



1
00:00:13,490 --> 00:00:09,470
on this episode of skeptical scientists

2
00:00:17,870 --> 00:00:13,500
would love to tear down a paradise of

3
00:00:21,109 --> 00:00:17,880
course science told love of this science

4
00:00:23,660 --> 00:00:21,119
is not a religion science scientists

5
00:00:25,880 --> 00:00:23,670
would love to tear down a big name and

6
00:00:28,400 --> 00:00:25,890
say no that feel is incorrect this

7
00:00:30,890 --> 00:00:28,410
secret they might even get a big price

8
00:00:35,240 --> 00:00:30,900
for that they simply get advancement in

9
00:00:36,860 --> 00:00:35,250
their career this is not we science is a

10
00:00:38,450 --> 00:00:36,870
different thing I don't think you have a

11
00:00:41,840 --> 00:00:38,460
good impression of sight you're doing

12
00:00:44,959 --> 00:00:41,850
this broadcast but to tell me that this

13
00:00:47,869 --> 00:00:44,969

is published in peer-reviewed journals

14

00:00:51,200 --> 00:00:47,879

well I'd like to know if such an image a

15

00:00:53,750 --> 00:00:51,210

major observation goes contre to so many

16

00:01:00,319 --> 00:00:53,760

other things is it published in Nature

17

00:01:03,049 --> 00:01:00,329

in science George because this is I have

18

00:01:06,710 --> 00:01:03,059

300 episodes of why I think you are in

19

00:01:09,350 --> 00:01:06,720

incredibly generous spirit that that

20

00:01:12,590 --> 00:01:09,360

defies your philosophical

21

00:01:15,289 --> 00:01:12,600

rantings about atheism you are not an

22

00:01:17,630 --> 00:01:15,299

atheist in your soul George and it comes

23

00:01:20,780 --> 00:01:17,640

through loud and clear but your your

24

00:01:24,200 --> 00:01:20,790

just are not well informed about the

25

00:01:26,270 --> 00:01:24,210

science that contradicts this idea that

26
00:01:27,460 --> 00:01:26,280
that we are these biological robots in a

27
00:01:31,410 --> 00:01:27,470
meaningless world

28
00:01:39,140 --> 00:01:31,420
stay with us for skeptic Oh

29
00:01:41,370 --> 00:01:39,150
[Music]

