



CLIPS



DR. MICHELLE FOURNET DECODING WHALE SONG

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1
00:00:03,830 --> 00:00:02,070
this spindle neuron concept is one that

2
00:00:05,430 --> 00:00:03,840
there is neuron which is identified in

3
00:00:06,470 --> 00:00:05,440
several different species humans being

4
00:00:08,470 --> 00:00:06,480
one of them

5
00:00:09,990 --> 00:00:08,480
and it has been hypothesized that that

6
00:00:12,870 --> 00:00:10,000
particular

7
00:00:16,390 --> 00:00:12,880
neuron is associated with compassion and

8
00:00:17,990 --> 00:00:16,400
with altruism and we have seen this you

9
00:00:19,830 --> 00:00:18,000
know spindle neurons in the brains of

10
00:00:22,470 --> 00:00:19,840
humpback whales um and a couple other

11
00:00:24,790 --> 00:00:22,480
species it is comparatively rare um

12
00:00:26,310 --> 00:00:24,800
whether or not it's rare because we

13
00:00:28,790 --> 00:00:26,320

haven't looked or it's rare because it's

14

00:00:31,269 --> 00:00:28,800

ecologically rare i can't speak to

15

00:00:33,510 --> 00:00:31,279

but there has been evidence in

16

00:00:36,630 --> 00:00:33,520

in the humpback whales of

17

00:00:38,709 --> 00:00:36,640

of what we perceive as as altruism um of

18

00:00:40,069 --> 00:00:38,719

selfless acts and

19

00:00:42,150 --> 00:00:40,079

and you know there's a really great

20

00:00:43,270 --> 00:00:42,160

paper about this um

21

00:00:46,229 --> 00:00:43,280

that

22

00:00:48,389 --> 00:00:46,239

i think bob pitman wrote um where there

23

00:00:49,990 --> 00:00:48,399

have been many examples that that folks

24

00:00:52,950 --> 00:00:50,000

have seen over the years of humpback

25

00:00:55,510 --> 00:00:52,960

whales intervening to protect another

26

00:00:57,270 --> 00:00:55,520

species so as killer whales would come

27

00:00:58,869 --> 00:00:57,280

in to try and predate something a

28

00:01:01,990 --> 00:00:58,879

humpback whale would come and get in

29

00:01:04,310 --> 00:01:02,000

between them and protect either

30

00:01:05,750 --> 00:01:04,320

i know in one instance it was a sunfish