,529 --> 00:09:44,419

they've got like clean like three donors

218

00:09:41,779 --> 00:09:46,949

that are clean people that are donating

219

00:09:44,419 --> 00:09:48,750

the coke clean okay

220

00:09:46,950 --> 00:09:50,940

I'm is Ella shaking a little bit that's

221

00:09:48,750 --> 00:09:55,070

what this i love that the the creme de

222

00:09:50,940 --> 00:09:55,070

la creme of bow elections that's the

223

00:09:55,519 --> 00:10:00,000

so-so three donors I mean you would

224

00:09:58,559 --> 00:10:04,559

expect there would be a bit more of a

225

00:10:00,000 --> 00:10:06,330

variety and and plus I heard again this

226

00:10:04,559 --> 00:10:08,789

was like Apple making their their

227

00:10:06,330 --> 00:10:10,980

computers in the garage just like it a

228

00:10:08,789 --> 00:10:12,689

small group that started up yeah but I

229
00:10:10,980 --> 00:10:14,250
actually heard there's the obviously

230
00:10:12,690 --> 00:10:15,780
difficult transplants have been the news

231
00:10:14,250 --> 00:10:18,929
quite a lot in recent times one of the

232
00:10:15,779 --> 00:10:20,929
things that I kind of gathered from all

233
00:10:18,929 --> 00:10:24,899
of the things that I've heard was that

234
00:10:20,929 --> 00:10:27,089
donation from a family member is more

235
00:10:24,899 --> 00:10:29,730
efficient or more useful than just

236
00:10:27,090 --> 00:10:31,230
donation from bothell it's still

237
00:10:29,730 --> 00:10:33,779
debatable I don't think there's much

238
00:10:31,230 --> 00:10:35,430
evidence for that happening I think the

239
00:10:33,779 --> 00:10:37,139
main thing from having a family members

240
00:10:35,429 --> 00:10:39,329
that you said like know that they're

241
00:10:37,139 --> 00:10:42,569
sort of like clean it's not an anonymous

242
00:10:39,330 --> 00:10:44,400
donor so that that's a safety in that

243

00:10:42,570 --> 00:10:46,560
regard but otherwise you could get

244

00:10:44,399 --> 00:10:50,490
anybody but as they try to find sorry

245

00:10:46,559 --> 00:10:52,079
isn't that about the again we were one

246

00:10:50,490 --> 00:10:53,460
of the things we've discussed before we

247

00:10:52,080 --> 00:10:55,740
started recording was the fact that

248

00:10:53,460 --> 00:10:57,660
their gut flora is actually very complex

249

00:10:55,740 --> 00:11:00,509
and it's different between different

250

00:10:57,659 --> 00:11:03,929
people and might one of the things that

251

00:11:00,509 --> 00:11:06,090
seem to be evident is that there is

252

00:11:03,929 --> 00:11:08,399
commonalities amongst in amongst family

253

00:11:06,090 --> 00:11:10,500
so for example I and my wife and my

254

00:11:08,399 --> 00:11:13,079
children would tend to have similar gut

255

00:11:10,500 --> 00:11:16,139
flora and perhaps me with somebody who's

256

00:11:13,080 --> 00:11:17,550
not does not share my my life maybe they

257

00:11:16,139 --> 00:11:21,330
got fall real a little bit different and

258
00:11:17,549 --> 00:11:23,609
then by taking gut flora from a fecal

259
00:11:21,330 --> 00:11:25,050
transplant from a family member you

260
00:11:23,610 --> 00:11:27,750
increase the chance that you'll get your

261
00:11:25,049 --> 00:11:29,639
original gut flora back or you could

262
00:11:27,750 --> 00:11:32,399
just get the same bad bacteria there as

263
00:11:29,639 --> 00:11:35,279
well so there could still be small Scala

264
00:11:32,399 --> 00:11:36,840
knees of bad bacteria in other family

265
00:11:35,279 --> 00:11:39,480
members guts as well and then that can

266
00:11:36,840 --> 00:11:42,149
be spread around too so it's not a no

267
00:11:39,480 --> 00:11:46,139
guarantee you really do wanting to find

268
00:11:42,149 --> 00:11:49,079
people who have regular like 20 once in

269
00:11:46,139 --> 00:11:50,689
a 24-hour period normal bowel actions

270
00:11:49,080 --> 00:11:53,340
without having diarrhea or constipation

271
00:11:50,690 --> 00:11:55,740

so that's really what they're guided

272

00:11:53,340 --> 00:11:59,280

towards by saying that person has the

273

00:11:55,740 --> 00:12:00,080

perfect stool let's get get their poo

274

00:11:59,279 --> 00:12:02,480

okay

275

00:12:00,080 --> 00:12:06,259

so now that we okay so we got the poo

276

00:12:02,480 --> 00:12:09,580

out of the way we're a topic to talk

277

00:12:06,259 --> 00:12:12,350

about you can talk about other people

278

00:12:09,580 --> 00:12:15,620

can you you're a doctor you're a medical

279

00:12:12,350 --> 00:12:17,870

doctor yes uh and but but you done did

280

00:12:15,620 --> 00:12:20,090

you practice to do you know yeah I work

281

00:12:17,870 --> 00:12:21,259

in a clinic in richmond and open and you

282

00:12:20,090 --> 00:12:23,600

do something else in addition to

283

00:12:21,259 --> 00:12:25,580

treating I also well I also treat

284

00:12:23,600 --> 00:12:27,980

patients on TV as well as I do

285

00:12:25,580 --> 00:12:30,259

embarrassing bodies down under so a very

286
00:12:27,980 --> 00:12:32,029
cheeky show based on the UK series

287
00:12:30,259 --> 00:12:34,549
that's been taking up a lot of my time

288
00:12:32,029 --> 00:12:36,500
lately and we've just been nominated for

289
00:12:34,549 --> 00:12:39,559
a low-key so I've got a cut off my trip

290
00:12:36,500 --> 00:12:42,980
early and go back until it a tonight for

291
00:12:39,559 --> 00:12:46,309
that so when did the this program stuff

292
00:12:42,980 --> 00:12:50,750
and so the program was aired in October

293
00:12:46,309 --> 00:12:53,089
of 2013 so it was shown on foxtel now

294
00:12:50,750 --> 00:12:55,940
it's on free-to-air and the UK as well

295
00:12:53,090 --> 00:12:58,790
so and how many episodes of you there's

296
00:12:55,940 --> 00:13:02,120
eight episodes okay so each is an hour

297
00:12:58,789 --> 00:13:06,049
long we were you limited to only things

298
00:13:02,120 --> 00:13:08,029
from from the belly button no no no we

299
00:13:06,049 --> 00:13:10,339
told that hab earlier on the whole

300
00:13:08,029 --> 00:13:12,829
recording so yeah for example in our

301
00:13:10,340 --> 00:13:15,290
patients had terrible Ella pichia so he

302
00:13:12,830 --> 00:13:17,660
looked like he was a monk so he had a

303
00:13:15,289 --> 00:13:20,000
lot of a loss of hair on the top of his

304
00:13:17,659 --> 00:13:21,559
head so some people were saying some

305
00:13:20,000 --> 00:13:23,500
people were commenting and thinking that

306
00:13:21,559 --> 00:13:26,449
it was a like a testosterone based

307
00:13:23,500 --> 00:13:28,700
androgenic hair loss but his was an I

308
00:13:26,450 --> 00:13:30,560
a-- picture areata hair loss and so it

309
00:13:28,700 --> 00:13:32,450
was just quite amazing sort of seeing

310
00:13:30,559 --> 00:13:34,549
him putting them in contact with the

311
00:13:32,450 --> 00:13:37,850
dermatologist who then did injections of

312
00:13:34,549 --> 00:13:39,799
steroid and to his head and then Gary

313
00:13:37,850 --> 00:13:42,200
had an amazing result of about ninety

314

00:13:39,799 --> 00:13:45,439
five percent growth of his hair after

315
00:13:42,200 --> 00:13:48,259
having like a massive patch like the

316
00:13:45,440 --> 00:13:50,720
size of a large orange so that's sort of

317
00:13:48,259 --> 00:13:53,389
circumference all growing back with us

318
00:13:50,720 --> 00:13:55,790
hair so you needing to inject a very

319
00:13:53,389 --> 00:13:57,649
strong steroid dose into the skin to

320
00:13:55,789 --> 00:14:00,159
stop the autoimmune process from

321
00:13:57,649 --> 00:14:02,269
occurring so it's sort of very very

322
00:14:00,159 --> 00:14:04,069
rewarding seeing those cases coming

323
00:14:02,269 --> 00:14:05,299
through so have you encountered this

324
00:14:04,070 --> 00:14:06,290
part of doing this problem have you

325
00:14:05,299 --> 00:14:09,500
encountered things that you've never

326
00:14:06,289 --> 00:14:12,469
seen before I think there are a lot of

327
00:14:09,500 --> 00:14:13,580
extremes so we did a fair bit of

328
00:14:12,470 --> 00:14:16,250

cosmetic surgery

329

00:14:13,580 --> 00:14:18,889

is part of the show like a small aspect

330

00:14:16,250 --> 00:14:21,590

of it one of our patients she had a

331

00:14:18,889 --> 00:14:23,569

large abdomen after losing lots of

332

00:14:21,590 --> 00:14:26,690

weight and so that was quite a massive

333

00:14:23,570 --> 00:14:28,460

operation I saw it before it was skin

334

00:14:26,690 --> 00:14:31,370

and fat as well so sure about 16

335

00:14:28,460 --> 00:14:34,040

kilograms removed from skin and fetch

336

00:14:31,370 --> 00:14:36,110

together yeah so I saw her before and

337

00:14:34,039 --> 00:14:38,179

afterwards and I was like oh yeah it's

338

00:14:36,110 --> 00:14:40,879

good and then I saw us watching it when

339

00:14:38,179 --> 00:14:43,189

the episode went up on on TV and I was

340

00:14:40,879 --> 00:14:46,070

like screaming what you think i got my

341

00:14:43,190 --> 00:14:47,660

god surgeries for long so you sort of

342

00:14:46,070 --> 00:14:49,340

like missed that aspect of it if you're

343
00:14:47,659 --> 00:14:52,339
seeing the patients before and after as

344
00:14:49,340 --> 00:14:53,810
a GP feels good to film you have to did

345
00:14:52,340 --> 00:14:56,120
you actually have to do any treatment to

346
00:14:53,809 --> 00:14:59,689
sell for was more the diagnosis and they

347
00:14:56,120 --> 00:15:01,310
know a lot of it was for all talking to

348
00:14:59,690 --> 00:15:03,080
people diagnosing putting them in

349
00:15:01,309 --> 00:15:05,509
contact with a surgeon or a specialist

350
00:15:03,080 --> 00:15:06,980
and following them through with that we

351
00:15:05,509 --> 00:15:09,319
saw heaps of patients so a lot of the

352
00:15:06,980 --> 00:15:12,200
treatment options that we did work

353
00:15:09,320 --> 00:15:13,730
wasn't actually showing completely so

354
00:15:12,200 --> 00:15:16,400
had like you mean so you mean reality

355
00:15:13,730 --> 00:15:19,670
TVs not really reality well I'm just

356
00:15:16,399 --> 00:15:21,379
shot some of the patients we saw about a

357
00:15:19,669 --> 00:15:24,409
hundred and forty patients all together

358
00:15:21,379 --> 00:15:26,960
and we had a like a smaller amount of

359
00:15:24,409 --> 00:15:29,419
that for what we actually shot on on

360
00:15:26,960 --> 00:15:33,019