30
00:01:42,840 --> 00:01:41,380
welcome to skeptic aware we explore

31
00:01:45,270 --> 00:01:42,850
controversial science with leading

32
00:01:47,370 --> 00:01:45,280
researchers thinkers and their critics

33
00:01:50,280 --> 00:01:47,380
I'm your host Alex Karras and for some

34
00:01:53,700 --> 00:01:50,290
time now I've had this take on all

35
00:01:56,240 --> 00:01:53,710
comers spirit attitude with regard to

36
00:01:58,890 --> 00:01:56,250
materialist science especially

37
00:02:00,570 --> 00:01:58,900
neuroscientist so in jime a friend of

38
00:02:02,160 --> 00:02:00,580

the skeptic Osho and one of the scouts

39

00:02:04,340 --> 00:02:02,170

out there scouting out people who might

40

00:02:06,660 --> 00:02:04,350

be willing to engage in this topic

41

00:02:08,880 --> 00:02:06,670

suggested today's guest dr. George

42

00:02:11,490 --> 00:02:08,890

Parkes eNOS I was like sure he's an

43

00:02:13,199 --> 00:02:11,500

acclaimed neuroscientist his work which

44

00:02:15,090 --> 00:02:13,209

is really quite extraordinary he's

45

00:02:16,740 --> 00:02:15,100

developed this atlas if you will for

46

00:02:18,660 --> 00:02:16,750

mapping the brain function of

47

00:02:20,430 --> 00:02:18,670

experimental animals and which is useful

48

00:02:22,110 --> 00:02:20,440

developing medicines or treatments or

49

00:02:24,750 --> 00:02:22,120

something like that so it's obviously

50

00:02:26,640 --> 00:02:24,760

really important work now the actual

51
00:02:28,380 --> 00:02:26,650
debate between George and I and we did

52
00:02:30,270 --> 00:02:28,390
set it up as a debate he had full

53
00:02:31,860 --> 00:02:30,280
knowledge of everything I was gonna ask

54
00:02:33,690 --> 00:02:31,870
him and I even previewed some of the

55
00:02:36,780 --> 00:02:33,700
clips I was gonna send him beforehand

56
00:02:39,750 --> 00:02:36,790
but the debate turned out to be more of

57
00:02:41,729 --> 00:02:39,760
a trip down memory lane for myself and

58
00:02:43,800 --> 00:02:41,739
probably for many of you sceptical

59
00:02:46,830 --> 00:02:43,810
listeners who have tried to walk people

60
00:02:50,390 --> 00:02:46,840
along the path from the old paradigm of

61
00:02:52,710 --> 00:02:50,400
mind equals brain to whatever lies

62
00:02:54,870 --> 00:02:52,720
beyond enough said

63
00:02:57,240 --> 00:02:54,880

here's the interview today we're joined

64

00:02:59,400 --> 00:02:57,250

by acclaimed neuroscientist professor

65

00:03:01,650 --> 00:02:59,410

George box eNOS from the University of

66

00:03:04,590 --> 00:03:01,660

New South Wales Australia where he's

67

00:03:07,380 --> 00:03:04,600

both a highly regarded academic having

68

00:03:09,240 --> 00:03:07,390

published more than 45 books on the

69

00:03:12,530 --> 00:03:09,250

structure of the brain and neuroscience

70

00:03:15,479 --> 00:03:12,540

as well as a very highly respected

71

00:03:17,520 --> 00:03:15,489

neuroscience researcher who's striving

72

00:03:21,300 --> 00:03:17,530

to make our lives better by

73

00:03:23,550 --> 00:03:21,310

understanding the human brain dr. Parkes

74

00:03:26,580 --> 00:03:23,560

eNOS it's quite an honor to have you on

75

00:03:29,780 --> 00:03:26,590

thank you for joining on schedule may I

76

00:03:32,310 --> 00:03:29,790

start with a quote from Mark Twain I

77

00:03:38,030 --> 00:03:32,320

always get them embarrassed when they

78

00:03:44,880 --> 00:03:41,610

love Mark Twain quotes and I think that

79

00:03:46,530 --> 00:03:44,890

that's very fitting in this case because

80

00:03:48,300 --> 00:03:46,540

anyone who would look at your bio would

81

00:03:51,390 --> 00:03:48,310

see that your accomplishments are many

82

00:03:53,930 --> 00:03:51,400

and you're really to be highly respected

83

00:03:57,470 --> 00:03:53,940

for that I mean a life in science is

84

00:04:00,690 --> 00:03:57,480

difficult even if it's a mainstream

85

00:04:02,550 --> 00:04:00,700

science or even more difficult with some

86

00:04:04,410 --> 00:04:02,560

of the people we talked to who venture

87

00:04:06,449 --> 00:04:04,420

outside of the mainstream but it's still

88

00:04:07,770 --> 00:04:06,459

a difficult life and it's a life of

89

00:04:15,120 --> 00:04:07,780

service and trying to make life better

90

00:04:17,610 --> 00:04:15,130

so it has been fun scientists are

91

00:04:20,310 --> 00:04:17,620

usually just following their curiosity

92

00:04:24,090 --> 00:04:20,320

so there is inherent pleasure in that

93

00:04:28,790 --> 00:04:24,100

and they are not out there to solve the

94

00:04:32,159 --> 00:04:28,800

world's problems they really they are to

95

00:04:34,920 --> 00:04:32,169

find something some relation in nature

96

00:04:39,510 --> 00:04:34,930

that's what actually Flores said who

97

00:04:44,040 --> 00:04:39,520

discovered the penicillin and who did

98

00:04:47,280 --> 00:04:44,050

more than him for Humanity and yet even

99

00:04:51,690 --> 00:04:47,290

he said that it was an academic question

100

00:04:53,850 --> 00:04:51,700

that he was asking and the suffering

101

00:04:56,280 --> 00:04:53,860

humanity was not in his mind

102

00:04:59,430 --> 00:04:56,290

it was pleasant that his work was of

103

00:05:03,870 --> 00:04:59,440

help but it wasn't the reason he did it

104

00:05:07,110 --> 00:05:03,880

so we are not all that altruistic that

105

00:05:08,580 --> 00:05:07,120

is a wonderful wonderful lead-in to what

106

00:05:10,920 --> 00:05:08,590

we're going to talk about because I

107

00:05:13,469 --> 00:05:10,930

think that gets it in many ways gets at

108

00:05:15,960 --> 00:05:13,479

the heart of what's really going on and

109

00:05:19,800 --> 00:05:15,970

whether we really do understand even

110

00:05:22,650 --> 00:05:19,810

ourselves our motivations and the larger

111

00:05:24,240 --> 00:05:22,660

way in which we fit into this world and

112

00:05:26,340 --> 00:05:24,250

who we are and what this world is all

113

00:05:27,600 --> 00:05:26,350

about so let me just tell listeners that

114

00:05:30,210 --> 00:05:27,610

we're gonna do something a little bit

115

00:05:32,940 --> 00:05:30,220

different George because you are not

116

00:05:35,340 --> 00:05:32,950

here to sell any of your recent books

117

00:05:37,350 --> 00:05:35,350

although I'm sure if folks want to go

118

00:05:38,880 --> 00:05:37,360

and check out your books most of them

119

00:05:41,310 --> 00:05:38,890

are academic titles do you have any

120

00:05:43,140 --> 00:05:41,320

titles that are more for the general

121

00:05:44,790 --> 00:05:43,150

population I I don't really know the

122

00:05:48,330 --> 00:05:44,800

answer to that so I apologize but tell

123

00:05:54,659 --> 00:05:48,340

me do you there's a problem it's in

124

00:05:56,620 --> 00:05:54,669

Greek and for most people that's Greek

125

00:06:02,559 --> 00:05:56,630

to me

126

00:06:04,529 --> 00:06:02,569

it's a novel that deals with some of the

127

00:06:10,450 --> 00:06:04,539

issues that you are concerned with

128

00:06:15,550 --> 00:06:10,460

freewill nature nurture as well as the

129

00:06:17,320 --> 00:06:15,560

environment and religion and I hope it

130

00:06:20,290 --> 00:06:17,330

would be published in English right now

131

00:06:26,890 --> 00:06:20,300

it's in the hands of an agent it is

132

00:06:28,990 --> 00:06:26,900

called in His image and it refers to a

133

00:06:30,969 --> 00:06:29,000

rather asks a question what would

134

00:06:33,700 --> 00:06:30,979

someone with a genetic endowment of

135

00:06:37,560 --> 00:06:33,710

Christ say about the state of the

136

00:06:41,980 --> 00:06:37,570

environment today and the issues of

137

00:06:44,980 --> 00:06:41,990

freewill determinism in what forms our

138

00:06:47,350 --> 00:06:44,990

personality and do we have any freedom

139

00:06:50,050 --> 00:06:47,360

at all coming to this and it is

140

00:06:51,490 --> 00:06:50,060

understandable by laypeople and

141

00:06:55,450 --> 00:06:51,500

hopefully it will be published in

142

00:06:57,040 --> 00:06:55,460

English Wow I mean I mean right off the

143

00:06:58,659 --> 00:06:57,050

but I have to digress him in a little

144

00:07:02,980 --> 00:06:58,669

bit because I'm surprised are you a

145

00:07:06,219 --> 00:07:02,990

believer in Jesus Christ as in just

146

00:07:10,089 --> 00:07:06,229

figured you were asking that I am an

147

00:07:12,959 --> 00:07:10,099

admirer of Christ as a man as a human

148

00:07:19,089 --> 00:07:12,969

being and I don't have any room for

149

00:07:22,629 --> 00:07:19,099

metaphysics okay good I mean highly

150

00:07:24,700 --> 00:07:22,639

question the the historicity of the

151
00:07:26,050 --> 00:07:24,710
figure Jesus is portrayed in the Bible I

152
00:07:28,930 --> 00:07:26,060
don't know that that were ever there

153
00:07:32,110 --> 00:07:28,940
ever was such an individual exactly like

154
00:07:35,770 --> 00:07:32,120
that and I really questioned the source

155
00:07:38,379 --> 00:07:35,780
in an interpretation of that book but

156
00:07:40,240 --> 00:07:38,389
hey that's that's an aside we can talk

157
00:07:41,740 --> 00:07:40,250
about that another time I just wanted to

158
00:07:43,749 --> 00:07:41,750
tell people that you know what we're

159
00:07:45,370 --> 00:07:43,759
gonna try and do today I think is you

160
00:07:47,110 --> 00:07:45,380
were kind enough to join me in what

161
00:07:49,839 --> 00:07:47,120
really amounts to somewhat of a debate a

162
00:07:51,640 --> 00:07:49,849
friendly debate discussion about some of

163
00:07:53,320 --> 00:07:51,650

these issues surrounding the topics that

164

00:07:56,370 --> 00:07:53,330

we talked about so much here on skeptic

165

00:07:59,459 --> 00:07:56,380

oh and that is consciousness and

166

00:08:02,100 --> 00:07:59,469

scientific materialism which goes

167

00:08:04,290 --> 00:08:02,110

hand-in-hand I think with the

168

00:08:07,600 --> 00:08:04,300

fundamental assumption made by

169

00:08:08,829 --> 00:08:07,610

neuroscience and your name and your work

170

00:08:09,450 --> 00:08:08,839

was brought to my attention by a

171

00:08:11,879 --> 00:08:09,460

listener who

172

00:08:14,640 --> 00:08:11,889

sent me this little article this piece

173

00:08:18,029 --> 00:08:14,650

that you wrote titled why psychology

174

00:08:21,409 --> 00:08:18,039

lost its soul everything comes from the

175

00:08:24,689 --> 00:08:21,419

brain in which you kind of call to task

176

00:08:27,450 --> 00:08:24,699

psychologists for kind of stepping

177

00:08:28,920 --> 00:08:27,460

gingerly around this issue of soul and

178

00:08:30,089 --> 00:08:28,930

soulfulness and you're saying look

179

00:08:34,529 --> 00:08:30,099

there's no such thing

180

00:08:36,480 --> 00:08:34,539

we are brain based brain first beings

181

00:08:40,110 --> 00:08:36,490

and we should just kind of accept that

182

00:08:44,730 --> 00:08:40,120

so is that kind of our starting point

183

00:08:47,280 --> 00:08:44,740

here or your said it and I think that we

184

00:08:49,139 --> 00:08:47,290

actually could be better people can

185

00:08:51,870 --> 00:08:49,149

understand the others better can forgive

186

00:08:57,269 --> 00:08:51,880

better you mentioned Christ and he was

187

00:08:59,579 --> 00:08:57,279

the first one that I know who said

188

00:09:03,949 --> 00:08:59,589

something neuroscience says today that

189

00:09:07,980 --> 00:09:03,959

there's no freedom there is no dignity

190

00:09:10,860 --> 00:09:07,990

there's just genes that are sculpted by

191

00:09:13,620 --> 00:09:10,870

experience and you can't blame your

192

00:09:16,460 --> 00:09:13,630

genes and you can't blame that you were

193

00:09:19,920 --> 00:09:16,470

born in the US or in Afghanistan and

194

00:09:23,400 --> 00:09:19,930

Jesus said for those who of those who

195

00:09:27,420 --> 00:09:23,410

crucified Him that they don't know what

196

00:09:30,440 --> 00:09:27,430

they're doing he forgave them that is he

197

00:09:35,040 --> 00:09:30,450

understood that the actions of humans

198

00:09:37,800 --> 00:09:35,050

are based on only if he wouldn't have

199

00:09:40,800 --> 00:09:37,810

known allergies but on the environment

200

00:09:42,810 --> 00:09:40,810

