

**SKEPTIC  
ZONE**



**THINKING CAPS  
MUST BE WORN  
IN THIS AREA**

The  
Podcast  
from  
Australia  
for  
Science  
and  
Reason

[www.skepticzone.tv](http://www.skepticzone.tv)

1  
00:00:20,450 --> 00:00:09,520  
welcome to the skeptic zone the podcast

2  
00:00:26,599 --> 00:00:23,089  
hello and welcome to the skeptic zone

3  
00:00:29,240 --> 00:00:26,609  
episode number 81 for the seventh of may

4  
00:00:33,860 --> 00:00:29,250  
2010 Richard Saunders here with you once

5  
00:00:35,720 --> 00:00:33,870  
again and today show well dr. Rachel and

6  
00:00:38,750 --> 00:00:35,730  
I went along to a very interesting

7  
00:00:43,130 --> 00:00:38,760  
initiative here in Sydney art think and

8  
00:00:45,710 --> 00:00:43,140  
play mrs. by the culture at work culture

9  
00:00:49,490 --> 00:00:45,720  
at work interesting interplay with

10  
00:00:51,889 --> 00:00:49,500  
science and art and we popped long the

11  
00:00:55,340 --> 00:00:51,899  
other night and we had a talk by Adam

12  
00:00:58,369 --> 00:00:55,350  
Hamlin about his research into neurons

13  
00:01:01,729 --> 00:00:58,379

and lots of interesting pictures

14

00:01:06,290 --> 00:01:01,739

followed by a talk by melody Lord about

15

00:01:09,200 --> 00:01:06,300

her embroidery based on pictures of

16

00:01:11,870 --> 00:01:09,210

neurons from the brain and then we saw

17

00:01:14,719 --> 00:01:11,880

her embroidery that's coming up we have

18

00:01:17,779 --> 00:01:14,729

a little bit of the talk followed by an

19

00:01:20,809 --> 00:01:17,789

interview with Adam and melody after

20

00:01:22,609 --> 00:01:20,819

that the think tank very funny thing

21

00:01:25,520 --> 00:01:22,619

tank this week I think with a very

22

00:01:27,740 --> 00:01:25,530

special bus announcement now a fewer

23

00:01:29,389 --> 00:01:27,750

little notes before we get started thank

24

00:01:33,109 --> 00:01:29,399

you for everybody who turned up to

25

00:01:35,749 --> 00:01:33,119

Sydney skeptics in the pub elder in the

26  
00:01:38,209 --> 00:01:35,759  
last week what a wonderfully big turnout

27  
00:01:40,910 --> 00:01:38,219  
it was and thanks may not for coming

28  
00:01:44,030 --> 00:01:40,920  
along to Australian skeptics are working

29  
00:01:46,130 --> 00:01:44,040  
hard on the details of Tam Australia

30  
00:01:48,889 --> 00:01:46,140  
don't forget that coming up at the end

31  
00:01:50,179 --> 00:01:48,899  
of the year more announcements on that I

32  
00:01:52,149 --> 00:01:50,189  
think we might even have some

33  
00:01:54,590 --> 00:01:52,159  
announcements during the think tank of

34  
00:01:57,139 --> 00:01:54,600  
course members of Australian skeptics

35  
00:02:01,270 --> 00:01:57,149  
and the skeptics own podcast will be

36  
00:02:05,090 --> 00:02:01,280  
winging over to Las Vegas to join tam

37  
00:02:07,429 --> 00:02:05,100  
Vegas with James Randi and all our

38  
00:02:09,499 --> 00:02:07,439

friends if you're going to the amazing

39

00:02:11,750 --> 00:02:09,509

meeting this year in Las Vegas make sure

40

00:02:14,270 --> 00:02:11,760

you are come over and say hello and

41

00:02:16,370 --> 00:02:14,280

don't forget to check out the podcast

42

00:02:19,729 --> 00:02:16,380

from our very own Kyle Easter just the

43

00:02:24,050 --> 00:02:19,739

token skeptic you can find that at token

44

00:02:26,569 --> 00:02:24,060

skeptic dot org I don't know when Kylie

45

00:02:28,789 --> 00:02:26,579

sleeps I I honestly no not only is she a

46

00:02:32,390 --> 00:02:28,799

reporter for the skeptic zone that she

47

00:02:35,000 --> 00:02:32,400

has a very own podcast the token skeptic

48

00:02:37,520 --> 00:02:35,010

and look out for dr. ray cheese blog the

49

00:02:40,670 --> 00:02:37,530

skeptics book of poo poo and Kylie

50

00:02:43,880 --> 00:02:40,680

Sturgis blog pod black now you can find

51  
00:02:47,059 --> 00:02:43,890  
those simply by going to skeptics own TV

52  
00:02:49,339 --> 00:02:47,069  
and you'll see the links there an

53  
00:03:04,339 --> 00:02:49,349  
entertaining skipped exam for you this

54  
00:03:09,209 --> 00:03:06,780  
we take you now to piermont here

55  
00:03:13,440 --> 00:03:09,219  
instantly for an initiative from culture

56  
00:03:15,089 --> 00:03:13,450  
at work art think and play a brief

57  
00:03:17,880 --> 00:03:15,099  
excerpt from the talk given to us by

58  
00:03:21,119 --> 00:03:17,890  
Adam Hamlin about his research into

59  
00:03:22,890 --> 00:03:21,129  
brain cells followed by a brief excerpt

60  
00:03:26,160 --> 00:03:22,900  
from the talk given to us by artist

61  
00:03:28,289 --> 00:03:26,170  
melody Lord and after that an interview

62  
00:03:34,470 --> 00:03:28,299  
with both of them with dr. ohe and

63  
00:03:37,289 --> 00:03:34,480

myself further Iran's places we call

64

00:03:38,909 --> 00:03:37,299

your Genesis this is a great scientific

65

00:03:41,129 --> 00:03:38,919

story it's one of those stories where

66

00:03:43,080 --> 00:03:41,139

there was a long-held belief about how

67

00:03:46,020 --> 00:03:43,090

the brain boyfriend all the Sun was this

68

00:03:48,629 --> 00:03:46,030

date we had to change it like so this is

69

00:03:49,949 --> 00:03:48,639

she died with the okay so for a long

70

00:03:52,349 --> 00:03:49,959

time we thought the number of brain

71

00:03:53,399 --> 00:03:52,359

cells you were born with MZ may die

72

00:03:56,520 --> 00:03:53,409

throughout life and they were never

73

00:03:59,369 --> 00:03:56,530

regenerated and this is a picture I took

74

00:04:01,379 --> 00:03:59,379

of Iran's you know part of the brain

75

00:04:03,719 --> 00:04:01,389

called the hippocampus specifically the

76

00:04:05,280 --> 00:04:03,729

dentate gyrus meeting the truth and

77

00:04:07,559 --> 00:04:05,290

these are cells for two weeks old that

78

00:04:09,689 --> 00:04:07,569

have been born with integrated into the

79

00:04:11,219 --> 00:04:09,699

nervous system this is an early the

80

00:04:14,670 --> 00:04:11,229

privates involved in learning and memory

81

00:04:16,770 --> 00:04:14,680

function so like I said for a long time

82

00:04:20,279 --> 00:04:16,780

we didn't even think the neurogenesis

83

00:04:23,399 --> 00:04:20,289

happen in the brain 3983 it was first

84

00:04:25,290 --> 00:04:23,409

found in the bedroom so that all the

85

00:04:27,310 --> 00:04:25,300

Rockies in common of calling someone a

86

00:04:29,770 --> 00:04:27,320

bird brain I was ability like

87

00:04:32,020 --> 00:04:29,780

here in blue is all the neurons in the

88

00:04:33,640 --> 00:04:32,030

brain even read those shown here your

89

00:04:36,850 --> 00:04:33,650

arms that have been born in the bird

90

00:04:39,040 --> 00:04:36,860

brain so this is United 93 and by the

91

00:04:41,470 --> 00:04:39,050

early nineties your Genesis have been

92

00:04:44,830 --> 00:04:41,480

discovered in pretty much mammal species

93

00:04:46,540 --> 00:04:44,840

including the human brain so it doesn't

94

00:04:49,390 --> 00:04:46,550

happen everywhere in the ebit reacting

95

00:04:51,100 --> 00:04:49,400

to specific areas so bundled is called

96

00:04:53,260 --> 00:04:51,110

the subventricular zone around the

97

00:04:56,020 --> 00:04:53,270

ventricles the new year under born here

98

00:04:59,410 --> 00:04:56,030

my birth down and out into your factory

99

00:05:01,240 --> 00:04:59,420

bulbs so a sense of smell and stuff is

100

00:05:03,520 --> 00:05:01,250

always be neurons before mystic cells

101  
00:05:05,710 --> 00:05:03,530  
get exposed to the environment a

102  
00:05:07,720 --> 00:05:05,720  
lightweight two chemicals that are

103  
00:05:09,880 --> 00:05:07,730  
always getting turnovers relieve your

104  
00:05:12,280 --> 00:05:09,890  
arms coming into the or thank you got to

105  
00:05:14,710 --> 00:05:12,290  
keep our sensor so early there's also a

106  
00:05:16,710 --> 00:05:14,720  
secondary hook at the campus so this is

107  
00:05:18,940 --> 00:05:16,720  
what the original photo was taken off

108  
00:05:20,680 --> 00:05:18,950  
studies in your auntie morning of the

109  
00:05:23,170 --> 00:05:20,690  
campus this is an area that involved in

110  
00:05:25,120 --> 00:05:23,180  
learning and memory function so just

111  
00:05:28,660 --> 00:05:25,130  
quickly how this process happens we have

112  
00:05:30,910 --> 00:05:28,670  
a hold with stem cells hanging around in

113  
00:05:33,400 --> 00:05:30,920

the subventricular zone and in the other

114

00:05:35,500 --> 00:05:33,410

campus hello that much the time that the

115

00:05:38,910 --> 00:05:35,510

state's themselves but occasionally they

116

00:05:41,560 --> 00:05:38,920

get all these new precursor cells and

117

00:05:44,050 --> 00:05:41,570

what happens is about half of each user

118

00:05:49,480 --> 00:05:44,060

guide and over half of them can go on to

119

00:05:52,300 --> 00:05:49,490

form new neural cells of which is a lot

120

00:05:52,970 --> 00:05:52,310

of types they can become support cells a

121

00:05:55,340 --> 00:05:52,980

disaster

122

00:05:58,040 --> 00:05:55,350

we go down the sides astrocytes are

123

00:05:59,510 --> 00:05:58,050

involved in transferring images from the

124

00:06:01,130 --> 00:05:59,520

blood the neurons because the neurons

125

00:06:03,800 --> 00:06:01,140

have actually come into contact with the

126

00:06:05,780 --> 00:06:03,810

blood where is the oligodendrocytes I

127

00:06:07,870 --> 00:06:05,790

know these form an insulation wire

128

00:06:10,700 --> 00:06:07,880

around yours to help fast transmission

129

00:06:14,330 --> 00:06:10,710

and as percentage of them can also

130

00:06:16,960 --> 00:06:14,340

become neurons so in the lab this is the

131

00:06:19,660 --> 00:06:16,970

process we use to study euro Genesis

132

00:06:22,750 --> 00:06:19,670

usually harvest shelves from the

133

00:06:24,770 --> 00:06:22,760

hippocampus usually from a mouse

134

00:06:27,500 --> 00:06:24,780

differentiated cells we grow them up in

135

00:06:30,410 --> 00:06:27,510

a culture dish and the way we can we can

136

00:06:31,550 --> 00:06:30,420

say the process of what happens and what

137

00:06:34,100 --> 00:06:31,560

sort of things can we do to try and

138

00:06:36,530 --> 00:06:34,110

stimulate neurogenesis areas of Brian

139

00:06:39,470 --> 00:06:36,540

and a few things we found is that any

140

00:06:42,590 --> 00:06:39,480

present status some hormones can

141

00:06:45,290 --> 00:06:42,600

stimulate neurogenesis as well after

142

00:06:47,090 --> 00:06:45,300

ischemia is after a brain trauma such as

143

00:06:49,490 --> 00:06:47,100

a stroke can also give an upregulation

144

00:06:54,520 --> 00:06:49,500

of your chances potentially is a way of

145

00:06:56,690 --> 00:06:54,530

I'm trying to make itself also following

146

00:06:59,000 --> 00:06:56,700

voluntary exercise which is really

147

00:07:01,190 --> 00:06:59,010

important if you force do the exercise

148

00:07:09,370 --> 00:07:01,200

of danger than your team hasn't been a

149

00:07:15,290 --> 00:07:11,990

one of the things I love about linking

150

00:07:19,070 --> 00:07:15,300

of textiles that you have such wonderful

151  
00:07:21,740 --> 00:07:19,080  
choice of tactile and visually beautiful

152  
00:07:25,309 --> 00:07:21,750  
materials to express what we're trying

153  
00:07:29,420 --> 00:07:25,319  
to say and I just love that which I

154  
00:07:30,920 --> 00:07:29,430  
wanted to seek them like some of the

155  
00:07:34,480 --> 00:07:30,930  
thread ladies were hand dyed silk

156  
00:07:37,700 --> 00:07:34,490  
threads which have gave a more organic

157  
00:07:40,279 --> 00:07:37,710  
quality to the color and sometimes they

158  
00:07:42,290 --> 00:07:40,289  
were just ordinary embroidery cotton

159  
00:07:45,559 --> 00:07:42,300  
like those funds which gave a bit more

160  
00:07:48,920 --> 00:07:45,569  
vibrant time and the thing that I found

161  
00:07:53,180 --> 00:07:48,930  
you doing the works is that the works