screen so we had a lot of treatment we

361
00:15:29,419 --> 00:15:34,549
had lots of psoriasis warts like a lot

362
00:15:33,019 --> 00:15:36,259
of bread and butter stuff for general

363
00:15:34,549 --> 00:15:39,079
practice which isn't interesting enough

364
00:15:36,259 --> 00:15:41,569
for television but yeah good yeah so now

365
00:15:39,080 --> 00:15:42,830
I have to ask you this question and you

366
00:15:41,570 --> 00:15:44,629
know it's a bit personal but you know

367
00:15:42,830 --> 00:15:46,009
that one of the things that the UK

368
00:15:44,629 --> 00:15:47,389
version of the show does is that he

369
00:15:46,009 --> 00:15:49,970
chose all these people with things that

370
00:15:47,389 --> 00:15:52,970
I'm not just embarrassing but frankly a

371

00:15:49,970 --> 00:15:54,500
little bit off-putting yes the reason

372
00:15:52,970 --> 00:15:57,290
they're embarrassing is because they are

373
00:15:54,500 --> 00:16:00,230
off-putting for titling for not just the

374
00:15:57,289 --> 00:16:03,159
the owner of the decision of the

375
00:16:00,230 --> 00:16:06,440
situation and also people around them

376
00:16:03,159 --> 00:16:09,529
the way the UK show mitigates that is by

377
00:16:06,440 --> 00:16:10,880
having very good-looking doctors and I

378
00:16:09,529 --> 00:16:12,139
have this I just have to ask you though

379
00:16:10,879 --> 00:16:13,730
I mean obviously you're what are you

380
00:16:12,139 --> 00:16:15,909
saying but but I have to ask you about

381
00:16:13,730 --> 00:16:18,500
your abs whether you have these ABS that

382
00:16:15,909 --> 00:16:22,219
you know quite as good as dr. Christians

383
00:16:18,500 --> 00:16:24,769
but I'm trying to get there yeah he's

384
00:16:22,220 --> 00:16:27,170
had years getting those ads so I'm just

385
00:16:24,769 --> 00:16:28,939

starting off now on TV okay so so you're

386

00:16:27,169 --> 00:16:31,579

saying it's the TV that does it it's not

387

00:16:28,940 --> 00:16:35,060

exercise title a good self-reflection

388

00:16:31,580 --> 00:16:38,420

yeah okay so now the the the show is on

389

00:16:35,059 --> 00:16:39,829

for for another season soon oh um we're

390

00:16:38,419 --> 00:16:41,899

we're still waiting to hear about a

391

00:16:39,830 --> 00:16:44,960

second season so nothing's been cleared

392

00:16:41,899 --> 00:16:46,819

so far so I have no idea we will see

393

00:16:44,960 --> 00:16:48,200

what happened any was you mentioned

394

00:16:46,820 --> 00:16:50,890

earlier that he was he was hidden

395

00:16:48,200 --> 00:16:53,300

somewhere on on foxtel was it was

396

00:16:50,889 --> 00:16:55,610

designed or what what was on the

397

00:16:53,299 --> 00:16:56,659

lifestyle you channel on foxtel so a lot

398

00:16:55,610 --> 00:16:58,610

of people have seen it a lot of my

399

00:16:56,659 --> 00:17:00,379

patients back in Melbourne haven't seen

400
00:16:58,610 --> 00:17:03,529
it so they sort of come in and say is

401
00:17:00,379 --> 00:17:05,690
your show on yet yes it's been a turn

402
00:17:03,529 --> 00:17:07,099
show and but yeah like over over in the

403
00:17:05,690 --> 00:17:09,529
UK we're getting quite a good following

404
00:17:07,099 --> 00:17:12,049
and yeah being on free-to-air and the UK

405
00:17:09,529 --> 00:17:13,940
is fantastic oh so you do seats free to

406
00:17:12,049 --> 00:17:16,399
it yeah yeah is that a wednesday night

407
00:17:13,940 --> 00:17:19,338
in the UK ok very good what what channel

408
00:17:16,400 --> 00:17:22,580
it's on channel 4 Jan yellow we live

409
00:17:19,338 --> 00:17:25,698
them 11 p.m. on a wednesday so prime

410
00:17:22,579 --> 00:17:27,139
time at 11pm yeah everyone's on twitter

411
00:17:25,699 --> 00:17:29,060
saying that they're having nightmares

412
00:17:27,140 --> 00:17:32,320
because they're watching agarra singh

413
00:17:29,059 --> 00:17:34,490
buddies just before they go to bed so um

414
00:17:32,319 --> 00:17:36,379
what are you doing in the UK the momen

415
00:17:34,490 --> 00:17:38,900
do you didn't come especially for QED of

416
00:17:36,380 --> 00:17:40,580
course I came especially for QED its

417
00:17:38,900 --> 00:17:42,680
owner of that I've got a wedding but

418
00:17:40,579 --> 00:17:44,240
this is a perfect timing I've been to

419
00:17:42,680 --> 00:17:45,289
the skeptics convention in Melbourne

420
00:17:44,240 --> 00:17:48,049
when that was there a couple of years

421
00:17:45,289 --> 00:17:50,450
ago and looking forward to Sydney later

422
00:17:48,049 --> 00:17:53,419
on this year but yeah like I've been

423
00:17:50,450 --> 00:17:54,890
following skepticism for years so I love

424
00:17:53,420 --> 00:17:57,500
the premise of it i love the

425
00:17:54,890 --> 00:17:59,480
intellectual banter that goes on and i

426
00:17:57,500 --> 00:18:01,849
love the cookie people and ideas that

427
00:17:59,480 --> 00:18:04,519
kind of it can we do not have cookie be

428

00:18:01,849 --> 00:18:06,799
sure yes we always really talking about

429
00:18:04,519 --> 00:18:09,230
but we are all perfectly a totally

430
00:18:06,799 --> 00:18:12,730
totally yeah that's across the board

431
00:18:09,230 --> 00:18:15,259
with every ounce of every culture yeah

432
00:18:12,730 --> 00:18:16,700
well Brad thank you very much for being

433
00:18:15,259 --> 00:18:21,049
on the script exactly thanks for having

434
00:18:16,700 --> 00:18:22,940
me on people often tweet me and say but

435
00:18:21,049 --> 00:18:28,519
I'm too embarrassed to go the doctor

436
00:18:22,940 --> 00:18:29,930
asterix blushes Asterix well this is a

437
00:18:28,519 --> 00:18:33,200
reminder that doctors have seen

438
00:18:29,930 --> 00:18:35,419
everything before even if it's rare the

439
00:18:33,200 --> 00:18:39,710
likely seen a photo of it in one of

440
00:18:35,419 --> 00:18:41,870
their textbooks get it checked out and

441
00:18:39,710 --> 00:18:47,139
by the way not all of my Twitter

442
00:18:41,869 --> 00:18:52,959

followers sound like scooby-doo so chica

443

00:18:47,138 --> 00:18:52,959

in a world where the truth is a better

444

00:18:55,308 --> 00:19:00,940

your messages are a seat for beyond the

445

00:18:58,579 --> 00:19:00,939

morning

446

00:19:03,140 --> 00:19:08,800

and reason is sidelined for magical

447

00:19:06,470 --> 00:19:08,799

thinking

448

00:19:09,329 --> 00:19:13,849

only three men stand between the truth

449

00:19:14,839 --> 00:19:20,609

what date is it 78 several thing this is

450

00:19:18,599 --> 00:19:22,230

impressive it's a system present they're

451

00:19:20,609 --> 00:19:25,799

not their photographs of Chinese anthem

452

00:19:22,230 --> 00:19:27,059

it's not we are not well-received good

453

00:19:25,799 --> 00:19:28,740

God we're fully don't discuss

454

00:19:27,059 --> 00:19:30,629

cryptozoology on the show very often

455

00:19:28,740 --> 00:19:33,089

because we don't know anything about how

456

00:19:30,630 --> 00:19:35,280

the truth first gets lower and lower

457
00:19:33,089 --> 00:19:39,509
lower and then he hits a ceiling it's a

458
00:19:35,279 --> 00:19:41,309
ceiling for the room below skeptic to

459
00:19:39,509 --> 00:19:46,129
the K for the most high skeptics society

460
00:19:41,309 --> 00:19:46,129
find us on iTunes or you know don't

461
00:19:48,589 --> 00:19:54,179
welcome to a week in science from our

462
00:19:51,390 --> 00:19:56,340
iOS bringing you the science you need to

463
00:19:54,180 --> 00:19:58,950
know how will the inhabitants of the

464
00:19:56,339 --> 00:20:02,039
most remote places on earth fare under a

465
00:19:58,950 --> 00:20:03,930
changing climate not too well as we take

466
00:20:02,039 --> 00:20:10,259
a look at Aunt Arctic wildlife and

467
00:20:03,930 --> 00:20:14,130
climate change this is the tale of two

468
00:20:10,259 --> 00:20:19,339
penguins one winner one loser this isn't

469
00:20:14,130 --> 00:20:22,140
a deli penguin this is a gentoo penguin

470
00:20:19,339 --> 00:20:24,240
they are closely related and they both

471
00:20:22,140 --> 00:20:26,730
eat krill and the same kinds of fish

472
00:20:24,240 --> 00:20:29,539
over the past few decades a deli

473
00:20:26,730 --> 00:20:32,400
populations have been in rapid decline

474
00:20:29,539 --> 00:20:34,379
during the same period gentle

475
00:20:32,400 --> 00:20:36,090
populations have grown and they've

476
00:20:34,380 --> 00:20:38,760
extended their distribution further

477
00:20:36,089 --> 00:20:41,939
south it looks like changes in sea ice

478
00:20:38,759 --> 00:20:43,730
due to climate change may be the key gen

479
00:20:41,940 --> 00:20:46,650
tees are adapted to sub-antarctic

480
00:20:43,730 --> 00:20:49,589
islands where they forage in ice-free

481
00:20:46,650 --> 00:20:52,680
areas adelic penguins spend their

482
00:20:49,589 --> 00:20:56,178
winters in the pack ice so one penguins

483
00:20:52,680 --> 00:20:59,640
loss is another birds gain

484
00:20:56,179 --> 00:21:01,820
newborn Antarctic fur seals are also

485

00:20:59,640 --> 00:21:04,070
feeling the pinch due to climate change

486
00:21:01,819 --> 00:21:06,720
during the first few months of life

487
00:21:04,069 --> 00:21:09,869
Antarctic fur seal pups are especially

488
00:21:06,720 --> 00:21:11,519
vulnerable to cold conditions climate

489
00:21:09,869 --> 00:21:13,918
models may show an increase in

490
00:21:11,519 --> 00:21:16,319
temperature but windia and wetter

491
00:21:13,919 --> 00:21:18,720
conditions mean pups will have to divert

492
00:21:16,319 --> 00:21:21,119
more energy into keeping warm and less

493
00:21:18,720 --> 00:21:23,548
into growing up this change will

494
00:21:21,119 --> 00:21:26,489
dramatically affect fur seal pup

495
00:21:23,548 --> 00:21:28,079
survival rates added to this it is

496
00:21:26,490 --> 00:21:30,960
likely that climate change will affect

497
00:21:28,079 --> 00:21:33,509
the availability of prey placing even

498
00:21:30,960 --> 00:21:35,880
more stress on the vulnerable pups and

499
00:21:33,509 --> 00:21:40,740

now for fast facts about Aunt Arctic

500

00:21:35,880 --> 00:21:42,780

wildlife and climate change Antarctic

501

00:21:40,740 --> 00:21:44,730

whale species such as Mickey's and

502

00:21:42,779 --> 00:21:47,399

humpbacks could lose between five and

503

00:21:44,730 --> 00:21:50,069

thirty percent of their habitat as the

504

00:21:47,400 --> 00:21:52,740

oceans warm leopard seals face an

