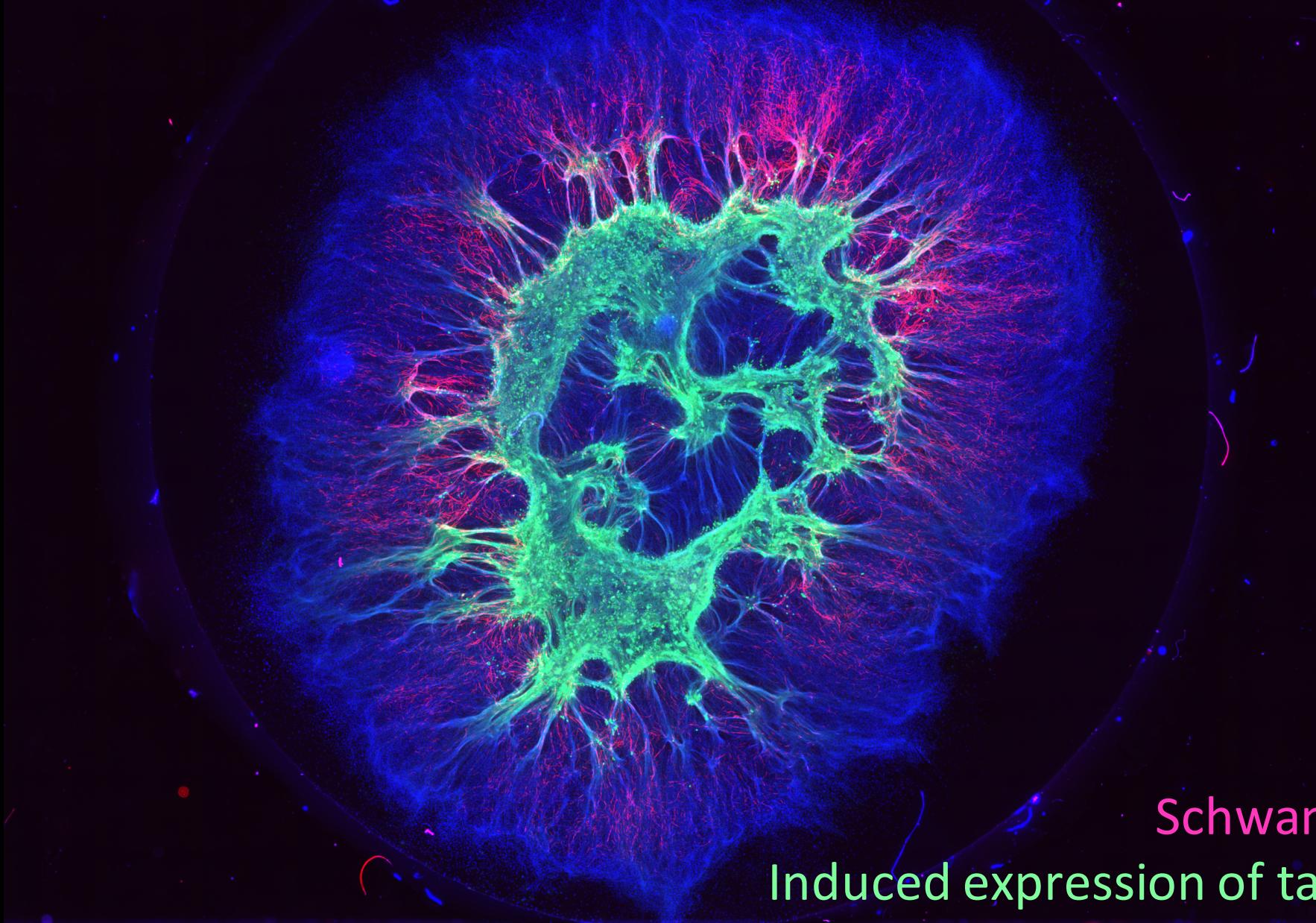


The Open Revolution in Science (and why it needs you)

@dcrobins

What kind of data do scientists collect?