162  
00:07:55,070 --> 00:07:53,190  
developed differently you have to think

163  
00:07:57,800 --> 00:07:55,080

about what you want to achieve when you

164

00:08:01,450 --> 00:07:57,810

start choosing materials plan out your

165

00:08:04,339 --> 00:08:01,460

process but other goes along the

166

00:08:07,790 --> 00:08:04,349

materials teach you different things

167

00:08:10,100 --> 00:08:07,800

about what you want to do next or

168

00:08:12,920 --> 00:08:10,110

where the work is going often you end up

169

00:08:14,040 --> 00:08:12,930

a completely different result in a bit

170

00:08:19,950 --> 00:08:14,050

then you really thought

171

00:08:26,879 --> 00:08:19,960

to get them started this is bit more the

172

00:08:29,369 --> 00:08:26,889

particle this work was done with French

173

00:08:32,219 --> 00:08:29,379

knots and little bits of Panem satin

174

00:08:34,709 --> 00:08:32,229

stitch and it represents 40 hours of

175

00:08:38,190 --> 00:08:34,719

stitching I know some people will ask

176  
00:08:41,519 --> 00:08:38,200  
that i found it a very romantic practice

177  
00:08:44,550 --> 00:08:41,529  
to sit and french not a french not a

178  
00:08:48,269 --> 00:08:44,560  
french lot to choose the next color to

179  
00:08:49,949 --> 00:08:48,279  
work with to fill the space which I did

180  
00:08:55,079 --> 00:08:49,959  
all visually by checking back against

181  
00:08:57,480 --> 00:08:55,089  
the original picture and I thought a lot

182  
00:08:59,340 --> 00:08:57,490  
about what we know about the brain and

183  
00:09:00,870 --> 00:08:59,350  
what we don't know about the brain which

184  
00:09:04,970 --> 00:09:00,880  
in my case is a lot less than what

185  
00:09:08,310 --> 00:09:04,980  
elements that I think that any art form

186  
00:09:13,440 --> 00:09:08,320  
whether it's smart metal on paper music

187  
00:09:15,540 --> 00:09:13,450  
dance modern media or embroidery is a

188  
00:09:18,810 --> 00:09:15,550

way of expressing knowledge and search

189

00:09:24,819 --> 00:09:18,820

for knowledge and that's how I feel that

190

00:09:29,840 --> 00:09:27,439

well we're here in Sydney in piermont

191

00:09:33,530 --> 00:09:29,850

and the exhibition is called kingdom of

192

00:09:35,540 --> 00:09:33,540

the blind it's a culture at work project

193

00:09:39,259 --> 00:09:35,550

which is a wonderful idea of combining

194

00:09:40,850 --> 00:09:39,269

science with art dr. AG it is and I'm

195

00:09:43,249 --> 00:09:40,860

we're with our very special guests

196

00:09:45,530 --> 00:09:43,259

melody Lord hello melody hello and

197

00:09:47,540 --> 00:09:45,540

melody is the artist here tonight who

198

00:09:50,329 --> 00:09:47,550

has done all the embroidery which was

199

00:09:52,970 --> 00:09:50,339

based on dr. Adam Hamlin's wonderful

200

00:09:55,879 --> 00:09:52,980

neuroscience pictures hi Adam I write to

201  
00:09:58,550 --> 00:09:55,889  
you again good to see you again don't in

202  
00:10:00,769 --> 00:09:58,560  
Sydney this far yeah so can you guys

203  
00:10:03,470 --> 00:10:00,779  
tell us a little bit about how this came

204  
00:10:05,389 --> 00:10:03,480  
to be how is it that a scientist and an

205  
00:10:08,689 --> 00:10:05,399  
artist are working together on such a

206  
00:10:11,720 --> 00:10:08,699  
great project culture at work is all

207  
00:10:14,990 --> 00:10:11,730  
about improving science education using

208  
00:10:18,290 --> 00:10:15,000  
art and creativity to encourage kids and

209  
00:10:22,460 --> 00:10:18,300  
adults to engage with the science so

210  
00:10:24,949 --> 00:10:22,470  
that's how it combines that if you if

211  
00:10:26,990 --> 00:10:24,959  
you think through the science while

212  
00:10:31,490 --> 00:10:27,000  
you're engaging the creative part of

213  
00:10:36,889 --> 00:10:31,500

your brain it tends to go in better that

214

00:10:38,540 --> 00:10:36,899

that's the later now Adam it went in

215

00:10:40,639 --> 00:10:38,550

better for me tonight I think it was a

216

00:10:42,259 --> 00:10:40,649

wonderful presentation that I think

217

00:10:44,990 --> 00:10:42,269

substrate what I try to do with my

218

00:10:47,780 --> 00:10:45,000

presentation tonight was really show how

219

00:10:49,970 --> 00:10:47,790

science and art can be a really similar

220

00:10:51,559 --> 00:10:49,980

process remember trying to gather data

221

00:10:53,360 --> 00:10:51,569

in neuroscience when we take these

222

00:10:56,329 --> 00:10:53,370

beautiful images what we're mostly

223

00:10:59,090 --> 00:10:56,339

trying to do is gather data but a really

224

00:11:00,920 --> 00:10:59,100

good product of that is the making of

225

00:11:02,290 --> 00:11:00,930

these beautiful images that's really

226

00:11:05,240 --> 00:11:02,300

nice about being able to inspire

227

00:11:06,889 --> 00:11:05,250

melodies embroideries tonight and they

228

00:11:09,439 --> 00:11:06,899

just look fantastic hopefully we'll have

229

00:11:11,300 --> 00:11:09,449

some photos up of them somewhere you're

230

00:11:14,120 --> 00:11:11,310

doing them self pictures just by

231

00:11:15,310 --> 00:11:14,130

themselves a staggered out just almost

232

00:11:18,850 --> 00:11:15,320

something likes

233

00:11:21,460 --> 00:11:18,860

the wonderful organic shapes and it does

234

00:11:23,260 --> 00:11:21,470

remind one of the cosmos and galaxies

235

00:11:24,940 --> 00:11:23,270

absolutely sometimes when you're looking

236

00:11:26,590 --> 00:11:24,950

down a microscope it really reminds me

237

00:11:28,930 --> 00:11:26,600

of looking through a telescope it's

238

00:11:31,960 --> 00:11:28,940

amazing that the similar shapes inside

239

00:11:33,880 --> 00:11:31,970

our brain and the processes is also out

240

00:11:35,560 --> 00:11:33,890

there in the universe and speaking of

241

00:11:37,600 --> 00:11:35,570

telescopes Adam isn't that how you guys

242

00:11:39,130 --> 00:11:37,610

kind of mesh and sort of started this

243

00:11:41,880 --> 00:11:39,140

collaboration that's right about five

244

00:11:46,630 --> 00:11:41,890

years ago melody and I meant doing adult

245

00:11:48,880 --> 00:11:46,640

education course in astronomy and then

246

00:11:51,070 --> 00:11:48,890

we sort of lost contact when I moved up

247

00:11:54,640 --> 00:11:51,080

to Queensland to start working at QB I

248

00:11:57,340 --> 00:11:54,650

and then melody heard me interviewed the

249

00:11:58,570 --> 00:11:57,350

doctor a German we came up for many guys

250

00:12:00,490 --> 00:11:58,580

coming for the Australian skeptics

251  
00:12:04,240 --> 00:12:00,500  
conference and dr. Reiter did the tour

252  
00:12:07,590 --> 00:12:04,250  
and nobody sent me leave our guys was so

253  
00:12:11,290 --> 00:12:07,600  
lovely to hit your voice again together

254  
00:12:13,240 --> 00:12:11,300  
and I know this lady Cheryl that would

255  
00:12:14,770 --> 00:12:13,250  
be really interested in doing this

256  
00:12:16,750 --> 00:12:14,780  
science our project I think we should

257  
00:12:19,270 --> 00:12:16,760  
get together so Mellie you're a skeptic

258  
00:12:21,340 --> 00:12:19,280  
zona I am I listen to it while I'm doing

259  
00:12:23,500 --> 00:12:21,350  
embroidery well there you go that's

260  
00:12:24,940 --> 00:12:23,510  
fantastic and let's just step over now

261  
00:12:26,770 --> 00:12:24,950  
and we can discuss a few of the

262  
00:12:28,510 --> 00:12:26,780  
wonderful pieces of embroidery that are

263  
00:12:31,360 --> 00:12:28,520

hanging here on the wall in this

264

00:12:33,490 --> 00:12:31,370

exhibition this one let me start with

265

00:12:37,690 --> 00:12:33,500

this this one in the middle here which

266

00:12:40,000 --> 00:12:37,700

is just just a burst of wonderful colors

267

00:12:43,870 --> 00:12:40,010

and can you explain that one for that

268

00:12:46,180 --> 00:12:43,880

one is based on an NRI image of a

269

00:12:49,360 --> 00:12:46,190

mouse-brain showing the axonal

270

00:12:52,570 --> 00:12:49,370

connections and it's worked in French

271

00:12:54,580 --> 00:12:52,580

knots to represent the each French not

272

00:12:58,320 --> 00:12:54,590

represents a bulb in the original image

273

00:13:01,380 --> 00:12:58,330

that shows a large or small connection

274

00:13:04,480 --> 00:13:01,390

that was the original image was by

275

00:13:08,020 --> 00:13:04,490

random more drink at Queensland brain

276

00:13:10,330 --> 00:13:08,030

institute and took about 16 hours in the

277

00:13:12,490 --> 00:13:10,340

MRI machine to make so it's very

278

00:13:16,990 --> 00:13:12,500

intricate lots of friends nods it took

279

00:13:22,340 --> 00:13:17,000

me about 40 hours to stitch it and what

280

00:13:28,620 --> 00:13:25,950

so one of the reasons we take these

281

00:13:30,390 --> 00:13:28,630

really high resolution to MRI images is

282

00:13:33,300 --> 00:13:30,400

we're trying to capture disease and its

283

00:13:35,430 --> 00:13:33,310

really early processes so if we ever

284

00:13:38,220 --> 00:13:35,440

going to be able to treat your

285

00:13:39,720 --> 00:13:38,230

degenerative diseases or diseases of the

286

00:13:41,490 --> 00:13:39,730

brain we need to be able to detect them

287

00:13:43,610 --> 00:13:41,500

early so we use these really

288

00:13:47,220 --> 00:13:43,620

high-powered MRI images to see if we can

289

00:13:49,320 --> 00:13:47,230

capture the very early stages of disease

290

00:13:51,900 --> 00:13:49,330

and we get these really beautiful and

291

00:13:53,970 --> 00:13:51,910

intricate and high-resolution images of

292

00:13:56,450 --> 00:13:53,980

the brain and we were able to effect a

293

00:13:58,530 --> 00:13:56,460

small amount of sellers in early disease

294

00:13:59,970 --> 00:13:58,540

so you were saying during your

295

00:14:02,460 --> 00:13:59,980

presentation this is one of the most

296

00:14:05,210 --> 00:14:02,470

powerful MRIs yeah in the southern

297

00:14:07,410 --> 00:14:05,220

hannahs this is the most powerful MRI

298

00:14:11,100 --> 00:14:07,420

machine in the southern hemisphere it's

299

00:14:12,240 --> 00:14:11,110

a 16-point for Tesla for the physicists

300

00:14:16,730 --> 00:14:12,250

out there though know what I'm talking

301

00:14:20,670 --> 00:14:16,740

about it's one of us it's one of them

302

00:14:25,140 --> 00:14:20,680

it's one of the top five in the world

303

00:14:27,360 --> 00:14:25,150

now this is an experimental machine so

304

00:14:29,340 --> 00:14:27,370

to be able to reach something in this

305

00:14:31,770 --> 00:14:29,350

machine you need to be less than six

306

00:14:34,050 --> 00:14:31,780

centimeters be and you need to stay

307

00:14:37,470 --> 00:14:34,060

completely still for 16 hours so it's

308

00:14:39,270 --> 00:14:37,480

purely an experimental machine so in the

309

00:14:40,800 --> 00:14:39,280

future when the technology catches up

310

00:14:43,590 --> 00:14:40,810

we'll be able to do these type of

311

00:14:45,000 --> 00:14:43,600

analysis on the human brain and if

312

00:14:46,440 --> 00:14:45,010

people want to see the pictures we're

313

00:14:48,630 --> 00:14:46,450

going to put them up you have a blog

314

00:14:49,920 --> 00:14:48,640

melody which will give the address later

315

00:14:51,690 --> 00:14:49,930

but we'll put the pictures up for our

316

00:14:53,790 --> 00:14:51,700

listeners let's discuss this one which

317

00:14:55,680 --> 00:14:53,800

is right next to it which I must admit

318

00:14:57,120 --> 00:14:55,690

if you had this in your presentation I

319

00:15:00,120 --> 00:14:57,130

had to duck out to feed the meter

320

00:15:02,670 --> 00:15:00,130

unfortunately it wasn't excellent but as

321

00:15:05,070 --> 00:15:02,680

soon as I walked round the corner human

322

00:15:07,230 --> 00:15:05,080

and I had a look at this embroidery the

323

00:15:09,260 --> 00:15:07,240

first thing that struck me was a mouse

324

00:15:12,540 --> 00:15:09,270

maze of course and that's the whole idea

