

1
00:00:00,000 --> 00:00:05,339
an interesting thing happened to me the

2
00:00:01,979 --> 00:00:09,000
other day after a session in the TV

3
00:00:05,339 --> 00:00:10,710
studio when I was having a quick word to

4
00:00:09,000 --> 00:00:13,769
the audience as they were making their

5
00:00:10,710 --> 00:00:17,778
way out thanking them for coming along

6
00:00:13,769 --> 00:00:20,160
to see the the show being made and

7
00:00:17,778 --> 00:00:22,768
somebody was wondering why I was so

8
00:00:20,160 --> 00:00:25,560
skeptical especially since they've gone

9
00:00:22,768 --> 00:00:27,778
to see psychics live psychics live on

10
00:00:25,559 --> 00:00:30,089
stage at various places and have been

11
00:00:27,778 --> 00:00:34,738
convinced I thought for a moment night

12
00:00:30,089 --> 00:00:37,710
put this to them which it seemed to seem

13
00:00:34,738 --> 00:00:40,459
to work it seemed to be a good analogy a

14
00:00:37,710 --> 00:00:44,070
good argument a good case to put forward

15
00:00:40,460 --> 00:00:46,910
so I'll tell you now okay so you think

16
00:00:44,070 --> 00:00:51,509
it's a good case a good thing to say and

17
00:00:46,909 --> 00:00:55,229
possibly you could use this yourself so

18
00:00:51,509 --> 00:00:57,718
imagine I said to this guy imagine you

19
00:00:55,229 --> 00:00:59,628
went to see a world-famous magician on

20
00:00:57,719 --> 00:01:03,270
stage instead of a psychic doing a

21
00:00:59,628 --> 00:01:05,609
reading in public and the magician made

22
00:01:03,270 --> 00:01:08,760
people float through the air rabbits

23
00:01:05,609 --> 00:01:11,099
appeared out of hats the chosen card

24
00:01:08,760 --> 00:01:13,880
that you picked from a deckhand him

25
00:01:11,099 --> 00:01:16,289
under your seat was magically

26
00:01:13,879 --> 00:01:20,489
transported to the stage all this sort

27
00:01:16,290 --> 00:01:24,180
of thing typical classical conjuring

28
00:01:20,489 --> 00:01:26,759
tricks I said if you're just somebody

29

00:01:24,180 --> 00:01:29,009
off the street you wouldn't have a clue

30
00:01:26,759 --> 00:01:32,188
how those tricks worked you really

31
00:01:29,009 --> 00:01:33,900
wouldn't they would look like real magic

32
00:01:32,188 --> 00:01:37,169
and you could spend the rest of your

33
00:01:33,900 --> 00:01:41,070
life wondering how these tricks worked

34
00:01:37,170 --> 00:01:46,079
and you wouldn't figure it out does that

35
00:01:41,069 --> 00:01:49,859
mean that the magicians are really doing

36
00:01:46,078 --> 00:01:51,508
magic as in are they really bending or

37
00:01:49,859 --> 00:01:54,569
breaking the laws of physics do the

38
00:01:51,509 --> 00:01:58,140
rabbits really appear from nowhere or I

39
00:01:54,569 --> 00:02:02,868
said has the magician studied and

40
00:01:58,140 --> 00:02:05,670
practiced for years bought books or DVDs

41
00:02:02,868 --> 00:02:08,969
gone to magic clubs learnt from other

42
00:02:05,670 --> 00:02:12,090
magicians skills and techniques designed

43
00:02:08,969 --> 00:02:13,318

to fool you and we both know full well

44

00:02:12,090 --> 00:02:14,670
that the rabbit

45

00:02:13,318 --> 00:02:17,429
really doesn't appear out of nowhere

46

00:02:14,669 --> 00:02:20,608
that it's very cleverly hidden somewhere

47

00:02:17,430 --> 00:02:22,680
until it appears and this guy said yes

48

00:02:20,609 --> 00:02:28,109
yes that's that's absolutely right of

49

00:02:22,680 --> 00:02:30,569
course and I said but then tell me how

50

00:02:28,109 --> 00:02:33,989
do the tricks work how do how does the

51

00:02:30,568 --> 00:02:38,518
magician make all these things happen he

52

00:02:33,989 --> 00:02:42,209
said he didn't know is it okay imagine

53

00:02:38,519 --> 00:02:44,579
you're another magician in the same Club

54

00:02:42,209 --> 00:02:47,968
one of the group of magicians and you go

55

00:02:44,579 --> 00:02:49,980
along to see exactly the same act but

56

00:02:47,968 --> 00:02:53,668
you know you know how the tricks work

57

00:02:49,979 --> 00:02:56,340
you know that in this moment in the

58
00:02:53,669 --> 00:02:58,650
performance while the magician is doing

59
00:02:56,340 --> 00:03:01,319
one thing he's really doing another you

60
00:02:58,650 --> 00:03:03,930
know where the rabbit maybe and you know

61
00:03:01,318 --> 00:03:07,679
how the card gets from the seat to the

62
00:03:03,930 --> 00:03:10,650
stage and so on I said they knew that

63
00:03:07,680 --> 00:03:11,939
you'd appreciate or you would understand

64
00:03:10,650 --> 00:03:14,129
the performance from a completely

65
00:03:11,938 --> 00:03:17,068
different level you'd be looking out for

66
00:03:14,128 --> 00:03:21,348
when the tricks come along said yes

67
00:03:17,068 --> 00:03:23,848
that's right and I said well for me

68
00:03:21,348 --> 00:03:27,089
seeing a psychic doing a psychic reading

69
00:03:23,848 --> 00:03:29,938
live on stage to an audience it's sort

70
00:03:27,090 --> 00:03:32,459
of like that it's sort of like that

71
00:03:29,938 --> 00:03:34,408
because I've learned the techniques I've

72
00:03:32,459 --> 00:03:37,560
learnt this that this the tricks if you

73
00:03:34,408 --> 00:03:39,448
will I know what to look out for and I

74
00:03:37,560 --> 00:03:42,989
know what's happening when it's

75
00:03:39,449 --> 00:03:44,669
happening it's not your fault you don't

76
00:03:42,989 --> 00:03:47,840
know these tricks why the hell would you

77
00:03:44,669 --> 00:03:51,719
this is a really weird skill set to have

78
00:03:47,840 --> 00:03:53,759
so I said to him I'm not convinced by

79
00:03:51,719 --> 00:03:57,989
these things because when I see them I

80
00:03:53,758 --> 00:04:02,008
can see what's really going on and you

81
00:03:57,989 --> 00:04:05,430
know what to make a believer really stop

82
00:04:02,008 --> 00:04:11,068
and think using that analogy I thought

83
00:04:05,430 --> 00:04:14,669
was quite a victory and it seemed to

84
00:04:11,068 --> 00:04:18,029
work very well on this occasion use it

85
00:04:14,669 --> 00:04:22,939
if you want to it worked for me the

86

00:04:18,029 --> 00:04:26,209
skeptics our own episode number 143

87
00:04:22,939 --> 00:04:26,209
starts now

88
00:04:30,629 --> 00:04:38,399
welcome to the skeptic zone the podcast

89
00:04:33,790 --> 00:04:38,400
from Australia for science and reason

90
00:04:48,029 --> 00:04:55,029
it's the 15th of July 2011 the day I fly

91
00:04:51,939 --> 00:04:56,589
out to Tam Las Vegas very excited about

92
00:04:55,029 --> 00:05:00,789
that but I'm glad I've got the show up

93
00:04:56,589 --> 00:05:03,579
online before I leave the house coming

94
00:05:00,790 --> 00:05:06,730
up on this week's episode may not spooky

95
00:05:03,579 --> 00:05:09,729
action this is an interesting one main

96
00:05:06,730 --> 00:05:11,939
our talks to Nicolas de Patricio from

97
00:05:09,730 --> 00:05:14,800
the University of California at Irvine

98
00:05:11,939 --> 00:05:18,040
about a paper he's co-authored about the

99
00:05:14,800 --> 00:05:23,439
body's natural marijuana like chemicals

100
00:05:18,040 --> 00:05:26,580

that make fatty foods hard to resist mmm

101

00:05:23,439 --> 00:05:29,139

that's why I fatty foods a hard resist a

102

00:05:26,579 --> 00:05:31,629

really interesting research that has

103

00:05:29,139 --> 00:05:33,519

been carried on I wonder if they had to

104

00:05:31,629 --> 00:05:35,978

eat a lot of fatty foods to do this

105

00:05:33,519 --> 00:05:39,279

research I wonder if they gained like 20

106

00:05:35,978 --> 00:05:41,168

kilos each it's sort of research today I

107

00:05:39,279 --> 00:05:44,469

think we all can carry out from time to

108

00:05:41,168 --> 00:05:46,240

time very very interesting stuff that's

109

00:05:44,470 --> 00:05:48,270

coming up at the top of the show and

110

00:05:46,240 --> 00:05:51,460

after that we've got an interesting clip

111

00:05:48,269 --> 00:05:52,899

twenty years ago not Australian

112

00:05:51,459 --> 00:05:55,029

television there was a show called

113

00:05:52,899 --> 00:05:57,699

couchman which was a sort of like a

114

00:05:55,029 --> 00:06:01,629

Donahue type chat sort of audience show

115
00:05:57,699 --> 00:06:05,579
and one day there a topic for discussion

116
00:06:01,629 --> 00:06:07,899
was astrology it's so interesting I was

117
00:06:05,579 --> 00:06:10,509
looking through my archives the other

118
00:06:07,899 --> 00:06:12,909
day and I found this little clip from 20

119
00:06:10,509 --> 00:06:15,129
years ago he what the astrologers have

120
00:06:12,910 --> 00:06:17,830
to say to defend astrology and here the

121
00:06:15,129 --> 00:06:21,728
skeptics chiming in as well skeptics in

122
00:06:17,829 --> 00:06:24,609
the audience and it's i love it when

123
00:06:21,728 --> 00:06:26,379
would give these people enough rope so

124
00:06:24,610 --> 00:06:30,038
to speak let them go let them try to

125
00:06:26,379 --> 00:06:31,978
explain their worldview to us all coming

126
00:06:30,038 --> 00:06:35,168
up yeah about the middle of the show

127
00:06:31,978 --> 00:06:38,288
then to round off the show may nods back

128
00:06:35,168 --> 00:06:40,418
again with me in tow this time as we

129
00:06:38,288 --> 00:06:42,519
both go to the supernova science fiction

130
00:06:40,418 --> 00:06:45,819
and fantasy convention here in Sydney on

131
00:06:42,519 --> 00:06:47,769
the lookout for skeptics are there any

132
00:06:45,819 --> 00:06:49,269
skeptics wondering around these

133
00:06:47,769 --> 00:06:50,589
conventions well the answer is of course

134
00:06:49,269 --> 00:06:51,509
yes otherwise we wouldn't have the

135
00:06:50,589 --> 00:06:54,299
segment

136
00:06:51,509 --> 00:06:55,800
but it was a lot of fun as always that's

137
00:06:54,300 --> 00:06:58,319
always a lot of fun running around with

138
00:06:55,800 --> 00:07:00,750
Maynard you have no idea how the things

139
00:06:58,319 --> 00:07:03,180
that guy gets up to I could only just

140
00:07:00,750 --> 00:07:05,370
barely keep up but we did run into some

141
00:07:03,180 --> 00:07:07,829
skeptics so that's coming up right at

142
00:07:05,370 --> 00:07:11,540
the end of the show but for now I'm

143

00:07:07,829 --> 00:07:16,139
gonna run downstairs and you know what I

144
00:07:11,540 --> 00:07:21,480
drank all the vodka 12 year old scotch

145
00:07:16,139 --> 00:07:24,719
is gone coffee ran out ah tap water oh

146
00:07:21,480 --> 00:07:30,379
yes I'm going to enjoy some tap water

147
00:07:24,720 --> 00:07:30,380
and i'll let you enjoy the skeptic zone

148
00:07:43,750 --> 00:07:50,670
here's my not spooky action at a

149
00:07:48,100 --> 00:07:50,670
distance

150
00:07:51,728 --> 00:07:56,000
hey people at home you're feeling bit

151
00:07:54,228 --> 00:07:58,459
hungry well we've got someone who might