that produced them that shaped them and

201
00:09:45,180 --> 00:09:42,820
that's what neuroscience s today that

202
00:09:47,970 --> 00:09:45,190
the behavior is determined by two

203
00:09:51,300 --> 00:09:47,980
factors and only two factors none other

204
00:09:53,430 --> 00:09:51,310
which are the genetic endowment that we

205
00:09:55,920 --> 00:09:53,440
get from parents and you have no option

206
00:09:58,710 --> 00:09:55,930
no choice what parent would to select

207
00:10:01,769 --> 00:09:58,720
and the environmental influence on that

208
00:10:04,019 --> 00:10:01,779
genetic endowment and you didn't choose

209
00:10:06,540 --> 00:10:04,029
two people in the United States who

210
00:10:09,060 --> 00:10:06,550
whatever religious parents from

211
00:10:11,430 --> 00:10:09,070
non-religious parents it was thrust upon

212
00:10:13,650 --> 00:10:11,440
you you have no choice and therefore you

213
00:10:15,630 --> 00:10:13,660

cannot be blamed this can result in a

214

00:10:17,910 --> 00:10:15,640

faction of society and I can go into

215

00:10:20,660 --> 00:10:17,920

that if you like once you understand

216

00:10:24,150 --> 00:10:20,670

that you can forgive people

217

00:10:27,180 --> 00:10:24,160

okay I don't agree with much of that but

218

00:10:30,900 --> 00:10:27,190

what I thought we might Center this

219

00:10:33,329 --> 00:10:30,910

discussion around are some quotes that

220

00:10:35,670 --> 00:10:33,339

I've sent you from some former guests

221

00:10:37,860 --> 00:10:35,680

that I think frame up this discussion in

222

00:10:39,480 --> 00:10:37,870

a slightly different way and you know

223

00:10:43,439 --> 00:10:39,490

the first one I was going to play for

224

00:10:46,259 --> 00:10:43,449

our audience and for you is from UCLA

225

00:10:48,329 --> 00:10:46,269

research psychiatrist and fellow brains

226

00:10:50,910 --> 00:10:48,339

research or someone who's very much into

227

00:10:53,939 --> 00:10:50,920

brain research and was really did some

228

00:10:56,249 --> 00:10:53,949

pioneering work with brain imaging in

229

00:10:59,519 --> 00:10:56,259

order to understand and help people

230

00:11:01,470 --> 00:10:59,529

overcome OCD obsessive compulsive

231

00:11:04,499 --> 00:11:01,480

disorder that is dr. Jeffery Schwartz

232

00:11:07,680 --> 00:11:04,509

from University of California Los

233

00:11:10,730 --> 00:11:07,690

Angeles who is you know to his credit

234

00:11:13,590 --> 00:11:10,740

one of the world recognized leaders in

235

00:11:16,050 --> 00:11:13,600

neuroplasticity let me play for you the

236

00:11:21,449 --> 00:11:16,060

quote that he has that I think gets to

237

00:11:24,540 --> 00:11:21,459

in a way what you were saying they are

238

00:11:29,639 --> 00:11:24,550

committed ideologically to the notion

239

00:11:34,019 --> 00:11:29,649

that everything is the brain so you get

240

00:11:36,389 --> 00:11:34,029

into this profound mismatch and I've the

241

00:11:39,509 --> 00:11:36,399

mismatch is that itself up to any person

242

00:11:41,780 --> 00:11:39,519

who has any kind of experience with with

243

00:11:44,519 --> 00:11:41,790

meditation or even just basic

244

00:11:47,960 --> 00:11:44,529

contemplation that this is going on and

245

00:11:50,460 --> 00:11:47,970

yet they're confronted with an academic

246

00:11:52,500 --> 00:11:50,470

explanation that is a stone wall and

247

00:11:55,920 --> 00:11:52,510

denying any of it is that that's not a

248

00:11:58,889 --> 00:11:55,930

reasonable summary of the situation what

249

00:12:02,850 --> 00:11:58,899

dr. Schwartz is alluding to and I think

250

00:12:04,500 --> 00:12:02,860

you kind of reframed it in your really

251

00:12:06,960 --> 00:12:04,510

you're retelling of the Jesus story

252

00:12:09,329 --> 00:12:06,970

because Jesus wasn't saying any of that

253

00:12:13,290 --> 00:12:09,339

Jesus was saying that we are not just

254

00:12:16,470 --> 00:12:13,300

our body Jesus is coming completely from

255

00:12:20,069 --> 00:12:16,480

the understanding that we are more than

256

00:12:24,240 --> 00:12:20,079

our brain when Jesus is saying that he

257

00:12:27,629 --> 00:12:24,250

is reflecting the same thing that almost

258

00:12:30,990 --> 00:12:27,639

every wisdom tradition throughout time

259

00:12:33,460 --> 00:12:31,000

has said so when I hear dr. Schwartz

260

00:12:35,139 --> 00:12:33,470

talk up about the profound mismatch

261

00:12:38,110 --> 00:12:35,149

I think what he's talking about George

262

00:12:39,910 --> 00:12:38,120

is that 90% of people no matter how you

263

00:12:41,800 --> 00:12:39,920

ask the question whether you ask the

264

00:12:43,660 --> 00:12:41,810

question do you believe in God whether

265

00:12:44,530 --> 00:12:43,670

you ask the question do you believe in a

266

00:12:46,509 --> 00:12:44,540

higher power

267

00:12:49,180 --> 00:12:46,519

do you have free will do you believe

268

00:12:50,710 --> 00:12:49,190

everything is predetermined more than 90

269

00:12:53,620 --> 00:12:50,720

percent of people have this experience

270

00:12:55,840 --> 00:12:53,630

that they are more that there is

271

00:12:58,090 --> 00:12:55,850

something more and these great books

272

00:13:00,160 --> 00:12:58,100

like the Bible if you want to call that

273

00:13:02,079 --> 00:13:00,170

a great book reflect that so I just

274

00:13:04,509 --> 00:13:02,089

don't understand how you can turn that

275

00:13:08,350 --> 00:13:04,519

around and say that it was some kind of

276

00:13:11,350 --> 00:13:08,360

the treatise for neuroscience it was

277

00:13:14,620 --> 00:13:11,360

completely under the the understanding

278

00:13:17,439 --> 00:13:14,630

that we are more than these biological

279

00:13:19,329 --> 00:13:17,449

robots right you can understand Christ

280

00:13:22,509 --> 00:13:19,339

understood the behavior of those who

281

00:13:24,819 --> 00:13:22,519

crucified Him he understood that they

282

00:13:27,069 --> 00:13:24,829

would have been on his side if only they

283

00:13:30,189 --> 00:13:27,079

had been exposed to his teachings and

284

00:13:34,030 --> 00:13:30,199

not to the Pharisees teachings some

285

00:13:37,060 --> 00:13:34,040

other teachings now if you take the view

286

00:13:40,569 --> 00:13:37,070

that it's the brain and only and that

287

00:13:45,310 --> 00:13:40,579

there is nothing metaphysical then you

288

00:13:48,670 --> 00:13:45,320

don't blame the soul for the autistic

289

00:13:54,120 --> 00:13:48,680

child that is misbehaving it is cruel

290

00:13:58,530 --> 00:13:54,130

Alex to blame the soul of a little child

291

00:14:01,449 --> 00:13:58,540

rather than a misfiring of neurons

292

00:14:04,509 --> 00:14:01,459

misconnection of neurons a developmental

293

00:14:08,079 --> 00:14:04,519

error in the formation of the brain of

294

00:14:11,130 --> 00:14:08,089

the child this again will become you

295

00:14:14,530 --> 00:14:11,140

become if you can forgive easier

296

00:14:17,559 --> 00:14:14,540

somebody who left you Europe let's say

297

00:14:18,309 --> 00:14:17,569

you're a scorned lover your girlfriend

298

00:14:22,389 --> 00:14:18,319

left you

299

00:14:24,960 --> 00:14:22,399

right the churches are more than 50% but

300

00:14:28,930 --> 00:14:24,970

you will interfere with her at her house

301

00:14:31,930 --> 00:14:28,940

at her work at her Facebook page a

302

00:14:35,050 --> 00:14:31,940

twitter account at the internet in

303

00:14:37,809 --> 00:14:35,060

general and you might even hurt her you

304

00:14:40,689 --> 00:14:37,819

might even kill her I'm telling you if

305

00:14:43,720 --> 00:14:40,699

you understand that she had no more

306

00:14:47,560 --> 00:14:43,730

capacity to keep loving you when she

307

00:14:49,860 --> 00:14:47,570

lost that love then you are able

308

00:14:53,530 --> 00:14:49,870

to forget her and not love her anymore

309

00:14:55,600 --> 00:14:53,540

then you can forgive herself

310

00:14:58,150 --> 00:14:55,610

that's fine she dropped me she doesn't

311

00:15:00,820 --> 00:14:58,160

love me that's it and you can become

312

00:15:03,760 --> 00:15:00,830

gentler in your behavior and understand

313

00:15:06,880 --> 00:15:03,770

the behavior of the people in

314

00:15:11,110 --> 00:15:06,890

Afghanistan when we are told that this

315

00:15:15,010 --> 00:15:11,120

woman burned the Koran and the men

316

00:15:17,410 --> 00:15:15,020

chased her to stone her to death you can

317

00:15:19,360 --> 00:15:17,420

understand them that's the environment

318

00:15:20,800 --> 00:15:19,370

that's was produced and if you were born

319

00:15:23,800 --> 00:15:20,810

in Afghanistan and I were born in

320

00:15:26,440 --> 00:15:23,810

Afghanistan likely will be stoning that

321

00:15:29,860 --> 00:15:26,450

woman - but we were born in a different

322

00:15:32,860 --> 00:15:29,870

environment and we do not stone a woman

323

00:15:35,500 --> 00:15:32,870

who burned the Bible so you can

324

00:15:38,320 --> 00:15:35,510

understand behavior better if you follow

325

00:15:39,880 --> 00:15:38,330

this paradigm around other than the

326

00:15:40,300 --> 00:15:39,890

metaphysical paradigm that you are

327

00:15:45,580 --> 00:15:40,310

following

328

00:15:49,990 --> 00:15:45,590

I mean Georgia I'm kind of dumbstruck

329

00:15:52,630 --> 00:15:50,000

because your philosophical humanitarian

330

00:15:55,240 --> 00:15:52,640

sentiments are awesome for an atheist

331

00:15:57,490 --> 00:15:55,250

but that's why I like to keep bringing

332

00:16:00,460 --> 00:15:57,500

things back to science because I think

333

00:16:02,890 --> 00:16:00,470

it kind of clears the table of a lot of

334

00:16:04,690 --> 00:16:02,900

flowery talk that we could agree on

335

00:16:07,240 --> 00:16:04,700

do you understand dr. Schwartz's

336

00:16:09,670 --> 00:16:07,250

research dr. schwartz is a brain

337

00:16:12,630 --> 00:16:09,680

scientist like you are and what he

338

00:16:15,310 --> 00:16:12,640

sought to do is find out whether

339

00:16:17,950 --> 00:16:15,320

thinking about thinking that is

340

00:16:20,410 --> 00:16:17,960

mindfulness which isn't in one of your

341

00:16:22,180 --> 00:16:20,420

two things that you said creates all our

342

00:16:25,510 --> 00:16:22,190

experience thinking about thinking

343

00:16:27,540 --> 00:16:25,520

whether that affects the structure of

344

00:16:30,940 --> 00:16:27,550

the human brain and he found

345

00:16:32,620 --> 00:16:30,950

conclusively that it does so that's why

346

00:16:36,130 --> 00:16:32,630

he's one of the world lore ID

347

00:16:38,980 --> 00:16:36,140

authorities on neuroplasticity because

348

00:16:40,570 --> 00:16:38,990

he found that mindfulness does affect

349

00:16:42,340 --> 00:16:40,580

the structure of the brain so at the

350

00:16:43,660 --> 00:16:42,350

very least now we have a question of the

351
00:16:45,010 --> 00:16:43,670
chicken and the egg I mean if you think

352
00:16:46,960 --> 00:16:45,020
the brain creates everything and

353
00:16:48,970 --> 00:16:46,970
thoughts create the brain well then what

354
00:16:51,580 --> 00:16:48,980
came first thoughts or the brain come to

355
00:16:56,790 --> 00:16:51,590
that but firstly I need to correct you

356
00:16:59,020 --> 00:16:56,800
something you say you I am autistic or

357
00:17:00,550 --> 00:16:59,030
humanitarian whatever you mentioned

358
00:17:03,970 --> 00:17:00,560
they're foreign

359
00:17:08,140 --> 00:17:03,980
that is really below the belt that's

360
00:17:12,220 --> 00:17:08,150
just not correct because Alan why just

361
00:17:15,460 --> 00:17:12,230
later because atheists can contribute to

362
00:17:16,210 --> 00:17:15,470
the society after East Italy as well as

363
00:17:20,980 --> 00:17:16,220

anybody else

364

00:17:23,799 --> 00:17:20,990

in fact the I know one study we are the

365

00:17:26,770 --> 00:17:23,809

children all over you might be awareness

366

00:17:28,360 --> 00:17:26,780

of Christians the children of Muslims in

367

00:17:33,330 --> 00:17:28,370

the Krishna the children of atheists

368

00:17:34,590 --> 00:17:33,340

they were rated on the autism spectrum

369

00:17:37,030 --> 00:17:34,600

[Music]