325

00:15:14,580 --> 00:15:12,550

yes it actually started with one of the

326

00:15:15,630 --> 00:15:14,590

other words which will probably discuss

327

00:15:17,550 --> 00:15:15,640

later

328

00:15:20,190 --> 00:15:17,560

the big brain structure called the

329

00:15:22,580 --> 00:15:20,200

dentate gyrus which looks a little bit

330

00:15:24,780 --> 00:15:22,590

like a tail as well as the tooth and

331

00:15:27,480 --> 00:15:24,790

because it's from a mouse brain I was

332

00:15:28,740 --> 00:15:27,490

thinking about mice and tails and I

333

00:15:30,390 --> 00:15:28,750

remembered a book that I read as a

334

00:15:33,660 --> 00:15:30,400

teenager called flowers for algernon

335

00:15:38,610 --> 00:15:33,670

which is was very popular in the 1970s

336

00:15:41,250 --> 00:15:38,620

about a young man who with below-average

337

00:15:45,240 --> 00:15:41,260

intelligence who gets involved in an

338

00:15:48,900 --> 00:15:45,250

experiment becomes a genius the movie

339

00:15:50,670 --> 00:15:48,910

became super smart but yes and he had a

340

00:15:53,760 --> 00:15:50,680

friend called Algernon who was a mouse

341

00:15:56,370 --> 00:15:53,770

who had had the same process so it's

342

00:15:59,790 --> 00:15:56,380

totally fictional but it's a very moving

343

00:16:03,960 --> 00:15:59,800

story about the way intelligence works

344

00:16:05,520 --> 00:16:03,970

and about the way science works too they

345

00:16:07,650 --> 00:16:05,530

asked him what he thought about the

346

00:16:12,930 --> 00:16:07,660

future and he said a TV in every room he

347

00:16:14,910 --> 00:16:12,940

wasn't wrong so that's where I got the

348

00:16:16,770 --> 00:16:14,920

inspiration for the maze embroidery

349

00:16:21,090 --> 00:16:16,780

because I was thinking about mice and

350

00:16:23,160 --> 00:16:21,100

Tails and the tail of the mouse in Lewis

351

00:16:24,990 --> 00:16:23,170

Carroll's Alice in Wonderland where it

352

00:16:27,960 --> 00:16:25,000

goes in the shape of a tail down the

353

00:16:30,810 --> 00:16:27,970

page so there are lots of thoughts that

354

00:16:33,120 --> 00:16:30,820

went into that one but yes it's funny I

355

00:16:34,380 --> 00:16:33,130

mean it really does say a lot and you

356

00:16:36,180 --> 00:16:34,390

were saying before and one of the things

357

00:16:38,670 --> 00:16:36,190

I was commenting is I really like the

358

00:16:40,320 --> 00:16:38,680

story behind the artwork now let's just

359

00:16:44,070 --> 00:16:40,330

step over to the other side of the

360

00:16:45,960 --> 00:16:44,080

exhibition and I must admit I like them

361

00:16:49,260 --> 00:16:45,970

all but this one really did catch my

362

00:16:52,260 --> 00:16:49,270

attention because the little story

363

00:16:54,270 --> 00:16:52,270

involved it's like to discuss that what

364

00:16:56,100 --> 00:16:54,280

this one is based on the dentate gyrus

365

00:16:59,180 --> 00:16:56,110

in a mouse's brain it's one of Adam's

366

00:17:01,650 --> 00:16:59,190

images of neurogenesis or stillbirth

367

00:17:04,980 --> 00:17:01,660

which you can probably tell you more

368

00:17:08,990 --> 00:17:04,990

about but the idea of behind the image

369

00:17:11,699 --> 00:17:09,000

is that it's a fairly abstract

370

00:17:14,040 --> 00:17:11,709

representation of the way new brain

371

00:17:17,730 --> 00:17:14,050

cells grow and make connections in the

372

00:17:21,000 --> 00:17:17,740

brain tissue so the stitches around the

373

00:17:21,449 --> 00:17:21,010

tooth shaped or the tail shaped central

374

00:17:25,139 --> 00:17:21,459

part

375

00:17:27,449 --> 00:17:25,149

reach out towards the other cells in the

376

00:17:29,010 --> 00:17:27,459

brain which are depicted in the

377

00:17:32,250 --> 00:17:29,020

embroidery it also struck me as

378

00:17:34,830 --> 00:17:32,260

something almost like primitive cultures

379

00:17:37,049 --> 00:17:34,840

artwork can you see that what I mean yes

380

00:17:38,549 --> 00:17:37,059

with the patterns and everything there

381

00:17:40,909 --> 00:17:38,559

but I love the fact that it's telling a

382

00:17:43,019 --> 00:17:40,919

story as well well a lot of embroidery

383

00:17:47,430 --> 00:17:43,029

traditionally comes from that background

384

00:17:49,860 --> 00:17:47,440

it starts as a natural form which people

385

00:17:52,169 --> 00:17:49,870

represent in stitches on their clothing

386

00:17:55,620 --> 00:17:52,179

or on practical items to make them

387

00:17:58,409 --> 00:17:55,630

beautiful and I think that this one

388

00:17:59,909 --> 00:17:58,419

works in the same way it takes just an

389

00:18:02,100 --> 00:17:59,919

image from nature although it's a

390

00:18:05,220 --> 00:18:02,110

microscope image and just turns it into

391

00:18:07,560 --> 00:18:05,230

a design that can speak to you in a

392

00:18:09,149 --> 00:18:07,570

different way it was also interesting to

393

00:18:11,310 --> 00:18:09,159

and something I'd like to briefly

394

00:18:13,799 --> 00:18:11,320

discuss with you Adam as you were saying

395

00:18:16,710 --> 00:18:13,809

in your talking about the myth on cell

396

00:18:18,480 --> 00:18:16,720

death in the brain once the brain cells

397

00:18:20,299 --> 00:18:18,490

die that's in which is something I

398

00:18:22,230 --> 00:18:20,309

certainly grew up believing yeah

399

00:18:25,860 --> 00:18:22,240

neurogenesis is one of those great

400

00:18:27,630 --> 00:18:25,870

scientific stories where long-held

401  
00:18:29,850 --> 00:18:27,640  
scientific belief has just had to be

402  
00:18:31,799 --> 00:18:29,860  
thrown out because new data has come

403  
00:18:34,649 --> 00:18:31,809  
along we've had to completely rethink

404  
00:18:36,630 --> 00:18:34,659  
how the brain works yeah I for a long

405  
00:18:38,820 --> 00:18:36,640  
time ever since the days of kahala and

406  
00:18:40,620 --> 00:18:38,830  
hurling neuroscience it was thought that

407  
00:18:42,330 --> 00:18:40,630  
the number of cells that we're all with

408  
00:18:46,080 --> 00:18:42,340  
was all you were going to have for the

409  
00:18:48,360 --> 00:18:46,090  
rest of your life then in 1983 was first

410  
00:18:50,850 --> 00:18:48,370  
found in a bird brain actually that the

411  
00:18:53,340 --> 00:18:50,860  
words these new cells have been born in

412  
00:18:55,590 --> 00:18:53,350  
the bright so we completely had to

413  
00:18:58,380 --> 00:18:55,600

rethink and then people started looking

414

00:19:00,690 --> 00:18:58,390

into mammals and other mammals there by

415

00:19:03,000 --> 00:19:00,700

the early linings neurogenesis have been

416

00:19:06,419 --> 00:19:03,010

found in most mammal species including

417

00:19:08,669 --> 00:19:06,429

the human brain so Iran's are being born

418

00:19:10,350 --> 00:19:08,679

in your brain all the time there's a

419

00:19:11,850 --> 00:19:10,360

hope for us all but for each

420

00:19:14,570 --> 00:19:11,860

and you also had some interesting

421

00:19:17,390 --> 00:19:14,580

information Adam about how

422

00:19:20,490 --> 00:19:17,400

antidepressants can actually encourage

423

00:19:22,230 --> 00:19:20,500

neurogenesis and also exercise when you

424

00:19:25,350 --> 00:19:22,240

say exercise do you mean exercising your

425

00:19:28,170 --> 00:19:25,360

brain or your body I mean your body so

426

00:19:30,540 --> 00:19:28,180

we we're trying to understand things

427

00:19:33,210 --> 00:19:30,550

that can stimulate this process in the

428

00:19:35,430 --> 00:19:33,220

brain so your Genesis doesn't happen all

429

00:19:37,710 --> 00:19:35,440

over the brain happens in two specific

430

00:19:39,960 --> 00:19:37,720

regions of the brain there's one called

431

00:19:42,120 --> 00:19:39,970

the subventricular zone and they supply

432

00:19:45,300 --> 00:19:42,130

to yourselves to your olfactory cortex

433

00:19:46,830 --> 00:19:45,310

so where we smell and we think the

434

00:19:48,120 --> 00:19:46,840

reason that this is is because these

435

00:19:50,940 --> 00:19:48,130

cells are so exposed to the environment

436

00:19:53,490 --> 00:19:50,950

and chemicals so they lead to get turn

437

00:19:55,290 --> 00:19:53,500

over all the time so in another area of

438

00:19:56,940 --> 00:19:55,300

the brain in the hippocampus which is

439

00:19:59,610 --> 00:19:56,950

involved in learning and memory we've

440

00:20:08,240 --> 00:19:59,620

also shown this these new cells being

441

00:20:14,250 --> 00:20:11,760

okay so we're trying to study what sort

442

00:20:16,050 --> 00:20:14,260

of things can we stimulate particularly

443

00:20:17,550 --> 00:20:16,060

these dentate gyrus ones on these

444

00:20:19,200 --> 00:20:17,560

hippocampal one because they're involved

445

00:20:21,650 --> 00:20:19,210

in learning a memory and what we've

446

00:20:24,360 --> 00:20:21,660

shown in a laboratory is that

447

00:20:26,730 --> 00:20:24,370

antidepressants can stimulate this this

448

00:20:30,210 --> 00:20:26,740

may be one mechanism about how they're

449

00:20:32,520 --> 00:20:30,220

working to improve people's outlook

450

00:20:33,810 --> 00:20:32,530

potentially I mean we don't know that

451  
00:20:36,390 --> 00:20:33,820  
for sure we don't know what the

452  
00:20:38,580 --> 00:20:36,400  
functional outcome of this neurogenesis

453  
00:20:41,460 --> 00:20:38,590  
easier we just know antidepressants can

454  
00:20:45,450 --> 00:20:41,470  
stimulator certain hormones can also

455  
00:20:48,060 --> 00:20:45,460  
stimulate it and exercise interesting

456  
00:20:50,400 --> 00:20:48,070  
physical exercise but it must be

457  
00:20:52,800 --> 00:20:50,410  
voluntary which is really interesting so

458  
00:20:56,040 --> 00:20:52,810  
if you want to go out for a run it needs

459  
00:20:57,400 --> 00:20:56,050  
to do rewarding and I need to be

460  
00:21:00,810 --> 00:20:57,410  
motivated to do

461  
00:21:03,790 --> 00:21:00,820  
please stick a mouse on on a treadmill

462  
00:21:05,590 --> 00:21:03,800  
and make it mom we get non-euro Genesis

463  
00:21:08,140 --> 00:21:05,600

if you stick a running wheel in the cage

464

00:21:09,940 --> 00:21:08,150

then we get great neurogenesis so if you

465

00:21:11,830 --> 00:21:09,950

give them the option of using another

466

00:21:14,500 --> 00:21:11,840

option and they do what I love to run

467

00:21:16,270 --> 00:21:14,510

but if they choose to run with megan

468

00:21:18,790 --> 00:21:16,280

mutants so the lesson for our listeners

469

00:21:22,180 --> 00:21:18,800

Richard is get on that treadmill funny

470

00:21:24,480 --> 00:21:22,190

of you want to you want to just lastly

471

00:21:26,320 --> 00:21:24,490

can we talk about the apoptosis

472

00:21:27,910 --> 00:21:26,330

embroideries Melanie because I

473

00:21:30,460 --> 00:21:27,920

absolutely love this one it was one I

474

00:21:32,920 --> 00:21:30,470

get it was my garlic sea or something

475

00:21:37,150 --> 00:21:32,930

that's not these ones are going to quite

476

00:21:40,000 --> 00:21:37,160

abstract designs rather than repin than

477

00:21:42,430 --> 00:21:40,010

visual representations but basically

478

00:21:46,480 --> 00:21:42,440

then if you look at the three of them as

479

00:21:48,610 --> 00:21:46,490

a set the first one the stitches are all

480

00:21:53,380 --> 00:21:48,620

connected and they go in rows and

481

00:21:56,380 --> 00:21:53,390

they're quite ordered and put together

482

00:21:58,720 --> 00:21:56,390

the second one you can see the chaos of

483

00:22:01,600 --> 00:21:58,730

the dying cells the stitches are not

484

00:22:07,570 --> 00:22:01,610

connected the background is very messy

485

00:22:10,540 --> 00:22:07,580

and but it's not messy I suppose it's

486

00:22:13,270 --> 00:22:10,550

yet coyote and so you can see the

487

00:22:15,760 --> 00:22:13,280

destruction of the cells there and then

488

00:22:17,650 --> 00:22:15,770

the third one in the series which is

489