152
00:07:56,000 --> 00:08:00,379
know why you're feeling hungry and why

153
00:07:58,459 --> 00:08:02,918
you really like that fatty food on the

154
00:08:00,379 --> 00:08:05,000
phone I've got Nicolas de Patricio PhD

155
00:08:02,918 --> 00:08:06,948
post-doctorate fellow Department of

156
00:08:05,000 --> 00:08:08,569
Pharmacology my favorite always my

157
00:08:06,949 --> 00:08:11,150

favorite department School of Medicine

158

00:08:08,569 --> 00:08:12,800

University of California Irvine is that

159

00:08:11,149 --> 00:08:14,598

have I got your title correct Nicholas

160

00:08:12,800 --> 00:08:16,579

you've got it right you've been involved

161

00:08:14,598 --> 00:08:18,949

in a study that might open the door to

162

00:08:16,579 --> 00:08:20,930

finding out why we love our fatty food

163

00:08:18,949 --> 00:08:22,788

we all know we do what is your study

164

00:08:20,930 --> 00:08:26,120

discovered what we've discovered is that

165

00:08:22,788 --> 00:08:28,519

when fat touch the tongue that specific

166

00:08:26,120 --> 00:08:30,288

not carbohydrates and not protein when

167

00:08:28,519 --> 00:08:32,870

the fats touch the tongue it elicits

168

00:08:30,288 --> 00:08:34,490

this response and releases these

169

00:08:32,870 --> 00:08:37,310

molecules called the endocannabinoids

170

00:08:34,490 --> 00:08:39,950

now the endocannabinoids are our natural

171

00:08:37,309 --> 00:08:41,299

marijuana light chemicals so of course

172
00:08:39,950 --> 00:08:42,649
the receptors aren't there to get high

173
00:08:41,299 --> 00:08:44,899
from they're there to mediate some

174
00:08:42,649 --> 00:08:46,669
normal physiological function when the

175
00:08:44,899 --> 00:08:49,578
fat touches the tongue it releases these

176
00:08:46,669 --> 00:08:52,610
natural cannabinoids from the GI tract

177
00:08:49,578 --> 00:08:55,578
that bind the cannabinoid receptors in

178
00:08:52,610 --> 00:08:58,278
the small intestine and actually enhance

179
00:08:55,578 --> 00:09:00,889
your food intake so it promotes a

180
00:08:58,278 --> 00:09:02,958
positive feedback which will push you to

181
00:09:00,889 --> 00:09:04,490
consume more foods it's going to

182
00:09:02,958 --> 00:09:06,349
receptors in the stomach all the thought

183
00:09:04,490 --> 00:09:08,360
it would go to some in the brain and

184
00:09:06,350 --> 00:09:10,670
fired off there well we're not saying

185
00:09:08,360 --> 00:09:13,820
that the brain does not serve a

186
00:09:10,669 --> 00:09:15,979
component in reward evaluation but what

187
00:09:13,820 --> 00:09:19,100
we've identified is this signal in the

188
00:09:15,980 --> 00:09:21,379
gut is critical for maintaining fat

189
00:09:19,100 --> 00:09:23,528
intake what we do is if we block that

190
00:09:21,379 --> 00:09:26,539
signal in a rodent model so

191
00:09:23,528 --> 00:09:28,820
pharmacologically going in bathing the

192
00:09:26,539 --> 00:09:30,949
intestine with an antagonist which is a

193
00:09:28,820 --> 00:09:33,709
fancy term for these little molecules

194
00:09:30,950 --> 00:09:36,230
that clog receptors then when we give

195
00:09:33,708 --> 00:09:37,909
the rat the fat to key as we discovered

196
00:09:36,230 --> 00:09:39,829
already the endocannabinoids are being

197
00:09:37,909 --> 00:09:41,990
produced in the gut however they have

198
00:09:39,828 --> 00:09:43,849
nowhere to bind because the receptors

199
00:09:41,990 --> 00:09:45,589
are blocked and sure enough what happens

200

00:09:43,850 --> 00:09:47,420
as soon as you do that the animals stop

201
00:09:45,589 --> 00:09:49,850
eating the fat that's how we were able

202
00:09:47,419 --> 00:09:52,069
to identify physiologically that these

203
00:09:49,850 --> 00:09:53,389
these chemicals are critical because if

204
00:09:52,070 --> 00:09:56,300
you block their actions if you

205
00:09:53,389 --> 00:09:58,789
completely block food intake when will

206
00:09:56,299 --> 00:10:00,799
you be able to do research to on humans

207
00:09:58,789 --> 00:10:02,870
we're now providing the foundation you

208
00:10:00,799 --> 00:10:04,818
know to test to test implements we're

209
00:10:02,870 --> 00:10:06,828
focusing on rodent models

210
00:10:04,818 --> 00:10:08,719
we're trying to Mallory I really nailed

211
00:10:06,828 --> 00:10:10,578
down the foundation nailed down the

212
00:10:08,720 --> 00:10:12,709
biochemical processes that are involved

213
00:10:10,578 --> 00:10:14,688
in that in order to do these sort of

214
00:10:12,708 --> 00:10:17,778

test you at ease of living model and

215

00:10:14,688 --> 00:10:19,428

then the next step would be what would

216

00:10:17,778 --> 00:10:21,048

be testing in units what kind of sample

217

00:10:19,428 --> 00:10:22,759

size would you consider one to be

218

00:10:21,048 --> 00:10:24,739

significant for this study I'm not sure

219

00:10:22,759 --> 00:10:26,568

we haven't sat down and designed the

220

00:10:24,739 --> 00:10:28,609

experiments yet so it's a long process

221

00:10:26,568 --> 00:10:30,409

it takes a lot of time when you can make

222

00:10:28,609 --> 00:10:33,079

sure that everything is correct that's

223

00:10:30,409 --> 00:10:35,298

not my focus right now my focus is on

224

00:10:33,078 --> 00:10:38,028

making the discovery kind of creating

225

00:10:35,298 --> 00:10:40,129

that knowledge and then from there we go

226

00:10:38,028 --> 00:10:42,109

to the therapeutics which would then be

227

00:10:40,129 --> 00:10:44,569

tested of course in humans and we're not

228

00:10:42,109 --> 00:10:46,759

there yet now Nicholas this is change

229
00:10:44,568 --> 00:10:48,708
existing knowledge about why we like

230
00:10:46,759 --> 00:10:50,869
fatty foods have you overturned a

231
00:10:48,708 --> 00:10:52,608
paradigm and people go wow you guys

232
00:10:50,869 --> 00:10:54,949
youtube changed everything we thought

233
00:10:52,609 --> 00:10:57,859
about eating cannabinoids have been

234
00:10:54,948 --> 00:11:00,139
known for maybe a decade or so to really

235
00:10:57,859 --> 00:11:01,429
be you know modulating food intake been

236
00:11:00,139 --> 00:11:03,139
known for longer than that of course

237
00:11:01,428 --> 00:11:05,509
thousands of years people have talked

238
00:11:03,139 --> 00:11:07,938
about cannabis as increasing food intake

239
00:11:05,509 --> 00:11:10,938
what is new about this is that we've

240
00:11:07,938 --> 00:11:13,238
identified a critical area outside of

241
00:11:10,938 --> 00:11:14,978
the brain as you mentioned earlier I'm

242
00:11:13,239 --> 00:11:17,119
previous work has shown that

243
00:11:14,979 --> 00:11:19,699
endocannabinoid activity within the

244
00:11:17,119 --> 00:11:21,589
brain in particular areas of reward

245
00:11:19,698 --> 00:11:24,019
centers and though cannabinoids there

246
00:11:21,589 --> 00:11:25,970
increase food intake the

247
00:11:24,019 --> 00:11:28,100
endocannabinoids are known to modulate

248
00:11:25,970 --> 00:11:30,048
taste properties this is the first

249
00:11:28,100 --> 00:11:32,658
series of studies that actually show a

250
00:11:30,048 --> 00:11:34,399
specific organ in the periphery that

251
00:11:32,658 --> 00:11:36,470
could be a potential therapeutic target

252
00:11:34,399 --> 00:11:37,578
for actually treating creating obesity

253
00:11:36,470 --> 00:11:39,979
which of course is going to lead the

254
00:11:37,578 --> 00:11:41,568
cardiovascular disease and diabetes yes

255
00:11:39,979 --> 00:11:43,399
I mentioned have people like Pfizer

256
00:11:41,568 --> 00:11:45,618
knocking on your door pretty fast to

257

00:11:43,399 --> 00:11:47,328
manufacture something once this got to

258
00:11:45,619 --> 00:11:49,158
once you definitely had the proof there

259
00:11:47,328 --> 00:11:51,408
in humans how many years away do you

260
00:11:49,158 --> 00:11:54,198
think the proof it might be the process

261
00:11:51,408 --> 00:11:56,658
takes a while from bench to bedside I

262
00:11:54,198 --> 00:11:58,428
mean it's pure speculation usually it

263
00:11:56,658 --> 00:12:00,558
can take between seven and ten years but

264
00:11:58,428 --> 00:12:03,019
maybe five to ten years was on a faster

265
00:12:00,558 --> 00:12:04,639
track this has already been tried before

266
00:12:03,019 --> 00:12:06,828
so a lot of people have heard of a

267
00:12:04,639 --> 00:12:09,288
comple which was which was approved in

268
00:12:06,828 --> 00:12:11,328
Europe for treating for treating obesity

269
00:12:09,288 --> 00:12:13,788
and that's exactly what that knowledge

270
00:12:11,328 --> 00:12:15,798
was a CD one can have annoyed receptor

271
00:12:13,788 --> 00:12:18,078

antagonists so it blocked the body's

272

00:12:15,798 --> 00:12:18,590

natural ending cannabinoids in America

273

00:12:18,078 --> 00:12:21,259

it was

274

00:12:18,590 --> 00:12:22,820

to stage three i b'lieve clinical trials

275

00:12:21,259 --> 00:12:24,649

it was almost ready to go on the market

276

00:12:22,820 --> 00:12:28,160

and what unfortunately happened with

277

00:12:24,649 --> 00:12:29,870

this molecule was that in a larger

278

00:12:28,159 --> 00:12:31,909

population so in Europe when they're

279

00:12:29,870 --> 00:12:33,470

actually prescribing this out into into

280

00:12:31,909 --> 00:12:37,009

the general population you would see

281

00:12:33,470 --> 00:12:39,290

increased risks for mood changes

282

00:12:37,009 --> 00:12:41,480

possible depression the idea being if

283

00:12:39,289 --> 00:12:44,689

you may be predisposed to a depression

284

00:12:41,480 --> 00:12:47,090

or even suicidal ideations you may this

285

00:12:44,690 --> 00:12:48,890

may push you over the edge so messing

286

00:12:47,090 --> 00:12:50,629

with mood we also know that

287

00:12:48,889 --> 00:12:52,340

endocannabinoids don't only regulate

288

00:12:50,629 --> 00:12:54,559

through to take they regulate mood and

289

00:12:52,340 --> 00:12:56,720

how they regulate mood is within the

290

00:12:54,559 --> 00:12:59,149

brain that's why this new series of

291

00:12:56,720 --> 00:13:01,639

studies are very important because you

292

00:12:59,149 --> 00:13:03,319

can now design molecules that block endo

293

00:13:01,639 --> 00:13:05,210

connect block the cannabinoid receptors

294

00:13:03,320 --> 00:13:07,490

but they don't need to cross into the

295

00:13:05,210 --> 00:13:10,160

brain we're able to block that without

296

00:13:07,490 --> 00:13:12,379

the drugs crossing into the blame this

297

00:13:10,159 --> 00:13:14,149

is mean you've also nicholas got an even

298

00:13:12,379 --> 00:13:17,539

stronger connection now between the

299

00:13:14,149 --> 00:13:20,090

bucket bong and the munchies I'm not

300
00:13:17,539 --> 00:13:23,360
sure what the first term um you said