505

00:21:50,069 --> 00:21:55,649

uncertain future as large areas of sea

506

00:21:52,740 --> 00:21:57,839

ice on which they breed disappear krill

507

00:21:55,650 --> 00:22:00,360

the Southern Oceans main food source are

508

00:21:57,839 --> 00:22:03,418

in decline with losses of up to eighty

509

00:22:00,359 --> 00:22:06,599

percent in some areas in the past 30

510

00:22:03,419 --> 00:22:09,210

years and the annual migration of killer

511

00:22:06,599 --> 00:22:11,879

whales may be severely affected by the

512

00:22:09,210 --> 00:22:13,700

loss of ice floes normally they would

513

00:22:11,880 --> 00:22:17,010

follow these around the polar seas

514
00:22:13,700 --> 00:22:19,169
that's it for this a week in science for

515
00:22:17,009 --> 00:22:21,119
more information on antarctic wildlife

516
00:22:19,169 --> 00:22:25,710
and climate change go to the our oils

517
00:22:21,119 --> 00:22:28,379
website ri8 u-s-d-a you follow us on

518
00:22:25,710 --> 00:22:31,110
twitter at our iOS and like us on

519
00:22:28,380 --> 00:22:34,160
facebook i'm paul us and we'll catch you

520
00:22:31,109 --> 00:22:34,159
back here next week

521
00:22:44,730 --> 00:22:50,019
ad hominem begging the question factoid

522
00:22:47,890 --> 00:22:52,150
propagation false analogy false cause

523
00:22:50,019 --> 00:22:53,950
false dichotomy gibberish immunized

524
00:22:52,150 --> 00:22:55,480
hypothesis moral equivalence poison the

525
00:22:53,950 --> 00:22:58,120
well simple modern certitude stacking

526
00:22:55,480 --> 00:23:00,039
the deck and WTF are just some of the

527
00:22:58,119 --> 00:23:02,589
phalluses we provide real life examples

528

00:23:00,039 --> 00:23:06,460

of in hunting humbug 101 a podcast about

529

00:23:02,589 --> 00:23:15,069

bad arguments check it out at WWF text

530

00:23:06,460 --> 00:23:17,710

field guide dotnet Maynard what is bunga

531

00:23:15,069 --> 00:23:19,629

bunga bunga bunga is the strangely weird

532

00:23:17,710 --> 00:23:20,769

project that the ABC broadcasting

533

00:23:19,630 --> 00:23:23,020

commission is not the slot has been

534

00:23:20,769 --> 00:23:25,059

interesting in so i thought tim ferguson

535

00:23:23,019 --> 00:23:26,799

and i should just go it alone and make a

536

00:23:25,059 --> 00:23:28,450

show called bunga bunga look it up

537

00:23:26,799 --> 00:23:30,309

online it's a punchline of a joke that

538

00:23:28,450 --> 00:23:31,569

can't be shared in mixed company and we

539

00:23:30,309 --> 00:23:33,700

basically take questions from the

540

00:23:31,569 --> 00:23:36,009

audience and are searching for a format

541

00:23:33,700 --> 00:23:38,470

I mean really we thought McHale's Navy

542

00:23:36,009 --> 00:23:39,819
we'd do that but no World War 2 is over

543
00:23:38,470 --> 00:23:41,410
and we couldn't get a navy boat for love

544
00:23:39,819 --> 00:23:43,450
nor money so we thought we'd just sit at

545
00:23:41,410 --> 00:23:45,279
the frou-frou cafe earring glebe hearing

546
00:23:43,450 --> 00:23:47,710
bleep and just do some funny stuff and

547
00:23:45,279 --> 00:23:49,629
see what happens and episode 3 is coming

548
00:23:47,710 --> 00:23:51,850
out shortly we discuss all the important

549
00:23:49,630 --> 00:23:53,200
stuff like why Liza Minnelli is the only

550
00:23:51,849 --> 00:23:56,079
person who has anything good to say

551
00:23:53,200 --> 00:23:58,090
about the y Mar Republic why the dc-3

552
00:23:56,079 --> 00:24:00,399
and Melbourne is known as the sea 41 in

553
00:23:58,089 --> 00:24:03,159
America and three people will think that

554
00:24:00,400 --> 00:24:05,500
joke is funny and and Tim basically

555
00:24:03,160 --> 00:24:08,350
explains his favorite episodes of comedy

556
00:24:05,500 --> 00:24:09,910

we talk about stuff it's skeptical if

557

00:24:08,349 --> 00:24:11,799

you like a skeptical show it's a

558

00:24:09,910 --> 00:24:13,840

skeptical show if you love a show about

559

00:24:11,799 --> 00:24:15,579

a religion it's the religious show for

560

00:24:13,839 --> 00:24:16,789

you if you want to show that talks about

561

00:24:15,579 --> 00:24:18,289

the

562

00:24:16,789 --> 00:24:20,119

noise in the background that no one's

563

00:24:18,289 --> 00:24:22,099

ever been able to explain we've got the

564

00:24:20,119 --> 00:24:23,929

beeping noise show for you that's

565

00:24:22,099 --> 00:24:26,000

basically built bunga bunga at manor

566

00:24:23,930 --> 00:24:28,279

calm but are you have a listen please

567

00:24:26,000 --> 00:24:29,960

criticize us because we love criticism i

568

00:24:28,279 --> 00:24:32,899

think i'm going to criticize this up

569

00:24:29,960 --> 00:24:34,730

this little tiny truck but it's got a

570

00:24:32,900 --> 00:24:36,259

beeping sound on the back that's why do

571
00:24:34,730 --> 00:24:37,819
these things happen me know when you

572
00:24:36,259 --> 00:24:41,390
help me his a mystery of the universe

573
00:24:37,819 --> 00:24:43,519
man our target yeah this is one for all

574
00:24:41,390 --> 00:24:45,200
time when I'm at home and i'm about to

575
00:24:43,519 --> 00:24:47,809
record the introductions for the skeptic

576
00:24:45,200 --> 00:24:49,160
zone ninety percent of the time i sit

577
00:24:47,809 --> 00:24:51,399
down to say hello and welcome and

578
00:24:49,160 --> 00:24:51,400
suddenly

579
00:24:52,159 --> 00:24:56,730
747 yeah well you do live at a secret

580
00:24:54,538 --> 00:24:57,929
Air Force Base does how I think that's

581
00:24:56,730 --> 00:24:59,579
part of the problem the other problem is

582
00:24:57,929 --> 00:25:01,590
that you cat doesn't make noise when you

583
00:24:59,579 --> 00:25:03,629
wanted to Fred the cat shuts up he does

584
00:25:01,589 --> 00:25:04,798
mmm I say hello Fred the Caddy just

585

00:25:03,630 --> 00:25:06,929

looks at me but in the middle of the

586

00:25:04,798 --> 00:25:08,700

night it's meow meow look normally he's

587

00:25:06,929 --> 00:25:11,370

one manswers the phone meow meow meow

588

00:25:08,700 --> 00:25:13,019

yes yes yes Fred yeah I know ok it's

589

00:25:11,369 --> 00:25:14,908

tough living members meow meow yeah but

590

00:25:13,019 --> 00:25:16,980

could you put Richard on nice he it just

591

00:25:14,909 --> 00:25:19,200

goes on look but what look look it's

592

00:25:16,980 --> 00:25:21,058

Maynard Chopra here and I've got the ten

593

00:25:19,200 --> 00:25:24,210

dollar challenge for you really simple

594

00:25:21,058 --> 00:25:27,990

as that ok can someone explain to me

595

00:25:24,210 --> 00:25:30,179

pants pants go down pants come up who

596

00:25:27,990 --> 00:25:32,220

can explain that there you go mix mix

597

00:25:30,179 --> 00:25:33,659

masters who can explain that X master

598

00:25:32,220 --> 00:25:35,100

exactly i haven't seen one of those who

599

00:25:33,659 --> 00:25:36,450
use where can you get a bowl but for

600
00:25:35,099 --> 00:25:37,859
your fridge when it goes out who can

601
00:25:36,450 --> 00:25:39,630
explain that I've got a ten dollar

602
00:25:37,859 --> 00:25:41,069
challenge signed by the indian guy who

603
00:25:39,630 --> 00:25:44,278
runs a service station around the corner

604
00:25:41,069 --> 00:25:46,500
from me a crisp 10 dolla note if someone

605
00:25:44,278 --> 00:25:48,179
can tell me how you can possibly replace

606
00:25:46,500 --> 00:25:50,038
the bulb in your refrigerator when it

607
00:25:48,179 --> 00:25:51,419
goes out i'm throwing it away how do you

608
00:25:50,038 --> 00:25:52,919
know if it's still on when you shut the

609
00:25:51,419 --> 00:25:54,090
door no that's not the important thing

610
00:25:52,919 --> 00:25:56,970
that that's been explained two years ago

611
00:25:54,089 --> 00:25:58,859
what can't be explained by these amazing

612
00:25:56,970 --> 00:26:00,480
people apparently and their cronies and

613
00:25:58,859 --> 00:26:01,528

their cronies the people that hang

614

00:26:00,480 --> 00:26:02,990

around with them the people that drink

615

00:26:01,528 --> 00:26:06,538

within these people that call themselves

616

00:26:02,990 --> 00:26:08,490

skeptics agree but they can't spell

617

00:26:06,538 --> 00:26:10,319

skeptic how the hell should they know

618

00:26:08,490 --> 00:26:12,298

how the universe works this is Maynard

619

00:26:10,319 --> 00:26:14,069

Chopra in and out remember this ten

620

00:26:12,298 --> 00:26:16,168

bucks in it for you people in backs I'm

621

00:26:14,069 --> 00:26:19,408

being applied for that myself look the

622

00:26:16,169 --> 00:26:21,299

website is Maynard com au that's why all

623

00:26:19,409 --> 00:26:24,149

may not need yes I'm there with my

624

00:26:21,298 --> 00:26:25,859

cronies your cronies that's right as

625

00:26:24,148 --> 00:26:28,229

soon as I know that word means I'm gonna

626

00:26:25,859 --> 00:26:29,129

do it there goes that truck not to be

627

00:26:28,230 --> 00:26:31,680

the one

628
00:26:29,130 --> 00:26:33,240
it's quite exciting doing a bit on the

629
00:26:31,680 --> 00:26:35,070
side of the street this is why we do

630
00:26:33,240 --> 00:26:36,720
bunga bunga live from various cafes

631
00:26:35,069 --> 00:26:38,669
around leave except we have been thrown

632
00:26:36,720 --> 00:26:40,170
out of all of them except the frou-frou

633
00:26:38,670 --> 00:26:42,350
and as soon as we know what frou-frou

634
00:26:40,170 --> 00:26:45,090
means we'll probably stop doing it there

635
00:26:42,349 --> 00:26:48,439
thank you very much that's okay over and

636
00:26:45,089 --> 00:26:48,439
out \$10

637
00:26:52,130 --> 00:26:58,530
I'm Gauss's hello an ally Dawson to her

638
00:26:55,470 --> 00:27:00,329
letter skeptics on podcasts boasted year

639
00:26:58,529 --> 00:27:02,308
this is alvin Deutschland and in skeptic

640
00:27:00,329 --> 00:27:04,980
of a band gift / vital information

641
00:27:02,308 --> 00:27:10,139
newborns on the skeptic a magazine

642
00:27:04,980 --> 00:27:14,759
reserved vvv punt gavey oop a punk talk

643
00:27:10,140 --> 00:27:17,130
hv d'avola BBB won't give a rupee Paul

644
00:27:14,759 --> 00:27:21,170
talk on Tonto off it say on facebook

645
00:27:17,130 --> 00:27:21,170
twitter and google+ Simon

646
00:27:32,890 --> 00:27:37,690
and joining me now all the way from st.

647
00:27:35,799 --> 00:27:39,399
Louis Missouri I've never been to st.

