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🧵 🧵 🧵 on COVID

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## 1. “What Was Dr Tomas Ryan Doing In MIT Before He Became Ireland’s Premier Immunologist”

I’m sorry, did I say Immunologist, slip of the pen. I meant to say Neuroscientist 🙄

🧵 1/15




2. Let’s go back in time and look at Dr Tomas Ryan before he became the face of all things “Covid” on Irish television and radio. Let’s not forget that Ryan is a “Neuroscientist” and not an “Immunologist” contrary to what our media tells the public.

3. This is a fact which seems to escape any of the television channels and TV presenters as he is given free rein to talk about the Zero Covid strategy. Or could they be deliberately ignoring it and suppressing the truth? They would never do that or would they.

4. So if he is not an "Immunology" expert what is he an expert in ? Neuroscience apparently. To learn more about Ryan’s career we have to go back to his time in Massachusetts Institute Technology (MIT). In MIT his mentor and boss was a guy called Susumu Tonegawa

5. Tonegawa is a former Nobel Prize winner, has his own lab named after him at MIT and is also a member of the World Economic Forum. He also specialises in the area of “advanced gene manipulation” in Neuroscience

6. MIT has been funded to the tune of hundreds of millions if not billions by the Bill & Melinda Gates foundation. Trinity College Dublin where Ryan now works also received funding for  development

## Trinity College Dublin

**Date:** November 2018

**Purpose:** to increase public awareness about decisive moments in global health, as witnessed by the Norwegian physician Tore Godal

**Amount:** \$230,000

**Term:** 35

**Topic:** Vaccine Development

**Program:** Global Health

**Grantee Location:** Dublin

**Grantee Website:** <https://www.tcd.ie/>



BILL & MELINDA GATES foundation

Search gatesfoundation.org

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massachusetts institute technology

SEARCH

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RELEVANT | RECENT

NOVEMBER 10, 2016

**Massachusetts Institute of Technology**  
**Purpose:** to provide a charitable gift supporting the sustainability of the Varanasi Research Group laboratory, in the area of developing innovative technologies for Global Health.

NOVEMBER 4, 2016

**Massachusetts Institute of Technology**  
**Purpose:** to support the development of engineered interfaces to enable delivery of high viscosity vaccine/drug formulations for the developing world

NOVEMBER 27, 2018

**Massachusetts Institute of Technology**  
**Purpose:** to further develop technology to support single-injection delayed-release T-solium vaccine supplement and sealed core-shell particles

7. So Ryan has been learning from the "creme de la creme", it doesn't get much better than a Nobel Prize Winner. In 2015 Ryan was the lead author of a paper on Amnesia which was published in Science and appeared on the WEF site

[weforum.org/agenda/2015/06...](http://weforum.org/agenda/2015/06...)

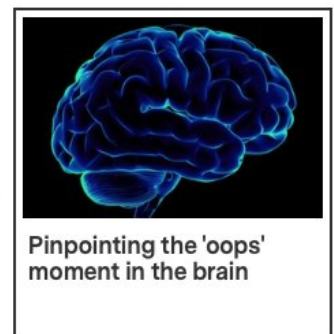
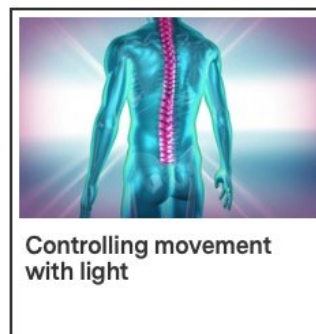
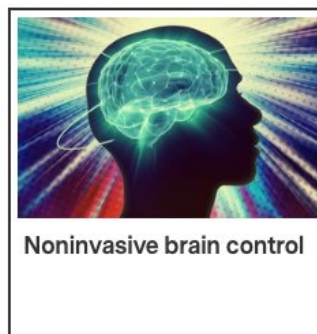
8. This paper was funded by the RIKEN Brain Science Institute, Howard Hughes Medical Institute, and the JPB Foundation. Tonegawa was also a Director of the RIKEN Brain Science Institute at the time of the publication. So no COI obviously.

9. What is interesting is that the paper used a technique "Optogenetics" which most commonly refers to a biological technique that involves the use of light to control neurons that have been genetically modified to express light-sensitive ion channels

[news.mit.edu/2015/optogenet...](http://news.mit.edu/2015/optogenet...)

10. Optogenetics can be used for good like Alzheimers or well "not so good". I will leave it up to your imagination as it how it can be used and abused. A clue would be the related articles from the MIT site on the same page

#### RELATED ARTICLES




11. Interestingly in 2013 MIT put out a video explaining Optogenetics. Very tellingly in the video at 2.50 the guy narrating says

"So far Optogenetics has had a lot of impact in the scientific world, but it hasn't been used in any human patients yet..."

12...there are a couple of reasons why. One it requires a gene therapy to deliver the gene that encodes for these light activated molecules into the body. Currently in the US there are no FDA approved gene therapies"

Joining the dots yet...

[youtube.com/watch?v=Nbo7TL...](https://youtube.com/watch?v=Nbo7TL...)

13. Interesting that he mentioned no FDA approved gene therapies. I stand to be corrected but there still aren't any approved ones. There are however a couple of gene editing  on the market under emergency legislation as they are still in clinical trials until 2022/2023.

14. Ryan is still working closely with MIT from his lab in Trinity as this article on the MIT site proves

[bcs.mit.edu/news-events/ne...](https://bcs.mit.edu/news-events/ne...)

15. So now you know one of the areas that Dr Tomas Ryan was studying which he is no doubt working on in his lab in Ireland. The question is will it be used for the betterment of society.

4th Industrial Revolution anyone ?