301
00:13:20,090 --> 00:13:25,940
refers to but the munchies absolutely I

302
00:13:23,360 --> 00:13:27,980
believe that this is one of the targets

303
00:13:25,940 --> 00:13:29,780
of cannabis like I'm not saying it's the

304
00:13:27,980 --> 00:13:31,909
only target remember these receptors are

305
00:13:29,779 --> 00:13:33,829
all throughout the body someone invests

306
00:13:31,909 --> 00:13:35,360
cannabis it gives this munchy effect

307
00:13:33,830 --> 00:13:36,830
kind of pushes you to eat these foods

308
00:13:35,360 --> 00:13:38,750
maybe make them taste a little bit

309
00:13:36,830 --> 00:13:40,790
better of course they're binding the

310
00:13:38,750 --> 00:13:42,919
system and the gut but remember the

311
00:13:40,789 --> 00:13:45,679
psychoactive ingredient THC in cannabis

312
00:13:42,919 --> 00:13:47,659
also crosses the blood-brain barrier so

313
00:13:45,679 --> 00:13:50,120
they also block receptors within the

314

00:13:47,659 --> 00:13:51,919
brain so cannabis is likely not only

315
00:13:50,120 --> 00:13:53,840
working on this good system in the gut

316
00:13:51,919 --> 00:13:56,029
to promote this positive feedback loop

317
00:13:53,840 --> 00:13:57,620
but it's also acting on central circuits

318
00:13:56,029 --> 00:14:00,169
as well we're talking with that nicholas

319
00:13:57,620 --> 00:14:02,000
de patrizia PhD post doctoral fellow at

320
00:14:00,169 --> 00:14:04,849
the department of pharmacology now

321
00:14:02,000 --> 00:14:06,139
Nicholas what other areas of science

322
00:14:04,850 --> 00:14:07,550
would you like to be someone doing a bit

323
00:14:06,139 --> 00:14:09,559
of work in at the moment because you

324
00:14:07,549 --> 00:14:11,359
obviously in this dietary area you're

325
00:14:09,559 --> 00:14:13,039
very obsessed with that is there sort of

326
00:14:11,360 --> 00:14:14,930
a related discipline you'd like to see

327
00:14:13,039 --> 00:14:16,579
someone do work and that could you know

328
00:14:14,929 --> 00:14:18,409

complement what you're doing well I'm

329

00:14:16,580 --> 00:14:20,720

really interested in trying to combine

330

00:14:18,409 --> 00:14:22,939

new technologies with all this I'm

331

00:14:20,720 --> 00:14:24,920

really interested in be certain

332

00:14:22,940 --> 00:14:26,930

technologies that can quantify and tell

333

00:14:24,919 --> 00:14:29,629

you what lipids are there and the

334

00:14:26,929 --> 00:14:32,120

imagine of the amount of them I really

335

00:14:29,629 --> 00:14:34,939

see this technology advancing

336

00:14:32,120 --> 00:14:37,399

over the next you know 10 20 years I'd

337

00:14:34,940 --> 00:14:40,040

like to start to really begin to look

338

00:14:37,399 --> 00:14:42,289

throughout the brain and sort of map the

339

00:14:40,039 --> 00:14:45,799

brain and see how can endocannabinoids

340

00:14:42,289 --> 00:14:47,829

in really small sub nuclei in small

341

00:14:45,799 --> 00:14:50,209

areas of the brain how are they possibly

342

00:14:47,830 --> 00:14:52,460

regulating food intake in reward I

343
00:14:50,210 --> 00:14:54,830
really wanted to use these new

344
00:14:52,460 --> 00:14:56,870
technologies and Nicholas's has changed

345
00:14:54,830 --> 00:14:58,490
the way you eat because you even know

346
00:14:56,870 --> 00:15:00,110
more exactly what's going on inside your

347
00:14:58,490 --> 00:15:01,519
body when you get stuck into that ice

348
00:15:00,110 --> 00:15:03,500
cream there is it changed the way you

349
00:15:01,519 --> 00:15:06,679
eat well that's a good question myself

350
00:15:03,500 --> 00:15:08,839
has it changed it i'm not a huge real

351
00:15:06,679 --> 00:15:12,620
fatty eager to be honest with ya your

352
00:15:08,839 --> 00:15:14,839
assault guy a savory guy to be honest I

353
00:15:12,620 --> 00:15:17,028
prefer the fats and salts more than the

354
00:15:14,839 --> 00:15:18,770
sugars now Nicholas I'll just ask you a

355
00:15:17,028 --> 00:15:20,419
political question before we go and you

356
00:15:18,769 --> 00:15:22,778
in as a scientist you don't have to

357

00:15:20,419 --> 00:15:24,949

answer this as far as California

358

00:15:22,778 --> 00:15:26,929

decriminalizing marijuana use how do you

359

00:15:24,950 --> 00:15:29,140

feel about that it's a it's a tough

360

00:15:26,929 --> 00:15:31,459

question cannabis has a lot of

361

00:15:29,139 --> 00:15:33,588

therapeutic benefits the problem with

362

00:15:31,460 --> 00:15:35,000

cannabis is that as I said it binds all

363

00:15:33,589 --> 00:15:37,400

these receptors throughout the entire

364

00:15:35,000 --> 00:15:39,950

body you get this side effect which is

365

00:15:37,399 --> 00:15:41,899

the psychoactive effect right the high

366

00:15:39,950 --> 00:15:44,540

so to say that's not really good

367

00:15:41,899 --> 00:15:46,730

medicine to disrupt driving skills for

368

00:15:44,539 --> 00:15:49,338

example the short answer to your

369

00:15:46,730 --> 00:15:51,860

question or the long answer is Canada's

370

00:15:49,339 --> 00:15:53,990

probably isn't the best medicine however

371

00:15:51,860 --> 00:15:56,480
now let's compare this to other drugs

372
00:15:53,990 --> 00:15:59,600
for example like opioids are oxycotton

373
00:15:56,480 --> 00:16:01,759
so these be synthetic opioids those

374
00:15:59,600 --> 00:16:04,370
drugs are horrible have horrible side

375
00:16:01,759 --> 00:16:07,069
effects Canada's on the other hand you

376
00:16:04,370 --> 00:16:10,039
have very very few of these effects so

377
00:16:07,070 --> 00:16:12,500
it's a much in my opinion it be far far

378
00:16:10,039 --> 00:16:14,809
safe as we're having a big chow down at

379
00:16:12,500 --> 00:16:17,269
lunch or dinner on a nice fatty again

380
00:16:14,809 --> 00:16:18,859
ice cream or something that's yummy what

381
00:16:17,269 --> 00:16:20,120
should we be thinking is going on how

382
00:16:18,860 --> 00:16:21,740
can be preachers picture that in our

383
00:16:20,120 --> 00:16:23,120
mind is our final image of what you've

384
00:16:21,740 --> 00:16:25,278
discovered there at the University of

385
00:16:23,120 --> 00:16:27,500

California Irvine easiest way to

386

00:16:25,278 --> 00:16:29,600

conceptualize this is you imagine almost

387

00:16:27,500 --> 00:16:31,759

over there you guys had the same call

388

00:16:29,600 --> 00:16:33,080

you can't eat just one trip and you can

389

00:16:31,759 --> 00:16:35,088

kind of make the analogy with french

390

00:16:33,080 --> 00:16:37,040

fries as well as when you taste that

391

00:16:35,089 --> 00:16:39,650

first potato chip for that first french

392

00:16:37,039 --> 00:16:41,000

fry why do you want to continue to eat

393

00:16:39,649 --> 00:16:43,009

that whole bag and a whole plate of

394

00:16:41,000 --> 00:16:45,590

french fries soon as that first french

395

00:16:43,009 --> 00:16:48,019

fire chip chip touches the tongue really

396

00:16:45,590 --> 00:16:50,360

is the natural marijuana like chemicals

397

00:16:48,019 --> 00:16:52,309

in the gut and makes you wanna eat more

398

00:16:50,360 --> 00:16:54,050

of those fatty foods and it's an

399

00:16:52,309 --> 00:16:55,759

evolutionarily conserved behavior as

400
00:16:54,049 --> 00:16:57,500
well we're all still in a feast or

401
00:16:55,759 --> 00:16:59,629
famine we have an involved s basically

402
00:16:57,500 --> 00:17:02,330
being on the savanna it's a feast or

403
00:16:59,629 --> 00:17:04,549
famine state so fat has more than twice

404
00:17:02,330 --> 00:17:06,860
the amount of energy contained in it

405
00:17:04,549 --> 00:17:08,329
then protein or carbohydrate does so

406
00:17:06,859 --> 00:17:11,000
it's pretty advantageous for you to

407
00:17:08,329 --> 00:17:12,649
over-consume these foods in the savanna

408
00:17:11,000 --> 00:17:14,660
or in a feast and famine condition

409
00:17:12,650 --> 00:17:17,000
unfortunately now an industrial like

410
00:17:14,660 --> 00:17:18,710
more modern societies we have access to

411
00:17:17,000 --> 00:17:20,900
those fats right around the corner we

412
00:17:18,710 --> 00:17:23,299
can go eat man is one what actually

413
00:17:20,900 --> 00:17:25,730
stops it is that when the receptor runs

414
00:17:23,299 --> 00:17:28,099
out of chemical descend because that's

415
00:17:25,730 --> 00:17:29,360
where all because we got becomes fuller

416
00:17:28,099 --> 00:17:31,490
because we noticed we're getting really

417
00:17:29,359 --> 00:17:33,319
fat and unattractive to others when the

418
00:17:31,490 --> 00:17:35,390
fat touches the tongue and though

419
00:17:33,319 --> 00:17:37,339
cannabinoid levels spike and drive you

420
00:17:35,390 --> 00:17:40,040
to eat more of it once you've had enough

421
00:17:37,339 --> 00:17:42,319
calories and the food then goes into the

422
00:17:40,039 --> 00:17:44,509
small intestine again just hypothesizing

423
00:17:42,319 --> 00:17:46,639
here and we still have to test this it's

424
00:17:44,509 --> 00:17:50,000
very likely at the end of cannabinoid

425
00:17:46,640 --> 00:17:51,650
levels may drop terminating the meal so

426
00:17:50,000 --> 00:17:53,660
the endocannabinoids may actually be at

427
00:17:51,650 --> 00:17:55,340
the seat of both of these both of these

428

00:17:53,660 --> 00:17:56,690
phenomena I'm getting the munchies just

429
00:17:55,339 --> 00:17:59,539
even talking to you Nicholas it's been

430
00:17:56,690 --> 00:18:01,430
great chatting to you I look forward to

431
00:17:59,539 --> 00:18:03,440
hearing more about your research in the

432
00:18:01,430 --> 00:18:05,390
future Nick the next phase it moves on

433
00:18:03,440 --> 00:18:07,490
to because one day we may be able to eat

434
00:18:05,390 --> 00:18:10,400
as much as we like and not get fat isn't

435
00:18:07,490 --> 00:18:12,829
that isn't that selfish I know isn't it

436
00:18:10,400 --> 00:18:14,330
self respect well we live once and we

437
00:18:12,829 --> 00:18:15,799
want to enjoy our life right is their

438
00:18:14,329 --> 00:18:18,049
website or somewhere where people could

439
00:18:15,799 --> 00:18:19,519
go to look at the results and that your

440
00:18:18,049 --> 00:18:21,799
research this is published in the

441
00:18:19,519 --> 00:18:24,859
Proceedings of the National Academy of

442
00:18:21,799 --> 00:18:28,369

Sciences the USA version I'm so they can

443

00:18:24,859 --> 00:18:30,019

go online the acronym is pnas that's the

444

00:18:28,369 --> 00:18:31,609

journal that is published in you can go

445

00:18:30,019 --> 00:18:34,220

to university of california irvine

446

00:18:31,609 --> 00:18:36,049

school of medicine and there you'll find

447

00:18:34,220 --> 00:18:38,329

our department of pharmacology and you

448

00:18:36,049 --> 00:18:39,440