370

00:17:38,970 --> 00:17:37,040

but why would we want to compare these

371

00:17:40,620 --> 00:17:38,980

phony-baloney religions I mean

372

00:17:44,020 --> 00:17:40,630

Christianity uh

373

00:17:45,910 --> 00:17:44,030

Islam I mean these are not religious

374

00:17:48,490 --> 00:17:45,920

traditions that we hold up as the

375

00:17:50,820 --> 00:17:48,500

pillars of high thought no these are

376

00:17:52,870 --> 00:17:50,830

people that have been in many ways

377

00:17:54,460 --> 00:17:52,880

manipulated and controlled into a

378

00:17:56,230 --> 00:17:54,470

certain way of thinking in the same way

379

00:17:58,390 --> 00:17:56,240

that atheists have that's why we got to

380

00:18:00,400 --> 00:17:58,400

kind of clear the table of all that and

381

00:18:02,260 --> 00:18:00,410

try and sort it out through the best we

382

00:18:04,600 --> 00:18:02,270

can through the science that we have who

383

00:18:07,840 --> 00:18:04,610

cares about the study of whether you

384

00:18:10,030 --> 00:18:07,850

know Mormons or Scientologists to her or

385

00:18:13,090 --> 00:18:10,040

atheists are you know more loving in

386

00:18:15,940 --> 00:18:13,100

some situation I don't care I was not so

387

00:18:17,590 --> 00:18:15,950

bad i am i have to refute that

388

00:18:20,140 --> 00:18:17,600

alex and you have to allow me the time

389

00:18:22,870 --> 00:18:20,150

and i'll tell you this the Christians in

390

00:18:25,990 --> 00:18:22,880

the Muslims constitute something like

391

00:18:28,210 --> 00:18:26,000

maybe 60% maybe more I don't know other

392

00:18:30,850 --> 00:18:28,220

of the population and therefore I'm

393

00:18:33,190 --> 00:18:30,860

comparing the Atheist chill the children

394

00:18:34,840 --> 00:18:33,200

of atheists with the children at least

395

00:18:37,480 --> 00:18:34,850

that study compared the children of

396

00:18:39,850 --> 00:18:37,490

atheists with the children or people who

397

00:18:42,790 --> 00:18:39,860

have faith in these faiths all right and

398

00:18:47,650 --> 00:18:42,800

they found that the two latest actually

399

00:18:50,260 --> 00:18:47,660

were scored better on compassion on

400

00:18:52,480 --> 00:18:50,270

autism than the other children I am NOT

401
00:18:56,380 --> 00:18:52,490
claiming moral superiority for their

402
00:18:59,890 --> 00:18:56,390
case I am just taking Ambridge to your

403
00:19:04,150 --> 00:18:59,900
statement that for an atheist now Alex

404
00:19:06,340 --> 00:19:04,160
you need to take that back I take it

405
00:19:08,770 --> 00:19:06,350
back in the sense that you called me on

406
00:19:11,440 --> 00:19:08,780
it George but I don't take it back in

407
00:19:13,620 --> 00:19:11,450
the sense that I intended it which is

408
00:19:17,070 --> 00:19:13,630
that it is philosophically

409
00:19:19,980 --> 00:19:17,080
coherent to even could suggest that

410
00:19:22,170 --> 00:19:19,990
there is a moral scale for someone who

411
00:19:25,080 --> 00:19:22,180
believes that they're a biological robot

412
00:19:27,660 --> 00:19:25,090
in life has no meaning if if life you

413
00:19:29,760 --> 00:19:27,670

know the the famous French philosopher

414

00:19:33,390 --> 00:19:29,770

summed it up best he said there's only

415

00:19:36,000 --> 00:19:33,400

one philosophical question suicide

416

00:19:37,680 --> 00:19:36,010

if you don't think life has meaning if

417

00:19:41,240 --> 00:19:37,690

you don't think you have freewill

418

00:19:43,350 --> 00:19:41,250

then why would anyone perpetuate this

419

00:19:45,300 --> 00:19:43,360

ridiculous farce that they found

420

00:19:48,150 --> 00:19:45,310

themselves in this is I think the

421

00:19:50,400 --> 00:19:48,160

inherent contradiction in atheism and

422

00:19:53,310 --> 00:19:50,410

and especially in humanitarian atheism

423

00:19:55,350 --> 00:19:53,320

that's why I say clear off all that

424

00:19:57,120 --> 00:19:55,360

[h__\h] and let's look at the science

425

00:19:59,850 --> 00:19:57,130

to find out if the assumption that

426
00:20:01,860 --> 00:19:59,860
atheists make which is the neuroscience

427
00:20:03,270 --> 00:20:01,870
premise that you are nothing more than

428
00:20:04,380 --> 00:20:03,280
your brain that you are a biological

429
00:20:06,950 --> 00:20:04,390
robot

430
00:20:09,840 --> 00:20:06,960
let's examine whether the evidence

431
00:20:12,540 --> 00:20:09,850
stands up to that and if it doesn't then

432
00:20:14,070 --> 00:20:12,550
we you have to move on if it does then

433
00:20:17,520 --> 00:20:14,080
I'm fine with all the flowery

434
00:20:19,920 --> 00:20:17,530
philosophical stuffs do not feel love

435
00:20:23,360 --> 00:20:19,930
for their children even though they

436
00:20:26,280 --> 00:20:23,370
believe it is nothing in terms of

437
00:20:28,760 --> 00:20:26,290
metaphysical or that that we have no

438
00:20:31,950 --> 00:20:28,770

purpose on the planet and whatever

439

00:20:34,530 --> 00:20:31,960

biology produced for all of us you mean

440

00:20:36,780 --> 00:20:34,540

they have no love would I have news for

441

00:20:40,640 --> 00:20:36,790

you for their parents too and for their

442

00:20:47,250 --> 00:20:44,610

think the only honest philosophical

443

00:20:50,700 --> 00:20:47,260

argument from the Atheist camp in that

444

00:20:52,110 --> 00:20:50,710

comes from dr. Daniel Dennett even

445

00:20:53,850 --> 00:20:52,120

though I think he's somewhat of a nitwit

446

00:20:57,030 --> 00:20:53,860

when he said consciousness is an

447

00:20:58,830 --> 00:20:57,040

illusion that is your position I think I

448

00:21:01,770 --> 00:20:58,840

must correct me if I'm wrong but you're

449

00:21:04,950 --> 00:21:01,780

saying our sense that we have a

450

00:21:07,220 --> 00:21:04,960

conscious experience that we have free

451
00:21:09,420 --> 00:21:07,230
will that we have an independent

452
00:21:11,520 --> 00:21:09,430
experience you're saying that is an

453
00:21:12,930 --> 00:21:11,530
illusion created by our brain are you

454
00:21:15,780 --> 00:21:12,940
not are you saying something different

455
00:21:18,290 --> 00:21:15,790
what I'm saying I'm saying that the

456
00:21:22,500 --> 00:21:18,300
article that you read that the

457
00:21:25,530 --> 00:21:22,510
psychology lost its soul that is the

458
00:21:27,150 --> 00:21:25,540
soul is surplus to requirements souls

459
00:21:30,270 --> 00:21:27,160
are superfluous I

460
00:21:33,420 --> 00:21:30,280
it concerns their understanding and the

461
00:21:35,940 --> 00:21:33,430
modification of human behavior or animal

462
00:21:37,710 --> 00:21:35,950
behavior that is what I'm saying now you

463
00:21:41,760 --> 00:21:37,720

are telling me to solve the puzzle of

464

00:21:45,810 --> 00:21:41,770

consciousness well inside no I said

465

00:21:49,260 --> 00:21:45,820

Lacan and science cancel everything can

466

00:21:51,330 --> 00:21:49,270

solve something's certainly we haven't

467

00:21:55,980 --> 00:21:51,340

maybe who'll agree with it we haven't

468

00:22:00,540 --> 00:21:55,990

made progress in cosmology or whatever

469

00:22:02,910 --> 00:22:00,550

else by opening the Holy Scriptures we

470

00:22:08,670 --> 00:22:02,920

made progress slowly often with the

471

00:22:11,430 --> 00:22:08,680

errors by the scientific method so I am

472

00:22:13,470 --> 00:22:11,440

NOT claiming that I will answer you all

473

00:22:17,040 --> 00:22:13,480

your questions but I certainly can say

474

00:22:19,380 --> 00:22:17,050

that a psychologist does not need to

475

00:22:22,230 --> 00:22:19,390

evoke the concept of the soul to

476
00:22:25,820 --> 00:22:22,240
understand in the modify behavior such

477
00:22:28,320 --> 00:22:25,830
as our sets of compulsive disorders

478
00:22:30,630 --> 00:22:28,330
prevent accidents whatever the evasive

479
00:22:34,650 --> 00:22:30,640
work or the basis that they have in

480
00:22:38,730 --> 00:22:34,660
front of them a biological organ a human

481
00:22:41,610 --> 00:22:38,740
with a brain okay I tell you what

482
00:22:43,380 --> 00:22:41,620
there's a lot more we could go on about

483
00:22:45,030 --> 00:22:43,390
this issue but maybe let's try and

484
00:22:48,450 --> 00:22:45,040
approach it from it from a different

485
00:22:50,520 --> 00:22:48,460
angle a second clip I would try and play

486
00:22:51,660 --> 00:22:50,530
for you if you will and you've buried a

487
00:22:54,780 --> 00:22:51,670
debate I love where you're coming from

488
00:22:56,490 --> 00:22:54,790

I'm somewhat surprised again for the

489

00:22:57,710 --> 00:22:56,500

reasons I mentioned but it's awesome so

490

00:23:01,110 --> 00:22:57,720

let me play for you

491

00:23:03,090 --> 00:23:01,120

philosopher dr. bernardo Kastrup who i

492

00:23:04,950 --> 00:23:03,100

sent you this clip as well but let me

493

00:23:07,950 --> 00:23:04,960

play it for our audience who was

494

00:23:11,820 --> 00:23:07,960

probably well aware of Bernardo here so

495

00:23:14,160 --> 00:23:11,830

let me play this you see you we always

496

00:23:16,140 --> 00:23:14,170

start from the fact that we are

497

00:23:18,780 --> 00:23:16,150

conscious consciousness is the only

498

00:23:21,570 --> 00:23:18,790

carrier of reality in existence that we

499

00:23:23,760 --> 00:23:21,580

can know everything else is abstraction

500

00:23:26,070 --> 00:23:23,770

or inferences we make from consciousness

501
00:23:28,530 --> 00:23:26,080
but our culture is driven by this notion

502
00:23:30,510 --> 00:23:28,540