648
00:27:37,690 --> 00:27:42,009
Louis Missouri but you know one day I

649
00:27:39,400 --> 00:27:44,380
just might make it there it's Bob black

650
00:27:42,009 --> 00:27:45,970
through its hello Bob hey Richard how

651
00:27:44,380 --> 00:27:47,770
you doing I'm doing really well you know

652
00:27:45,970 --> 00:27:49,450
what I'm I think I was just telling you

653
00:27:47,769 --> 00:27:51,160
before we started i'm up at the crack of

654
00:27:49,450 --> 00:27:53,440
dawn or actually it's still dark outside

655
00:27:51,160 --> 00:27:55,150
i'm trying to beat jetlag if you can

656

00:27:53,440 --> 00:27:58,299
come up with a cure for jet lag i will

657
00:27:55,150 --> 00:28:00,850
pay you a million dollars but that's a

658
00:27:58,299 --> 00:28:02,079
quick quick q is for jet lag out there

659
00:28:00,849 --> 00:28:04,000
but let's talk about something more

660
00:28:02,079 --> 00:28:06,909
serious about more some more quackery

661
00:28:04,000 --> 00:28:10,769
out there and for quite a while now you

662
00:28:06,910 --> 00:28:13,779
have been very active and very

663
00:28:10,769 --> 00:28:16,089
forthright in your activities and online

664
00:28:13,779 --> 00:28:19,750
presence especially when it comes to a

665
00:28:16,089 --> 00:28:22,809
certain uh what you call the houston

666
00:28:19,750 --> 00:28:24,640
cancer quack and he's got a name which

667
00:28:22,809 --> 00:28:26,619
is almost incomprehensible and

668
00:28:24,640 --> 00:28:28,270
unpronounceable which is standards own

669
00:28:26,619 --> 00:28:32,529
standards to see i can't even pronounce

670
00:28:28,269 --> 00:28:34,750

it myself stanislav brzezinski now just

671

00:28:32,529 --> 00:28:37,930

for those people who out there who may

672

00:28:34,750 --> 00:28:39,940

not have heard of this man briefly what

673

00:28:37,930 --> 00:28:43,560

what is he about and what are some of

674

00:28:39,940 --> 00:28:48,580

his claims well he sells a cancer

675

00:28:43,559 --> 00:28:51,009

treatment known as antineoplastons they

676

00:28:48,579 --> 00:28:53,259

are a they were originally derived from

677

00:28:51,009 --> 00:28:55,900

human urine other fraction of human

678

00:28:53,259 --> 00:28:59,259

urine and he claims that they are

679

00:28:55,900 --> 00:29:03,370

endogenous compounds that are capable of

680

00:28:59,259 --> 00:29:05,379

fighting cancer he thinks that patients

681

00:29:03,369 --> 00:29:07,589

with cancer had fewer of these amino

682

00:29:05,380 --> 00:29:12,700

acids and peptides in their their their

683

00:29:07,589 --> 00:29:16,240

blood and urine however no other you

684

00:29:12,700 --> 00:29:18,670

know oncologist on the planet recognized

685
00:29:16,240 --> 00:29:21,299
a lack of antineoplastons as a cause for

686
00:29:18,670 --> 00:29:25,180
cancer so he's the only one out there

687
00:29:21,299 --> 00:29:27,069
and he's been he's been um selling this

688
00:29:25,180 --> 00:29:30,759
this drug in treating patients for about

689
00:29:27,069 --> 00:29:34,210
40 years for did you say did you say 40

690
00:29:30,759 --> 00:29:38,200
years 40 years yeah well 70s it seems

691
00:29:34,210 --> 00:29:41,500
like yeah so and in the last 15 years

692
00:29:38,200 --> 00:29:45,640
he's been limited to dispensing these as

693
00:29:41,500 --> 00:29:46,769
part of clinical trials about a year and

694
00:29:45,640 --> 00:29:50,670
a half ago

695
00:29:46,769 --> 00:29:53,099
a child by the name of Josiah kado died

696
00:29:50,670 --> 00:29:57,000
while on antineoplastons with a sodium

697
00:29:53,099 --> 00:30:02,299
level that was around 205 I believe that

698
00:29:57,000 --> 00:30:06,150
the typical range is 135 to 145 and

699
00:30:02,299 --> 00:30:09,230
sodium is an hypernatremia elevated

700
00:30:06,150 --> 00:30:11,730
sodium levels a known side effect of

701
00:30:09,230 --> 00:30:16,200
antineoplastons and so the trials were

702
00:30:11,730 --> 00:30:17,730
suspended and in just this past December

703
00:30:16,200 --> 00:30:20,670
it really looked like the Burzynski

704
00:30:17,730 --> 00:30:24,750
clinic was was down for the count they

705
00:30:20,670 --> 00:30:26,850
were the subject of a USA Today

706
00:30:24,750 --> 00:30:30,329
investigation that skeptics helped

707
00:30:26,849 --> 00:30:36,109
initiate they received a warning letter

708
00:30:30,329 --> 00:30:39,059
that detailed simply absurd levels of

709
00:30:36,109 --> 00:30:42,659
incompetency and violations of protocols

710
00:30:39,059 --> 00:30:48,379
and inflated numbers inflated success

711
00:30:42,660 --> 00:30:50,880
rates a failure to protect patients and

712
00:30:48,380 --> 00:30:54,810
just a really kind of inconceivable

713

00:30:50,880 --> 00:30:57,360
number of operations at the same time

714
00:30:54,809 --> 00:30:59,069
new proceedings were initiated by the

715
00:30:57,359 --> 00:31:02,309
Texas Medical Board against Pierzynski

716
00:30:59,069 --> 00:31:06,029
for false marketing in the last few days

717
00:31:02,309 --> 00:31:08,339
we've gotten word that the FDA will be

718
00:31:06,029 --> 00:31:12,299
giving Pierzynski the green light to

719
00:31:08,339 --> 00:31:13,799
resume administering Antonio plastids so

720
00:31:12,299 --> 00:31:16,440
we're kind of surprised by that and

721
00:31:13,799 --> 00:31:19,230
we're wondering how that happened so I

722
00:31:16,440 --> 00:31:20,910
was just about to ask you how did this

723
00:31:19,230 --> 00:31:24,029
happen but you're wondering yourself

724
00:31:20,910 --> 00:31:26,790
look what I guess however the years

725
00:31:24,029 --> 00:31:28,769
we've seen a lot of strange decisions

726
00:31:26,789 --> 00:31:31,349
come from authorities we can't quite

727
00:31:28,769 --> 00:31:34,970

figure out why they do these things but

728

00:31:31,349 --> 00:31:38,879

I guess it it just means that you've you

729

00:31:34,970 --> 00:31:42,329

steadfast in your resolve yeah I don't

730

00:31:38,880 --> 00:31:47,880

see any any choice you know but for us

731

00:31:42,329 --> 00:31:49,980

to dig in harder and do what we can to

732

00:31:47,880 --> 00:31:53,340

see that the situation is remedied we

733

00:31:49,980 --> 00:31:56,490

really do think that this is a decision

734

00:31:53,339 --> 00:31:59,928

that places a patient at patients at

735

00:31:56,490 --> 00:32:03,769

risk with no plausible benefit

736

00:31:59,929 --> 00:32:07,519

um so and it turns out like this has

737

00:32:03,769 --> 00:32:10,339

kind of been a drip drip drip I you know

738

00:32:07,519 --> 00:32:13,210

from the FDA over the last few months I

739

00:32:10,339 --> 00:32:15,199

believe was in late march or april uh

740

00:32:13,210 --> 00:32:17,528

the fda announced that they were going

741

00:32:15,200 --> 00:32:20,808

to allow some patients who were

742
00:32:17,528 --> 00:32:24,648
campaigning to be put on antineoplastons

743
00:32:20,808 --> 00:32:26,210
for their incurable brain tumors that

744
00:32:24,648 --> 00:32:29,508
they were they were going to be allowed

745
00:32:26,210 --> 00:32:31,759
to take the treatment as long as another

746
00:32:29,509 --> 00:32:33,499
doctor who wasn't Pierzynski was

747
00:32:31,759 --> 00:32:36,288
administering it and that an

748
00:32:33,499 --> 00:32:37,999
institutional review board approved an

749
00:32:36,288 --> 00:32:39,919
independent institutional review board

750
00:32:37,999 --> 00:32:43,368
not the one that's been rubber-stamping

751
00:32:39,919 --> 00:32:46,899
Burzynski's treatments signed off on it

752
00:32:43,368 --> 00:32:49,628
and and thirdly that they could find a

753
00:32:46,898 --> 00:32:52,778
treatment I'm sorry a doctor and their

754
00:32:49,628 --> 00:32:55,038
home state to oversee the treatment and

755
00:32:52,778 --> 00:33:00,700
some patients have been able to meet

756
00:32:55,038 --> 00:33:03,740
that criteria and we just kind of were

757
00:33:00,700 --> 00:33:06,980
kind of nervous that you know if this if

758
00:33:03,740 --> 00:33:09,378
the FDA blinked on on the these

759
00:33:06,980 --> 00:33:11,378
desperate patients that they might you

760
00:33:09,378 --> 00:33:14,058
know fold when it came to

761
00:33:11,378 --> 00:33:16,038
antineoplastons in general and it looks

762
00:33:14,058 --> 00:33:18,970
like they it looks like they have an

763
00:33:16,038 --> 00:33:22,308
interesting side note one of the doctors

764
00:33:18,970 --> 00:33:24,169
who has been treating one of these

765
00:33:22,308 --> 00:33:28,460
patients recently has been very

766
00:33:24,169 --> 00:33:31,360