can you can log on there and look at a

449

00:18:38,329 --> 00:18:41,899

bunch of the research that's been done

450

00:18:39,440 --> 00:18:46,059

there's a posting of about this specific

451

00:18:41,900 --> 00:18:46,060

specific study on there as well

452

00:18:54,529 --> 00:18:56,589

you

453

00:18:57,849 --> 00:19:02,418

you

454

00:18:59,599 --> 00:19:05,259

this is Eugenie Scott National Center

455

00:19:02,419 --> 00:19:10,669

for Science Education you can find us at

456

00:19:05,259 --> 00:19:12,589

ww NCSE com come see us if you want to

457
00:19:10,669 --> 00:19:14,840
know anything about the creationism and

458
00:19:12,589 --> 00:19:17,839
evolution conflict in the United States

459
00:19:14,839 --> 00:19:19,609
or more's the pity internationally these

460
00:19:17,839 --> 00:19:22,879
days we are a clearinghouse for

461
00:19:19,609 --> 00:19:25,548
information on this vexing but certainly

462
00:19:22,880 --> 00:19:27,970
very interesting problem come and find

463
00:19:25,548 --> 00:19:27,970
out more about

464
00:19:31,930 --> 00:19:41,150
and now we travel back to the wonderful

465
00:19:37,009 --> 00:19:43,160
year of 1992 almost 20 years ago when

466
00:19:41,150 --> 00:19:45,790
ABC television here in Australia ran a

467
00:19:43,160 --> 00:19:48,860
program called couchman which was now

468
00:19:45,789 --> 00:19:52,250
interactive type audience show in the

469
00:19:48,859 --> 00:19:55,509
audience on this occasion were a number

470
00:19:52,250 --> 00:19:58,190
of Australia's leading astrologers and

471
00:19:55,509 --> 00:20:00,710
some leading skeptics including Barry

472
00:19:58,190 --> 00:20:03,170
Williams and Ian Bryce who you'll hear

473
00:20:00,710 --> 00:20:04,970
later one of the leading astrologers

474
00:20:03,170 --> 00:20:07,490
you'll hear soon as Milton Black who's

475
00:20:04,970 --> 00:20:11,150
still doing astrology now he makes very

476
00:20:07,490 --> 00:20:13,759
bold and brassy predictions about his

477
00:20:11,150 --> 00:20:16,310
accuracy in predicting election outcomes

478
00:20:13,759 --> 00:20:19,220
in Australia and at one stage you'll

479
00:20:16,309 --> 00:20:20,720
hear him say Keating has gone implying

480
00:20:19,220 --> 00:20:22,339
that the Prime Minister then Prime

481
00:20:20,720 --> 00:20:24,559
Minister Paul Keating would lose the

482
00:20:22,339 --> 00:20:28,339
next federal election which was widely

483
00:20:24,559 --> 00:20:30,829
expected as it happens for Keating won

484
00:20:28,339 --> 00:20:39,500
that election bear that in mind as we

485

00:20:30,829 --> 00:20:42,079
take you back in nineteen ninety two are

486
00:20:39,500 --> 00:20:45,019
just interested dr. william gray who's

487
00:20:42,079 --> 00:20:47,569
at the anu has done a couple of surveys

488
00:20:45,019 --> 00:20:49,670
to try and determine how many people in

489
00:20:47,569 --> 00:20:51,740
Australia do take astrology seriously

490
00:20:49,670 --> 00:20:53,450
now I was intrigued to discover the

491
00:20:51,740 --> 00:20:56,450
surveys with four years apart and

492
00:20:53,450 --> 00:20:58,400
between surveys you found that the

493
00:20:56,450 --> 00:21:00,830
number of people who said yes I do

494
00:20:58,400 --> 00:21:04,790
believe in astrology had nearly doubled

495
00:21:00,829 --> 00:21:07,039
its in 1986-87 we found about sixteen

496
00:21:04,789 --> 00:21:09,619
percent were inclined to accept

497
00:21:07,039 --> 00:21:11,329
astrology and it seems to have jumped

498
00:21:09,619 --> 00:21:14,059
fairly significantly to about twenty

499
00:21:11,329 --> 00:21:16,099

nine percent and why in the last four

500

00:21:14,059 --> 00:21:17,720

years would so many more people suddenly

501

00:21:16,099 --> 00:21:19,369

decide that they believe in astrology

502

00:21:17,720 --> 00:21:21,049

does it have anything to do with the

503

00:21:19,369 --> 00:21:24,589

economic times we're going through

504

00:21:21,049 --> 00:21:26,480

that's a possible cause for it I'm

505

00:21:24,589 --> 00:21:29,359

really uncertain as to what motivates

506

00:21:26,480 --> 00:21:33,140

people to believe in astrology we have

507

00:21:29,359 --> 00:21:35,689

certainly the evidence that women are

508

00:21:33,140 --> 00:21:39,090

much more inclined to accept astrology

509

00:21:35,690 --> 00:21:44,549

than men also why would that be say

510

00:21:39,089 --> 00:21:46,709

I sensitivity somebody said well I think

511

00:21:44,549 --> 00:21:49,159

that it various conjectures have been

512

00:21:46,710 --> 00:21:52,529

offered for that one is that perhaps

513

00:21:49,160 --> 00:21:56,340

astrology and a lot of the psychic and

514
00:21:52,529 --> 00:21:59,730
mystical belief systems provide a an

515
00:21:56,339 --> 00:22:02,059
alternative to science-based worldviews

516
00:21:59,730 --> 00:22:06,089
which perhaps have a very unattractive

517
00:22:02,059 --> 00:22:07,859
macho male gender stereotype that's one

518
00:22:06,089 --> 00:22:11,039
possibility but it's pretty arm-waving

519
00:22:07,859 --> 00:22:14,849
speculative stuff another possibility is

520
00:22:11,039 --> 00:22:18,599
that women in general find their lives

521
00:22:14,849 --> 00:22:20,819
for various reasons subject to forces

522
00:22:18,599 --> 00:22:23,039
outside their control and it may be that

523
00:22:20,819 --> 00:22:25,109
people who don't have a high degree of

524
00:22:23,039 --> 00:22:28,710
autonomy in their lives are also

525
00:22:25,109 --> 00:22:31,079
inclined to suspect that there are

526
00:22:28,710 --> 00:22:32,789
outside forces controlling their destiny

527
00:22:31,079 --> 00:22:34,679
but what you say things think that women

528
00:22:32,789 --> 00:22:36,509
have perhaps a little bit more intuitive

529
00:22:34,680 --> 00:22:38,310
than men and can understand the

530
00:22:36,509 --> 00:22:40,349
qualities of astrology and psychic

531
00:22:38,309 --> 00:22:42,599
phenomena I know no proof to establish

532
00:22:40,349 --> 00:22:44,069
that at all I'm afraid to see the other

533
00:22:42,599 --> 00:22:46,259
thing that came out of these survey that

534
00:22:44,069 --> 00:22:48,659
I found really interesting was that the

535
00:22:46,259 --> 00:22:50,519
belief in astrology was in inverse

536
00:22:48,660 --> 00:22:51,960
proportion to the level of education so

537
00:22:50,519 --> 00:22:54,269
in other words the more educated you

538
00:22:51,960 --> 00:22:57,840
were the less likely you were to take it

539
00:22:54,269 --> 00:23:00,720
seriously I have to dispute that say all

540
00:22:57,839 --> 00:23:02,879
the skills can I unfortunate well I

541
00:23:00,720 --> 00:23:05,579
don't expand on that momentarily if I

542

00:23:02,880 --> 00:23:08,220
may there were three very firm

543
00:23:05,579 --> 00:23:10,319
correlations that came out of the survey

544
00:23:08,220 --> 00:23:12,809
and they are pretty strong there is an

545
00:23:10,319 --> 00:23:14,669
age-related correlation there is an

546
00:23:12,809 --> 00:23:16,529
education related correlation and

547
00:23:14,670 --> 00:23:18,450
there's a gender related correlation now

548
00:23:16,529 --> 00:23:21,480
that does seem to be some truth in the

549
00:23:18,450 --> 00:23:23,130
old adage older and wiser that the older

550
00:23:21,480 --> 00:23:25,079
people get the more skeptical they

551
00:23:23,130 --> 00:23:27,690
become the less inclined they are to

552
00:23:25,079 --> 00:23:30,359
accept that the planets do affect their

553
00:23:27,690 --> 00:23:32,519
destinies in any way education is the

554
00:23:30,359 --> 00:23:35,189
most dramatic and the strongest

555
00:23:32,519 --> 00:23:37,500
influence the more education people have

556
00:23:35,190 --> 00:23:39,720

consumed the less likely they are to

557

00:23:37,500 --> 00:23:43,308

accept that the planets affect their

558

00:23:39,720 --> 00:23:45,558

destiny I dispute that everyone

559

00:23:43,308 --> 00:23:47,690

the reason 1 99 percent soul I say this

560

00:23:45,558 --> 00:23:55,519

most of my personal clientele are

561

00:23:47,690 --> 00:23:58,009

politicians professional it sounds very

562

00:23:55,519 --> 00:23:59,899

hilarious in today's times but I have

563

00:23:58,009 --> 00:24:02,389

doctors of philosophy that come to

564

00:23:59,898 --> 00:24:04,308

singing I have medical practitioners

565

00:24:02,388 --> 00:24:07,339

that come to see me I had barristers and

566

00:24:04,308 --> 00:24:09,230

solicitors I have businessmen a very

567

00:24:07,339 --> 00:24:12,288

well-known businessman in this country

568

00:24:09,230 --> 00:24:14,778

and i also have housewives and students

569

00:24:12,288 --> 00:24:17,450

so i have a wide variety of people that

570

00:24:14,778 --> 00:24:19,069

visit me personally now for you to make

571
00:24:17,450 --> 00:24:21,499
that statement i would have to say

572
00:24:19,069 --> 00:24:23,359
you're wrong no look hang on i'm not

573
00:24:21,499 --> 00:24:25,278
saying that these people your clients

574
00:24:23,359 --> 00:24:27,648
have not got a high level of education

575
00:24:25,278 --> 00:24:30,019
all i would be asserting is that they're

576
00:24:27,648 --> 00:24:32,359
in a very small minority of those

577
00:24:30,019 --> 00:24:34,190
educated people who accept the truth in

578
00:24:32,359 --> 00:24:35,839
australia yet the lady behind me yes

579
00:24:34,190 --> 00:24:39,288
your honor you say some again are we

580
00:24:35,839 --> 00:24:41,778
speaking of pop astrology that the

581
00:24:39,288 --> 00:24:44,058
survey was made on or on astrology

582
00:24:41,778 --> 00:24:45,769
serious destroy all these a survey was

583
00:24:44,058 --> 00:24:47,990
cast in very general terms it was simply

584
00:24:45,769 --> 00:24:49,099
people were simply I to question respond

585
00:24:47,990 --> 00:24:52,099
to the question do you believe in

586
00:24:49,099 --> 00:24:54,618
astrology was a simple effective America

587
00:24:52,099 --> 00:24:56,928
has well known become someone who has

588
00:24:54,618 --> 00:24:58,939
gone to an astrologer that people in

589
00:24:56,929 --> 00:25:00,590
high positions don't use astrology I

590
00:24:58,940 --> 00:25:03,019
mean that is a man with incredible

591
00:25:00,589 --> 00:25:05,058
worldly power all right lots of people

592
00:25:03,019 --> 00:25:07,399
may not put down on their survey that

593
00:25:05,058 --> 00:25:10,009
they go to astrologers or rito stralla G

594
00:25:07,398 --> 00:25:11,479
because it has a social stigma it's not

595
00:25:10,009 --> 00:25:13,220
something that a lot of people want to

596
00:25:11,480 --> 00:25:15,829
run around say I'm a great success

597
00:25:13,220 --> 00:25:17,659
because I go to an astrologer so

598
00:25:15,829 --> 00:25:20,089
therefore people are very closeted it's

