



CLIPS

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MICROBIOLOGY & IMMUNOLOGY



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1  
00:00:04,710 --> 00:00:03,189  
to manipulate

2  
00:00:08,230 --> 00:00:04,720  
a human

3  
00:00:11,589 --> 00:00:08,240  
body to evolve something better

4  
00:00:13,190 --> 00:00:11,599  
requires a near god-like level of

5  
00:00:16,710 --> 00:00:13,200  
understanding

6  
00:00:19,349 --> 00:00:16,720  
to do the manipulation so that when you

7  
00:00:22,870 --> 00:00:19,359  
you put you change this dna here

8  
00:00:25,509 --> 00:00:22,880  
this base pair here it it will have

9  
00:00:27,189 --> 00:00:25,519  
resonating effects up and down the whole

10  
00:00:29,509 --> 00:00:27,199  
growth of the body so you have to

11  
00:00:32,069 --> 00:00:29,519  
somehow encompass a knowledge of that

12  
00:00:34,790 --> 00:00:32,079  
one change might have a disastrous

13  
00:00:35,910 --> 00:00:34,800

effect later on in development of the

14

00:00:36,709 --> 00:00:35,920

brain

15

00:00:39,990 --> 00:00:36,719

so

16

00:00:42,069 --> 00:00:40,000

can't do right now i mean there's a

17

00:00:44,790 --> 00:00:42,079

there's a whole branch of biology called

18

00:00:47,029 --> 00:00:44,800

synthetic biology where they're

19

00:00:49,990 --> 00:00:47,039

basically starting it with with bacteria

20

00:00:52,229 --> 00:00:50,000

where we're trying to engineer organisms

21

00:00:55,270 --> 00:00:52,239

in the simplest ways

22

00:00:57,510 --> 00:00:55,280

but usually it's one gene at a time it's

23

00:01:00,549 --> 00:00:57,520

not an organismal

24

00:01:02,869 --> 00:01:00,559

systems-wide alteration because it

25

00:01:05,030 --> 00:01:02,879

requires that level of

26

00:01:08,710 --> 00:01:05,040

of gestalt

27

00:01:11,190 --> 00:01:08,720

to understand all of that and so

28

00:01:13,429 --> 00:01:11,200

so if you are going to postulate an

29

00:01:15,350 --> 00:01:13,439

intelligence at that level

30

00:01:17,510 --> 00:01:15,360

that's capable of doing that

31

00:01:20,149 --> 00:01:17,520

the changes that it would it would

32

00:01:22,070 --> 00:01:20,159

introduce would be so subtle

33

00:01:23,749 --> 00:01:22,080

that there's no