that the real reality is outside

503
00:23:32,160 --> 00:23:30,520
consciousness it's a material universe

504
00:23:34,650 --> 00:23:32,170
fundamentally independent of

505
00:23:37,380 --> 00:23:34,660
consciousness and that our inner lives

506
00:23:39,690 --> 00:23:37,390
our subjective experiences arise from

507
00:23:40,400 --> 00:23:39,700
specific arrangements of material in

508
00:23:43,100 --> 00:23:40,410
this

509
00:23:44,480 --> 00:23:43,110
abstract world outside mind that's the

510
00:23:46,460 --> 00:23:44,490
philosophy of materialism which

511
00:23:49,160 --> 00:23:46,470
underlies the most academic work and

512
00:23:52,700 --> 00:23:49,170
their lives most of science as you know

513
00:23:54,800 --> 00:23:52,710

it today but also underlies that the

514

00:23:58,130 --> 00:23:54,810

value system of our culture our economic

515

00:24:00,530 --> 00:23:58,140

system for instance if matter is the

516

00:24:03,470 --> 00:24:00,540

only real reality consciousness being

517

00:24:06,020 --> 00:24:03,480

just a kind of transient temporary side

518

00:24:09,400 --> 00:24:06,030

effect then what meaning can there be to

519

00:24:11,570 --> 00:24:09,410

life but to accumulate material goods

520

00:24:13,070 --> 00:24:11,580

okay I'll tell you what before I say

521

00:24:17,780 --> 00:24:13,080

anything let me give you a chance to

522

00:24:19,880 --> 00:24:17,790

comment on Barnardo's firstly what

523

00:24:24,470 --> 00:24:19,890

meaning can there be to live accept

524

00:24:27,110 --> 00:24:24,480

acquired the material goods this how

525

00:24:29,840 --> 00:24:27,120

does he say how can you conclude that

526
00:24:31,970 --> 00:24:29,850
that the only meaning the only meaning

527
00:24:34,790 --> 00:24:31,980
to life for a person who doesn't believe

528
00:24:37,430 --> 00:24:34,800
in Souls and goals is to acquire

529
00:24:40,250 --> 00:24:37,440
material goods I get pleasure when I

530
00:24:43,430 --> 00:24:40,260
take my kid on the swing my grandchild

531
00:24:45,520 --> 00:24:43,440
on the swing why is he saying that I

532
00:24:48,410 --> 00:24:45,530
don't have that pleasure because I

533
00:24:50,180 --> 00:24:48,420
believe that we have no purpose in life

534
00:24:52,190 --> 00:24:50,190
if you want to believe that your

535
00:24:53,810 --> 00:24:52,200
previous life is to serve God was to do

536
00:24:56,840 --> 00:24:53,820
something go ahead and believe it I

537
00:24:59,360 --> 00:24:56,850
think there's no gun there's no evidence

538
00:25:01,070 --> 00:24:59,370

of Oh God for me I can't prove that

539

00:25:03,080 --> 00:25:01,080

there a science will never be able to

540

00:25:06,950 --> 00:25:03,090

prove that or that science will never be

541

00:25:08,840 --> 00:25:06,960

able to prove that this no so simply you

542

00:25:12,140 --> 00:25:08,850

don't need that that's what I'm arguing

543

00:25:14,930 --> 00:25:12,150

Alex but the other issue about events

544

00:25:18,980 --> 00:25:14,940

outside the material world I can tell

545

00:25:21,590 --> 00:25:18,990

you this that if I assume you know you

546

00:25:24,080 --> 00:25:21,600

are right now in good spirits I give you

547

00:25:25,820 --> 00:25:24,090

tetra benzene it is a chance that you

548

00:25:29,720 --> 00:25:25,830

will fall into depression because of

549

00:25:31,700 --> 00:25:29,730

this drug that depletes serotonin on the

550

00:25:34,040 --> 00:25:31,710

other hand if you are depressed as many

551
00:25:35,810 --> 00:25:34,050
people become depressed virtually every

552
00:25:38,750 --> 00:25:35,820
one of us who would become depressed at

553
00:25:40,760 --> 00:25:38,760
some point in life if we are given one

554
00:25:43,160 --> 00:25:40,770
of the antidepressants there's a good

555
00:25:45,470 --> 00:25:43,170
chance that will recover sooner than if

556
00:25:49,390 --> 00:25:45,480
we were left on our own devices now

557
00:25:51,350 --> 00:25:49,400
these drugs act on serotonin some attend

558
00:25:54,180 --> 00:25:51,360
neurotransmitters in the brain they

559
00:25:58,090 --> 00:25:54,190
don't act on the soul

560
00:26:00,880 --> 00:25:58,100
right but George just to clarify no one

561
00:26:05,080 --> 00:26:00,890
is arguing the close relationship

562
00:26:07,960 --> 00:26:05,090
between the mind and the brain between

563
00:26:10,570 --> 00:26:07,970

our internal conscious experience and

564

00:26:13,000 --> 00:26:10,580

the functioning either properly or

565

00:26:15,850 --> 00:26:13,010

improperly of our brain that's not at

566

00:26:19,030 --> 00:26:15,860

issue the analogy that many people use

567

00:26:22,000 --> 00:26:19,040

is is our brain really the generator of

568

00:26:24,040 --> 00:26:22,010

consciousness or is it the vehicle

569

00:26:26,110 --> 00:26:24,050

through which consciousness flows is it

570

00:26:29,800 --> 00:26:26,120

like a TV set where consciousness is

571

00:26:32,370 --> 00:26:29,810

somehow everywhere in the brain is

572

00:26:36,070 --> 00:26:32,380

immersed in consciousness in both

573

00:26:38,070 --> 00:26:36,080

worldviews fit with the explanation that

574

00:26:40,690 --> 00:26:38,080

you gave I think what Barnardo's

575

00:26:43,270 --> 00:26:40,700

frustration is and it's my frustration

576

00:26:45,690 --> 00:26:43,280

and that I don't know if you have

577

00:26:49,600 --> 00:26:45,700

thought about this much but that

578

00:26:53,140 --> 00:26:49,610

neurosciences premise is materialism

579

00:26:55,720 --> 00:26:53,150

brain generates mind it's not a

580

00:26:58,990 --> 00:26:55,730

conclusion it's not a scientific

581

00:27:02,230 --> 00:26:59,000

conclusion yeah it's a premise it's a

582

00:27:04,470 --> 00:27:02,240

starting point and it needs to well it's

583

00:27:07,570 --> 00:27:04,480

not it's it that's the point it's

584

00:27:10,180 --> 00:27:07,580

consistent as long as we ignore all the

585

00:27:12,010 --> 00:27:10,190

data that it is it consistent with some

586

00:27:15,280 --> 00:27:12,020

data that dunno if you have considered

587

00:27:17,560 --> 00:27:15,290

these data come from these big brain

588

00:27:21,070 --> 00:27:17,570

preparations where consciousness can be

589

00:27:24,160 --> 00:27:21,080

divided into as the brain is divided

590

00:27:26,620 --> 00:27:24,170

into virtually - that is not exactly

591

00:27:30,210 --> 00:27:26,630

because there are other connections be

592

00:27:33,010 --> 00:27:30,220

below the corpus callosum the principal

593

00:27:36,040 --> 00:27:33,020

split brain patient I don't have

594

00:27:38,590 --> 00:27:36,050

interviewed Gazzaniga would it work if

595

00:27:41,380 --> 00:27:38,600

Sperry and Li do they have an article

596

00:27:45,000 --> 00:27:41,390

which is referred to actually my article

597

00:27:47,860 --> 00:27:45,010

in the conversation that you refer to

598

00:27:50,820 --> 00:27:47,870

where you can read that that you can see

599

00:27:53,790 --> 00:27:50,830

that they are actually there is a way

600

00:27:57,180 --> 00:27:53,800

artificial way of course of dividing

601
00:27:59,980 --> 00:27:57,190
consciousness in the person into a

602
00:28:02,830 --> 00:27:59,990
collective speaking that is if you cut

603
00:28:04,360 --> 00:28:02,840
the major highway connection between the

604
00:28:06,160 --> 00:28:04,370
two hemispheres which is the corpus

605
00:28:06,880 --> 00:28:06,170
callosum as they did to alleviate

606
00:28:09,190 --> 00:28:06,890
epilepsy

607
00:28:13,510 --> 00:28:09,200
back in the 60s some of the patients are

608
00:28:16,390 --> 00:28:13,520
still alive and then you can present

609
00:28:19,090 --> 00:28:16,400
single eye to one hemisphere to one

610
00:28:20,710 --> 00:28:19,100
visual field that is not crossed over

611
00:28:24,370 --> 00:28:20,720
because it cannot cross who the cops

612
00:28:28,720 --> 00:28:24,380
callosum you see and you can test the

613
00:28:32,460 --> 00:28:28,730

two hemispheres and separately and

614

00:28:36,370 --> 00:28:32,470

expose them to different experiences and

615

00:28:40,330 --> 00:28:36,380

in that case you can have different

616

00:28:43,180 --> 00:28:40,340

responses from the two hemispheres there

617

00:28:45,760 --> 00:28:43,190

was one occasion I think where a man was

618

00:28:49,260 --> 00:28:45,770

pulling his wife with one hand and

619

00:28:54,100 --> 00:28:49,270

pushing her way with the other hand so

620

00:28:56,380 --> 00:28:54,110

just consider that consciousness is also

621

00:29:01,420 --> 00:28:56,390

a physical thing and you can divide it

622

00:29:04,690 --> 00:29:01,430

in two well again a premise not a

623

00:29:07,480 --> 00:29:04,700

conclusion by experimentation but a

624

00:29:10,600 --> 00:29:07,490

premise a starting point a worldview a

625

00:29:13,090 --> 00:29:10,610

worldview that's very dogmatically held

626
00:29:14,580 --> 00:29:13,100
by many I mean on this show George one

627
00:29:17,200 --> 00:29:14,590
of the reasons we've investigated

628
00:29:20,140 --> 00:29:17,210
near-death experience science so

629
00:29:22,660 --> 00:29:20,150
thoroughly is because it really kind of

630
00:29:24,400 --> 00:29:22,670
cuts to the chase on all this stuff on

631
00:29:26,590 --> 00:29:24,410
all the studies that you've mentioned

632
00:29:28,600 --> 00:29:26,600
and many other that neuroscientists like

633
00:29:32,410 --> 00:29:28,610
the point to do you can have other

634
00:29:34,180 --> 00:29:32,420
people like Jeffery Schwartz and dr.