599

00:25:17,659 --> 00:25:21,740
a very personal very intimate subject

600
00:25:20,089 --> 00:25:24,138
and I don't think surveys of the way to

601
00:25:21,740 --> 00:25:26,659
judge who does it who reads it the way

602
00:25:24,138 --> 00:25:28,788
to judge who reads them is to see people

603
00:25:26,659 --> 00:25:30,590
who do know their star fun and can say

604
00:25:28,788 --> 00:25:32,990
things like Peter see when you began the

605
00:25:30,589 --> 00:25:34,668
show they strode write it off like they

606
00:25:32,990 --> 00:25:35,839
know it all so well I think the surveys

607
00:25:34,669 --> 00:25:37,429
are interesting in that they give us a

608
00:25:35,839 --> 00:25:39,528
broad indication as to how the

609
00:25:37,429 --> 00:25:42,440
population reacts to certain subject you

610
00:25:39,528 --> 00:25:43,460
see the other thing the survey told us

611
00:25:42,440 --> 00:25:45,679
was that about a quarter of the

612
00:25:43,460 --> 00:25:47,179
population reads the cottons and about a

613
00:25:45,679 --> 00:25:49,220

half of them take it seriously how

614

00:25:47,179 --> 00:25:51,798

doctor can I just rephrase it to about

615

00:25:49,220 --> 00:25:54,500

specialized astrology now I specialize

616

00:25:51,798 --> 00:25:57,289

in political astrology that's my forte

617

00:25:54,500 --> 00:25:59,180

I'm very good at it I predicted every

618

00:25:57,289 --> 00:26:00,980

state and federal election since

619

00:25:59,180 --> 00:26:03,410

nineteen seventy four including this

620

00:26:00,980 --> 00:26:07,190

last tasmanian election survive open i

621

00:26:03,410 --> 00:26:10,130

mean they'll hold on a bit further than

622

00:26:07,190 --> 00:26:11,570

if I've gone seats now in the slice

623

00:26:10,130 --> 00:26:14,960

prediction for the tasmanian election

624

00:26:11,569 --> 00:26:16,639

and I can remember saying as to the

625

00:26:14,960 --> 00:26:18,769

media but also to a local Member of

626

00:26:16,640 --> 00:26:20,240

Parliament at a function that I was set

627

00:26:18,769 --> 00:26:22,400

on the Friday night prior to the

628
00:26:20,240 --> 00:26:24,710
saturdays election I said there will be

629
00:26:22,400 --> 00:26:27,710
a minimum of 19 seats and a maximum of

630
00:26:24,710 --> 00:26:29,420
20 12 the Liberal Party now I go down

631
00:26:27,710 --> 00:26:31,910
two seats I just don't say the Liberals

632
00:26:29,420 --> 00:26:33,529
are going to win the Labour Party's down

633
00:26:31,910 --> 00:26:35,210
Milton do you do your predictions after

634
00:26:33,529 --> 00:26:36,649
you've read the pole no do you know I do

635
00:26:35,210 --> 00:26:39,019
them well give it can you give us the

636
00:26:36,650 --> 00:26:40,670
tip for the next federal elections gone

637
00:26:39,019 --> 00:26:44,509
you know so that I'll give you more

638
00:26:40,670 --> 00:26:46,820
details on their video pls write your

639
00:26:44,509 --> 00:26:48,259
essay I will give you the signal back in

640
00:26:46,819 --> 00:26:50,329
you well give us a seat no you're not

641
00:26:48,259 --> 00:26:52,039
I'm not a baby I haven't I haven't it's

642
00:26:50,329 --> 00:26:54,829
still talk we've got to a match next

643
00:26:52,039 --> 00:26:56,960
year now september of this year is

644
00:26:54,829 --> 00:26:58,819
where we going to see things welcome to

645
00:26:56,960 --> 00:27:01,130
be precise the twelfth of august you'll

646
00:26:58,819 --> 00:27:03,109
start seeing Keating warming up wanting

647
00:27:01,130 --> 00:27:05,900
perhaps to run an early election but i'm

648
00:27:03,109 --> 00:27:07,759
leaving net to my media outlets because

649
00:27:05,900 --> 00:27:10,070
that's where I make my predictions

650
00:27:07,759 --> 00:27:12,529
that's what I get paid for and of course

651
00:27:10,069 --> 00:27:15,679
I will certainly let you know my

652
00:27:12,529 --> 00:27:17,269
predictions in future okay look let's

653
00:27:15,680 --> 00:27:19,460
get down to tin tacks here because

654
00:27:17,269 --> 00:27:21,109
there's there's one very basic question

655
00:27:19,460 --> 00:27:22,910
that I'd really like to hear you're

656

00:27:21,109 --> 00:27:25,039
discussing that is why should the

657
00:27:22,910 --> 00:27:27,529
position of the planets have any

658
00:27:25,039 --> 00:27:29,480
influence on how we don't have to be on

659
00:27:27,529 --> 00:27:32,059
our personalities on our characters even

660
00:27:29,480 --> 00:27:34,190
the choice of occupation that we might

661
00:27:32,059 --> 00:27:36,470
make what might happen in our lives why

662
00:27:34,190 --> 00:27:39,350
should that be can anyone explain that

663
00:27:36,470 --> 00:27:45,319
for me intense can anyone explain that

664
00:27:39,349 --> 00:27:47,509
for me in 10 seconds is upper back the

665
00:27:45,319 --> 00:27:49,099
answer to that's very simple Peter the

666
00:27:47,509 --> 00:27:50,690
forces that govern the universe are

667
00:27:49,099 --> 00:27:53,659
quite well known and they have been for

668
00:27:50,690 --> 00:27:54,920
about half a century and that the forces

669
00:27:53,660 --> 00:27:57,080
do not account for any of those

670
00:27:54,920 --> 00:27:59,180

interactions the planets do not affect

671

00:27:57,079 --> 00:28:01,129

our personalities and the events that

672

00:27:59,180 --> 00:28:03,529

happened to us in that way that's enough

673

00:28:01,130 --> 00:28:05,480

is enough no

674

00:28:03,529 --> 00:28:08,269

you can it well ray can you can you

675

00:28:05,480 --> 00:28:09,529

explain for us simply how the position

676

00:28:08,269 --> 00:28:11,539

of the planets at the time of our birth

677

00:28:09,529 --> 00:28:13,700

might in any way affect what sort of

678

00:28:11,539 --> 00:28:15,889

people we are well Peter I think that

679

00:28:13,700 --> 00:28:19,460

first of all the purpose of astrology is

680

00:28:15,890 --> 00:28:21,770

not to foretell the future no only what

681

00:28:19,460 --> 00:28:23,569

do you claim to do no it is not what we

682

00:28:21,769 --> 00:28:25,700

plan to do it what you people keep

683

00:28:23,569 --> 00:28:28,399

claiming we don't just listen to an

684

00:28:25,700 --> 00:28:29,870

astrologer for 30 sec okay just explain

685
00:28:28,400 --> 00:28:31,460
first why the position of the planets

686
00:28:29,869 --> 00:28:33,949
should in any way influence our

687
00:28:31,460 --> 00:28:35,990
personalities the position of the

688
00:28:33,950 --> 00:28:39,200
planets when they're talking about the

689
00:28:35,990 --> 00:28:42,289
the solar system huh the most important

690
00:28:39,200 --> 00:28:45,890
thing in the solar system is the Sun you

691
00:28:42,289 --> 00:28:50,450
switch off that son you've got a heap of

692
00:28:45,890 --> 00:28:54,620
rocks having said that there are four

693
00:28:50,450 --> 00:28:59,660
major seasons summer autumn winter

694
00:28:54,619 --> 00:29:02,679
spring a plant that will grow in the

695
00:28:59,660 --> 00:29:07,850
spring will not grow in the summer I

696
00:29:02,680 --> 00:29:09,320
won't for you it goes there are well

697
00:29:07,849 --> 00:29:11,179
well I want to know I think I think I

698
00:29:09,319 --> 00:29:13,009
think it is accepted by certainly people

699
00:29:11,180 --> 00:29:15,140
who were who grow things all you have

700
00:29:13,009 --> 00:29:18,109
landed are influenced by the autumn of

701
00:29:15,140 --> 00:29:21,020
Dunamis take a little further we are

702
00:29:18,109 --> 00:29:25,189
part of all we have met Arthur Bowman

703
00:29:21,019 --> 00:29:30,109
will tell you that every time in the

704
00:29:25,190 --> 00:29:32,390
universe is putting its stamp impeccably

705
00:29:30,109 --> 00:29:34,429
and forever on every part of that

706
00:29:32,390 --> 00:29:38,360
universe that started at that moment

707
00:29:34,430 --> 00:29:41,269
including pizza a winter child is like a

708
00:29:38,359 --> 00:29:44,359
wizard flower a summer child is like a

709
00:29:41,269 --> 00:29:46,759
summer flower we are different I take a

710
00:29:44,359 --> 00:29:48,559
step I'm different to the person who has

711
00:29:46,759 --> 00:29:51,289
one step behind me and different again

712
00:29:48,559 --> 00:29:54,379
to the person on the inside me the faith

713

00:29:51,289 --> 00:29:57,789
that makes astrology work best is free

714
00:29:54,380 --> 00:30:00,310
will free will because you can have a

715
00:29:57,789 --> 00:30:03,200
50,000 people born at the same instant

716
00:30:00,309 --> 00:30:06,579
under the same planetary influences and

717
00:30:03,200 --> 00:30:10,509
by exercising their god-given free will

718
00:30:06,579 --> 00:30:13,279
will make 50,000 individual different

719
00:30:10,509 --> 00:30:16,129
decisions and each one of them can be

720
00:30:13,279 --> 00:30:17,190
right for you yes but hold on a minute

721
00:30:16,130 --> 00:30:19,020
does that mean that all

722
00:30:17,190 --> 00:30:23,160
people who were born at the same minute

723
00:30:19,019 --> 00:30:24,960
that I was also all those things that I

724
00:30:23,160 --> 00:30:27,509
am you know on the bad days malicious

725
00:30:24,960 --> 00:30:28,769
pessimistic and selfish about it but

726
00:30:27,509 --> 00:30:30,990
they've done the play well it's your

727
00:30:28,769 --> 00:30:32,400

call twin like a person born on the in

728

00:30:30,990 --> 00:30:33,720

the same hospital around about the same

729

00:30:32,400 --> 00:30:36,269

time as you would have a similar

730

00:30:33,720 --> 00:30:38,910

experience or life pattern but do that

731

00:30:36,269 --> 00:30:40,139

mean by that definition that raised just

732

00:30:38,910 --> 00:30:43,680

giving us we should be almost identical

733

00:30:40,140 --> 00:30:46,230

personalities because we're taking into

734

00:30:43,680 --> 00:30:49,080

account the genetic processes but

735

00:30:46,230 --> 00:30:50,910

arrived from the two family lines that

736

00:30:49,079 --> 00:30:52,769

at conception then meet and that

737

00:30:50,910 --> 00:30:54,960

individual is obviously going to display

738

00:30:52,769 --> 00:30:57,029

a lot of those genetic processes and is

739

00:30:54,960 --> 00:30:58,980

the environmental influence is acting on

740

00:30:57,029 --> 00:31:01,829

those genetic processes which is going

741

00:30:58,980 --> 00:31:03,360

to make that person what they are what

742
00:31:01,829 --> 00:31:05,099
this thing is cop out from what they're

743
00:31:03,359 --> 00:31:07,229
claiming I mean they're giving you all

744
00:31:05,099 --> 00:31:09,329
the always still thanks to the angle

745
00:31:07,230 --> 00:31:12,200
count the skeptics ever say is like we

746
00:31:09,329 --> 00:31:15,059
alone know everything nice part about

747
00:31:12,200 --> 00:31:16,920