00:22:20,770 --> 00:22:17,660

based on Adams image that shows only a

490

00:22:23,110 --> 00:22:20,780

few living cells is quite blank except

491

00:22:25,690 --> 00:22:23,120

for right now here's the three in

492

00:22:29,220 --> 00:22:25,700

context rihanna's yes yeah so the first

493

00:22:32,020 --> 00:22:29,230

one is someone ordered the second one is

494

00:22:36,010 --> 00:22:32,030

very chaotic and the third one is very

495

00:22:38,780 --> 00:22:36,020

simplistic yes the middle minimalist I

496

00:22:40,790 --> 00:22:38,790

think there's hope in that third one

497

00:22:43,640 --> 00:22:40,800

because the cells that remain are still

498

00:22:45,650 --> 00:22:43,650

connected so it's not all bad news now

499

00:22:47,630 --> 00:22:45,660

by now our listeners are just going to

500

00:22:49,220 --> 00:22:47,640

see what we're talking about where can

501  
00:22:52,370 --> 00:22:49,230  
they run with their fingers on the

502  
00:22:56,150 --> 00:22:52,380  
Internet to have a look our blog is at

503  
00:23:00,770 --> 00:22:56,160  
culture at work or one word hyphen

504  
00:23:01,940 --> 00:23:00,780  
Hamlin hyphen Lord blogspot com I hope

505  
00:23:04,340 --> 00:23:01,950  
you'll put a link to that because it's

506  
00:23:06,470 --> 00:23:04,350  
hard to remember where the ruling and

507  
00:23:09,620 --> 00:23:06,480  
the works are all on there in one form

508  
00:23:11,930 --> 00:23:09,630  
or another I'll put up finished pictures

509  
00:23:14,510 --> 00:23:11,940  
of them soon and there's also some of

510  
00:23:16,760 --> 00:23:14,520  
your microscopy up there Adam and so the

511  
00:23:18,650 --> 00:23:16,770  
images that inspired melodies

512  
00:23:20,330 --> 00:23:18,660  
embroideries are also on the block so

513  
00:23:22,490 --> 00:23:20,340

people want to end it to trick that of

514

00:23:24,710 --> 00:23:22,500

how they how Adam created them in what

515

00:23:27,320 --> 00:23:24,720

they represent two from Adam rumors on

516

00:23:29,630 --> 00:23:27,330

that what a wonderful project you guys

517

00:23:32,690 --> 00:23:29,640

I'm so inspired it was so fantastic to

518

00:23:34,130 --> 00:23:32,700

see science and art which I always have

519

00:23:36,080 --> 00:23:34,140

thought should be together because I

520

00:23:38,030 --> 00:23:36,090

come from an art background but to

521

00:23:41,240 --> 00:23:38,040

actually see it come together in such a

522

00:23:58,750 --> 00:23:41,250

great exhibition was fantastic thank you

523

00:24:02,960 --> 00:24:01,100

astronomy cast who takes a fact space

524

00:24:04,880 --> 00:24:02,970

journey through the cosmos as it offers

525

00:24:07,550 --> 00:24:04,890

listeners weekly discussions on

526  
00:24:10,550 --> 00:24:07,560  
astronomical topics ranging from planets

527  
00:24:12,920 --> 00:24:10,560  
to cosmology hosted by Fraser Cain of

528  
00:24:13,790 --> 00:24:12,930  
Universe Today and myself dr. Pamela gay

529  
00:24:16,460 --> 00:24:13,800  
of southern illinois university

530  
00:24:18,320 --> 00:24:16,470  
edwardsville this show brings the

531  
00:24:20,750 --> 00:24:18,330  
questions of an avid astronomy lover

532  
00:24:22,850 --> 00:24:20,760  
directly to an astronomer together

533  
00:24:24,380 --> 00:24:22,860  
Fraser and I explore what is known and

534  
00:24:27,140 --> 00:24:24,390  
being discovered about the universe

535  
00:24:29,240 --> 00:24:27,150  
around us join us each week as we take a

536  
00:24:37,070 --> 00:24:29,250  
fact space journey through the cosmos at

537  
00:24:50,640 --> 00:24:40,470  
join us now for drinking skeptically in

538  
00:24:57,270 --> 00:24:50,650

the think tank screaming children of

539

00:25:02,430 --> 00:24:57,280

left cheers everybody she is I can't

540

00:25:11,160 --> 00:25:02,440

clinically lets me how people here side

541

00:25:12,540 --> 00:25:11,170

you have their cheese all the rest of

542

00:25:15,140 --> 00:25:12,550

you can go home now we'll just stick

543

00:25:19,410 --> 00:25:15,150

with it what we haven't yet thank you

544

00:25:21,090 --> 00:25:19,420

joining me oh dear you should see what's

545

00:25:23,580 --> 00:25:21,100

going on here folks joining me in the

546

00:25:24,930 --> 00:25:23,590

think tank tonight in our favorite club

547

00:25:26,900 --> 00:25:24,940

down the street in the Chinese

548

00:25:30,780 --> 00:25:26,910

restaurant alone along the back wall

549

00:25:33,120 --> 00:25:30,790

Iran so give hello Iran hello written we

550

00:25:35,400 --> 00:25:33,130

also have our favorite Diane bish top

551  
00:25:40,290 --> 00:25:35,410  
and hello Diane I'm itching hi how do

552  
00:25:44,280 --> 00:25:40,300  
you say hello in Dutch honey hello so

553  
00:25:46,850 --> 00:25:44,290  
exotic boy and Dinah Lee give me some

554  
00:25:50,940 --> 00:25:46,860  
more dutch words throughout the evening

555  
00:25:55,110 --> 00:25:50,950  
miss some of them not nice probably is

556  
00:25:57,000 --> 00:25:55,120  
nurse joke hello joy hi Joe I like your

557  
00:25:58,890 --> 00:25:57,010  
little bro chiefting I thank you thank

558  
00:26:02,130 --> 00:25:58,900  
you it's very artistic they're very um

559  
00:26:08,540 --> 00:26:02,140  
not not appropriate for a podcast is it

560  
00:26:13,920 --> 00:26:08,550  
no not really my gosh dr. Rachel Bonjour

561  
00:26:16,620 --> 00:26:13,930  
ha whooping here that's German having a

562  
00:26:18,990 --> 00:26:16,630  
linguistically diverse think tanks

563  
00:26:27,810 --> 00:26:19,000

tonight we are the neurons gonna say

564

00:26:31,490 --> 00:26:27,820

something in Hebrew ma no on idea ok

565

00:26:36,090 --> 00:26:31,500

give you something very some zoo

566

00:26:40,020 --> 00:26:36,100

well Oh Darren son born up what's that

567

00:26:41,940 --> 00:26:40,030

mean hello how are you I think we should

568

00:26:45,299 --> 00:26:41,950

get on with a think tank now actually we

569

00:26:48,120 --> 00:26:45,309

stopped in love editing work to do no no

570

00:26:49,409 --> 00:26:48,130

heavens above now I look just something

571

00:26:51,169 --> 00:26:49,419

that caught my eye before we get into

572

00:26:54,029 --> 00:26:51,179

the interesting topics of the week

573

00:26:56,340 --> 00:26:54,039

walking into the our club tonight on the

574

00:27:01,200 --> 00:26:56,350

wall there are two ads two posters for

575

00:27:03,120 --> 00:27:01,210

upcoming psychic events no yes they do I

576

00:27:04,409 --> 00:27:03,130

think just to a noise I think they also

577

00:27:08,250 --> 00:27:04,419

put them up when they know we're not

578

00:27:10,799 --> 00:27:08,260

coming unfortunately I just have a lot

579

00:27:13,350 --> 00:27:10,809

of psychic events and it's you do we

580

00:27:16,289 --> 00:27:13,360

have a psychic festival coming up in

581

00:27:17,880 --> 00:27:16,299

june or july i think so they have one

582

00:27:20,700 --> 00:27:17,890

every six months like mind-body wallet

583

00:27:25,380 --> 00:27:20,710

downs done downtown and i've also got a

584

00:27:28,710 --> 00:27:25,390

special one-day psychic workshop only

585

00:27:31,169 --> 00:27:28,720

you're only a hundred dollars only a

586

00:27:33,419 --> 00:27:31,179

hundred dollars you know what I that I

587

00:27:36,110 --> 00:27:33,429

always were these evenings I always want

588

00:27:39,899 --> 00:27:36,120

to see I want to once once in up my life

589

00:27:43,529 --> 00:27:39,909

have put my hands on the letter of

590

00:27:45,930 --> 00:27:43,539

invitation to a psychic like a letter

591

00:27:49,500 --> 00:27:45,940

that invites them to join such a psychic

592

00:27:53,270 --> 00:27:49,510

festival yeah oh I see it's just it

593

00:27:55,409 --> 00:27:53,280

would be just the rase just for a woman

594

00:27:59,279 --> 00:27:55,419

don't open that letter I know what's

595

00:28:02,340 --> 00:27:59,289

inside speaking about psychics let's

596

00:28:05,130 --> 00:28:02,350

just rattle off in what I've gathered as

597

00:28:07,430 --> 00:28:05,140

the four big big E's for the year so far

598

00:28:11,100 --> 00:28:07,440

more big events that they've all missed

599

00:28:13,440 --> 00:28:11,110

starting off the haiti earthquake the

600

00:28:15,270 --> 00:28:13,450

volcano which no one can pronounce the

601  
00:28:18,140 --> 00:28:15,280  
name of in Iceland which is still

602  
00:28:19,590 --> 00:28:18,150  
causing trouble at cult veneers can Oh

603  
00:28:21,810 --> 00:28:19,600  
in fact

604  
00:28:24,120 --> 00:28:21,820  
on media what's last week being able to

605  
00:28:26,220 --> 00:28:24,130  
do it we'll just say the icelandic

606  
00:28:29,039 --> 00:28:26,230  
volcano you all know what i mean again

607  
00:28:32,250 --> 00:28:29,049  
causing trouble chilean earthquake was

608  
00:28:36,510 --> 00:28:32,260  
that this was that was this year this is

609  
00:28:38,640 --> 00:28:36,520  
JT haiti was this year whenever the

610  
00:28:42,720 --> 00:28:38,650  
chilly one was it wasn't predicted it

611  
00:28:44,669 --> 00:28:42,730  
wasn't um the oil spill in the united

612  
00:28:47,640 --> 00:28:44,679  
states which they are saying is one of

613  
00:28:50,640 --> 00:28:47,650

the biggest oil disasters I believe it's

614

00:28:54,630 --> 00:28:50,650

now gone it's it's more than the Exxon

615

00:28:57,950 --> 00:28:54,640

Valdez now it is huge yeah it was on the

616

00:29:00,680 --> 00:28:57,960

news again a huge story hello I mean and

617

00:29:03,419 --> 00:29:00,690

there's a side note Australia has a new

618

00:29:07,529 --> 00:29:03,429

sporting champion world snooker champion

619

00:29:11,460 --> 00:29:07,539

oh yeah you didn't hear about that from

620

00:29:14,310 --> 00:29:11,470

the psychics no no Stephen Fry torture

621

00:29:16,049 --> 00:29:14,320

unless we clever I think it was a good

622

00:29:18,200 --> 00:29:16,059

even if our big deal city is protected

623

00:29:20,850 --> 00:29:18,210

speech would be name-dropping know

624

00:29:22,860 --> 00:29:20,860

already dropped convenience and stable

625

00:29:24,990 --> 00:29:22,870

Fry I got rivered it wasn't pointed out

626

00:29:26,789 --> 00:29:25,000

that um we're actually mistaken by

627

00:29:29,100 --> 00:29:26,799

referring to this is an oil spill in oil

628

00:29:30,570 --> 00:29:29,110

spill is when a bunch of oil falls out

629

00:29:33,180 --> 00:29:30,580

of a ship as opposed to what's going on

630

00:29:35,909 --> 00:29:33,190

a massive oil rig notion which which I

631

00:29:37,320 --> 00:29:35,919

imagine would be a far yeah but but I

632

00:29:39,090 --> 00:29:37,330

mean I would imagine it would be a much

633

00:29:43,800 --> 00:29:39,100

greater proportion anyway than the spill

634

00:29:51,570 --> 00:29:48,870

alright and before I pass over pass the

635

00:29:53,010 --> 00:29:51,580

microphone over to dr. H he and Joe

636

00:29:54,330 --> 00:29:53,020

you're not gonna pass over right I'm not

637

00:29:56,850 --> 00:29:54,340

gonna pass over right here how the food

638

00:30:02,040 --> 00:29:56,860

was pretty good actually I assure you

639

00:30:03,780 --> 00:30:02,050

the food was fine listeners in the

640

00:30:06,150 --> 00:30:03,790

mid-north coast area or the north coast

641

00:30:09,060 --> 00:30:06,160

area of New South Wales around them

642

00:30:11,370 --> 00:30:09,070

mucker heads the name buck of valley you

643

00:30:13,860 --> 00:30:11,380

can hear portions of the skeptic zone

644

00:30:18,090 --> 00:30:13,870

including great insult and dr. H in some

645

00:30:21,800 --> 00:30:18,100

other things on radio too NVR FM and

646

00:30:24,750 --> 00:30:21,810

that's 10 5.9 on your fm dial they

647

00:30:26,910 --> 00:30:24,760

replaying parts of the skeptic zone on

648

00:30:29,130 --> 00:30:26,920

public radio so that's really good next

649

00:30:33,990 --> 00:30:29,140

that's excellent and thank you to the

650

00:30:39,630 --> 00:30:34,000

people there at Radio 2 in the rfm dr.