635
00:29:36,190 --> 00:29:34,190
Mario Beauregard and many other really

636
00:29:38,770 --> 00:29:36,200
smart people I've had on the show point

637
00:29:40,720 --> 00:29:38,780
to studies that suggest otherwise just

638
00:29:43,120 --> 00:29:40,730

like the placebo effect and all the mine

639

00:29:45,280 --> 00:29:43,130

brain or all the mind-body effects point

640

00:29:47,710 --> 00:29:45,290

otherwise but I'm digressing because

641

00:29:51,130 --> 00:29:47,720

really near-death experience science he

642

00:29:55,530 --> 00:29:51,140

clears up all this just say I suggest

643

00:29:59,590 --> 00:29:55,540

that you really do and Gazzaniga article

644

00:30:02,110 --> 00:29:59,600

and it is not an assumption it is data

645

00:30:04,210 --> 00:30:02,120

you might according with the data and

646

00:30:06,310 --> 00:30:04,220

say that's not well controlled or

647

00:30:09,100 --> 00:30:06,320

whatever that's possible and they may be

648

00:30:13,840 --> 00:30:09,110

wrong but that is not assumption that is

649

00:30:16,120 --> 00:30:13,850

now we're talking about data right data

650

00:30:18,310 --> 00:30:16,130

that doesn't refute the idea that the

651
00:30:20,590 --> 00:30:18,320
brain is immersed in a consciousness

652
00:30:22,090 --> 00:30:20,600
field and that somehow it

653
00:30:24,610 --> 00:30:22,100
interaction that we don't totally

654
00:30:26,950 --> 00:30:24,620
understand inside of that consciousness

655
00:30:28,930 --> 00:30:26,960
field is producing these varied effects

656
00:30:31,210 --> 00:30:28,940
so in the same way that you could have

657
00:30:32,830 --> 00:30:31,220
your TV in there and we could mess with

658
00:30:34,600 --> 00:30:32,840
the circuitry and get all sorts of

659
00:30:36,970 --> 00:30:34,610
different things coming out of your TV

660
00:30:39,100 --> 00:30:36,980
and then we could say gee that TV

661
00:30:41,950 --> 00:30:39,110
generates all kinds of different content

662
00:30:43,870 --> 00:30:41,960
based on how we mess with the circuitry

663
00:30:45,549 --> 00:30:43,880

and then we would find out later well it

664

00:30:49,330 --> 00:30:45,559

really is dependent on the signal that's

665

00:30:52,060 --> 00:30:49,340

coming in to the TV not to the not just

666

00:30:53,799 --> 00:30:52,070

to the circuitry of the TV alone so that

667

00:30:56,139 --> 00:30:53,809

research that you're referring to is

668

00:30:57,669 --> 00:30:56,149

great as a body of research for

669

00:31:00,159 --> 00:30:57,679

understanding the relationship between

670

00:31:02,019 --> 00:31:00,169

the brain and consciousness but it

671

00:31:03,879 --> 00:31:02,029

doesn't get at the fundamental question

672

00:31:06,310 --> 00:31:03,889

of what is the nature of consciousness

673

00:31:08,619 --> 00:31:06,320

when does consciousness begin when does

674

00:31:10,690 --> 00:31:08,629

consciousness end what is necessary and

675

00:31:12,970 --> 00:31:10,700

sufficient to cause consciousness our

676
00:31:14,740 --> 00:31:12,980
other beings are other animals conscious

677
00:31:18,090 --> 00:31:14,750
none of these things are understood by

678
00:31:20,320 --> 00:31:18,100
neuroscience there's just assumed I mean

679
00:31:22,649 --> 00:31:20,330
tell me which one tell me which one of

680
00:31:25,659 --> 00:31:22,659
those is understood tell me George was

681
00:31:27,399 --> 00:31:25,669
referred to consciousness being as

682
00:31:29,259 --> 00:31:27,409
something you know that would definition

683
00:31:31,600 --> 00:31:29,269
but at least you can get an idea of it

684
00:31:33,519 --> 00:31:31,610
something that we have more of when

685
00:31:36,129 --> 00:31:33,529
we're engaged in conversation but when

686
00:31:38,529 --> 00:31:36,139
somebody's listening someone less or

687
00:31:41,139 --> 00:31:38,539
when we're about to sleep less or when

688
00:31:44,950 --> 00:31:41,149

we're embryos less or whenever demanding

689

00:31:46,149 --> 00:31:44,960

and animal services that's complete

690

00:31:47,889 --> 00:31:46,159

let's complete it's complete nonsense

691

00:31:50,110 --> 00:31:47,899

right when does so when does

692

00:31:55,600 --> 00:31:50,120

consciousness begin at what day does it

693

00:31:58,360 --> 00:31:55,610

begin in the embryo we have no it's no

694

00:32:00,850 --> 00:31:58,370

we have no idea they're just making it

695

00:32:04,240 --> 00:32:00,860

they're just making it up George they're

696

00:32:08,740 --> 00:32:04,250

just blowing smoke what you say it's so

697

00:32:10,480 --> 00:32:08,750

ready a you have to consider that they

698

00:32:11,980 --> 00:32:10,490

are degrees this not by model

699

00:32:14,080 --> 00:32:11,990

consciousness not consciousness

700

00:32:16,320 --> 00:32:14,090

independently this the chimpanzee has

701
00:32:19,509 --> 00:32:16,330
consciousness they can use a mirror in

702
00:32:21,610 --> 00:32:19,519
remove it sometimes you placed on their

703
00:32:23,409 --> 00:32:21,620
head they understand it's themselves

704
00:32:26,289 --> 00:32:23,419
they're looking at I'm not sure about

705
00:32:27,730 --> 00:32:26,299
the rat that's a good model for human

706
00:32:29,799 --> 00:32:27,740
behavior many times that's why

707
00:32:32,430 --> 00:32:29,809
psychologists are standing in the right

708
00:32:35,010 --> 00:32:32,440
so I don't

709
00:32:39,720 --> 00:32:35,020
and dismiss it as a bimodal thing all

710
00:32:41,940 --> 00:32:39,730
right then let me return to near-death

711
00:32:45,150 --> 00:32:41,950
experience because I think it clarifies

712
00:32:49,080 --> 00:32:45,160
this quite convincingly because now we

713
00:32:51,630 --> 00:32:49,090

have patients in hospital under well

714

00:32:54,120 --> 00:32:51,640

understood medical conditions the what

715

00:32:55,860 --> 00:32:54,130

studied most because of that is cardiac

716

00:32:58,290 --> 00:32:55,870

arrest because we really understand the

717

00:33:00,300 --> 00:32:58,300

physiology of someone after they've

718

00:33:02,280 --> 00:33:00,310

suffered cardiac arrest so there's

719

00:33:04,320 --> 00:33:02,290

near-death experience occurs in many

720

00:33:05,640 --> 00:33:04,330

different ways you know drowning even if

721

00:33:06,780 --> 00:33:05,650

someone's just flying in a plane and the

722

00:33:08,400 --> 00:33:06,790

planes gonna crash they can have a

723

00:33:11,090 --> 00:33:08,410

near-death experience but the one that

724

00:33:13,470 --> 00:33:11,100

studied most scientifically by

725

00:33:15,450 --> 00:33:13,480

cardiologist many times or you know I

726

00:33:17,210 --> 00:33:15,460

just talked to our radiation oncologist

727

00:33:19,890 --> 00:33:17,220

who's probably studied more than any is

728

00:33:22,830 --> 00:33:19,900

the the in the cardiac arrest word

729

00:33:25,290 --> 00:33:22,840

because we know so clearly what happens

730

00:33:29,010 --> 00:33:25,300

to the brain after cardiac arrest that

731

00:33:31,220 --> 00:33:29,020

is that there is no no detectable brain

732

00:33:34,140 --> 00:33:31,230

function we don't have any model for how

733

00:33:36,990 --> 00:33:34,150

memories or conscious experience can be

734

00:33:39,660 --> 00:33:37,000

formed in a severely compromised brain

735

00:33:42,030 --> 00:33:39,670

after cardiac arrest yet when we look at

736

00:33:44,910 --> 00:33:42,040

these patients they clearly have not

737

00:33:47,550 --> 00:33:44,920

just conscious experiences but profound

738

00:33:49,050 --> 00:33:47,560

conscious experiences the most profound

739

00:33:51,750 --> 00:33:49,060

experiences they've ever had in their

740

00:33:53,610 --> 00:33:51,760

life they report being outside of their

741

00:33:55,860 --> 00:33:53,620

body in a way that we can't possibly be

742

00:33:58,050 --> 00:33:55,870

explained when they're reviewed

743

00:33:59,550 --> 00:33:58,060

medically ninety six percent of those

744

00:34:01,620 --> 00:33:59,560

people are able to confirm the

745

00:34:03,990 --> 00:34:01,630

experiences they have being outside

746

00:34:06,420 --> 00:34:04,000

their body is true over and over and

747

00:34:09,600 --> 00:34:06,430

over again we have this huge amount of

748

00:34:11,340 --> 00:34:09,610

data that people in the materialist camp

749

00:34:13,820 --> 00:34:11,350

in the neuroscientist camp very

750

00:34:17,280 --> 00:34:13,830

carefully step by pass and step aside

751
00:34:20,820 --> 00:34:17,290
from because there's really no medical

752
00:34:23,850 --> 00:34:20,830
explanation for it in the model that we

753
00:34:27,890 --> 00:34:23,860
have that the mind is generated by the

754
00:34:31,620 --> 00:34:27,900
brain so is that anything the poor

755
00:34:35,760 --> 00:34:31,630
cardiac surgeons they did a disservice

756
00:34:39,659 --> 00:34:35,770
to this discipline by heart transplants

757
00:34:42,540 --> 00:34:39,669
and you know they showed that they love

758
00:34:44,090 --> 00:34:42,550
or whatever that over ste Beauty to the

759
00:34:52,370 --> 00:34:44,100
heart is nothing to

760
00:34:55,460 --> 00:34:52,380
heart so if I get the brain of your wife

761
00:34:58,340 --> 00:34:55,470
sorry the heart of your wife in a in a

762
00:34:59,570 --> 00:34:58,350
heart transplant Alex I will not fall in

763
00:35:01,880 --> 00:34:59,580

love with you

764

00:35:03,980 --> 00:35:01,890

so I just wanted to make that clear that

765

00:35:06,260 --> 00:35:03,990

the hack has nothing to do with emotions

766

00:35:09,470 --> 00:35:06,270

since you mentioned it but now going to

767

00:35:13,250 --> 00:35:09,480

the real question but the brain the

768

00:35:16,790 --> 00:35:13,260

brain does not die in heart transplants

769

00:35:19,670 --> 00:35:16,800

if the minerals die then that's it

770

00:35:22,300 --> 00:35:19,680

really as oh well you getting

771

00:35:25,640 --> 00:35:22,310

resurrected but now I did have a

772

00:35:33,040 --> 00:35:25,650

near-death experience reported to me by

773

00:35:38,420 --> 00:35:35,750

nearly lost he nearly lost his patient

774

00:35:42,500 --> 00:35:38,430

this patient but then he came back and

775

00:35:47,510 --> 00:35:42,510

he said I really went to Paradise he

776

00:35:54,200 --> 00:35:47,520

said and I saw what is in there 1,000

777

00:35:56,240 --> 00:35:54,210

red Ferraris now you see that yes yes

778

00:35:59,380 --> 00:35:56,250

1000 red Ferraris that's right

779

00:36:02,630 --> 00:35:59,390

that's what I saw I just baked Alex is

780

00:36:05,180 --> 00:36:02,640

that somehow is that kind of anecdotal

781

00:36:08,270 --> 00:36:05,190

kind of story somehow supposed to be

782

00:36:10,760 --> 00:36:08,280

well I mean you you realize that there's

783

00:36:13,220 --> 00:36:10,770

been hundreds of peer-reviewed studies

784

00:36:16,520 --> 00:36:13,230

on near-death experience science

785

00:36:18,320 --> 00:36:16,530

published so you know without regard to

786

00:36:20,930 --> 00:36:18,330

the to the story that you heard from

787

00:36:23,960 --> 00:36:20,940

your friend there's a large body of

788

00:36:26,300 --> 00:36:23,970

research here it's not just stories

789

00:36:32,090 --> 00:36:26,310

passed among surgeons if it weren't

790

00:36:35,690 --> 00:36:32,100

there any hallucination that the person

791

00:36:38,030 --> 00:36:35,700

might have had in such things but who

792

00:36:40,240 --> 00:36:38,040

tell me that he he or she went to

793

00:36:45,020 --> 00:36:40,250

another world so what's there

794

00:36:47,450 --> 00:36:45,030

well have to be skeptical about you seem

795

00:36:48,710 --> 00:36:47,460

to be skeptic no you don't you don't

796

00:36:50,540 --> 00:36:48,720

have to be you don't have to be

797

00:36:52,220 --> 00:36:50,550