best part of that free will very well

748
00:31:15,059 --> 00:31:18,539
yes yes well isn't that denying the

749
00:31:16,920 --> 00:31:21,480
whole basis of your load of rubbish you

750
00:31:18,539 --> 00:31:22,920
love it okay what am I going on here

751
00:31:21,480 --> 00:31:25,500
Barry mate was denying all these

752
00:31:22,920 --> 00:31:27,539
influences make you know I will use it

753
00:31:25,500 --> 00:31:31,200
this way look look I can use this chair

754
00:31:27,539 --> 00:31:35,700
like that all right look I can fall over

755
00:31:31,200 --> 00:31:38,039
right tree will bring I'm all in favor

756
00:31:35,700 --> 00:31:40,049
on what was your point Barry what i'm

757
00:31:38,039 --> 00:31:41,789
going to say look the point is i make a

758
00:31:40,049 --> 00:31:44,069
statement about this influence they have

759
00:31:41,789 --> 00:31:45,059
and then the for the rest of the five

760
00:31:44,069 --> 00:31:47,039
minutes i've been talking I've been

761
00:31:45,059 --> 00:31:48,690
giving you the apps from it so that when

762
00:31:47,039 --> 00:31:50,129
it doesn't work for you well it might be

763
00:31:48,690 --> 00:31:51,450
a genetic influence or it might be a

764
00:31:50,130 --> 00:31:53,850
free will or it mala p anything else I

765
00:31:51,450 --> 00:31:55,830
mean is free well I'm in great I dreamed

766
00:31:53,849 --> 00:31:58,289
you about three well what why do you

767
00:31:55,829 --> 00:32:01,169
have to then overlay your free will with

768
00:31:58,289 --> 00:32:02,369
this absolute crime it's somebody hold

769
00:32:01,170 --> 00:32:03,990
on hold on a thing on break this

770

00:32:02,369 --> 00:32:06,139
document I gotta break this up here hold

771
00:32:03,990 --> 00:32:06,140
on

772
00:32:15,500 --> 00:32:19,170
hi this is michael cruz from the

773
00:32:18,119 --> 00:32:21,089
committee for the advancement of

774
00:32:19,170 --> 00:32:23,490
scientific skepticism at the center for

775
00:32:21,089 --> 00:32:24,959
inquiry canada Cass is committed to

776
00:32:23,490 --> 00:32:26,880
critically examining scientific

777
00:32:24,960 --> 00:32:29,340
technological and medical claims in the

778
00:32:26,880 --> 00:32:31,740
public forum across Canada working with

779
00:32:29,339 --> 00:32:33,539
our expert advisors local cfi branches

780
00:32:31,740 --> 00:32:34,890
and other skeptical groups Cass

781
00:32:33,539 --> 00:32:37,639
confronts the peddlers of pseudoscience

782
00:32:34,890 --> 00:32:39,930
with evidence-based scientific inquiry

783
00:32:37,640 --> 00:32:42,240
2010 has been a watershed here for the

784
00:32:39,930 --> 00:32:44,130

sceptical movement in Canada and in 2011

785

00:32:42,240 --> 00:32:46,470

cast will continue fighting bad science

786

00:32:44,130 --> 00:32:47,730

in the media and the government if you

787

00:32:46,470 --> 00:32:49,019

would like to become involved in the

788

00:32:47,730 --> 00:32:50,549

fight to promote critical thinking in

789

00:32:49,019 --> 00:32:52,079

Canada or if you have a concern about

790

00:32:50,549 --> 00:32:54,299

the spread of pseudoscience in the

791

00:32:52,079 --> 00:32:57,210

Canadian media please contact us at

792

00:32:54,299 --> 00:32:59,940

casts at cfi canada CA you can also

793

00:32:57,210 --> 00:33:01,980

follow us on twitter at cfi casts and on

794

00:32:59,940 --> 00:33:04,830

facebook at cass at center for inquiry

795

00:33:01,980 --> 00:33:07,910

canada casts fighting pseudoscience

796

00:33:04,829 --> 00:33:07,909

without apology

797

00:33:17,788 --> 00:33:22,269

welcome to supernova 2011 it's all

798

00:33:20,710 --> 00:33:24,129

happening all the fancy here all the

799

00:33:22,269 --> 00:33:29,440

gigs are here all the big stars are here

800

00:33:24,128 --> 00:33:32,469

and well I'm here to supernova 2011 look

801

00:33:29,440 --> 00:33:34,210

who we got here it's a skeptic but he's

802

00:33:32,470 --> 00:33:35,980

gonna skip the exactly dressed as some

803

00:33:34,210 --> 00:33:38,440

guy superpowers that an idiot wearing a

804

00:33:35,980 --> 00:33:40,720

time leather jacket hasn't got its brett

805

00:33:38,440 --> 00:33:42,278

how are you Brett from the hunter we

806

00:33:40,720 --> 00:33:43,629

don't like religion so much I mean we

807

00:33:42,278 --> 00:33:45,999

should think about the contradictions in

808

00:33:43,628 --> 00:33:46,928

the Bible Society yes hey young you

809

00:33:45,999 --> 00:33:50,200

should get a shorter name for that

810

00:33:46,929 --> 00:33:52,269

society a shorter name yes well atheists

811

00:33:50,200 --> 00:33:53,798

agnostics and atheists society is a bit

812

00:33:52,269 --> 00:33:56,740

of a mouthful so we do just shorten a

813
00:33:53,798 --> 00:34:00,190
day 3 mmm hey go easy on the God isn't

814
00:33:56,740 --> 00:34:03,609
that your theme well yeah like the club

815
00:34:00,190 --> 00:34:05,980
itself likes to be we just like to

816
00:34:03,609 --> 00:34:07,959
discuss ideas when we encourage the

817
00:34:05,980 --> 00:34:09,398
members to be as nasty or it's nice to

818
00:34:07,960 --> 00:34:10,568
religion as they like but we do

819
00:34:09,398 --> 00:34:12,460
encourage people to have a think about

820
00:34:10,568 --> 00:34:14,199
it and it looks like i always get

821
00:34:12,460 --> 00:34:16,358
sidetracked by this issue because i just

822
00:34:14,199 --> 00:34:17,648
theology just fascinates me both people

823
00:34:16,358 --> 00:34:19,358
that are into it and then adding but so

824
00:34:17,648 --> 00:34:20,980
i won't get sidetracked obviously let's

825
00:34:19,358 --> 00:34:23,980
just have a look around because very

826
00:34:20,980 --> 00:34:25,780
much as you would say we are like the

827

00:34:23,980 --> 00:34:27,429
Bible completely existing in a fictional

828
00:34:25,780 --> 00:34:29,290
world here aren't we everything here is

829
00:34:27,429 --> 00:34:31,929
based on wonderful fiction yeah pretty

830
00:34:29,289 --> 00:34:34,148
much i look around and i'd say at least

831
00:34:31,929 --> 00:34:38,168
half or more than half of the people

832
00:34:34,148 --> 00:34:39,398
aren't dressed as normal humans yeah and

833
00:34:38,168 --> 00:34:40,750
this is what I would normally be wearing

834
00:34:39,398 --> 00:34:41,769
this time of day anyway there and the

835
00:34:40,750 --> 00:34:43,210
things we haven't tried to forget what

836
00:34:41,769 --> 00:34:46,719
kind of character I might be yeah

837
00:34:43,210 --> 00:34:48,818
actually I'm that's that's I mean the

838
00:34:46,719 --> 00:34:51,068
jacket looks great the red tie it's

839
00:34:48,818 --> 00:34:52,509
brilliant it could fit into an anime

840
00:34:51,068 --> 00:34:54,398
somewhere we just need to find which one

841
00:34:52,510 --> 00:34:56,500

yeah i was thinking like i said john

842

00:34:54,398 --> 00:34:58,690
travolta after he was shot in hell

843

00:34:56,500 --> 00:34:59,858
fiction yeah yeah the bottom yet the

844

00:34:58,690 --> 00:35:01,389
body in the back that they had to take

845

00:34:59,858 --> 00:35:02,858
the hubba coach tells plays something

846

00:35:01,389 --> 00:35:04,539
like that just a few ideas that come top

847

00:35:02,858 --> 00:35:05,920
my head but Lester tell us I'm gonna

848

00:35:04,539 --> 00:35:09,429
step back tell us about your character

849

00:35:05,920 --> 00:35:11,440
alright well my name is Ganondorf i am

850

00:35:09,429 --> 00:35:14,588
the king of evil from The Legend of

851

00:35:11,440 --> 00:35:16,179
Zelda I come from the desert I lead a

852

00:35:14,588 --> 00:35:18,429
band of thieves

853

00:35:16,179 --> 00:35:20,529
I broke into the king's castle and stole

854

00:35:18,429 --> 00:35:23,019
the Triforce which is a power left by

855

00:35:20,530 --> 00:35:26,410
the gods to give people whatever wish

856
00:35:23,019 --> 00:35:29,170
they want wow so so George Hamilton's

857
00:35:26,409 --> 00:35:30,549
not in that not that I know when you say

858
00:35:29,170 --> 00:35:31,750
the legend of zelda I thought George

859
00:35:30,550 --> 00:35:34,420
Hamilton would had to be in that what

860
00:35:31,750 --> 00:35:36,699
he's a tan I'm sorry I'm unfamiliar with

861
00:35:34,420 --> 00:35:38,858
George hammer you see I'm just bringing

862
00:35:36,699 --> 00:35:40,868
on bullion Xena see the guy from the

863
00:35:38,858 --> 00:35:42,848
Steampunk 18th century walked into these

864
00:35:40,869 --> 00:35:45,789
things in here I know not of young

865
00:35:42,849 --> 00:35:47,050
people and their tails yeah but we can

866
00:35:45,789 --> 00:35:48,670
all agree on one thing the Tom Baker

867
00:35:47,050 --> 00:35:50,140
exhibition the Tom Baker exhibition down

868
00:35:48,670 --> 00:35:52,150
there it's hard I yeah definitely

869
00:35:50,139 --> 00:35:54,098
definitely and the other thing we're not

870
00:35:52,150 --> 00:35:56,050
all agree on and I really enjoyed

871
00:35:54,099 --> 00:35:57,190
getting this across to here and people

872
00:35:56,050 --> 00:35:59,680
that don't come to these kind of games

873
00:35:57,190 --> 00:36:01,088
that yeah it's great to be in the

874
00:35:59,679 --> 00:36:02,980
community here you know it's great to

875
00:36:01,088 --> 00:36:05,409
have like people in your shop that are

876
00:36:02,980 --> 00:36:07,838
really enjoying the stuff definitely

877
00:36:05,409 --> 00:36:09,088
like I can't walk five meters of that

878
00:36:07,838 --> 00:36:11,500
people coming up and saying hey

879
00:36:09,088 --> 00:36:13,239
Ganondorf I love your character I love

880
00:36:11,500 --> 00:36:15,309
your costume you look brilliant and we

881
00:36:13,239 --> 00:36:18,338
just have a conversation about all the

882
00:36:15,309 --> 00:36:19,390
sufferer into and and what yes how would

883
00:36:18,338 --> 00:36:20,440
you describe the kind of people that are

884

00:36:19,389 --> 00:36:22,058
here because we are talking about the

885
00:36:20,440 --> 00:36:23,980
community what kind of people are sort

886
00:36:22,059 --> 00:36:25,660
of turning up here today because I know

887
00:36:23,980 --> 00:36:27,219
it's just like the regular people I meet

888
00:36:25,659 --> 00:36:28,808
around all the time but people who don't

889
00:36:27,219 --> 00:36:31,509
come to this kind of stuff yeah thinks

890
00:36:28,809 --> 00:36:33,040
that it's like guys with beards glasses

891
00:36:31,510 --> 00:36:34,750
and near you guys they've never been out

892
00:36:33,039 --> 00:36:37,000
on a date with girls but it couldn't be

893
00:36:34,750 --> 00:36:38,798
anything further than that yeah well to

894
00:36:37,000 --> 00:36:41,949
not wanting to indict myself too much I

895
00:36:38,798 --> 00:36:43,509
would say most people are nerds but that

896
00:36:41,949 --> 00:36:44,949
extends beyond what most people think