651  
00:30:42,720 --> 00:30:39,640  
aging yes dr. Richard uh nurse Joe and I

652  
00:30:45,120 --> 00:30:42,730  
am pouring over some literature at the

653  
00:30:47,580 --> 00:30:45,130  
moment which I was alerted to last night

654  
00:30:50,730 --> 00:30:47,590  
on twitter by Professor David Cahoon now

655  
00:30:53,850 --> 00:30:50,740  
there I go name-dropping you smile you

656  
00:30:58,470 --> 00:30:53,860  
mean okay yes that's Joe at so better

657  
00:31:01,380 --> 00:30:58,480  
mood is that right dr. AG it is at

658  
00:31:07,500 --> 00:31:01,390  
skeptic tyne and oh look over there they

659  
00:31:15,830 --> 00:31:07,510  
said tired underscore haha that's just

660  
00:31:18,919 --> 00:31:15,840  
me let me you don't want at me anyway um

661  
00:31:21,289 --> 00:31:18,929  
I what basically what we're looking at

662  
00:31:23,120 --> 00:31:21,299  
is a document for the what's it called

663  
00:31:25,460 --> 00:31:23,130

Joe national national institute of

664

00:31:27,169 --> 00:31:25,470

complementary medicine yeah the national

665

00:31:29,600 --> 00:31:27,179

issue of complementary medicine which I

666

00:31:31,850 --> 00:31:29,610

only discovered last night no exists in

667

00:31:34,100 --> 00:31:31,860

Australia yes I was actually quite

668

00:31:37,730 --> 00:31:34,110

stunned to realize I didn't know this

669

00:31:39,740 --> 00:31:37,740

existed in Australia well I dug up the

670

00:31:41,060 --> 00:31:39,750

information from the website last night

671

00:31:44,090 --> 00:31:41,070

when I was doing some googling for

672

00:31:46,010 --> 00:31:44,100

another reason and upon reading the

673

00:31:47,720 --> 00:31:46,020

background of it I realized that I

674

00:31:49,820 --> 00:31:47,730

didn't know this was happening here but

675

00:31:52,130 --> 00:31:49,830

for international license this is kind

676  
00:31:53,810 --> 00:31:52,140  
of the Australian equivalent of n cam

677  
00:31:55,070 --> 00:31:53,820  
which is the national center for

678  
00:31:58,880 --> 00:31:55,080  
complementary and alternative medicine

679  
00:32:01,789 --> 00:31:58,890  
set up by the NIH in the state and

680  
00:32:04,820 --> 00:32:01,799  
they've been criticized a lot because

681  
00:32:09,230 --> 00:32:04,830  
they've already spent 2.5 billion

682  
00:32:12,230 --> 00:32:09,240  
dollars since they're setting up and so

683  
00:32:17,450 --> 00:32:12,240  
far they've pretty much found nothing

684  
00:32:19,580 --> 00:32:17,460  
useful so this was instigated because in

685  
00:32:21,080 --> 00:32:19,590  
2006 the Chinese government announced

686  
00:32:23,139 --> 00:32:21,090  
they were going to put significant

687  
00:32:28,639 --> 00:32:23,149  
amounts of money into international

688  
00:32:29,990 --> 00:32:28,649

collaborative research and basically

689

00:32:31,549 --> 00:32:30,000

they sent out a message across the world

690

00:32:33,230 --> 00:32:31,559

saying we want more research done on

691

00:32:35,630 --> 00:32:33,240

Chinese medicine because we want it more

692

00:32:37,730 --> 00:32:35,640

widely accepted because the Chinese

693

00:32:39,919 --> 00:32:37,740

themselves have come under a lot of

694

00:32:42,409 --> 00:32:39,929

criticism for reason reason i'm laughing

695

00:32:44,480 --> 00:32:42,419

is because again it's the gold thing the

696

00:32:45,889 --> 00:32:44,490

goal is not to find out whether it works

697

00:32:49,100 --> 00:32:45,899

so we can know whether to use it honor

698

00:32:52,580 --> 00:32:49,110

because we want it accept it the whole

699

00:32:54,529 --> 00:32:52,590

premise is the problem well because the

700

00:32:57,760 --> 00:32:54,539

Chinese have been heavily criticized for

701  
00:32:59,930 --> 00:32:57,770  
research into Chinese medicine and so

702  
00:33:01,669 --> 00:32:59,940  
the Australian government took advantage

703  
00:33:04,549 --> 00:33:01,679  
of the fact that the Chinese were giving

704  
00:33:06,440 --> 00:33:04,559  
out all this money and the National

705  
00:33:08,659 --> 00:33:06,450  
Medical Health and Medical Research

706  
00:33:11,779 --> 00:33:08,669  
Council the NHMRC that's our government

707  
00:33:15,169 --> 00:33:11,789  
body who hands up his research grants

708  
00:33:17,840 --> 00:33:15,179  
they in 2006 took a special initiative

709  
00:33:19,990 --> 00:33:17,850  
to hand out 5 million bucks to people

710  
00:33:22,010 --> 00:33:20,000  
who wanted to become involved in

711  
00:33:24,800 --> 00:33:22,020  
researching can

712  
00:33:27,260 --> 00:33:24,810  
can I be involved if you want to put in

713  
00:33:29,030 --> 00:33:27,270

a garage oh oh yeah 45 million bucks I

714

00:33:32,030 --> 00:33:29,040

will well you don't get oh my god

715

00:33:33,770 --> 00:33:32,040

they've gotta let it out of it but yeah

716

00:33:35,390 --> 00:33:33,780

and I remember hearing about this

717

00:33:37,490 --> 00:33:35,400

because I remember hearing that the new

718

00:33:39,500 --> 00:33:37,500

south wales government was going to put

719

00:33:43,010 --> 00:33:39,510

in four million dollars towards building

720

00:33:44,540 --> 00:33:43,020

a specialized independent facility which

721

00:33:46,460 --> 00:33:44,550

at the time I thought was going to be

722

00:33:47,750 --> 00:33:46,470

part of the University of Sydney it

723

00:33:51,550 --> 00:33:47,760

turns out us at the University of

724

00:33:53,870 --> 00:33:51,560

Western Sydney and the Office of Science

725

00:33:56,740 --> 00:33:53,880

osm our Office of Science Medical

726

00:34:00,560 --> 00:33:56,750

Research Council which is a state-run

727

00:34:02,630 --> 00:34:00,570

science sort of outreach body they gave

728

00:34:05,060 --> 00:34:02,640

six hundred thousand dollars towards

729

00:34:07,460 --> 00:34:05,070

this project no I were you money money

730

00:34:08,840 --> 00:34:07,470

yeah just being thrown at it and I

731

00:34:10,520 --> 00:34:08,850

remember when I heard about this because

732

00:34:12,860 --> 00:34:10,530

I actually happen to be at a dinner with

733

00:34:15,260 --> 00:34:12,870

an MP a member of parliament who was

734

00:34:17,480 --> 00:34:15,270

involved in giving out this funding and

735

00:34:20,630 --> 00:34:17,490

I was asking them why they were putting

736

00:34:22,850 --> 00:34:20,640

all this money into this project anyway

737

00:34:25,010 --> 00:34:22,860

so that's the background but it but it

738

00:34:27,380 --> 00:34:25,020

turns out that this is yeah the National

739

00:34:29,510 --> 00:34:27,390

Center the National Institute of

740

00:34:31,970 --> 00:34:29,520

complementary medicine it's based at the

741

00:34:33,110 --> 00:34:31,980

University of Western Sydney and judge

742

00:34:35,060 --> 00:34:33,120

you want to talk a little bit about

743

00:34:37,669 --> 00:34:35,070

who's behind it and what they do yeah

744

00:34:39,590 --> 00:34:37,679

look it's actually a lot of interesting

745

00:34:41,090 --> 00:34:39,600

stuff when you when you get down to

746

00:34:43,970 --> 00:34:41,100

what's going on here and whose

747

00:34:46,700 --> 00:34:43,980

involvement on and look when I can't

748

00:34:48,440 --> 00:34:46,710

name any any names off the top of my

749

00:34:50,659 --> 00:34:48,450

head but a lot of people involved are

750

00:34:53,180 --> 00:34:50,669

people with you know significant

751  
00:34:55,190 --> 00:34:53,190  
scientific and research backgrounds in

752  
00:34:58,460 --> 00:34:55,200  
medicine and so on and there are a lot

753  
00:35:01,940 --> 00:34:58,470  
of very reputable people involved one

754  
00:35:03,950 --> 00:35:01,950  
name I did note however was on there and

755  
00:35:06,470 --> 00:35:03,960  
one of their advisory councils and

756  
00:35:09,170 --> 00:35:06,480  
that's dr. Karen Phelps Professor Kerin

757  
00:35:12,140 --> 00:35:09,180  
Phelps who we've spoken about before and

758  
00:35:15,670 --> 00:35:12,150  
she is actually the recipient of one of

759  
00:35:19,900 --> 00:35:15,680  
the grants for some research through her

760  
00:35:22,180 --> 00:35:19,910  
clinic which itself is a promoter and

761  
00:35:25,870 --> 00:35:22,190  
user of the complementary medicine and

762  
00:35:28,690 --> 00:35:25,880  
the specific garage in fact goes towards

763  
00:35:32,650 --> 00:35:28,700

a bit of a an interesting thing that

764

00:35:35,230 --> 00:35:32,660

they're researching okay so so professor

765

00:35:37,930 --> 00:35:35,240

Phelps is on one of the advisory

766

00:35:41,170 --> 00:35:37,940

committees as I said and they're doing a

767

00:35:42,940 --> 00:35:41,180

study into Anna it's called an appraisal

768

00:35:44,650 --> 00:35:42,950

of Health Services data and outcome

769

00:35:46,390 --> 00:35:44,660

measurement tools for use in an

770

00:35:49,150 --> 00:35:46,400

Australian primary care integrative

771

00:35:52,870 --> 00:35:49,160

medicine setting and I mean really I

772

00:35:54,849 --> 00:35:52,880

think what they're looking at is what

773

00:35:57,000 --> 00:35:54,859

what Professor Phelps is very heavily

774

00:35:59,770 --> 00:35:57,010

promoting which is bringing

775

00:36:01,059 --> 00:35:59,780

complementary therapies into medical

776

00:36:04,120 --> 00:36:01,069

practices and it's something that her

777

00:36:05,980 --> 00:36:04,130

clinic is actually doing now the thing

778

00:36:08,799 --> 00:36:05,990

is and this is this is the problem I

779

00:36:12,490 --> 00:36:08,809

have with a lot of what this sir this

780

00:36:15,010 --> 00:36:12,500

institute is doing they I have no

781

00:36:18,849 --> 00:36:15,020

problem as it stands with research being

782

00:36:20,529 --> 00:36:18,859

done in to herbal medicines into you

783

00:36:23,559 --> 00:36:20,539

know a lot of the practices that they're

784

00:36:24,609 --> 00:36:23,569

looking at as complementary medicine or

785

00:36:26,289 --> 00:36:24,619

whatever you want to call it I've got a

786

00:36:28,960 --> 00:36:26,299

problem with research being done into it

787

00:36:31,720 --> 00:36:28,970

if it's good rigorous research what I

788

00:36:33,490 --> 00:36:31,730

have a problem with is that on the one

789

00:36:35,400 --> 00:36:33,500

hand there are some sides of this

790

00:36:38,740 --> 00:36:35,410

institute which seem to be really

791

00:36:42,460 --> 00:36:38,750

addressing the issues of rigor of good

792

00:36:46,779 --> 00:36:42,470

methodology of doing good research but

793

00:36:48,609 --> 00:36:46,789

on the other hand they are dabbling and

794

00:36:51,010 --> 00:36:48,619

mixing with some areas within

795

00:36:52,900 --> 00:36:51,020

complementary therapies which at face

796

00:36:55,000 --> 00:36:52,910

value in terms of things like prior

797

00:36:58,269 --> 00:36:55,010

plausibility can be thrown out the

798

00:36:59,920 --> 00:36:58,279

window like homeopathy now they're their

799

00:37:01,420 --> 00:36:59,930

main research grants are not going

800

00:37:02,980 --> 00:37:01,430

towards anything like that their

801  
00:37:06,990 --> 00:37:02,990  
research grants are going into things

802  
00:37:09,700 --> 00:37:07,000  
which you could say are reasonable

803  
00:37:12,370 --> 00:37:09,710  
research into for example the use of

804  
00:37:13,779 --> 00:37:12,380  
certain medicines certain herbal

805  
00:37:16,029 --> 00:37:13,789  
medicines and dementia and things like

806  
00:37:18,420 --> 00:37:16,039  
that and yes fair enough I can see why

807  
00:37:21,190 --> 00:37:18,430  
they would want to do that research part

808  
00:37:23,890 --> 00:37:21,200  
when they're then associated along with

809  
00:37:26,180 --> 00:37:23,900  
something like homeopathy or therapeutic

810  
00:37:28,670 --> 00:37:26,190  
touch things which have resounding

811  
00:37:30,170 --> 00:37:28,680  
been demonstrated to be no more

812  
00:37:32,630 --> 00:37:30,180  
effective than placebo and to have

813  
00:37:34,670 --> 00:37:32,640

absolutely no merit whatsoever then I

814

00:37:36,710 --> 00:37:34,680

think that they're completely destroying

815

00:37:38,270 --> 00:37:36,720

any credibility this is one of the

816

00:37:40,700 --> 00:37:38,280

things that Steve novella was talking

817

00:37:42,560 --> 00:37:40,710

about recently when he had a meeting

818

00:37:45,440 --> 00:37:42,570

with one of the directors of n cam in

819

00:37:47,930 --> 00:37:45,450

the sea ice yeah and the new director

820

00:37:49,940 --> 00:37:47,940

