

Platform: iMessage Timezone: UTC+0000



2018/03/06



Cool
Experiment

Put plants on Prozac
04:51:11 am

2018/03/11



https://en.wikipedia.org/wiki/Holonomic_brain_theory



12:11:48 am

2018/03/13



<http://www.plantbehavior.org/>

Sent an attachment
Filename: 7520950F-6AD8-4361-962E-0D3330766E59.pluginPayloadAttachment
Path: 7520950F-6AD8-4361-962E-0D3330766E59.pluginPayloadAttachment
04:17:35 am



Read some of these

04:17:35 am



Yi

05:57:07 am



2018/03/15



<https://www.usatoday.com/story/tech/2018/03/14/bill-gates-meet-trump-white-house/427044002/>



04:13:18 am



Crazy

04:13:18 am



yyup

09:06:28 am



2018/03/17



<https://www.nytimes.com/2018/02/02/science/plants-consciousness-anesthesia.html>



06:17:31 pm



Yes
07:35:22 pm



2018/03/24



Leaf from my bonsai tree vs
Live brain

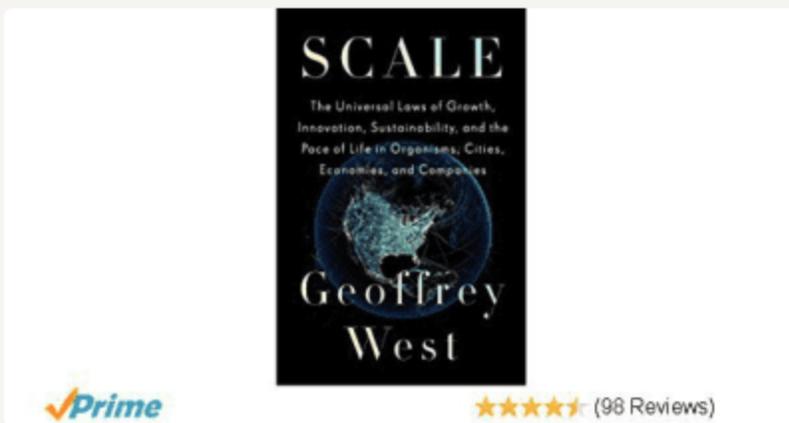


05:34:12 am

<https://www.amazon.com/Scale-Universal-Innovation-Sustainability-Organisms/dp/1594205582>

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05:37:57 am



Read this book
05:37:58 am



GREAT GREAT
10:48:27 am



2018/03/30



How was plant talk
01:08:34 am



Great
01:13:51 am



2018/04/01



Mitochondria...

Looks like it works in spinal cord ischemia too. Brain for sure.

Heading to Boston in about 10 days to meet w collaborator (McCully) and also see Ed Boyden

Really neat. Seems to work best endovascular.
07:51:27 pm

Our research team is me, Yashar Kalani at UVA and McCully at Harvard. Last 5 months experiments all
Good. Planning next few months. Got another grant to continue work. Not sure what's next.
07:52:39 pm

http://www.fasebj.org/doi/abs/10.1096/fasebj.31.1_supplement.693.10

Sent an attachment

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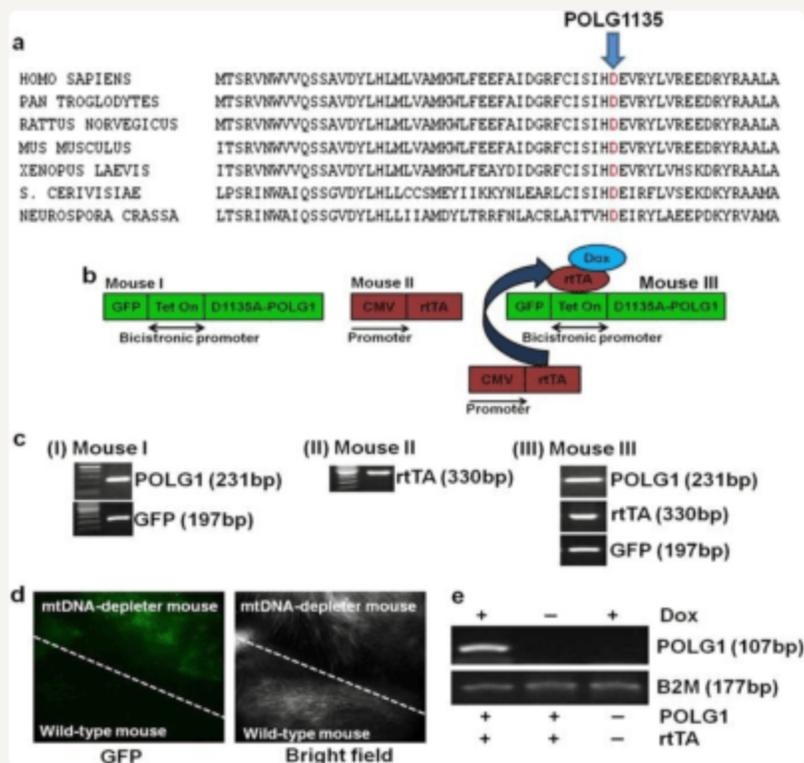
Type: image/vnd.microsoft.icon

07:54:26 pm

30

2018/07/22

<https://www.nature.com/articles/s41419-018-0765-9>



03:15:39 pm

oo

Mitochondria

03:15:39 pm

Yay

03:28:10 pm

oo

We are working on it on brain. A little harder. But did you see the NYT Story in heart mitochondria last week?

03:28:52 pm

oo

We will end up being right if we do exactly as plants do (analogue not exact)

03:31:41 pm

Yes, how does it work in plants

03:31:46 pm

oo

They move healthy mitochondria from One place to another

03:31:59 pm

They don't modify the DNA that's just stupid

03:32:06 pm

It's really expensive energetically for plants bc they have to move across a cell wall - so you know it has to be important

03:32:40 pm

It's just batteries

03:33:01 pm

Plug and play

03:33:04 pm

This is a plant curing it's own Alzheimer over a few hours



oo

03:33:46 pm

How cool

03:34:12 pm

oo

Root cell w plaques caused by soil stress reversed by shifting mitochondria

03:34:16 pm

In this case too much aluminum which is nasty to plants in soil and also humans

03:34:41 pm

The other thing plants can do is shift their metabolic pathways around their available resources

Like glutamate / glutathione shift

Humans can't we always shift to glutamate and fry our neurons

03:35:39 pm

I think for that one it is sulfur storage (glutathione) that humans don't do well

03:36:01 pm

How do they shift. Enzymes?

03:37:21 pm

✓ Sent

It's just energetics

03:37:30 pm

(For plants)

Much easier when you have stored catalysts

03:37:45 pm

It's like a seesaw

03:37:58 pm

It can't only ever do one thing based on available resources

That's how they age and die is when those resources get depleted

Using by getting messed up w stuff in soil

03:38:36 pm

Usually by getting messed up w stuff in soil

03:38:45 pm

<https://www.sciencedirect.com/science/article/pii/S0736453906800164>

E

03:44:22 pm

<https://nph.onlinelibrary.wiley.com/doi/pdf/10.1111/nph.13221>

03:45:20 pm

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Filename: nph.13221.pdf

Path: nph.13221.pdf

Size: 858 KB

Type: application/pdf

03:45:25 pm

o

2018/07/29

██████

I take patient requests very seriously



07:02:53 pm

✓ Read