skeptical I hate when folks say that all

798

00:36:54,110 --> 00:36:52,230

you have to do is be open-minded a good

799

00:36:55,670 --> 00:36:54,120

scientist you just investigate and then

800

00:36:57,080 --> 00:36:55,680

you come to the conclusion that you come

801
00:36:58,700 --> 00:36:57,090
to I'll tell you the study

802
00:37:00,410 --> 00:36:58,710
that eyed people who listen the show are

803
00:37:02,660 --> 00:37:00,420
tired of hearing about this study but

804
00:37:05,120 --> 00:37:02,670
for folks like you are uninitiated with

805
00:37:07,160 --> 00:37:05,130
near-death experience science it's kind

806
00:37:09,050 --> 00:37:07,170
of one of the easiest ones to wrap your

807
00:37:11,330 --> 00:37:09,060
arms around it's been replicated twice

808
00:37:13,760 --> 00:37:11,340
at least I think three or four times but

809
00:37:15,020 --> 00:37:13,770
the two people I know is dr. Janice

810
00:37:17,330 --> 00:37:15,030
Holden at the University of North Texas

811
00:37:21,200 --> 00:37:17,340
and dr. penny Sartori

812
00:37:23,420 --> 00:37:21,210
and the UK I forget which university was

813
00:37:24,920 --> 00:37:23,430

in they did a rather simple experiment

814

00:37:28,040 --> 00:37:24,930

they winded it into a cardiac arrest

815

00:37:30,050 --> 00:37:28,050

ward and they talked to these subjects

816

00:37:31,130 --> 00:37:30,060

before they experienced a cardiac arrest

817

00:37:34,310 --> 00:37:31,140

and they asked if they would participate

818

00:37:35,960 --> 00:37:34,320

in this study and they did unfortunately

819

00:37:38,390 --> 00:37:35,970

the people in the study had a cardiac

820

00:37:40,520 --> 00:37:38,400

arrest and they went to the people after

821

00:37:43,930 --> 00:37:40,530

they had a cardiac arrest and they asked

822

00:37:47,360 --> 00:37:43,940

them to report in detail their

823

00:37:48,140 --> 00:37:47,370

resuscitation so as you know that's not

824

00:37:50,150 --> 00:37:48,150

like the movies

825

00:37:53,360 --> 00:37:50,160

it doesn't begin 10 seconds after you

826

00:37:54,890 --> 00:37:53,370

have a cardiac arrest it begins one to

827

00:37:56,030 --> 00:37:54,900

two minutes usually around two minutes

828

00:37:59,540 --> 00:37:56,040

after you've had a cardiac arrest

829

00:38:02,080 --> 00:37:59,550

resuscitation begins so there is no from

830

00:38:06,220 --> 00:38:02,090

a neuroscience standpoint there's no

831

00:38:08,420 --> 00:38:06,230

thing happening in the brain it is

832

00:38:10,760 --> 00:38:08,430

flatlined if there is no electrical

833

00:38:13,880 --> 00:38:10,770

activity after two minutes of being

834

00:38:16,340 --> 00:38:13,890

deprived of your heart so so do you have

835

00:38:17,900 --> 00:38:16,350

two groups now your cardiac arrest

836

00:38:19,640 --> 00:38:17,910

patients are divided into two groups one

837

00:38:22,160 --> 00:38:19,650

group that says I had a near-death

838

00:38:24,140 --> 00:38:22,170

experience and I saw my resuscitation

839

00:38:25,730 --> 00:38:24,150

and the other group said I don't know

840

00:38:28,580 --> 00:38:25,740

what you're talking about I was dead and

841

00:38:30,290 --> 00:38:28,590

now I'm back well as it turns out the

842

00:38:32,810 --> 00:38:30,300

group that had the near-death experience

843

00:38:36,080 --> 00:38:32,820

and claimed to see their resuscitation

844

00:38:38,450 --> 00:38:36,090

was dramatically better at reporting the

845

00:38:40,550 --> 00:38:38,460

details of their resuscitation and

846

00:38:42,140 --> 00:38:40,560

things that were clearly outside of

847

00:38:45,380 --> 00:38:42,150

their vision outside of the immediate

848

00:38:47,270 --> 00:38:45,390

room outside below they're there their

849

00:38:49,400 --> 00:38:47,280

table and all the rest of this so this

850

00:38:51,650 --> 00:38:49,410

is scientific work published in a

851
00:38:55,730 --> 00:38:51,660
peer-reviewed journal that demonstrates

852
00:38:58,970 --> 00:38:55,740
an unexplainable ability of people to

853
00:39:01,310 --> 00:38:58,980
have conscious experiences have memories

854
00:39:03,800 --> 00:39:01,320
formed at a time when they didn't have a

855
00:39:06,230 --> 00:39:03,810
brain so it just shatters the whole

856
00:39:07,700 --> 00:39:06,240
notion that we can dance around you talk

857
00:39:09,770 --> 00:39:07,710
about all these other people but that's

858
00:39:10,660 --> 00:39:09,780
really the the simplest way to kind of

859
00:39:14,110 --> 00:39:10,670
get to it is

860
00:39:16,240 --> 00:39:14,120
that kind isn't able to see things that

861
00:39:19,390 --> 00:39:16,250
were under the table that were not in

862
00:39:21,760 --> 00:39:19,400
their view somehow a spirit of a us

863
00:39:23,980 --> 00:39:21,770

wandered around and when at the table

864

00:39:25,990 --> 00:39:23,990

and saw them is that what you mean we

865

00:39:28,300 --> 00:39:26,000

don't we don't have to hypothesize in

866

00:39:29,770 --> 00:39:28,310

spirit we just this is a survey this is

867

00:39:32,320 --> 00:39:29,780

a medical survey we go in and we ask

868

00:39:33,310 --> 00:39:32,330

them to report details of their

869

00:39:35,560 --> 00:39:33,320

resuscitation

870

00:39:37,180 --> 00:39:35,570

you know or what happened next well they

871

00:39:39,190 --> 00:39:37,190

wheeled in this cart what color were the

872

00:39:41,260 --> 00:39:39,200

paddles how many people wheeled it in

873

00:39:42,610 --> 00:39:41,270

what did they do what did they do next

874

00:39:44,710 --> 00:39:42,620

so people are recalling the

875

00:39:46,750 --> 00:39:44,720

resuscitation people who don't have a

876

00:39:48,550 --> 00:39:46,760

near-death experience just go I don't

877

00:39:50,650 --> 00:39:48,560

know what you're talking about I don't

878

00:39:52,450 --> 00:39:50,660

have any memories of that people who

879

00:39:54,720 --> 00:39:52,460

have a near-death experience are able to

880

00:39:58,120 --> 00:39:54,730

report in detail in an accurate way

881

00:40:00,100 --> 00:39:58,130

things that are verifiable about what

882

00:40:04,030 --> 00:40:00,110

happened during their resuscitation it's

883

00:40:07,090 --> 00:40:04,040

this is just one of OU many dozens

884

00:40:08,590 --> 00:40:07,100

hundreds of near-death experience

885

00:40:11,350 --> 00:40:08,600

science that's published in

886

00:40:13,030 --> 00:40:11,360

peer-reviewed journals that we just that

887

00:40:16,030 --> 00:40:13,040

a lot of people just ignore because it's

888

00:40:18,700 --> 00:40:16,040

uncomfortable it breaks the paradigm we

889

00:40:24,190 --> 00:40:18,710

have this mind science scientists would

890

00:40:29,040 --> 00:40:24,200

love to tear down a paradigm science of

891

00:40:32,020 --> 00:40:29,050

course science is not a religion science

892

00:40:34,690 --> 00:40:32,030

scientist would love to tear down a big

893

00:40:37,120 --> 00:40:34,700

name and say no that fear is incorrect

894

00:40:38,920 --> 00:40:37,130

this secret they might even get a big

895

00:40:42,130 --> 00:40:38,930

price for that they certainly get

896

00:40:45,220 --> 00:40:42,140

advancement in their career this is not

897

00:40:46,270 --> 00:40:45,230

we the science is a different thing I

898

00:40:48,250 --> 00:40:46,280

don't think you have a good impression

899

00:40:52,660 --> 00:40:48,260

of science you're doing this broadcast

900

00:40:54,550 --> 00:40:52,670

but to tell me that this is published in

901
00:40:57,600 --> 00:40:54,560
peer-reviewed journals well I'd like to

902
00:41:00,430 --> 00:40:57,610
know if such an image a major

903
00:41:03,580 --> 00:41:00,440
observation goes contre to so many other

904
00:41:11,050 --> 00:41:03,590
things is it published in nature in

905
00:41:14,250 --> 00:41:11,060
science George because this is I have

906
00:41:16,930 --> 00:41:14,260
300 episodes of why I have 300 episodes

907
00:41:21,100 --> 00:41:16,940
answering the question why I think you

908
00:41:23,470 --> 00:41:21,110
are in incredibly generous spirit that

909
00:41:27,940 --> 00:41:23,480
that defies your fill

910
00:41:30,700 --> 00:41:27,950
Ithaca rantings about atheism you are

911
00:41:32,710 --> 00:41:30,710
you are not an atheist in your soul

912
00:41:36,040 --> 00:41:32,720
George and it comes through loud and

913
00:41:38,859 --> 00:41:36,050

clear but your you're just you are not

914

00:41:42,340 --> 00:41:38,869

well informed about the science that

915

00:41:44,200 --> 00:41:42,350

contradicts this idea that that we are

916

00:41:46,810 --> 00:41:44,210

that we are these biological robots

917

00:41:54,280 --> 00:41:46,820

because you're generous to me then I

918

00:41:57,730 --> 00:41:54,290

deserve but certainly you can a it to

919

00:42:00,099 --> 00:41:57,740

save you to save your soul on the basis

920

00:42:02,440 --> 00:42:00,109

of these experiences which can be

921

00:42:04,840 --> 00:42:02,450

interpreted in a different way in from

922

00:42:09,370 --> 00:42:04,850

what you told me this is not the

923

00:42:13,150 --> 00:42:09,380

published in major magazines such as a

924

00:42:18,310 --> 00:42:13,160

nature or science nature right such as

925

00:42:22,000 --> 00:42:18,320

nature nature's where well I tell you

926

00:42:24,760 --> 00:42:22,010

what you know the probably the most well

927

00:42:27,040 --> 00:42:24,770

known near-death experience science

928

00:42:29,800 --> 00:42:27,050

research was published in The Lancet how

929

00:42:32,910 --> 00:42:29,810

does that do one of the top two medical

930

00:42:40,270 --> 00:42:32,920

journals in the world the alliance's a

931

00:42:43,150 --> 00:42:40,280

good journal and saying that but you can

932

00:42:45,340 --> 00:42:43,160

get a scientific study of near-death

933

00:42:47,200 --> 00:42:45,350

experiences of course you can get a

934

00:42:49,780 --> 00:42:47,210

scientific study of it I don't know what

935

00:42:51,790 --> 00:42:49,790

they publish there but to say that

936

00:42:53,770 --> 00:42:51,800

somebody was able to see underneath the

937

00:42:56,020 --> 00:42:53,780

table though there was no way of saying

938

00:42:57,880 --> 00:42:56,030

it except it was a floating eye

939

00:43:02,290 --> 00:42:57,890

underneath and all over the table

940

00:43:04,210 --> 00:43:02,300

well that is I would like to see the

941

00:43:07,390 --> 00:43:04,220

study to study the study to see the

942

00:43:10,060 --> 00:43:07,400

controls that they use any scientist can

943

00:43:11,710 --> 00:43:10,070

make a mistake in fact one in 20 of the

944

00:43:15,010 --> 00:43:11,720

articles that we read in nature and

945

00:43:17,290 --> 00:43:15,020

silence are wrong because of the

946

00:43:20,920 --> 00:43:17,300

statistical approach that we use but

947

00:43:26,070 --> 00:43:20,930

what I really want to leave you with is

948

00:43:29,349 --> 00:43:26,080

that you don't need to hypothesize these

949

00:43:31,810 --> 00:43:29,359

souls or Madhavi the metaphysics to

950

00:43:33,400 --> 00:43:31,820

understand behavior and you can be as

951
00:43:36,420 --> 00:43:33,410
happy and as altruistic

952
00:43:39,059 --> 00:43:36,430
as any other person next to you

953
00:43:43,170 --> 00:43:39,069
with ru perhaps more if you actually

954
00:43:47,339 --> 00:43:43,180
understand who we are that we are a

955
00:43:50,009 --> 00:43:47,349
branch of the primates the closest

956
00:43:52,049 --> 00:43:50,019
relative to us is a chimpanzee and the

957
00:43:53,999 --> 00:43:52,059
chimpanzee scroll closest relative is

958
00:43:57,839 --> 00:43:54,009
not the gorilla it is us

959
00:44:00,390 --> 00:43:57,849
so we are one of those creatures and we

960
00:44:02,279 --> 00:44:00,400