there was saying well we haven't grant

821

00:37:52,280 --> 00:37:49,950

given grants that we are these are small

822

00:37:55,520 --> 00:37:52,290

years but they still have it lets you

823

00:37:56,900 --> 00:37:55,530

know cut it out of their option not know

824

00:37:59,000 --> 00:37:56,910

exactly so that it's like they're

825

00:38:00,950 --> 00:37:59,010

leaving the door open yeah and they've

826

00:38:02,990 --> 00:38:00,960

still got this association with these

827

00:38:06,260 --> 00:38:03,000

organizations and this can be seen very

828

00:38:09,650 --> 00:38:06,270

clearly when you look at so they've got

829

00:38:13,040 --> 00:38:09,660

here professional associations and

830

00:38:15,890 --> 00:38:13,050

really the way i took this was that this

831

00:38:18,170 --> 00:38:15,900

is a list of modalities that they are

832

00:38:20,600 --> 00:38:18,180

aligned with in terms of research and

833

00:38:22,220 --> 00:38:20,610

it's an extensive wait a minute i just

834

00:38:26,000 --> 00:38:22,230

took to Diane space she's looking at

835

00:38:29,510 --> 00:38:26,010

your show what's a Diane oh just the

836

00:38:34,430 --> 00:38:29,520

list of stuff on on there this

837

00:38:38,350 --> 00:38:34,440

ridiculous ryky Tai Chi great how much

838

00:38:43,070 --> 00:38:38,360

money do they aren't any homeopathy

839

00:38:44,540 --> 00:38:43,080

bowen therapy aromatherapy I'll do it

840

00:38:46,310 --> 00:38:44,550

myself see the thing is they're using

841

00:38:47,780 --> 00:38:46,320

credible scientists like current Phelps

842

00:38:49,760 --> 00:38:47,790

who is an award winning scientist in

843

00:38:56,480 --> 00:38:49,770

fact she won a very important award in

844

00:38:59,570 --> 00:38:56,490

2008 yes she's a good company back

845

00:39:01,970 --> 00:38:59,580

there's a Meryl Dory one that yeah the

846

00:39:04,340 --> 00:39:01,980

researcher oh yeah she's good she's

847

00:39:06,380 --> 00:39:04,350

Australia's most respected expert on

848

00:39:07,900 --> 00:39:06,390

vaccinations didn't you know that yeah

849

00:39:11,980 --> 00:39:07,910

she said she was a

850

00:39:14,410 --> 00:39:11,990

what is the mother researcher and public

851  
00:39:17,349 --> 00:39:14,420  
policy advocate she has a brain that's

852  
00:39:19,720 --> 00:39:17,359  
all she said I mean yeah on that joy

853  
00:39:25,029 --> 00:39:19,730  
there are the people who are on the

854  
00:39:27,549 --> 00:39:25,039  
advisory committee yeah some very very

855  
00:39:29,859 --> 00:39:27,559  
well respected and decorated highly

856  
00:39:32,770 --> 00:39:29,869  
decorated scientists and the reason that

857  
00:39:35,770 --> 00:39:32,780  
i found this was because professor david

858  
00:39:37,750 --> 00:39:35,780  
Cahoon in the UK found that there's a

859  
00:39:41,829 --> 00:39:37,760  
guy on the scientific advisor can be a

860  
00:39:44,140 --> 00:39:41,839  
very best david career yes that's why we

861  
00:39:47,079 --> 00:39:44,150  
got in touch with me now he's actually a

862  
00:39:49,690 --> 00:39:47,089  
cardiologist who has it runs a private

863  
00:39:53,920 --> 00:39:49,700

practice in Britain Brisbane but he's

864

00:39:56,250 --> 00:39:53,930

doing apparently coordinating over 20

865

00:39:59,400 --> 00:39:56,260

trials at the moment into things like

866

00:40:01,630 --> 00:39:59,410

lipids nutrition nutraceuticals

867

00:40:04,599 --> 00:40:01,640

psychological aspects of heart disease

868

00:40:07,990 --> 00:40:04,609

diabetes and obesity and he's running a

869

00:40:10,650 --> 00:40:08,000

trial to see at the moment if from as he

870

00:40:13,690 --> 00:40:10,660

said deliberate weight reduction reduces

871

00:40:15,430 --> 00:40:13,700

cardiovascular events now there's no

872

00:40:16,720 --> 00:40:15,440

more details about that study so I don't

873

00:40:19,120 --> 00:40:16,730

know what endpoints they're looking at I

874

00:40:22,059 --> 00:40:19,130

guess cardiovascular events would be if

875

00:40:25,660 --> 00:40:22,069

you die well okay Terrance would be any

876

00:40:28,930 --> 00:40:25,670

it could be any sort of yeah heart

877

00:40:31,480 --> 00:40:28,940

attack enjoy I with me out of here yeah

878

00:40:33,460 --> 00:40:31,490

but rachel one of the things that really

879

00:40:35,950 --> 00:40:33,470

struck me in fact there were a lot of

880

00:40:39,130 --> 00:40:35,960

things as I as I sort of tore through

881

00:40:41,710 --> 00:40:39,140

this that really concerned me ha you

882

00:40:44,859 --> 00:40:41,720

finished to Marcus baby I did you know

883

00:40:48,000 --> 00:40:44,869

me and my highlighting had a great time

884

00:40:51,670 --> 00:40:48,010

even pulled out a pen ok notes anyway um

885

00:40:53,829 --> 00:40:51,680

you know the buzzwords in health care

886

00:40:55,779 --> 00:40:53,839

these days are really important to think

887

00:40:57,920 --> 00:40:55,789

about when looking at what an

888

00:41:00,020 --> 00:40:57,930

organization like this is doing

889

00:41:04,430 --> 00:41:00,030

and one of the very first things they

890

00:41:06,859 --> 00:41:04,440

talk about is that Australia is facing

891

00:41:09,020 --> 00:41:06,869

escalating health costs and they talk

892

00:41:11,120 --> 00:41:09,030

you know you always hear in healthcare

893

00:41:14,900 --> 00:41:11,130

talking about things like aging

894

00:41:16,640 --> 00:41:14,910

populations and you know people who the

895

00:41:18,970 --> 00:41:16,650

number of people who have multiple

896

00:41:21,859 --> 00:41:18,980

comorbidities and things like that and

897

00:41:23,329 --> 00:41:21,869

it's some level I look at this and my

898

00:41:25,940 --> 00:41:23,339

alarm bells start ringing because I

899

00:41:27,799 --> 00:41:25,950

think you know are we investing money in

900

00:41:31,940 --> 00:41:27,809

this because we're trying to find cheap

901  
00:41:34,130 --> 00:41:31,950  
and easy ways of managing health in a

902  
00:41:38,210 --> 00:41:34,140  
way that we're just not able to manage

903  
00:41:40,880 --> 00:41:38,220  
any more and providing effectively

904  
00:41:42,680 --> 00:41:40,890  
placebo health care for the chronic

905  
00:41:45,799 --> 00:41:42,690  
illnesses which we just don't have the

906  
00:41:47,660 --> 00:41:45,809  
money to invest in effectively because

907  
00:41:49,280 --> 00:41:47,670  
that really is a huge problem primary

908  
00:41:52,190 --> 00:41:49,290  
health care is something that is

909  
00:41:55,510 --> 00:41:52,200  
completely underfunded and it is vitally

910  
00:42:00,410 --> 00:41:55,520  
important in you know it in terms of

911  
00:42:03,589 --> 00:42:00,420  
what we need to decrease the the impact

912  
00:42:05,359 --> 00:42:03,599  
of illness on the acute care system and

913  
00:42:06,859 --> 00:42:05,369

something like this can be viewed as

914

00:42:09,079 --> 00:42:06,869

primary health care by a lot of people

915

00:42:11,329 --> 00:42:09,089

who are looking at ways to fix the

916

00:42:13,490 --> 00:42:11,339

problem and that's something I find

917

00:42:17,420 --> 00:42:13,500

really worrying that you know this type

918

00:42:19,339 --> 00:42:17,430

of therapy can be used in that way this

919

00:42:22,730 --> 00:42:19,349

kind of thing without doing anything

920

00:42:25,460 --> 00:42:22,740

practical is lending some credibility to

921

00:42:27,230 --> 00:42:25,470

these to these modalities

922

00:42:29,960 --> 00:42:27,240

yeah well I'm in one of the guys on the

923

00:42:33,290 --> 00:42:29,970

advisory committee is the the deputy

924

00:42:35,390 --> 00:42:33,300

director of em cam the NIH one so it's

925

00:42:37,940 --> 00:42:35,400

all tied up to that as well did you say

926

00:42:40,359 --> 00:42:37,950

rachy that this is called the National

927

00:42:44,589 --> 00:42:40,369

what is the national institute of

928

00:42:47,150 --> 00:42:44,599

medicine or niccum for short become yeah

929

00:42:49,370 --> 00:42:47,160

yeah that's all she does Nick like

930

00:42:51,980 --> 00:42:49,380

million dollars I found quite

931

00:42:54,980 --> 00:42:51,990

interesting with some they talk a lot

932

00:42:59,530 --> 00:42:54,990

about the things that we value in

933

00:43:01,700 --> 00:42:59,540

science about you know rigorous research

934

00:43:03,020 --> 00:43:01,710

rigorous methodologies all all the

935

00:43:04,970 --> 00:43:03,030

things that we talk about but then they

936

00:43:10,730 --> 00:43:04,980

in terms of their research priorities

937

00:43:12,650 --> 00:43:10,740

they say the priorities are research

938

00:43:14,870 --> 00:43:12,660

that investigates methodological issues

939

00:43:16,790 --> 00:43:14,880

relevant to the complex complex nature

940

00:43:18,680 --> 00:43:16,800

of complementary medicine including

941

00:43:20,599 --> 00:43:18,690

development of methodological tools

942

00:43:22,010 --> 00:43:20,609

which may impact on our understanding of

943

00:43:23,960 --> 00:43:22,020

the whole practice concepts and

944

00:43:26,960 --> 00:43:23,970

mechanisms underpinning complementary

945

00:43:28,670 --> 00:43:26,970

medicine now I understand that in terms

946

00:43:30,470 --> 00:43:28,680

of you know doing research into any

947

00:43:32,180 --> 00:43:30,480

modality that yes you do have to develop

948

00:43:33,920 --> 00:43:32,190

measurement tools and things like that

949

00:43:38,839 --> 00:43:33,930

that are appropriate for that particular

950

00:43:41,060 --> 00:43:38,849

thing but that also says to me it's that

951  
00:43:42,440 --> 00:43:41,070  
whole idea that people involved in this

952  
00:43:44,270 --> 00:43:42,450  
kind of thing talk about that somehow

953  
00:43:46,820 --> 00:43:44,280  
complementary medicine can't be

954  
00:43:48,970 --> 00:43:46,830  
investigated in using the same science

955  
00:43:51,650 --> 00:43:48,980  
as other medicine because it does

956  
00:43:53,960 --> 00:43:51,660  
exactly and there and so it sort of you

957  
00:43:56,870 --> 00:43:53,970  
know are we looking at a way to invent a

958  
00:44:01,599 --> 00:43:56,880  
whole new science to give to open doors

959  
00:44:05,900 --> 00:44:04,370  
tell me you only need special signs when

960  
00:44:08,300 --> 00:44:05,910  
the real regular science doesn't work

961  
00:44:10,430 --> 00:44:08,310  
yeah yeah they're more than happy to

962  
00:44:10,820 --> 00:44:10,440  
adopt the results when they release the

963  
00:44:12,770 --> 00:44:10,830

nice

964

00:44:15,620 --> 00:44:12,780

any results is there anything that has

965

00:44:18,350 --> 00:44:15,630

come out of it I didn't actually have a

966

00:44:20,600 --> 00:44:18,360

charge to look annoying that I would be

967

00:44:22,520 --> 00:44:20,610

interesting yet to continue and say what

968

00:44:24,200 --> 00:44:22,530

have you come up with so yeah yeah yeah

969

00:44:27,260 --> 00:44:24,210

I don't I don't remember if there was it

970

00:44:28,670 --> 00:44:27,270

to have I remember there was one tab

971

00:44:31,610 --> 00:44:28,680

that was completely blank but I don't

972

00:44:35,150 --> 00:44:31,620

remember where it was I mean I'm deny

973

00:44:36,710 --> 00:44:35,160

that was the pond yeah the other day I

974

00:44:39,230 --> 00:44:36,720

have to say that gave me a little bit of

975

00:44:41,240 --> 00:44:39,240

a chuckle it was a bit of her ha moment

976

00:44:42,620 --> 00:44:41,250

was um I don't know if you actually

977

00:44:44,630 --> 00:44:42,630

looked at their definition of

978

00:44:46,280 --> 00:44:44,640

complementary medicine but they give a

979

00:44:48,350 --> 00:44:46,290

definition of complementary and a

980

00:44:51,020 --> 00:44:48,360

definition of medicine and their

981

00:44:52,850 --> 00:44:51,030

definition of opportunities sure well

982

00:44:55,490 --> 00:44:52,860

their definition of complementary is

983

00:45:01,670 --> 00:44:55,500

forming a complete or balanced whole oh

984

00:45:03,470 --> 00:45:01,680

good now I'm sorry I check that's not

985

00:45:06,410 --> 00:45:03,480

why I create a completely balanced all

986

00:45:07,580 --> 00:45:06,420

using bullet thanks cuz you know what I

987

00:45:09,410 --> 00:45:07,590

probably pretty cool you know what I

988

00:45:12,650 --> 00:45:09,420

also think is interesting about this Joe

989

00:45:14,720 --> 00:45:12,660

is they have stayed away from using the

990

00:45:16,550 --> 00:45:14,730

