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To: Jeffrey Epstein <jeevacation@gmail.com>

Subject: What do you think about this idea for Ed

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There is one paper I can find about optogenetics in vascular plants:

<https://www.ncbi.nlm.nih.gov/pubmed/26965120>

Light is typically toxic to roots, they don't like it. They usually get it through their leaves (sort of like our retinas I guess).

Anyway I don't think Ed cares much about Alzheimer or cell stressors but he does care about optogenetics. So what could be done in his lab is explore something that helps his lab and also innovates in the direction we are hoping to innovate w vascular plants.

Anyway, plants might be giving us clues that you may not need to actually transfect cells with funky genetic alterations.

Maybe can use the learning from plants to explore the effect of different wavelengths on the visible spectrum with LEDs on the tip of endovascular catheters.

This would have huge implication to get right. First, you wouldn't need to do anything genetic. Second, you could insert these catheters pretty easily and quickly - and maybe (probably) use different wavelengths of light to treat various conditions.

Wonder if inflammation could be treated w certain light wavelengths - very directly. Like a heat lamp but with no real heat.

But the lessons from vascular plants for the human nervous system is pretty cool. And innovative as you know!