outspoken about what's going on in terms

767
00:33:28,460 --> 00:33:36,679
of the treatment he's kind of surprised

768
00:33:31,359 --> 00:33:37,998
that his name is Terry Bennett a doctor

769
00:33:36,679 --> 00:33:40,090
New Hampshire who's who's seeing the

770

00:33:37,999 --> 00:33:44,919
treatment of a 12 year old girl

771
00:33:40,089 --> 00:33:48,319
Mackenzie lo her father went to a DC

772
00:33:44,919 --> 00:33:50,389
drove from New Hampshire to DC to talk

773
00:33:48,319 --> 00:33:52,759
to the FDA because he didn't feel he was

774
00:33:50,388 --> 00:33:54,949
getting his questions answered so the

775
00:33:52,759 --> 00:33:57,528
patients are really fighting for this at

776
00:33:54,950 --> 00:33:58,700
the same time this doctor is learning

777
00:33:57,528 --> 00:34:00,859
what it means to do business with

778
00:33:58,700 --> 00:34:03,409
Pierzynski he says that he feels like he

779
00:34:00,859 --> 00:34:04,969
is the bad man the one who's supposed to

780
00:34:03,409 --> 00:34:07,490
collect thirty thousand dollars and

781
00:34:04,970 --> 00:34:10,030
deliver to Pierzynski he says it has all

782
00:34:07,490 --> 00:34:13,679
the components of bait and switch

783
00:34:10,030 --> 00:34:14,790
skeptics could have told him this and we

784
00:34:13,679 --> 00:34:16,019

really wish that people knew what they

785

00:34:14,789 --> 00:34:18,329
were getting into before they get

786

00:34:16,019 --> 00:34:20,190
entangled with this Pierzynski guy well

787

00:34:18,329 --> 00:34:23,159
I guess that's one of the reasons that

788

00:34:20,190 --> 00:34:25,139
you're so active out there how can other

789

00:34:23,159 --> 00:34:27,869
people help what are some of the

790

00:34:25,139 --> 00:34:30,329
websites you can direct people to I

791

00:34:27,869 --> 00:34:32,879
would recommend the Houston cancer quack

792

00:34:30,329 --> 00:34:35,309
com that has good information about how

793

00:34:32,878 --> 00:34:37,049
to boost reliable information into

794

00:34:35,309 --> 00:34:39,599
Pierzynski web searches so that

795

00:34:37,050 --> 00:34:44,339
potential patients seek good information

796

00:34:39,599 --> 00:34:47,220
instead of his propaganda and feel free

797

00:34:44,338 --> 00:34:50,148
to contact me at skeptics protect @

798

00:34:47,219 --> 00:34:52,259
gmail.com that's the email for the

799

00:34:50,148 --> 00:34:54,529

skeptics for the protection of cancer

800

00:34:52,260 --> 00:34:58,319

patients group that I'm involved with

801

00:34:54,530 --> 00:34:59,940

yes this is must admit for me personally

802

00:34:58,318 --> 00:35:02,489

this is sort of hitting home a little

803

00:34:59,940 --> 00:35:05,429

bit because right now my poor old mum is

804

00:35:02,489 --> 00:35:08,459

having chemo she's doing very well I'm

805

00:35:05,429 --> 00:35:10,199

pleased to say but I it's it's a long

806

00:35:08,460 --> 00:35:14,280

process of course but mums in good

807

00:35:10,199 --> 00:35:18,949

spirits she's you know hats off to mum

808

00:35:14,280 --> 00:35:21,420

she's absolutely sure that the

809

00:35:18,949 --> 00:35:24,509

scientifically based medical approach

810

00:35:21,420 --> 00:35:26,670

with chemotherapy and listening to her

811

00:35:24,510 --> 00:35:29,819

professors and her doctors is exactly

812

00:35:26,670 --> 00:35:31,409

the right way to go and having the

813
00:35:29,818 --> 00:35:33,568
president of the strange skeptics as a

814
00:35:31,409 --> 00:35:36,179
son actually has an influence to you

815
00:35:33,568 --> 00:35:38,789
know she she she knew then the correct

816
00:35:36,179 --> 00:35:42,118
direction to go however visiting the

817
00:35:38,789 --> 00:35:44,400
cancer ward as I do regularly now I can

818
00:35:42,119 --> 00:35:47,760
i really can understand how people can

819
00:35:44,400 --> 00:35:51,059
get to the stage where if a magic cure

820
00:35:47,760 --> 00:35:53,430
or a hope is dangled before them how

821
00:35:51,059 --> 00:35:58,079
that can well more or less override a

822
00:35:53,429 --> 00:36:01,679
lot of skeptical what shall we say

823
00:35:58,079 --> 00:36:04,079
roadblocks in their mind yeah I actually

824
00:36:01,679 --> 00:36:07,489
had a very similar experience couple

825
00:36:04,079 --> 00:36:12,059
weeks ago a family member who just died

826
00:36:07,489 --> 00:36:14,789
got a diagnosis of pancreatic cancer and

827

00:36:12,059 --> 00:36:16,319
I actually thought about one of the

828
00:36:14,789 --> 00:36:18,500
pancreatic cancer patients who I've met

829
00:36:16,318 --> 00:36:20,639
who's still alive five years on and

830
00:36:18,500 --> 00:36:22,559
wondered if Pierzynski had done

831
00:36:20,639 --> 00:36:24,058
something or what was it that this

832
00:36:22,559 --> 00:36:26,160
person had done and I know that's not

833
00:36:24,059 --> 00:36:27,540
the way that you're not supposed to to

834
00:36:26,159 --> 00:36:30,569
go about looking for a

835
00:36:27,539 --> 00:36:34,579
yours is through anecdote but pancreatic

836
00:36:30,570 --> 00:36:37,019
cancer is a bad one yeah and I I

837
00:36:34,579 --> 00:36:40,079
understand that that sense of just

838
00:36:37,019 --> 00:36:41,730
flailing out for anything like hope um

839
00:36:40,079 --> 00:36:44,549
if someone throws you aligned you're

840
00:36:41,730 --> 00:36:46,860
likely to grab it and that's what I find

841
00:36:44,550 --> 00:36:50,400

so reprehensible about the Burzynski

842

00:36:46,860 --> 00:36:52,170

clinic yeah yeah it there they're really

843

00:36:50,400 --> 00:36:56,099

playing on that part of human nature

844

00:36:52,170 --> 00:36:57,329

that that the hope springs eternal well

845

00:36:56,099 --> 00:37:00,119

let's think of something a bit more

846

00:36:57,329 --> 00:37:02,489

positive now I'll be seeing you in just

847

00:37:00,119 --> 00:37:03,719

a matter of a few weeks at the amazing

848

00:37:02,489 --> 00:37:07,199

meeting of course are you going to be

849

00:37:03,719 --> 00:37:10,619

discussing this there I will be working

850

00:37:07,199 --> 00:37:13,009

with Susan garvik we have I believe it's

851

00:37:10,619 --> 00:37:16,889

on Sunday we're going to have an

852

00:37:13,010 --> 00:37:20,010

activism workshop but I'm also going to

853

00:37:16,889 --> 00:37:24,500

be on a couple of regularly scheduled

854

00:37:20,010 --> 00:37:26,790

workshops the education workshop and

855

00:37:24,500 --> 00:37:30,420

another one that escapes me on rhetoric

856
00:37:26,789 --> 00:37:32,699
and skepticism work so yeah I look

857
00:37:30,420 --> 00:37:34,470
forward to seeing you yeah it's always

858
00:37:32,699 --> 00:37:36,809
great to catch up with the gang as i

859
00:37:34,469 --> 00:37:39,089
call them though all my old friends and

860
00:37:36,809 --> 00:37:41,369
lots of a skeptic zone listeners of

861
00:37:39,090 --> 00:37:45,539
course and i look forward to seeing you

862
00:37:41,369 --> 00:37:47,400
and well of course james randi always

863
00:37:45,539 --> 00:37:49,710
good to catch up like James only all

864
00:37:47,400 --> 00:37:52,320
right Bob we're really nice of you to

865
00:37:49,710 --> 00:37:56,309
spare me a bit of time in the wee small

866
00:37:52,320 --> 00:37:59,340
hours here in Australia as I wake up

867
00:37:56,309 --> 00:38:01,799
early and all the best with the

868
00:37:59,340 --> 00:38:04,680
continuing efforts of on this matter and

869
00:38:01,800 --> 00:38:07,370
I'll be seeing you soon all right that's

870
00:38:04,679 --> 00:38:07,369
right you're taking

871
00:38:20,329 --> 00:38:26,670
hello dear skeptical ninjas my name is

872
00:38:23,880 --> 00:38:29,070
Jake far water and my name is Russ vault

873
00:38:26,670 --> 00:38:32,550
and we are here to talk to you about

874
00:38:29,070 --> 00:38:34,710
breeze skepta camp which is coming up in

875
00:38:32,550 --> 00:38:36,960
July so who is speaking out for a

876
00:38:34,710 --> 00:38:39,510
skeptic amp will take you and I will be

877
00:38:36,960 --> 00:38:41,970
there as hosts as hosts and also

878
00:38:39,510 --> 00:38:44,280
recording the podcast a podcast right

879
00:38:41,969 --> 00:38:46,469
and we've got John clock from skeptical

880
00:38:44,280 --> 00:38:48,570
science i conned well we've got Theo

881
00:38:46,469 --> 00:38:50,309
Clark who does hunting humble podcast

882
00:38:48,570 --> 00:38:53,070
and also the script it's field guide

883
00:38:50,309 --> 00:38:54,869
that is amazing and Loretta mehran from

884

00:38:53,070 --> 00:38:57,059
friends of science and medicine that is

885
00:38:54,869 --> 00:38:59,280