897
00:36:43,510 --> 00:36:46,450
like when you think of it no do you

898
00:36:44,949 --> 00:36:48,759

think glasses guy he's never been

899

00:36:46,449 --> 00:36:50,558

outside but like heaps of girls these

900

00:36:48,760 --> 00:36:53,440

days is playing video games they watch

901

00:36:50,559 --> 00:36:54,880

anime they get into sci-fi but yeah it

902

00:36:53,440 --> 00:36:56,139

like it's not what you expect and it's

903

00:36:54,880 --> 00:36:58,210

like a day out with the community and

904

00:36:56,139 --> 00:37:00,338

sure we all exist online around with

905

00:36:58,210 --> 00:37:02,440

each other so like we don't often get to

906

00:37:00,338 --> 00:37:04,029

meet and that kind of stuff and it again

907

00:37:02,440 --> 00:37:05,769

as I say over and over again it's no

908

00:37:04,030 --> 00:37:07,329

stupider than following a sporting team

909

00:37:05,769 --> 00:37:09,039

yeah it's totally I mean I've got

910

00:37:07,329 --> 00:37:10,568

friends from Brisbane and Perth through

911

00:37:09,039 --> 00:37:12,338

here and like we're dressed as

912

00:37:10,568 --> 00:37:13,690

characters from the same game so we can

913
00:37:12,338 --> 00:37:15,400
meet up and everyone thinks the way from

914
00:37:13,690 --> 00:37:16,900
the same place so you

915
00:37:15,400 --> 00:37:18,789
yeah now is this some already in the

916
00:37:16,900 --> 00:37:22,539
fact that you're a very strong anti

917
00:37:18,789 --> 00:37:25,990
theist and you're dressed as a god can I

918
00:37:22,539 --> 00:37:29,049
can I go split up split up the irony has

919
00:37:25,989 --> 00:37:32,858
not lost on me um I would prefer to use

920
00:37:29,048 --> 00:37:34,989
the term double agents well this there's

921
00:37:32,858 --> 00:37:36,308
a part that always happens at any of

922
00:37:34,989 --> 00:37:38,379
these great adventures of Richard and I

923
00:37:36,309 --> 00:37:39,700
go on when we're mucking around carrying

924
00:37:38,380 --> 00:37:41,349
on doing something for the skeptic zone

925
00:37:39,699 --> 00:37:42,909
where we get to have our norms now

926
00:37:41,349 --> 00:37:44,798
normally dr. rates you see for this kind

927

00:37:42,909 --> 00:37:46,480
of stuff but see I think she's attending

928

00:37:44,798 --> 00:37:48,969
to a non-emergency somewhere else didn't

929

00:37:46,480 --> 00:37:51,429
you I think yes you must be nuns without

930

00:37:48,969 --> 00:37:53,500
dr. Reiki it's a bit odd but we are

931

00:37:51,429 --> 00:37:54,639
nomming for her yeah yeah well I'm sure

932

00:37:53,500 --> 00:37:56,079
you can add as much as three people if

933

00:37:54,639 --> 00:37:58,058
you'll really want to Richard I really

934

00:37:56,079 --> 00:37:59,890
want to do SI richard has lost a lot of

935

00:37:58,059 --> 00:38:03,490
weight lately because to be on the one

936

00:37:59,889 --> 00:38:05,828
he he had to have a BMI of 7 before they

937

00:38:03,489 --> 00:38:07,239
let him on TV and it's great he's never

938

00:38:05,829 --> 00:38:09,160
got the figure of 12 year old girl and

939

00:38:07,239 --> 00:38:10,629
and she really and she really misses her

940

00:38:09,159 --> 00:38:13,058
and she wants it back yeah the the

941

00:38:10,630 --> 00:38:15,130
treadmill is my friend now i can tell

942
00:38:13,059 --> 00:38:16,329
you yeah look secretly it has been for

943
00:38:15,130 --> 00:38:17,890
many years people but look we're here

944
00:38:16,329 --> 00:38:19,119
with some people that have got more than

945
00:38:17,889 --> 00:38:21,190
a treadmill for their friend because

946
00:38:19,119 --> 00:38:23,230
thousands of people around us are here

947
00:38:21,190 --> 00:38:25,358
doing the cosplay doing the sci-fi thing

948
00:38:23,230 --> 00:38:26,949
and when you come to these things go

949
00:38:25,358 --> 00:38:28,150
it's a lot of work to cover this but

950
00:38:26,949 --> 00:38:30,969
after you've come here a little while

951
00:38:28,150 --> 00:38:32,559
it's not just the stars or the famous

952
00:38:30,969 --> 00:38:35,169
people you talk to it's the people that

953
00:38:32,559 --> 00:38:36,069
are just into into all the sci-fi stuff

954
00:38:35,170 --> 00:38:38,220
it's great cuz you don't mean it

955
00:38:36,068 --> 00:38:42,969

normally you don't and i was just

956

00:38:38,219 --> 00:38:45,429

thinking before we go along to mind/body

957

00:38:42,969 --> 00:38:47,769

wallet twice a year and it's full of

958

00:38:45,429 --> 00:38:48,879

people this is also full of people and

959

00:38:47,769 --> 00:38:51,338

you might say well this is more

960

00:38:48,880 --> 00:38:54,068

outrageous or more fantasy that's not

961

00:38:51,338 --> 00:38:56,889

because everyone here is coming here to

962

00:38:54,068 --> 00:39:00,969

indulge their hobby their passion and

963

00:38:56,889 --> 00:39:03,429

but they all know it's good fun and in

964

00:39:00,969 --> 00:39:05,108

escape no one here actually really

965

00:39:03,429 --> 00:39:07,868

thinks that the vampires are real and

966

00:39:05,108 --> 00:39:09,670

all the rest of it where is your mind

967

00:39:07,869 --> 00:39:11,920

body wallet there are people there being

968

00:39:09,670 --> 00:39:14,710

going on and thinking the crystals are

969

00:39:11,920 --> 00:39:16,778

healing them and so forth also we spoke

970
00:39:14,710 --> 00:39:18,490
to brett from the atheist society of

971
00:39:16,778 --> 00:39:20,289
newcastle and i made the comment that he

972
00:39:18,489 --> 00:39:21,659
was dressed up as a god one of the gods

973
00:39:20,289 --> 00:39:23,589
and i thought that was a bit ironic and

974
00:39:21,659 --> 00:39:24,699
but he may be the point that well you

975
00:39:23,588 --> 00:39:25,659
know it's a bit but you know just like

976
00:39:24,699 --> 00:39:27,338
the Bible here there's a wonderful

977
00:39:25,659 --> 00:39:29,588
fictional world that it runs living in

978
00:39:27,338 --> 00:39:31,328
but no one's I mean you don't find the

979
00:39:29,588 --> 00:39:33,009
Trekkies going to war with a doctor who

980
00:39:31,329 --> 00:39:34,450
fans you know besides the fact that we

981
00:39:33,010 --> 00:39:36,278
know obviously are you know that they

982
00:39:34,449 --> 00:39:37,778
it's just it everybody respects

983
00:39:36,278 --> 00:39:40,269
everybody's other belief even though

984
00:39:37,778 --> 00:39:43,210
it's not a religion if there's religion

985
00:39:40,269 --> 00:39:46,420
like aspects to it I guess you could

986
00:39:43,210 --> 00:39:48,778
argue something along those lines but I

987
00:39:46,420 --> 00:39:51,130
obviously can't cuz i'm not very bright

988
00:39:48,778 --> 00:39:52,449
but basically at the end of the day as

989
00:39:51,130 --> 00:39:55,568
long as you don't call someone who's not

990
00:39:52,449 --> 00:39:57,759
spike spike you'll be okay which just

991
00:39:55,568 --> 00:39:59,409
happened earlier and there was a guy

992
00:39:57,760 --> 00:40:01,180
dressed up in a really great costume who

993
00:39:59,409 --> 00:40:03,969
i thought it was spiked from the buffy

994
00:40:01,179 --> 00:40:05,949
universe i said hi spike and just cuz he

995
00:40:03,969 --> 00:40:07,838
had it's like he wasn't he wasn't so

996
00:40:05,949 --> 00:40:09,759
happy but he understood yeah so if you

997
00:40:07,838 --> 00:40:12,159
are going to say good costume to someone

998

00:40:09,760 --> 00:40:15,670
make sure that they are who you think

999
00:40:12,159 --> 00:40:17,828
they are so here's that story folks if

1000
00:40:15,670 --> 00:40:21,630
you have a choice in your city to go to

1001
00:40:17,829 --> 00:40:24,400
a new age festival or a fantasy sci fi

1002
00:40:21,630 --> 00:40:27,039
fantasy bites i buy all the way a lot

1003
00:40:24,400 --> 00:40:29,410
more fun a lot more good-natured and a

1004
00:40:27,039 --> 00:40:31,599
lot more costumes and where else could

1005
00:40:29,409 --> 00:40:32,980
do wear a spaceballs badge like i have

1006
00:40:31,599 --> 00:40:34,450
an original one from the movie bought it

1007
00:40:32,980 --> 00:40:35,798
in the foyer on the way out and have

1008
00:40:34,449 --> 00:40:37,000
like five or six people comment on it

1009
00:40:35,798 --> 00:40:38,259
normally you'd wear it and people would

1010
00:40:37,000 --> 00:40:39,699
think I it might be a description of a

1011
00:40:38,260 --> 00:40:41,528
body part or something like that you

1012
00:40:39,699 --> 00:40:43,358

bought that when spaceballs came out the

1013

00:40:41,528 --> 00:40:44,949

movie really yeah because bit and the

1014

00:40:43,358 --> 00:40:46,568

way they did all the space sports

1015

00:40:44,949 --> 00:40:49,088

merchandise is anyone who's seen the

1016

00:40:46,568 --> 00:40:50,650

movie the mel brooks movie basically

1017

00:40:49,088 --> 00:40:52,000

they're making jokes about merchandise

1018

00:40:50,650 --> 00:40:52,920

all the way through and when you went

1019

00:40:52,000 --> 00:40:54,869

into the movie

1020

00:40:52,920 --> 00:40:56,430

the merchandise area was hidden so you

1021

00:40:54,869 --> 00:40:57,869

didn't realize it was there so the joke

1022

00:40:56,429 --> 00:40:59,849

wasn't and then when you came out you

1023

00:40:57,869 --> 00:41:01,440

see a great big space balls merchandise

1024

00:40:59,849 --> 00:41:03,150

things so they didn't blow the gag early

1025

00:41:01,440 --> 00:41:04,950

on it was quite well done and all I

1026

00:41:03,150 --> 00:41:06,900

could afford was a badge well you did

1027
00:41:04,949 --> 00:41:08,849
well and I'm glad to see you still have

1028
00:41:06,900 --> 00:41:11,910
it because I have seen no other

1029
00:41:08,849 --> 00:41:14,819
spaceballs memorabilia here at all hmm

1030
00:41:11,909 --> 00:41:16,199
and I think I like baiting Richard

1031
00:41:14,820 --> 00:41:18,900
questions like this so you're saying

1032
00:41:16,199 --> 00:41:21,239
that there's more um scientific thinking

1033
00:41:18,900 --> 00:41:23,519
and reason at a sci-fi convention then

1034
00:41:21,239 --> 00:41:24,869
there is at a new age convention what

1035
00:41:23,519 --> 00:41:27,199
I'm saying is that there is more

1036
00:41:24,869 --> 00:41:29,940
scientific thinking and reach the reason

1037
00:41:27,199 --> 00:41:31,500
yes absolutely of course absolutely i

1038
00:41:29,940 --> 00:41:33,150
mean again a lot of these people are

1039
00:41:31,500 --> 00:41:35,820
probably geeky nerds a lot of them are

1040
00:41:33,150 --> 00:41:37,680
housewives and housing husbands and sons

1041
00:41:35,820 --> 00:41:39,480
and daughters and all the rest of it but

1042
00:41:37,679 --> 00:41:42,059
they're all in just enjoying their

1043
00:41:39,480 --> 00:41:43,559
escapism their fantasy and look one

1044
00:41:42,059 --> 00:41:45,389