term alternative they have and I'm

991

00:45:17,630 --> 00:45:16,560

pretty sure that's deliberately so

992

00:45:19,160 --> 00:45:17,640

they've just called themselves the

993

00:45:21,590 --> 00:45:19,170

National Institute of complementary

994

00:45:24,500 --> 00:45:21,600

medicine which means our modalities will

995

00:45:26,450 --> 00:45:24,510

complement conventional medicine will

996

00:45:29,360 --> 00:45:26,460

give conventional medicine a little help

997

00:45:30,590 --> 00:45:29,370

yeah yeah but but they do I mean if you

998

00:45:31,910 --> 00:45:30,600

read through their stuff every now and

999

00:45:33,560 --> 00:45:31,920

then you'll find a you know they've

1000

00:45:36,230 --> 00:45:33,570

dropped one like here they've got

1001  
00:45:37,760 --> 00:45:36,240  
wellness promotion yeah yeah so you know

1002  
00:45:41,360 --> 00:45:37,770  
they go from all this very scientific

1003  
00:45:42,890 --> 00:45:41,370  
terminology into we're going to you

1004  
00:45:45,500 --> 00:45:42,900  
insinuating that wellness is not a

1005  
00:45:47,230 --> 00:45:45,510  
saleable turn yes I am but but this

1006  
00:45:50,630 --> 00:45:47,240  
sentence so they want to facilitate

1007  
00:45:53,060 --> 00:45:50,640  
discussion and and do preliminary work

1008  
00:45:55,040 --> 00:45:53,070  
to complete much as possible in the

1009  
00:45:57,860 --> 00:45:55,050  
areas of cancer cardiovascular disease

1010  
00:46:01,190 --> 00:45:57,870  
diabetes neurological disorders brackets

1011  
00:46:03,770 --> 00:46:01,200  
dimensions and wellness promotion that's

1012  
00:46:06,830 --> 00:46:03,780  
like that there's a company advertising

1013  
00:46:10,490 --> 00:46:06,840

on TV and some sort of pill that will

1014

00:46:12,550 --> 00:46:10,500

give you back the zest gosh take this

1015

00:46:15,200 --> 00:46:12,560

pill and you'll have more zest right

1016

00:46:17,660 --> 00:46:15,210

it's your scientific testing you

1017

00:46:19,250 --> 00:46:17,670

now i don't know i saw this page which

1018

00:46:23,660 --> 00:46:19,260

was their page of facts and statistics

1019

00:46:26,900 --> 00:46:23,670

and i was really amused by this one so

1020

00:46:28,730 --> 00:46:26,910

they say here that too in three

1021

00:46:31,130 --> 00:46:28,740

australians use complementary medicine

1022

00:46:33,349 --> 00:46:31,140

each year and they then say that almost

1023

00:46:35,660 --> 00:46:33,359

four times more spent on complementary

1024

00:46:39,230 --> 00:46:35,670

medicine than on pharmaceuticals now

1025

00:46:43,370 --> 00:46:39,240

yeah in the brackets they also say in

1026

00:46:45,290 --> 00:46:43,380

out-of-pocket expenses now I mean

1027

00:46:48,079 --> 00:46:45,300

obviously that's because you've got the

1028

00:46:51,050 --> 00:46:48,089

PBS you've got ya drugs are drugs that I

1029

00:46:52,670 --> 00:46:51,060

can cover by the government en exactly

1030

00:46:55,579 --> 00:46:52,680

but you know what they'll cover in

1031

00:46:57,410 --> 00:46:55,589

complementary medicine nope I go along

1032

00:46:59,960 --> 00:46:57,420

every now and then have a nice time

1033

00:47:02,210 --> 00:46:59,970

massage down down the road and I bet

1034

00:47:04,070 --> 00:47:02,220

they would say did you have a mess a

1035

00:47:05,630 --> 00:47:04,080

year okay you use complementary medicine

1036

00:47:07,700 --> 00:47:05,640

well the thing is though that they've

1037

00:47:10,670 --> 00:47:07,710

cited these statistics there isn't a

1038

00:47:12,200 --> 00:47:10,680

single source for any of them I don't

1039

00:47:14,870 --> 00:47:12,210

know where they got this data from they

1040

00:47:17,359 --> 00:47:14,880

say that you know complementary medicine

1041

00:47:19,430 --> 00:47:17,369

users have healthier lifestyles and

1042

00:47:21,109 --> 00:47:19,440

seventy-three percent have you no

1043

00:47:23,240 --> 00:47:21,119

minimum serves of fruit and vegetables

1044

00:47:25,099 --> 00:47:23,250

is opposed you know for toys money uncle

1045

00:47:27,380 --> 00:47:25,109

exactly we know that people who know

1046

00:47:29,300 --> 00:47:27,390

that about the people who use it so you

1047

00:47:31,359 --> 00:47:29,310

know but but they don't source any of us

1048

00:47:34,970 --> 00:47:31,369

and and I think that you know it's

1049

00:47:37,760 --> 00:47:34,980

anyway so yeah there are they're looking

1050

00:47:38,660 --> 00:47:37,770

for for data their whole idea is to

1051  
00:47:40,010 --> 00:47:38,670  
liquidate up and they're not even

1052  
00:47:42,589 --> 00:47:40,020  
providing evidence for their own

1053  
00:47:44,420 --> 00:47:42,599  
statistics which I find quite far

1054  
00:47:48,470 --> 00:47:44,430  
there's money in them that are

1055  
00:47:50,450 --> 00:47:48,480  
complementary medicine so any of our

1056  
00:47:53,030 --> 00:47:50,460  
listeners who somebody actually tweeted

1057  
00:47:54,320 --> 00:47:53,040  
back to me last night that they study on

1058  
00:47:57,050 --> 00:47:54,330  
that campus and they didn't know it

1059  
00:47:58,880 --> 00:47:57,060  
exists so if you anyone who's I'm

1060  
00:48:01,820 --> 00:47:58,890  
studying at uws and actually Rachel

1061  
00:48:04,010 --> 00:48:01,830  
Welsh who listens to the show go check

1062  
00:48:07,550 --> 00:48:04,020  
it out and tell us what's going on in

1063  
00:48:09,320 --> 00:48:07,560

the bunkers of that nikam that's

1064

00:48:11,359 --> 00:48:09,330

something actually I just you know with

1065

00:48:15,589 --> 00:48:11,369

the fact that uws is the university that

1066

00:48:16,970 --> 00:48:15,599

is a lie aligned to this uws is one of

1067

00:48:20,240 --> 00:48:16,980

the universities in Australia that

1068

00:48:22,850 --> 00:48:20,250

carries a large number of the degree

1069

00:48:25,430 --> 00:48:22,860

courses in things like Chinese medicine

1070

00:48:32,960 --> 00:48:25,440

I mean various modules naturopathy but

1071

00:48:34,640 --> 00:48:32,970

in a lot of these practices so another

1072

00:48:37,280 --> 00:48:34,650

mention by me quickly don't forget

1073

00:48:40,880 --> 00:48:37,290

listeners that you can hear the skeptics

1074

00:48:42,920 --> 00:48:40,890

dr. H I myself dr. Chrissy and anybody

1075

00:48:44,420 --> 00:48:42,930

else Joe I hope you'll be fronting along

1076

00:48:49,430 --> 00:48:44,430

soon around you're always welcome on

1077

00:48:51,800 --> 00:48:49,440

radio 2 GB here in Sydney that's 873 on

1078

00:48:53,600 --> 00:48:51,810

the am dial usually every second

1079

00:48:54,860 --> 00:48:53,610

saturday or so but we certainly let you

1080

00:48:58,160 --> 00:48:54,870

know via twitter when that's happening

1081

00:49:01,670 --> 00:48:58,170

without good friend Glenn wheeler and of

1082

00:49:05,330 --> 00:49:01,680

course around and on sunday this Sunday

1083

00:49:08,720 --> 00:49:05,340

ninth of mayor 845 Sydney time I will be

1084

00:49:11,720 --> 00:49:08,730

on radio national speaking on the

1085

00:49:14,510 --> 00:49:11,730

program named Occam's razor and if it's

1086

00:49:16,340 --> 00:49:14,520

about assessing evidence ok and if

1087

00:49:18,860 --> 00:49:16,350

listeners don't happen charlie if they

1088

00:49:21,380 --> 00:49:18,870

can't of course if they can tune in or

1089

00:49:24,470 --> 00:49:21,390

if they're out of area for for this

1090

00:49:28,730 --> 00:49:24,480

radio station they can download it later

1091

00:49:32,720 --> 00:49:28,740

that morning from ABC dotnet dotter you

1092

00:49:34,400 --> 00:49:32,730

radio national's website and through

1093

00:49:36,620 --> 00:49:34,410

itunes yes and what you don't have

1094

00:49:41,630 --> 00:49:36,630

service is ask where they can get the

1095

00:49:44,930 --> 00:49:41,640

podcasts of our 2gb show have you a mail

1096

00:49:47,330 --> 00:49:44,940

going to them so yeah we we usually not

1097

00:49:49,310 --> 00:49:47,340

always we usually get to record our when

1098

00:49:51,080 --> 00:49:49,320

we're on to GV i've got about four or

1099

00:49:53,540 --> 00:49:51,090

five of them kicking around my computer

1100

00:49:55,970 --> 00:49:53,550

we put one or two up online but

1101

00:49:58,660 --> 00:49:55,980

generally speaking they're not really

1102

00:50:04,660 --> 00:50:01,120

you can hear them anywhere in the world

1103

00:50:06,100 --> 00:50:04,670

while we're doing them on 2gb com yeah

1104

00:50:09,220 --> 00:50:06,110

but that wasn't my question I know I

1105

00:50:12,010 --> 00:50:09,230

know well if we get enough people

1106

00:50:13,390 --> 00:50:12,020

requesting it maybe we can call I can

1107

00:50:17,770 --> 00:50:13,400

clay what we have to make them available

1108

00:50:21,570 --> 00:50:17,780

ok so you so yes Joe I'm sure you'll

1109

00:50:24,220 --> 00:50:21,580

have to phone up and beyond and that

1110

00:50:27,160 --> 00:50:24,230

that radio program we're on is actually

1111

00:50:30,340 --> 00:50:27,170

about to go semi national yeah it soft

1112

00:50:33,250 --> 00:50:30,350

it's gonna be real sin decatur through

1113

00:50:35,380 --> 00:50:33,260

Melbourne so that's pretty cool I have

1114

00:50:37,210 --> 00:50:35,390

another announcement I we need the

1115

00:50:39,430 --> 00:50:37,220

announcement stage now so let you know

1116

00:50:43,440 --> 00:50:39,440

something so I'd like to a now on i'ma

1117

00:50:46,690 --> 00:50:43,450

get on thurs nouncement anybody else on

1118

00:50:51,040 --> 00:50:46,700

Thursday the 13th of may I will be

1119

00:50:53,710 --> 00:50:51,050

speaking to Canberra skeptics ah will I

1120

00:50:58,030 --> 00:50:53,720

be listening I wonder I'm sure some of

1121

00:51:00,460 --> 00:50:58,040

them will be it's at six I think 6pm 47

1122

00:51:02,590 --> 00:51:00,470

p.m. starts so there's like dinner and

1123

00:51:04,750 --> 00:51:02,600

stuff and then the talk is at seven pm

1124

00:51:07,120 --> 00:51:04,760

and it's at the lecture theatre then of

1125

00:51:10,720 --> 00:51:07,130

innovations building eggleston road and

1126  
00:51:12,550 --> 00:51:10,730  
you but what was that date again if the

1127  
00:51:14,890 --> 00:51:12,560  
13th of May thirteenth amade the

1128  
00:51:17,170 --> 00:51:14,900  
Canberra skeptics listeners in that area

1129  
00:51:19,990 --> 00:51:17,180  
go along and you can he run guineas

1130  
00:51:21,400 --> 00:51:20,000  
autograph for who Google Canberra

1131  
00:51:26,170 --> 00:51:21,410  
skeptics and you can find out more i'm

1132  
00:51:28,930 --> 00:51:26,180  
sure and Ron I think we've got some tam

1133  
00:51:31,000 --> 00:51:28,940  
Australian use as well as we do we have

1134  
00:51:33,280 --> 00:51:31,010  
two speakers that we're going to add to

1135  
00:51:35,710 --> 00:51:33,290  
the list of advertisers because we've

1136  
00:51:38,110 --> 00:51:35,720  
got more exciting guests yeah the list

1137  
00:51:41,320 --> 00:51:38,120  
but we can announce that two of our

1138  
00:51:43,290 --> 00:51:41,330

friends here the skeptic sound will be

1139

00:51:48,690 --> 00:51:43,300

participating will be able speaker Oh

1140

00:51:53,080 --> 00:51:51,880

so dr. h er that's very exciting you're

1141

00:51:54,850 --> 00:51:53,090

gonna be one of the speakers of

1142

00:51:59,320 --> 00:51:54,860

chemistry it is very exciting i'm very

1143

00:52:01,300 --> 00:51:59,330

excited yeah you on an a380 oh that

1144

00:52:04,210 --> 00:52:01,310

would be that would be cool that would

1145

00:52:05,350 --> 00:52:04,220

be cool if you can arrange that even if

1146

00:52:07,390 --> 00:52:05,360

you have to go around the world first

1147

00:52:08,800 --> 00:52:07,400

that's fine no see I don't mind all

1148

00:52:13,000 --> 00:52:08,810

right yeah pretty good to land right

1149

00:52:16,860 --> 00:52:13,010

outside the smc center I know they can

1150

00:52:22,960 --> 00:52:16,870

exchange it that's like pin number oh

1151

00:52:26,410 --> 00:52:22,970

god you pity me now Tommy however we are

1152

00:52:28,480 --> 00:52:26,420

on we are working very hard on details

1153

00:52:29,860 --> 00:52:28,490

for Tamara Australia and hopefully

1154

00:52:32,350 --> 00:52:29,870

before too long we should be able to

1155

00:52:34,930 --> 00:52:32,360

direct people to a permanent website yes

1156

00:52:38,320 --> 00:52:34,940

that's coming soon coming it's coming

1157

00:52:40,870 --> 00:52:38,330

also we will be keep your eyes and ears