fantastic and if all of that sounded too

886
00:38:57,059 --> 00:39:01,739
amazing we have a whole host of local

887
00:38:59,280 --> 00:39:03,660
skeptics in the brisbane area so if i

888
00:39:01,739 --> 00:39:05,189
call neo do i also get a free set of

889
00:39:03,659 --> 00:39:07,589
steak knives well i would be quite

890
00:39:05,190 --> 00:39:10,349
skeptical of that claim jack so how can

891
00:39:07,590 --> 00:39:12,900
I find out more about brisket again you

892
00:39:10,349 --> 00:39:15,509
can go to brisket to camp org that was

893
00:39:12,900 --> 00:39:18,300
an advantageous Lee made web domain name

894
00:39:15,510 --> 00:39:22,320
I dare say yes and when is bred skeptic

895
00:39:18,300 --> 00:39:24,269
in July 19th this year so July 19 this

896
00:39:22,320 --> 00:39:26,309
year and it's free it's a completely

897
00:39:24,269 --> 00:39:28,170
free completely free yeah with a free

898
00:39:26,309 --> 00:39:31,230

set of steak knives as well I would

899

00:39:28,170 --> 00:39:35,480

continue to be skeptical so go to brisk

900

00:39:31,230 --> 00:39:35,480

after Carol right now

901

00:39:42,949 --> 00:39:50,649

what we want is some more evidence

902

00:39:45,440 --> 00:39:50,650

please is Joe alabaster

903

00:39:54,030 --> 00:39:58,040

hello this is Joe alabaster

904

00:40:00,000 --> 00:40:05,250

well up here in the Blue Mountains is

905

00:40:02,489 --> 00:40:07,379

incredibly cold this week a friend of

906

00:40:05,250 --> 00:40:09,199

mine is CP who's been interviewed at

907

00:40:07,380 --> 00:40:11,519

skeptical camp on skeptic zone before

908

00:40:09,199 --> 00:40:13,829

pointed me towards a rather amusing

909

00:40:11,519 --> 00:40:16,889

website a couple of days ago homeaway

910

00:40:13,829 --> 00:40:19,650

com.au which contains travel guides for

911

00:40:16,889 --> 00:40:20,879

holiday destinations in Australia the

912

00:40:19,650 --> 00:40:23,490

page thought I had a bit of a giggle

913
00:40:20,880 --> 00:40:26,730
over is about blue mountain skiing in

914
00:40:23,489 --> 00:40:28,349
which they claim that quote the Blue

915
00:40:26,730 --> 00:40:30,000
Mountains are filled with dozens of

916
00:40:28,349 --> 00:40:31,829
winding trails that are perfect for

917
00:40:30,000 --> 00:40:33,840
cross-country skiers who are looking to

918
00:40:31,829 --> 00:40:37,079
experience the breathtaking views of the

919
00:40:33,840 --> 00:40:39,300
Sydney basin end quote while it's true

920
00:40:37,079 --> 00:40:41,429
that we do have many rather cynic bush

921
00:40:39,300 --> 00:40:43,710
walks up here we also only have a

922
00:40:41,429 --> 00:40:45,899
handful of days in which it snows very

923
00:40:43,710 --> 00:40:48,599
lightly at that and rarely blow 100

924
00:40:45,900 --> 00:40:51,269
metres cross-country skiing is not on

925
00:40:48,599 --> 00:40:53,759
the cards here the website also states

926
00:40:51,269 --> 00:40:55,289
quote skills that are looking for a more

927

00:40:53,760 --> 00:40:57,780
thrilling and adrenaline pumping

928

00:40:55,289 --> 00:41:00,900
experience can enjoy engaging in

929

00:40:57,780 --> 00:41:02,670
downhill skiing ski slopes in thredbo or

930

00:41:00,900 --> 00:41:04,650
perisher are just a short drive away

931

00:41:02,670 --> 00:41:08,070
from most accommodations in the Blue

932

00:41:04,650 --> 00:41:10,590
Mountains end quote short drives a

933

00:41:08,070 --> 00:41:12,570
relative of course but thredbo and

934

00:41:10,590 --> 00:41:15,120
perisher are in the Kosciusko national

935

00:41:12,570 --> 00:41:16,860
park near the border of victoria a good

936

00:41:15,119 --> 00:41:19,109
six hour drive away from the Blue

937

00:41:16,860 --> 00:41:20,490
Mountains I fear that snow buddy is

938

00:41:19,110 --> 00:41:22,920
headed for the Blue Mountains on the

939

00:41:20,489 --> 00:41:25,709
advice of homeaway.com da day you quite

940

00:41:22,920 --> 00:41:28,500
likely to be disappointed anyhow it's

941

00:41:25,710 --> 00:41:30,630
four degrees Celsius which is 39 degrees

942
00:41:28,500 --> 00:41:32,309
Fahrenheit just so those of you out

943
00:41:30,630 --> 00:41:33,869
there who have seriously called winters

944
00:41:32,309 --> 00:41:36,210
can have a giggle at me for finding this

945
00:41:33,869 --> 00:41:39,630
chilly I'm all rolled up on to this

946
00:41:36,210 --> 00:41:42,599
week's story Julie Eric seralini and his

947
00:41:39,630 --> 00:41:44,039
rat studies are back in the news you may

948
00:41:42,599 --> 00:41:46,920
have heard of the paper which hit

949
00:41:44,039 --> 00:41:50,219
headlines in September 2012 compiled by

950
00:41:46,920 --> 00:41:52,710
a team led by seralini title long-term

951
00:41:50,219 --> 00:41:54,539
toxicity of a roundup herbicide and a

952
00:41:52,710 --> 00:41:57,179
 roundup tolerant genetically modified

953
00:41:54,539 --> 00:41:59,849
maize published in the journal food and

954
00:41:57,179 --> 00:42:02,039
chemical toxicology news of this study

955
00:41:59,849 --> 00:42:04,469

went viral with claims to exposure to

956

00:42:02,039 --> 00:42:06,480

GMO corn and random was shown to cause

957

00:42:04,469 --> 00:42:08,639

cancer in rats accompanied by

958

00:42:06,480 --> 00:42:11,190

photographs of rats with huge tumors on

959

00:42:08,639 --> 00:42:12,779

their bodies the impact was substantial

960

00:42:11,190 --> 00:42:13,920

with a widespread coverage in

961

00:42:12,780 --> 00:42:15,630

traditional media

962

00:42:13,920 --> 00:42:18,539

and high levels of discussion on social

963

00:42:15,630 --> 00:42:19,798

media and near immediately concerns over

964

00:42:18,539 --> 00:42:22,259

the study were raised by other

965

00:42:19,798 --> 00:42:24,420

scientists criticizing Sarah Lanie's

966

00:42:22,260 --> 00:42:27,359

experimental design analysis and

967

00:42:24,420 --> 00:42:29,280

presentation of data potential bias and

968

00:42:27,358 --> 00:42:31,650

the way that the paper was publicized to

969

00:42:29,280 --> 00:42:34,890

the media first up the experimental

970
00:42:31,650 --> 00:42:37,108
design seralini and his cohorts used

971
00:42:34,889 --> 00:42:39,088
sprague-dawley rats in their studies a

972
00:42:37,108 --> 00:42:41,250
line of laboratory rats which are highly

973
00:42:39,088 --> 00:42:43,529
prone to spontaneously occurring tumor

974
00:42:41,250 --> 00:42:46,170
development in particular as they age

975
00:42:43,530 --> 00:42:48,089
under normal conditions the lifespan of

976
00:42:46,170 --> 00:42:50,548
a sprague-dawley rat is approximately

977
00:42:48,088 --> 00:42:52,828
two years and the experiment lasted the

978
00:42:50,548 --> 00:42:54,719
lifetime of the rats studies have shown

979
00:42:52,829 --> 00:42:56,640
that the natural tendency of sprog

980
00:42:54,719 --> 00:42:59,368
dawley rats to develop tumors over their

981
00:42:56,639 --> 00:43:02,429
lifetimes are 72 seventy-seven percent

982
00:42:59,369 --> 00:43:05,250
for male rats and 87 to ninety-six

983
00:43:02,429 --> 00:43:06,690
percent female rats as such to conduct

984
00:43:05,250 --> 00:43:08,909
an experiment with enough statistical

985
00:43:06,690 --> 00:43:10,769
power to determine whether there was a

986
00:43:08,909 --> 00:43:12,750
higher rate of tumors in the test group

987
00:43:10,769 --> 00:43:15,389
compared to the control group at least

988
00:43:12,750 --> 00:43:18,929
65 watts per group should have been used

989
00:43:15,389 --> 00:43:21,598
in a highly criticized move seralini and

990
00:43:18,929 --> 00:43:23,879
his cohorts chose to use 10 rats per

991
00:43:21,599 --> 00:43:25,829
group additionally they didn't blind the

992
00:43:23,880 --> 00:43:27,450
experiment nor that they determined the

993
00:43:25,829 --> 00:43:29,940
cause of death of rats in the control

994
00:43:27,449 --> 00:43:31,828
group this introduced bias as the

995
00:43:29,940 --> 00:43:34,710
control and experimental groups of rats

996
00:43:31,829 --> 00:43:36,599
were treated differently information was

997
00:43:34,710 --> 00:43:38,760
not provided as to how much the rats

998

00:43:36,599 --> 00:43:41,250
were fed nor whether there was fungus

999
00:43:38,760 --> 00:43:43,200
present in the feed over feeding female

1000
00:43:41,250 --> 00:43:45,929
rats and the presence of fungus can also

1001
00:43:43,199 --> 00:43:47,669
lead to increased tumor growth in fact

1002
00:43:45,929 --> 00:43:50,039
the raw data for the study was not

1003
00:43:47,670 --> 00:43:53,490
provided at all some contend that this

1004
00:43:50,039 --> 00:43:55,289