final point i'd like to make you because

1045
00:41:43,559 --> 00:41:46,829
there are many feminists to listen to

1046
00:41:45,389 --> 00:41:49,049
the show that are some time a little bit

1047
00:41:46,829 --> 00:41:52,590
annoyed with the fact that a lot of the

1048
00:41:49,050 --> 00:41:54,000
much susceptible guys but the fan base

1049
00:41:52,590 --> 00:41:54,960
like they get quite excited when women

1050
00:41:54,000 --> 00:41:56,309
get involved in the whole thing just

1051
00:41:54,960 --> 00:41:58,380
like oh hey there's women involved you

1052
00:41:56,309 --> 00:42:00,329
know and as the whole eye candy issue

1053
00:41:58,380 --> 00:42:01,680
which is the problem and that's come up

1054
00:42:00,329 --> 00:42:02,940
once or twice when I've been talking to

1055

00:42:01,679 --> 00:42:04,169
people he goes to they're really great

1056
00:42:02,940 --> 00:42:05,760
the women are coming along here in the

1057
00:42:04,170 --> 00:42:07,139
wild costumes and I've had the correct

1058
00:42:05,760 --> 00:42:08,490
them and say well it's great that the

1059
00:42:07,139 --> 00:42:09,690
women are coming along because you want

1060
00:42:08,489 --> 00:42:12,299
everybody to be part of this community

1061
00:42:09,690 --> 00:42:13,889
and I could see why feminists would get

1062
00:42:12,300 --> 00:42:15,870
to be annoyed by that do you think the

1063
00:42:13,889 --> 00:42:19,289
feminists just being pedantic Richard I

1064
00:42:15,869 --> 00:42:21,329
think that is a problem well that's a

1065
00:42:19,289 --> 00:42:23,550
really good question because just before

1066
00:42:21,329 --> 00:42:27,509
on our way you here to UM get these

1067
00:42:23,550 --> 00:42:29,039
glorious sagio chips or eating I noticed

1068
00:42:27,510 --> 00:42:31,770
a couple of guys dressed up from the

1069
00:42:29,039 --> 00:42:33,659

movie 600 there's a 300 we have the

1070

00:42:31,769 --> 00:42:35,610

Spartan warriors are the hots partners

1071

00:42:33,659 --> 00:42:38,190

yeah now there are some buff guys

1072

00:42:35,610 --> 00:42:39,960

wearing hardly anything at all and then

1073

00:42:38,190 --> 00:42:42,210

you walk a few paces on and you see some

1074

00:42:39,960 --> 00:42:44,519

women dressed up like vampires wearing

1075

00:42:42,210 --> 00:42:46,079

short shorts that are shorter than the

1076

00:42:44,519 --> 00:42:48,719

shorts you've ever seen in your life so

1077

00:42:46,079 --> 00:42:51,000

I think it goes both ways I really do

1078

00:42:48,719 --> 00:42:53,799

yes there's some eye candy around here

1079

00:42:51,000 --> 00:42:56,079

but there's male and female I can

1080

00:42:53,800 --> 00:42:57,220

look at how look and look we're just on

1081

00:42:56,079 --> 00:42:59,769

the way out and I bumped into a couple

1082

00:42:57,219 --> 00:43:02,049

actual skeptic zone listeners as far as

1083

00:42:59,769 --> 00:43:04,780

we know they're both of them are here um

1084
00:43:02,050 --> 00:43:08,950
no I know is it something we can do with

1085
00:43:04,780 --> 00:43:10,960
the show to make it any better don't say

1086
00:43:08,949 --> 00:43:13,389
keep me nan okay then what they all that

1087
00:43:10,960 --> 00:43:15,250
oh I'll angle at a different way that's

1088
00:43:13,389 --> 00:43:17,319
a very ABC question to ask people a

1089
00:43:15,250 --> 00:43:21,039
tough one I'm watch your favorite bit of

1090
00:43:17,320 --> 00:43:22,960
it oh man this is the point where I

1091
00:43:21,039 --> 00:43:24,670
admit have just re-watched three

1092
00:43:22,960 --> 00:43:25,750
listening to 300 episodes of skeptics

1093
00:43:24,670 --> 00:43:28,510
guard the universe and now I'm

1094
00:43:25,750 --> 00:43:31,300
desperately trying to scroll back like

1095
00:43:28,510 --> 00:43:33,550
what no wrong skeptic we're now we don't

1096
00:43:31,300 --> 00:43:35,920
do fact or fiction now we don't do the

1097
00:43:33,550 --> 00:43:37,360
fact that fiction good yeah well is

1098
00:43:35,920 --> 00:43:38,800
there something you'd like to see us get

1099
00:43:37,360 --> 00:43:40,690
involved in the show or something or is

1100
00:43:38,800 --> 00:43:42,310
it although actually is somehow have we

1101
00:43:40,690 --> 00:43:43,570
actually taught you anything at all is

1102
00:43:42,309 --> 00:43:46,960
there anything you do this from is

1103
00:43:43,570 --> 00:43:49,350
something um all around 11 lane cove and

1104
00:43:46,960 --> 00:43:51,909
there's ear candling signs up everywhere

1105
00:43:49,349 --> 00:43:53,889
and I can't get groceries without

1106
00:43:51,909 --> 00:43:56,109
walking past ear candling science is is

1107
00:43:53,889 --> 00:43:57,779
it anything we can do about this funny

1108
00:43:56,110 --> 00:44:01,630
you should ask funny you should ask

1109
00:43:57,780 --> 00:44:03,040
skeptics a man a skeptic lady doctor 'he

1110
00:44:01,630 --> 00:44:05,740
is about to do a report for today

1111
00:44:03,039 --> 00:44:07,900
tonight on ear candles and just that's

1112

00:44:05,739 --> 00:44:09,159
that's really grass so like most kept

1113
00:44:07,900 --> 00:44:10,389
except their own whoo that's yours

1114
00:44:09,159 --> 00:44:11,980
that's the one that annoys you the most

1115
00:44:10,389 --> 00:44:13,929
is it you can what about setting fire to

1116
00:44:11,980 --> 00:44:15,340
you bum that's just as relevant the one

1117
00:44:13,929 --> 00:44:16,629
that annoys me the most is applied

1118
00:44:15,340 --> 00:44:18,430
kinesiology but i have a bit of a

1119
00:44:16,630 --> 00:44:22,539
personal history with that one because

1120
00:44:18,429 --> 00:44:24,879
sir your orthodontist no no my

1121
00:44:22,539 --> 00:44:26,710
orthodontist iridology and applied

1122
00:44:24,880 --> 00:44:29,440
kinesiology but my mother does applied

1123
00:44:26,710 --> 00:44:32,349
kinesiology as well ah must be great at

1124
00:44:29,440 --> 00:44:33,880
Christmas dinner oh yeah here's my

1125
00:44:32,349 --> 00:44:35,920
daughter the skip that she thinks I'm a

1126
00:44:33,880 --> 00:44:37,660

wacko thanks Irma Kratts no she actually

1127

00:44:35,920 --> 00:44:41,789

hasn't said it outright it's like oh you

1128

00:44:37,659 --> 00:44:41,789

think vaccines work and like oj o

1129

00:44:41,849 --> 00:44:48,670

vaccines in secrets within their you

1130

00:44:46,329 --> 00:44:49,960

know you know other kid I'm a bit of

1131

00:44:48,670 --> 00:44:51,099

believer in the crackpot when someone

1132

00:44:49,960 --> 00:44:54,670

says something like oh you think

1133

00:44:51,099 --> 00:44:57,429

vaccines work it's like it's like oh yes

1134

00:44:54,670 --> 00:44:59,289

yes we do know what that gravity thing

1135

00:44:57,429 --> 00:45:01,179

is really catching on as well gravity is

1136

00:44:59,289 --> 00:45:04,690

a real thing that she believes in

1137

00:45:01,179 --> 00:45:06,399

gravity so it seems like it's just the

1138

00:45:04,690 --> 00:45:08,500

germ theory of medicine she doesn't

1139

00:45:06,400 --> 00:45:10,869

believe in gravity is fine send it now

1140

00:45:08,500 --> 00:45:12,280

the point that I was making we mentioned

1141
00:45:10,869 --> 00:45:15,190
Richard earlier is that there possibly

1142
00:45:12,280 --> 00:45:17,230
is more scientific thinking and reason

1143
00:45:15,190 --> 00:45:19,150
going on here at a sci-fi convention

1144
00:45:17,230 --> 00:45:21,760
than you would find at a new age

1145
00:45:19,150 --> 00:45:23,889
convention perhaps yes oh my goodness

1146
00:45:21,760 --> 00:45:25,390
I've been to in one of the new aide like

1147
00:45:23,889 --> 00:45:27,609
the mind body while the thing that was

1148
00:45:25,389 --> 00:45:31,029
that botany bay before and it's just

1149
00:45:27,610 --> 00:45:35,140
crystals and incense and make yourself

1150
00:45:31,030 --> 00:45:38,080
feel better when no just just there they

1151
00:45:35,139 --> 00:45:39,429
are selling you know I'm you know swords

1152
00:45:38,079 --> 00:45:41,049
and different shapes for a few few

1153
00:45:39,429 --> 00:45:42,609
hundred dollars apiece that look like

1154
00:45:41,050 --> 00:45:44,590
they'll fall apart the first time you

1155
00:45:42,610 --> 00:45:45,789
know you one sheet them too hard and

1156
00:45:44,590 --> 00:45:47,559
that their people are still buying them

1157
00:45:45,789 --> 00:45:52,570
so I don't know but but no one intends

1158
00:45:47,559 --> 00:45:54,820
you to use them in a battle no no that's

1159
00:45:52,570 --> 00:45:56,710
really cute a fake cosplay battle maybe

1160
00:45:54,820 --> 00:45:58,360
yeah and they're not coming planning to

1161
00:45:56,710 --> 00:45:59,769
those safe there's a few sci-fi things

1162
00:45:58,360 --> 00:46:02,460
about but not as many as I kind of

1163
00:45:59,769 --> 00:46:04,530
expected there's no

1164
00:46:02,460 --> 00:46:06,510
no discovery channel or any of that kind

1165
00:46:04,530 --> 00:46:07,680
of business are there are five channels

1166
00:46:06,510 --> 00:46:09,630
of it but I look I'll give you the

1167
00:46:07,679 --> 00:46:11,519
farewell greeting from here it fits in

1168
00:46:09,630 --> 00:46:13,200
it's a live long i need some jelly

1169

00:46:11,519 --> 00:46:17,489
babies that gets Doctor Who n star trek

1170
00:46:13,199 --> 00:46:20,358
in together see you later guys they are

1171
00:46:17,489 --> 00:46:20,358
the listeners see you

1172
00:46:36,559 --> 00:46:43,640
thank you for listening to the skeptic

1173
00:46:39,239 --> 00:46:48,679
zone right that's it let me see my

1174
00:46:43,639 --> 00:46:54,858
suitcase back here yep passport check

1175
00:46:48,679 --> 00:46:59,518
trouser shirt toothbrush must accessor

1176
00:46:54,858 --> 00:47:01,920
proto frogs Oh skip these badges oh it's

1177
00:46:59,518 --> 00:47:04,649
all falling up I'm ready I'm going to

1178
00:47:01,920 --> 00:47:06,539
zip up that bag in a minute after i

1179
00:47:04,650 --> 00:47:08,910
clean up the mess and head straight out

1180
00:47:06,539 --> 00:47:10,949
for the airport catch that plane to tam

1181
00:47:08,909 --> 00:47:13,170
las vegas hope to see you there and

1182
00:47:10,949 --> 00:47:15,568
we'll be getting lots of great reports

1183
00:47:13,170 --> 00:47:21,059

lots of interviews for upcoming episodes

1184

00:47:15,568 --> 00:47:23,400

of the skeptic zone but until then this

1185

00:47:21,059 --> 00:47:27,650

is Richard Saunders signing off as he

1186

00:47:23,400 --> 00:47:27,650

runs out the door from Sydney Australia

1187

00:47:29,690 --> 00:47:37,079

you've been listening to the skeptic

1188

00:47:32,099 --> 00:47:40,859

zone visit our website at [www skeptics](http://www.skeptics)

1189

00:47:37,079 --> 00:47:43,789

on TV the comments contacts and extra

1190

00:47:40,858 --> 00:47:43,788

video reports