have dazzled ourselves who TVs etc but

961
00:44:05,279 --> 00:44:02,289
for for hundreds of thousands of years

962
00:44:06,809 --> 00:44:05,289
with the same intellectual capacity who

963
00:44:08,549 --> 00:44:06,819

are not much different from the other

964

00:44:11,970 --> 00:44:08,559

primates but we managed to step on each

965

00:44:13,589 --> 00:44:11,980

other's shoulders in produce Science and

966

00:44:16,710 --> 00:44:13,599

Technology which today by the way

967

00:44:21,509 --> 00:44:16,720

threatens existence if you look at it I

968

00:44:23,720 --> 00:44:21,519

am NOT idolizing the brain I think it's

969

00:44:25,890 --> 00:44:23,730

a limited organ that imposes

970

00:44:28,049 --> 00:44:25,900

intellectual motivational and emotional

971

00:44:29,819 --> 00:44:28,059

course pensioners not much different

972

00:44:32,339 --> 00:44:29,829

from that on the chip and see and you

973

00:44:34,170 --> 00:44:32,349

might even notice that even in yourself

974

00:44:36,450 --> 00:44:34,180

when you are driving on the road and

975

00:44:39,450 --> 00:44:36,460

somebody cuts ahead of you and they join

976

00:44:43,769 --> 00:44:39,460

you and taking your your right of way

977

00:44:45,960 --> 00:44:43,779

how are you might yet for that so it's

978

00:44:52,769 --> 00:44:45,970

not that I idolize the brain it's just

979

00:44:56,670 --> 00:44:52,779

that to believe in ghosts and near-death

980

00:45:00,509 --> 00:44:56,680

experiences well in in the in the lack

981

00:45:02,279 --> 00:45:00,519

of strong evidence is also and not

982

00:45:07,440 --> 00:45:02,289

according to you as a title of your

983

00:45:10,739 --> 00:45:07,450

program skeptical skeptical from

984

00:45:13,559 --> 00:45:10,749

skeptical right from those from those

985

00:45:15,900 --> 00:45:13,569

philosophers who always never came to a

986

00:45:17,940 --> 00:45:15,910

conclusion but always kept asking

987

00:45:22,289 --> 00:45:17,950

questions George you've been a part of

988

00:45:25,079 --> 00:45:22,299

some very important research brain

989

00:45:26,910 --> 00:45:25,089

research and you started with animals

990

00:45:30,799 --> 00:45:26,920

but it's also you've also looked at the

991

00:45:33,059 --> 00:45:30,809

human brain what would people be most

992

00:45:35,099 --> 00:45:33,069

interested in in terms of your career

993

00:45:37,589 --> 00:45:35,109

what you've discovered if you could just

994

00:45:40,140 --> 00:45:37,599

kind of give some quick highlights on

995

00:45:40,940 --> 00:45:40,150

some of the the main discoveries you

996

00:45:46,550 --> 00:45:40,950

were

997

00:45:49,460 --> 00:45:46,560

our work assist scientists to navigate

998

00:45:52,490 --> 00:45:49,470

seamlessly between the brain of humans

999

00:45:55,090 --> 00:45:52,500

and experimental animals so someone

1000

00:45:59,030 --> 00:45:55,100

inspired by human considerations such as

1001
00:46:03,260 --> 00:45:59,040
epilepsy our thymus partners depression

1002
00:46:06,200 --> 00:46:03,270
anxiety schizophrenia may produce an

1003
00:46:08,960 --> 00:46:06,210
animal model of a disease and there are

1004
00:46:11,780 --> 00:46:08,970
genetic models or behavioral you can

1005
00:46:14,720 --> 00:46:11,790
produce anxiety in Iraq if you shock

1006
00:46:16,160 --> 00:46:14,730
them enough times in a chamber there

1007
00:46:18,680 --> 00:46:16,170
would be anxious next time you place

1008
00:46:20,330 --> 00:46:18,690
them there and you can then look at

1009
00:46:22,430 --> 00:46:20,340
Angie oolitic drugs to see what might

1010
00:46:24,320 --> 00:46:22,440
assist them or other intervention such

1011
00:46:27,760 --> 00:46:24,330
as flooding put them in there without a

1012
00:46:32,510 --> 00:46:27,770
shock so there's study models in the

1013
00:46:34,130 --> 00:46:32,520

disease in the experimental animals and

1014

00:46:35,600 --> 00:46:34,140

then they want to relate the

1015

00:46:38,240 --> 00:46:35,610

observations back to the humans and who

1016

00:46:42,040 --> 00:46:38,250

provide them with the atlases to

1017

00:46:44,870 --> 00:46:42,050

investigate the brain and to actually

1018

00:46:47,480 --> 00:46:44,880

relate the observations to navigate

1019

00:46:52,100 --> 00:46:47,490

between the brains in the case of our

1020

00:46:56,390 --> 00:46:52,110

human brain atlases they can also use

1021

00:46:59,180 --> 00:46:56,400

the neurosurgeons use them in surgery

1022

00:47:01,940 --> 00:46:59,190

theaters and when they were to stimulate

1023

00:47:04,370 --> 00:47:01,950

the brain for treatment of Parkinson's

1024

00:47:07,460 --> 00:47:04,380

for example there's some efficacious

1025

00:47:09,230 --> 00:47:07,470

treatment for some people now if you

1026

00:47:13,150 --> 00:47:09,240

think that excited is really most is

1027

00:47:16,400 --> 00:47:13,160

that we find an area in the brain that

1028

00:47:18,470 --> 00:47:16,410

was not known before to science and we

1029

00:47:23,900 --> 00:47:18,480

found such areas seen in mammalian brain

1030

00:47:25,850 --> 00:47:23,910

and 91 areas we found we gave them names

1031

00:47:29,240 --> 00:47:25,860

because you have a chance to name

1032

00:47:31,160 --> 00:47:29,250

something if you identified that is the

1033

00:47:35,540 --> 00:47:31,170

most pleasant thing my colleague Charles

1034

00:47:37,880 --> 00:47:35,550

Watson who plays the saxophone when we

1035

00:47:42,460 --> 00:47:37,890

are lucky and we find a nucleus we stop

1036

00:47:49,280 --> 00:47:46,610

awesome so what what you and dr. Watson

1037

00:47:50,690 --> 00:47:49,290

are kind of best known for is again

1038

00:47:54,160 --> 00:47:50,700

that's kind of an interesting term of

1039

00:47:57,280 --> 00:47:54,170

this atlas this mapping system for

1040

00:48:00,040 --> 00:47:57,290

research scientists to make the

1041

00:48:01,990 --> 00:48:00,050

connection between experimental animals

1042

00:48:05,500 --> 00:48:02,000

and the human brain right so that sounds

1043

00:48:07,830 --> 00:48:05,510

like vital work in terms of bringing on

1044

00:48:12,460 --> 00:48:07,840

new treatments new therapies new drugs

1045

00:48:17,760 --> 00:48:12,470

suppose that is most people who study

1046

00:48:22,240 --> 00:48:17,770

the brain in relation to these diseases

1047

00:48:25,690 --> 00:48:22,250

need our atlases to navigate to find

1048

00:48:26,320 --> 00:48:25,700

where they are either if you consider

1049

00:48:29,020 --> 00:48:26,330

the brain

1050

00:48:32,500 --> 00:48:29,030

post-mortem or if they have an image of

1051
00:48:37,390 --> 00:48:32,510
the brain in the scanned PET scan the

1052
00:48:39,580 --> 00:48:37,400
MRI they need like a three directory

1053
00:48:44,070 --> 00:48:39,590
much like on a map of the US you can

1054
00:48:47,800 --> 00:48:44,080
place the railway lines forested areas

1055
00:48:50,470 --> 00:48:47,810
population centers so on a map of the

1056
00:48:52,540 --> 00:48:50,480
brain you can place the kind of neurons

1057
00:48:56,320 --> 00:48:52,550
you get the kind of neurotransmitters

1058
00:48:58,300 --> 00:48:56,330
you have receptors enzymes or the

1059
00:49:00,820 --> 00:48:58,310
function would function that area here's

1060
00:49:05,230 --> 00:49:00,830
what connections it has and that helps

1061
00:49:09,670 --> 00:49:05,240
people formulate hypotheses about normal

1062
00:49:12,700 --> 00:49:09,680
and abnormal human function great great

1063
00:49:15,070 --> 00:49:12,710

well it sounds like very important work

1064

00:49:17,650 --> 00:49:15,080

and you're to be commended for it and I

1065

00:49:20,500 --> 00:49:17,660

certainly do appreciate you joining me I

1066

00:49:23,230 --> 00:49:20,510

think it was a very spirited debate I

1067

00:49:25,330 --> 00:49:23,240

hope folks got a lot out of it I have a

1068

00:49:27,670 --> 00:49:25,340

tremendous amount of respect for what

1069

00:49:31,180 --> 00:49:27,680

you bring to it as I say I wish I could

1070

00:49:32,800 --> 00:49:31,190

muster up some more anger at what you're

1071

00:49:35,560 --> 00:49:32,810

saying but I really can't because you

1072

00:49:37,930 --> 00:49:35,570

have such a wonderful way of and a

1073

00:49:40,990 --> 00:49:37,940

positive message about conveying these

1074

00:49:43,450 --> 00:49:41,000

these ideas and a positive worldview so

1075

00:49:45,370 --> 00:49:43,460

it's been a real delight talking to you

1076

00:49:48,630 --> 00:49:45,380

our guest has been dr. George Parkes

1077

00:49:51,070 --> 00:49:48,640

eNOS thank you joining me on skeptic oh

1078

00:49:53,080 --> 00:49:51,080

thanks again to dr. Parkes eNOS for

1079

00:49:54,370 --> 00:49:53,090

joining me today on skeptic oh I guess

1080

00:49:57,580 --> 00:49:54,380

the one question I tee up from this

1081

00:50:00,340 --> 00:49:57,590

interview is one of the big ones has the

1082

00:50:03,010 --> 00:50:00,350

paradigm shifted and it's become almost

1083

00:50:04,930 --> 00:50:03,020

an assumption in this show because we

1084

00:50:06,430 --> 00:50:04,940

get into this echo chamber and we

1085

00:50:07,310 --> 00:50:06,440

believe that we see this growing trend

1086

00:50:09,320 --> 00:50:07,320

pointing toward

1087

00:50:10,520 --> 00:50:09,330

the end of materialism and that we see

1088

00:50:12,470 --> 00:50:10,530

this advancement of near-death

1089

00:50:15,620 --> 00:50:12,480

experience science or mediumship

1090

00:50:18,590 --> 00:50:15,630

research or whatever and then we talk to

1091

00:50:21,380 --> 00:50:18,600

George so is this just a matter of a

1092

00:50:23,150 --> 00:50:21,390

changing of the guard George is at the

1093

00:50:25,580 --> 00:50:23,160

end of his career and people who are

1094

00:50:27,830 --> 00:50:25,590

replacing him coming in have this new

1095

00:50:30,020 --> 00:50:27,840

paradigm perspective is that what we're

1096

00:50:33,470 --> 00:50:30,030

seeing or are we deluding ourselves

1097

00:50:34,400 --> 00:50:33,480

about the rate of change so let me know

1098

00:50:36,290 --> 00:50:34,410

your thoughts on that

1099

00:50:38,900 --> 00:50:36,300

either way the place to do it of course

1100

00:50:42,680 --> 00:50:38,910

is through The Skeptical website at ske

1101
00:50:44,060 --> 00:50:42,690
PTI koat.com leave a comment there jump

1102
00:50:46,370 --> 00:50:44,070
over the forum connect with me on

1103
00:50:47,900 --> 00:50:46,380
Facebook however you do it just let me

1104
00:50:50,000 --> 00:50:47,910
know what you think of the show and let

1105
00:50:52,280 --> 00:50:50,010
me know what you think of this interview

1106
00:50:53,930 --> 00:50:52,290
with George now you may have noticed

1107
00:50:55,940 --> 00:50:53,940
there wasn't a transcript for this show

1108
00:50:57,740 --> 00:50:55,950
and that's because I was really just

1109
00:50:59,420 --> 00:50:57,750
trying to crank this out at the end and

1110
00:51:02,120 --> 00:50:59,430
I didn't think there was a lot of really

1111
00:51:03,470 --> 00:51:02,130
new material here just a rehashing of a

1112
00:51:05,450 --> 00:51:03,480
lot of stuff we've talked about in the

1113
00:51:07,940 --> 00:51:05,460

past so so in the interest of time I

1114

00:51:11,060 --> 00:51:07,950

pushed it out without the transcript but

1115

00:51:13,760 --> 00:51:11,070

of course you can expect those on future

1116

00:51:15,860 --> 00:51:13,770

episodes of skeptical of which I have

1117

00:51:17,960 --> 00:51:15,870

many in the hopper and some really

1118

00:51:20,330 --> 00:51:17,970

really good ones I think you will enjoy

1119

00:51:23,570 --> 00:51:20,340

please stay with me for all of that

1120

00:51:24,790 --> 00:51:23,580

until next time take care and bye for