constitutes scientific misconduct I've

1005
00:43:53,489 --> 00:43:56,699
only touched the surface and I should

1006
00:43:55,289 --> 00:43:58,920
note but while I spend a lot of time

1007
00:43:56,699 --> 00:44:00,719
learning about scientific processes I am

1008
00:43:58,920 --> 00:44:03,059
presenting the analysis of an undergrad

1009
00:44:00,719 --> 00:44:04,828
here for expert detailed analysis and

1010
00:44:03,059 --> 00:44:07,530
criticism of the experimental design

1011
00:44:04,829 --> 00:44:09,920
visit genetic literacy projects website

1012
00:44:07,530 --> 00:44:12,839

at genetic literacy project org in

1013

00:44:09,920 --> 00:44:15,150

another questionable move the séralini

1014

00:44:12,838 --> 00:44:17,849

team decided to publicize their paper in

1015

00:44:15,150 --> 00:44:19,530

a rather unconventional manner a select

1016

00:44:17,849 --> 00:44:21,720

group of journalists were presented with

1017

00:44:19,530 --> 00:44:23,160

access to the paper on the proviso that

1018

00:44:21,719 --> 00:44:25,618

they would sign confidentiality

1019

00:44:23,159 --> 00:44:27,159

agreements with penalties including

1020

00:44:25,619 --> 00:44:28,690

quote

1021

00:44:27,159 --> 00:44:30,399

refund of the cost of the study of

1022

00:44:28,690 --> 00:44:32,380

several million euros would be

1023

00:44:30,400 --> 00:44:34,240

considered damages if the premature

1024

00:44:32,380 --> 00:44:37,119

disclosure questioned the release of the

1025

00:44:34,239 --> 00:44:38,799

study and quote journalists who sign the

1026

00:44:37,119 --> 00:44:40,420

agreement were prevented from contacting

1027
00:44:38,800 --> 00:44:43,480
other scientists for comment on the

1028
00:44:40,420 --> 00:44:45,340
paper until the embargo had expired it

1029
00:44:43,480 --> 00:44:47,530
disappoints me greatly that journalists

1030
00:44:45,340 --> 00:44:49,360
will accept such terms not to mention

1031
00:44:47,530 --> 00:44:52,150
that any scientist would try to enforce

1032
00:44:49,360 --> 00:44:53,740
them independent analysis is essential

1033
00:44:52,150 --> 00:44:56,289
to presenting anything approaching an

1034
00:44:53,739 --> 00:44:58,479
objective report let alone advancing our

1035
00:44:56,289 --> 00:45:00,489
body of knowledge itself and the initial

1036
00:44:58,480 --> 00:45:02,139
media reports on the paper were lacking

1037
00:45:00,489 --> 00:45:04,899
criticism that the study very much

1038
00:45:02,139 --> 00:45:08,589
deserved this lack of criticism however

1039
00:45:04,900 --> 00:45:10,420
didn't last for long questions remain as

1040
00:45:08,590 --> 00:45:13,720
to how this paper made it through peer

1041
00:45:10,420 --> 00:45:15,309
review but by November 2013 criticism of

1042
00:45:13,719 --> 00:45:17,829
the paper prompted the editor of the

1043
00:45:15,309 --> 00:45:19,869
journal food and chemical toxicology to

1044
00:45:17,829 --> 00:45:22,960
review the paper including the raw data

1045
00:45:19,869 --> 00:45:25,809
and then retracted after seralini at all

1046
00:45:22,960 --> 00:45:27,550
refused to withdraw unfortunately as

1047
00:45:25,809 --> 00:45:29,949
we've observed in the case of Andrew

1048
00:45:27,550 --> 00:45:33,670
Wakefield even retracted papers can

1049
00:45:29,949 --> 00:45:35,469
cause harm Kenya a nation which

1050
00:45:33,670 --> 00:45:37,450
experiences troubles with food

1051
00:45:35,469 --> 00:45:40,269
insecurity rush to ban the importation

1052
00:45:37,449 --> 00:45:43,269
of GMO seeds shortly after the séralini

1053
00:45:40,269 --> 00:45:45,369
paper was released as a result investors

1054
00:45:43,269 --> 00:45:48,400
have moved away from Kenya causing

1055

00:45:45,369 --> 00:45:49,929
economic impacts Kenyan scientists and

1056
00:45:48,400 --> 00:45:52,329
governors are currently lobbying the

1057
00:45:49,929 --> 00:45:54,759
biotechnology task force to lift the

1058
00:45:52,329 --> 00:45:57,579
hastily placed GMO ban before it causes

1059
00:45:54,760 --> 00:45:59,140
further damage Kenyan counsel governor's

1060
00:45:57,579 --> 00:46:01,090
chairman for health and biotechnology

1061
00:45:59,139 --> 00:46:04,000
jakren Goomer is questioning the

1062
00:46:01,090 --> 00:46:06,720
standard Kenya as saying quote this ban

1063
00:46:04,000 --> 00:46:09,130
on GMOs was rushed and not based on fact

1064
00:46:06,719 --> 00:46:11,079
forming the task force was a waste of

1065
00:46:09,130 --> 00:46:13,360
time as there is nothing wrong with the

1066
00:46:11,079 --> 00:46:15,519
products growing economies are using the

1067
00:46:13,360 --> 00:46:19,599
biotechnology and their life spans are

1068
00:46:15,519 --> 00:46:21,849
far above ours end quote closer to home

1069
00:46:19,599 --> 00:46:23,860

those séralini rat memes and links to

1070

00:46:21,849 --> 00:46:26,469
unreliable on critical reports

1071

00:46:23,860 --> 00:46:29,079
supporting séralini suppositions keep

1072

00:46:26,469 --> 00:46:31,419
circulating online a tense second come

1073

00:46:29,079 --> 00:46:33,429
up at least once a day and to somebody

1074

00:46:31,420 --> 00:46:35,380
who hasn't read the criticism the images

1075

00:46:33,429 --> 00:46:38,109
for those rats can be quite alarming I

1076

00:46:35,380 --> 00:46:40,090
see them not only shared by those who do

1077

00:46:38,110 --> 00:46:40,780
so to support an established anti GMO

1078

00:46:40,090 --> 00:46:42,940
stand

1079

00:46:40,780 --> 00:46:44,920
but also by people who are undecided on

1080

00:46:42,940 --> 00:46:46,300
the issue but highly concerned by the

1081

00:46:44,920 --> 00:46:48,280
claim the products that people are

1082

00:46:46,300 --> 00:46:51,130
ingesting are causing rats to develop

1083

00:46:48,280 --> 00:46:52,870
huge tumors on their bodies the image is

1084
00:46:51,130 --> 00:46:55,960
a very effective one in provoking an

1085
00:46:52,869 --> 00:46:57,940
emotional response now fast-forwarding

1086
00:46:55,960 --> 00:47:00,220
to this week Sarah Lenny's claims are

1087
00:46:57,940 --> 00:47:02,980
experiencing a resurgence in attention

1088
00:47:00,219 --> 00:47:04,899
as a new paper has been published one

1089
00:47:02,980 --> 00:47:07,300
which bears an uncanny resemblance to

1090
00:47:04,900 --> 00:47:09,579
the old paper this time it's been

1091
00:47:07,300 --> 00:47:11,350
published in a relatively new to New to

1092
00:47:09,579 --> 00:47:14,110
have an impact factor open access

1093
00:47:11,349 --> 00:47:17,650
journal environmental sciences Europe

1094
00:47:14,110 --> 00:47:19,690
now titled republish study long-term

1095
00:47:17,650 --> 00:47:21,639
toxicity of a roundup herbicide and

1096
00:47:19,690 --> 00:47:24,550
 roundup tolerant genetically modified

1097
00:47:21,639 --> 00:47:26,529
mayor's the abstract has changed someone

1098
00:47:24,550 --> 00:47:28,510
but the results remain the same and the

1099
00:47:26,530 --> 00:47:32,260
same flawed experimental data has been

1100
00:47:28,510 --> 00:47:35,140
used small sample sizes tumor prone rats

1101
00:47:32,260 --> 00:47:37,390
and again an embargo was placed on

1102
00:47:35,139 --> 00:47:40,539
journalists the name of the journal was

1103
00:47:37,389 --> 00:47:42,549
withheld until publication séralini told

1104
00:47:40,539 --> 00:47:45,309
website retraction watch that this was

1105
00:47:42,550 --> 00:47:48,070
to prevent GMO and roundup maker

1106
00:47:45,309 --> 00:47:51,070
Monsanto from pressuring editors to

1107
00:47:48,070 --> 00:47:53,800
revoke publication another questionable

1108
00:47:51,070 --> 00:47:55,480
point potential competing interests the

1109
00:47:53,800 --> 00:47:58,690
perhaps should have been made public by

1110
00:47:55,480 --> 00:48:01,179
seralini seralini himself has released a

1111
00:47:58,690 --> 00:48:03,309
book and a film about his research it's

1112

00:48:01,179 --> 00:48:05,019
also worth disclosing that seralini as

1113
00:48:03,309 --> 00:48:07,989
well as being a professor of molecular

1114
00:48:05,019 --> 00:48:10,090
biology at the University of Cain is the

1115
00:48:07,989 --> 00:48:12,189
chairman of the Scientific Council for

1116
00:48:10,090 --> 00:48:14,260
the French Committee of independent

1117
00:48:12,190 --> 00:48:16,360
research and information on genetic

1118
00:48:14,260 --> 00:48:18,670
engineering a group who claimed to

1119
00:48:16,360 --> 00:48:21,070
present independent investigations into

1120
00:48:18,670 --> 00:48:22,510
the safety of biotechnology but only

1121
00:48:21,070 --> 00:48:26,110
seemed to prevent overwhelmingly

1122