1158

00:52:44,580 --> 00:52:40,880

and everything else open for well not

1159

00:52:47,560 --> 00:52:44,590

quite everything else senses only sense

1160

00:52:50,170 --> 00:52:47,570

open for news about when we will be

1161

00:52:55,990 --> 00:52:50,180

selling tickets because it's coming it's

1162

00:53:00,760 --> 00:52:56,000

coming soon yeah I'll be lining up for

1163

00:53:03,190 --> 00:53:00,770

the food it won't food for the noms and

1164

00:53:06,640 --> 00:53:03,200

so let me swing the microphone around

1165

00:53:09,190 --> 00:53:06,650

again now you'll appreciate this this

1166

00:53:10,840 --> 00:53:09,200

lazy susan a boy it's got the microphone

1167

00:53:13,120 --> 00:53:10,850

sitting on it so if i swing it around

1168

00:53:14,830 --> 00:53:13,130

its facing you Joe ah like I suppose

1169

00:53:17,050 --> 00:53:14,840

every one of my favorite bands actually

1170

00:53:19,770 --> 00:53:17,060

they're really good Sydney bad if I

1171

00:53:26,170 --> 00:53:19,780

wonder if farmers know what a lazy susan

1172

00:53:27,670 --> 00:53:26,180

dog google says in Australian time for

1173

00:53:30,700 --> 00:53:27,680

some reason the girls are cracking up

1174

00:53:34,720 --> 00:53:30,710

presently the lazy susan of you go go

1175

00:53:36,400 --> 00:53:34,730

ahead Joe oh so I'm I got an iphone

1176  
00:53:39,610 --> 00:53:36,410  
recently so I've been exploring the

1177  
00:53:42,190 --> 00:53:39,620  
world of apps and for that farm there's

1178  
00:53:45,010 --> 00:53:42,200  
enough of that is in there so apparently

1179  
00:53:48,340 --> 00:53:45,020  
I've just discovered today that all have

1180  
00:53:53,260 --> 00:53:48,350  
apparently booted an STD psychic healing

1181  
00:53:56,470 --> 00:53:53,270  
app off their list of apps really indeed

1182  
00:53:58,390 --> 00:53:56,480  
I hear you say um according to this

1183  
00:54:01,299 --> 00:53:58,400  
little piece I found online

1184  
00:54:02,940 --> 00:54:01,309  
ah Apple has decided that psychic

1185  
00:54:05,440 --> 00:54:02,950  
healing has no place in the app store

1186  
00:54:08,319 --> 00:54:05,450  
despite last week approving a distance

1187  
00:54:13,059 --> 00:54:08,329  
healing application for warts what for

1188  
00:54:15,370 --> 00:54:13,069

1299 apparently people who voted my palm

1189

00:54:19,779 --> 00:54:15,380

people who bought a copy of what healer

1190

00:54:22,569 --> 00:54:19,789

were asked to take well as to take a

1191

00:54:25,269 --> 00:54:22,579

photograph of their water we just sent

1192

00:54:28,150 --> 00:54:25,279

to the professional mental healer who

1193

00:54:31,299 --> 00:54:28,160

spends the next and i quote a hundred

1194

00:54:34,299 --> 00:54:31,309

and eleven days thinking about it after

1195

00:54:36,069 --> 00:54:34,309

all worst effects are visible it was

1196

00:54:38,980 --> 00:54:36,079

approved on the twenty-second of april

1197

00:54:41,640 --> 00:54:38,990

but was pulled this week by apple what

1198

00:54:44,559 --> 00:54:41,650

if he walked in a personal place oh

1199

00:54:49,150 --> 00:54:44,569

that's what do you hope will find out

1200

00:54:54,370 --> 00:54:49,160

embarrassing illness that's your

1201

00:54:58,870 --> 00:54:54,380

favorite show it's actually probably a

1202

00:55:00,599 --> 00:54:58,880

bit of a a bit of a forge oh please you

1203

00:55:02,529 --> 00:55:00,609

know depends because of his job

1204

00:55:05,760 --> 00:55:02,539

embarrassing illnesses is kind of a

1205

00:55:09,279 --> 00:55:05,770

reach of every bit of a relief no

1206

00:55:10,870 --> 00:55:09,289

respite it's a restaurant but anyway I

1207

00:55:12,579 --> 00:55:10,880

found a rather amusing that Apple had

1208

00:55:14,799 --> 00:55:12,589

chosen to get rid of this given the fact

1209

00:55:16,960 --> 00:55:14,809

that in fact there are many apps out

1210

00:55:19,720 --> 00:55:16,970

there within the health and medical

1211

00:55:22,690 --> 00:55:19,730

section which are entirely quackery I'm

1212

00:55:24,730 --> 00:55:22,700

gonna hold me up homeopathic I've got an

1213

00:55:26,559 --> 00:55:24,740

astrology oh yeah apparently there's a

1214

00:55:30,210 --> 00:55:26,569

crystal healing Bowl to excite your

1215

00:55:34,510 --> 00:55:30,220

chakra sorry your check was excited

1216

00:55:37,690 --> 00:55:34,520

they're vibrating hey I my chakra so

1217

00:55:43,120 --> 00:55:37,700

excited too mmm because Andrew

1218

00:55:45,849 --> 00:55:43,130

Wakefield's written a book run for the

1219

00:55:47,440 --> 00:55:45,859

Union now somebody on Twitter today said

1220

00:55:49,210 --> 00:55:47,450

that they were really pleased to see

1221

00:55:52,210 --> 00:55:49,220

this because he's always been very good

1222

00:55:54,010 --> 00:55:52,220

at fiction or something and it says his

1223

00:55:55,390 --> 00:55:54,020

first foray into fiction it's actually

1224

00:55:58,000 --> 00:55:55,400

not published yet but it's called

1225

00:56:01,089 --> 00:55:58,010

callous disregard and it's the story of

1226

00:56:01,960 --> 00:56:01,099

his you know about callous downfall I

1227

00:56:03,640 --> 00:56:01,970

guess

1228

00:56:08,080 --> 00:56:03,650

he doesn't forward and actually gives

1229

00:56:10,359 --> 00:56:08,090

the end away I didn't know that I know

1230

00:56:13,990 --> 00:56:10,369

that she did the forward but the ship

1231

00:56:32,790 --> 00:56:14,000

sing does she what do you mean she gives

1232

00:56:55,480 --> 00:56:51,580

to go red go purple no I'm sorry I'm a

1233

00:56:56,740 --> 00:56:55,490

bit slow but I get it now um yes I it's

1234

00:57:00,609 --> 00:56:56,750

I don't know when it's you know what

1235

00:57:04,720 --> 00:57:00,619

it's related not sure yeah back oh you

1236

00:57:06,190 --> 00:57:04,730

might be scary so will it my way we look

1237

00:57:10,089 --> 00:57:06,200

forward to reading his side of the story

1238

00:57:12,089 --> 00:57:10,099

yes oh I'll get it you've still got my

1239

00:57:17,620 --> 00:57:12,099

Jenny McCarthy book have you read it yet

1240

00:57:20,440 --> 00:57:17,630

yes and it was terrible what do you

1241

00:57:22,510 --> 00:57:20,450

learn to read it no oh well I bought

1242

00:57:23,980 --> 00:57:22,520

that one that I lent you for five

1243

00:57:26,260 --> 00:57:23,990

dollars in the bargain bin in new york

1244

00:57:28,030 --> 00:57:26,270

city so i'll probably wait for weight

1245

00:57:30,550 --> 00:57:28,040

feels to appear in the bargain bin DC

1246

00:57:33,010 --> 00:57:30,560

absolutely trained here yeah y'all wait

1247

00:57:36,040 --> 00:57:33,020

a whole week we get I give you you know

1248

00:57:38,020 --> 00:57:36,050

nice auntie roo books you throw at us

1249

00:57:41,160 --> 00:57:38,030

things like France Sheffield homeopathy

1250

00:57:45,160 --> 00:57:41,170

plus dvds and Jenny McCarthy's book

1251

00:57:47,710 --> 00:57:45,170

you're trying to torture us don't forget

1252

00:57:51,040 --> 00:57:47,720

second opinion oh that's the worst thing

1253

00:57:53,230 --> 00:57:51,050

out of it all right I you know one day I

1254

00:57:57,040 --> 00:57:53,240

think we should live stream this think

1255

00:57:59,270 --> 00:57:57,050

tank on a video de know then people can

1256

00:58:02,120 --> 00:57:59,280

see what colors you're turning diet

1257

00:58:03,680 --> 00:58:02,130

I can see you Rachel and joe kept them

1258

00:58:06,200 --> 00:58:03,690

so silly and nearly fall off their

1259

00:58:08,540 --> 00:58:06,210

chairs there's just one problem with

1260

00:58:14,180 --> 00:58:08,550

that idea what Sam you can't edit live

1261

00:58:18,230 --> 00:58:14,190

streams no better not and a big apology

1262

00:58:21,740 --> 00:58:18,240

it seems the club has led us down no bus

1263

00:58:24,800 --> 00:58:21,750

announcements this week and we can work

1264

00:58:27,830 --> 00:58:24,810

in a con make one reject on yep first

1265

00:58:30,410 --> 00:58:27,840

announcement widget members and guests

1266

00:58:33,380 --> 00:58:30,420

let's first to Houston town and family

1267

00:58:35,720 --> 00:58:33,390

will be leaving in five minutes very

1268

00:58:37,340 --> 00:58:35,730

good nobody photo is now if you leave

1269

00:58:41,540 --> 00:58:37,350

that in yeah well with thing that that's

1270

00:58:43,100 --> 00:58:41,550

that's always eager I'm now mrs. on Iran

1271

00:58:44,780 --> 00:58:43,110

so Jeff thank you so much for making

1272

00:58:47,540 --> 00:58:44,790

your way all the way over here for the

1273

00:58:49,640 --> 00:58:47,550

thing tank again curated Diane thank you

1274

00:58:52,280 --> 00:58:49,650

thank you no problem widget that's good

1275

00:58:54,520 --> 00:58:52,290

you say that and got uh haughtily bunker

1276

00:58:59,420 --> 00:58:54,530

I'll Spain I'm here hon music today oh

1277

00:59:01,850 --> 00:58:59,430

you said a gangsta bread coffee are you

1278

00:59:03,420 --> 00:59:01,860

finished off in room how can you save

1279

00:59:08,730 --> 00:59:03,430

every night

1280

00:59:11,940 --> 00:59:08,740

then you climb at Oyster venue clav my

1281

00:59:24,680 --> 00:59:11,950

twister 17 please are you have you

1282

00:59:28,290 --> 00:59:24,690

finished coffee I believe that in

1283

00:59:29,880 --> 00:59:28,300

Spokane if you're not gonna happen thank

1284

00:59:32,700 --> 00:59:29,890

you for coming over thank every way

1285

00:59:35,220 --> 00:59:32,710

across the bridge mm-hmm indeed as usual

1286

00:59:37,620 --> 00:59:35,230

as usual and dr. heo post thank you so

1287

00:59:41,370 --> 00:59:37,630

much for coming on oh thanks i'm

1288

00:59:43,140 --> 00:59:41,380

twittering I wasn't listening you see

1289

00:59:47,370 --> 00:59:43,150

why you can't do this alone you can't do

1290

00:59:48,900 --> 00:59:47,380

this in a podcast goodness me she must

1291

00:59:54,750 --> 00:59:48,910

have read she must have read a funny

1292

00:59:56,700 --> 00:59:54,760

twitter and and you've been a very

1293

00:59:58,559 --> 00:59:56,710

probably just point out that came out of

1294

01:00:00,990 --> 00:59:58,569

the mouth it did you've been a very

1295

01:00:31,160 --> 01:00:01,000

patient audience my friend is so until

1296

01:00:35,720 --> 01:00:32,900

you

1297

01:00:38,570 --> 01:00:35,730

this is Eugenie Scott National Center

1298

01:00:44,000 --> 01:00:38,580

for Science Education you can find us at

1299

01:00:45,920 --> 01:00:44,010

ww ncsc com come see us if you want to

1300

01:00:48,140 --> 01:00:45,930

know anything about the creationism and

1301

01:00:51,170 --> 01:00:48,150

evolution conflict in the United States

1302

01:00:52,940 --> 01:00:51,180

or more's the pity internationally these

1303

01:00:56,210 --> 01:00:52,950

days we are a clearinghouse for

1304

01:00:58,880 --> 01:00:56,220

information on this vexing but certainly

1305

01:01:14,910 --> 01:00:58,890

very interesting problem come and find

1306

01:01:20,609 --> 01:01:17,609

thank you for listening to the skeptic

1307

01:01:22,289 --> 01:01:20,619

zone and once again thank you for

1308

01:01:24,120 --> 01:01:22,299

everybody who's writing in letting me

1309

01:01:26,789 --> 01:01:24,130

know what you're doing while listening

1310

01:01:31,049 --> 01:01:26,799

to the skeptic zone a lot of people are

1311

01:01:32,819 --> 01:01:31,059

driving at the moment yeah take care you

1312

01:01:35,120 --> 01:01:32,829

might run into people who are listening

1313

01:01:37,799 --> 01:01:35,130

to us on their iPods is there jogging

1314

01:01:40,859 --> 01:01:37,809

wouldn't that be something and a special

1315

01:01:44,370 --> 01:01:40,869

a special shout out to all those people

1316

01:01:47,280 --> 01:01:44,380

who can't sleep right now sitting up in

1317

01:01:49,620 --> 01:01:47,290

bed sitting on your couch eyes wide open

1318

01:01:53,359 --> 01:01:49,630

wishing you could sleep battling

1319

01:01:59,670 --> 01:01:53,369

insomnia but listening to us instead I

1320

01:02:06,660 --> 01:01:59,680

hope we send you to sleep at all next

1321

01:02:13,410 --> 01:02:06,670

week if you Richard sword is signing off

1322

01:02:15,750 --> 01:02:13,420

from Sydney Australia you've been

1323

01:02:20,250 --> 01:02:15,760

listening to the skeptic zone visit our

1324

01:02:24,980 --> 01:02:20,260

website at [www.skeptics.org](http://www.skeptics.org) on TV for

1325

01:02:30,050 --> 01:02:24,990

comments contacts an extra video reports