00:48:22,510 --> 00:48:28,150
negative conclusions it's rather amazing

1123
00:48:26,110 --> 00:48:30,820
that one poorly designed and very likely

1124
00:48:28,150 --> 00:48:33,220
biased paper published twice has gained

1125
00:48:30,820 --> 00:48:34,750
so much attention while I've

1126
00:48:33,219 --> 00:48:36,669

acknowledged the harm that the séralini

1127

00:48:34,750 --> 00:48:38,949

papers have caused I'd also like to

1128

00:48:36,670 --> 00:48:40,570

mention a couple of positives here the

1129

00:48:38,949 --> 00:48:42,669

séralini affair highlights the

1130

00:48:40,570 --> 00:48:45,030

mechanisms by which poor science can be

1131

00:48:42,670 --> 00:48:47,440

conducted published and publicized it

1132

00:48:45,030 --> 00:48:49,240

encourages those who are interested to

1133

00:48:47,440 --> 00:48:51,639

learn about how critical analysis can be

1134

00:48:49,239 --> 00:48:53,289

applied to studies and it can also serve

1135

00:48:51,639 --> 00:48:54,369

as a reminder of what New York Times

1136

00:48:53,289 --> 00:48:57,269

writer Andrew

1137

00:48:54,369 --> 00:48:59,769

connor has dubbed single study syndrome

1138

00:48:57,269 --> 00:49:01,420

single study syndrome is something we

1139

00:48:59,769 --> 00:49:03,250

should all be aware of when reading news

1140

00:49:01,420 --> 00:49:05,559

about developments in scientific

1141
00:49:03,250 --> 00:49:07,570
knowledge it's a mechanism which can

1142
00:49:05,559 --> 00:49:10,179
trigger confirmation bias and is

1143
00:49:07,570 --> 00:49:12,519
strongly related a new study is released

1144
00:49:10,179 --> 00:49:14,409
which implants a belief suspicion or

1145
00:49:12,519 --> 00:49:15,880
assumption in which people carry my

1146
00:49:14,409 --> 00:49:17,769
study is perceived to have more weight

1147
00:49:15,880 --> 00:49:19,180
than a single study should and its

1148
00:49:17,769 --> 00:49:22,329
findings to trump the body of evidence

1149
00:49:19,179 --> 00:49:23,919
which came before it unfortunately

1150
00:49:22,329 --> 00:49:25,679
journalists don't always present new

1151
00:49:23,920 --> 00:49:27,700
studies within a realistic perspective

1152
00:49:25,679 --> 00:49:30,519
particularly when they sound somewhat

1153
00:49:27,699 --> 00:49:32,169
sensationalistic until a study is

1154
00:49:30,519 --> 00:49:34,659
subjected to post peer review and

1155
00:49:32,170 --> 00:49:36,340
replicated adequately a single study

1156
00:49:34,659 --> 00:49:37,809
shouldn't be cherry picked and given

1157
00:49:36,340 --> 00:49:39,940
more credence than all knowledge which

1158
00:49:37,809 --> 00:49:42,340
came before it even if a backs up

1159
00:49:39,940 --> 00:49:44,590
positions which we in our biased human

1160
00:49:42,340 --> 00:49:46,829
states are open to holding or already

1161
00:49:44,590 --> 00:49:46,829
hold

1162
00:49:50,309 --> 00:49:52,369
you

1163
00:49:56,050 --> 00:50:01,370
but gasps yours is an award-winning

1164
00:49:58,519 --> 00:50:04,369
weekly science show in French hosted by

1165
00:50:01,369 --> 00:50:06,650
a bunch of crazy enthusiasts we are

1166
00:50:04,369 --> 00:50:09,019
convinced that the greatest ideas in

1167
00:50:06,650 --> 00:50:11,240
science are quite easy to grasp as long

1168
00:50:09,019 --> 00:50:13,820
as they are presented with passion using

1169

00:50:11,239 --> 00:50:15,979
a vocabulary common to all curious minds

1170
00:50:13,820 --> 00:50:18,769
whatever their academic background if

1171
00:50:15,980 --> 00:50:21,769
any you don't understand French yet oh

1172
00:50:18,769 --> 00:50:23,659
it's never too late all our stories have

1173
00:50:21,769 --> 00:50:25,400
a written transcript on the website and

1174
00:50:23,659 --> 00:50:27,559
people from all around the world are

1175
00:50:25,400 --> 00:50:30,650
using our content to learn Maria's

1176
00:50:27,559 --> 00:50:33,110
language our topics range from 0 to

1177
00:50:30,650 --> 00:50:35,450
infinity from evolution to artificial

1178
00:50:33,110 --> 00:50:38,090
life from electromagnetism to the

1179
00:50:35,449 --> 00:50:41,299
science of introverts we just love

1180
00:50:38,090 --> 00:50:44,120
mathematics science critical thinking so

1181
00:50:41,300 --> 00:50:45,800
do you want to join you can subscribe to

1182
00:50:44,119 --> 00:50:48,500
the podcast for free from our website

1183
00:50:45,800 --> 00:50:51,170

podcast science starts FM that's in one

1184

00:50:48,500 --> 00:50:53,840

word you also find us on itunes and

1185

00:50:51,170 --> 00:50:55,519

soundcloud see you soon hopefully at

1186

00:50:53,840 --> 00:50:58,059

luego year at the other words or

1187

00:50:55,519 --> 00:50:58,059

pedestrians

1188

00:51:11,139 --> 00:51:16,460

thank you for listening to the skeptic

1189

00:51:13,579 --> 00:51:18,170

zone and thank you for your patience for

1190

00:51:16,460 --> 00:51:19,610

the introduction where I waffled on a

1191

00:51:18,170 --> 00:51:21,680

lot about the upcoming Australian

1192

00:51:19,610 --> 00:51:23,599

skeptics National Convention my personal

1193

00:51:21,679 --> 00:51:25,940

documentary the vaccination chronicles

1194

00:51:23,599 --> 00:51:29,539

and whatever I waffled on about but

1195

00:51:25,940 --> 00:51:31,389

he'll it's my show so there you go and

1196

00:51:29,539 --> 00:51:33,710

for those people who keep writing to me

1197

00:51:31,389 --> 00:51:35,809

asking me to do this I'm going to do it

1198
00:51:33,710 --> 00:51:39,260
again this time I have a ten sided dice

1199
00:51:35,809 --> 00:51:41,590
everybody ten sided put your psychic

1200
00:51:39,260 --> 00:51:46,310
powers to the test think of a number now

1201
00:51:41,590 --> 00:51:48,800
from one to ten one two three four five

1202
00:51:46,309 --> 00:51:50,239
six seven eight nine or ten use your

1203
00:51:48,800 --> 00:51:51,860
psychic powers predict the future I'm

1204
00:51:50,239 --> 00:51:59,149
about to roll the dice here we go where

1205
00:51:51,860 --> 00:52:06,849
can I do it over here ten you want to

1206
00:51:59,150 --> 00:52:10,849
try for two think again here we go six

1207
00:52:06,849 --> 00:52:14,449
if anybody got ten then six buy yourself

1208
00:52:10,849 --> 00:52:16,099
an ice cream while you're buying

1209
00:52:14,449 --> 00:52:18,739
yourself an ice cream i'm going to start

1210
00:52:16,099 --> 00:52:20,269
packing my bags for my trip to

1211
00:52:18,739 --> 00:52:21,949
California where I'm spending a little

1212
00:52:20,269 --> 00:52:23,509
bit of time before flying out to Las

1213
00:52:21,949 --> 00:52:25,549
Vegas to see all my friends at the

1214
00:52:23,510 --> 00:52:30,110
amazing meeting if you're not coming to

1215
00:52:25,550 --> 00:52:31,730
the amazing meeting oh and I hope I'll

1216
00:52:30,110 --> 00:52:33,230
take a leaf out of maynards book while

1217
00:52:31,730 --> 00:52:35,570
I'm there and I hope I can get lots of

1218
00:52:33,230 --> 00:52:37,940
wonderful interviews for your enjoyment

1219
00:52:35,570 --> 00:52:41,539
over the coming months on the skeptic

1220
00:52:37,940 --> 00:52:43,760
zone and well it's not very long now

1221
00:52:41,539 --> 00:52:47,110
only a couple of weeks or so before the

1222
00:52:43,760 --> 00:52:50,270
big episode number three hundred and

1223
00:52:47,110 --> 00:52:52,099
before I go thank you to all those

1224
00:52:50,269 --> 00:52:54,679
people who do chip in to the skeptic

1225
00:52:52,099 --> 00:52:57,199
zone via micro payments on paypal at

1226

00:52:54,679 --> 00:53:02,960
skeptic zone TV without your support

1227
00:52:57,199 --> 00:53:05,419
over the last six years good grief can

1228
00:53:02,960 --> 00:53:08,179
that be right one two eight nine ten

1229
00:53:05,420 --> 00:53:11,500
eleven 2006 years the skeptic zone

1230
00:53:08,179 --> 00:53:14,119
simply would not have lasted this long I

1231
00:53:11,500 --> 00:53:14,449
better get all nostalgic in a couple of

1232
00:53:14,119 --> 00:53:16,039
weeks

1233
00:53:14,449 --> 00:53:18,259
for episode three hundred I'll do that

1234
00:53:16,039 --> 00:53:23,480
with Stefan Soyka the part-time co-host

1235
00:53:18,260 --> 00:53:26,300
ah ok you can all go to bed now this is

1236
00:53:23,480 --> 00:53:32,420
Richard Saunders signing off from Sydney

1237
00:53:26,300 --> 00:53:37,130
Australia you've been listening to the

1238
00:53:32,420 --> 00:53:40,940
skeptic zone visit her website at www

1239
00:53:37,130 --> 00:53:44,650
skeptics on TV for comments contacts and

1240
00:53:40,940 --> 00:53:44,650

extra video reports

1241

00:53:47,480 --> 00:53:49,510

Oh