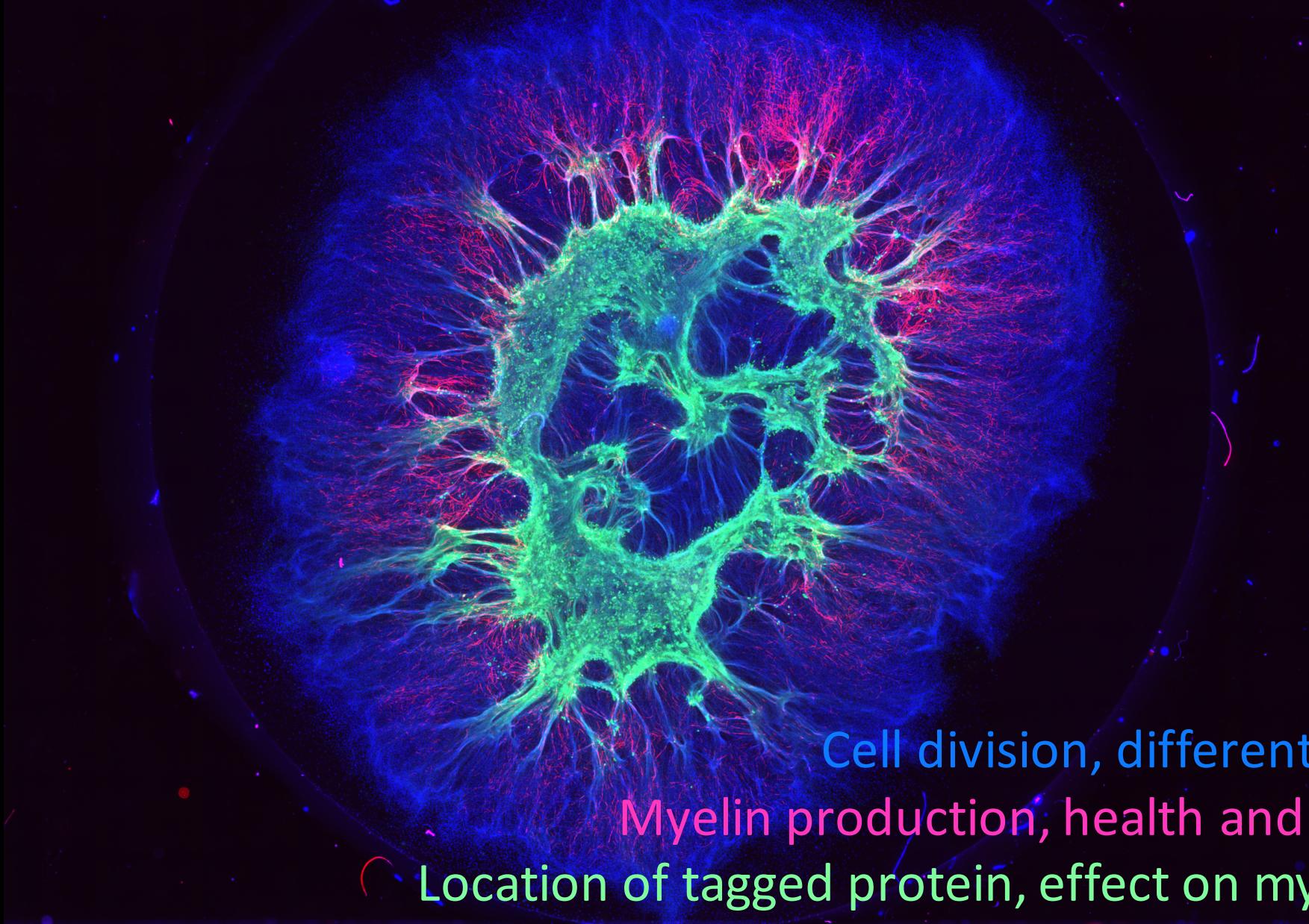


Cell nuclei

Schwann cell myelin

Induced expression of tagged protein

What kind of data do scientists collect?



Cell division, differentiation, health

Myelin production, health and maintenance

Location of tagged protein, effect on myelin and cells

Q: What happens to that data?

- A: Hopefully it goes in a publication
- On this slide I try to describe the bizarre system of publication, incentives, and grant funding that governs the career of a typical basic researcher

Q: Cool, can I see the data or read the paper?

- A: If you can pay for it

The screenshot shows a journal article page from **WIREs SYSTEMS BIOLOGY AND MEDICINE**. The article is titled "Subdiffractive microscopy: techniques, applications, and challenges" by Brian R. Long†*, Danielle C. Robinson, and Haining Zhong*. The version of record online was 17 JAN 2014, with a DOI of 10.1002/wsbm.1259. The copyright notice is © 2014 Wiley Periodicals, Inc.

The page includes a sidebar with search and article tools, and a main content area with tabs for Abstract, Article, References, and Cited By. A red box highlights the "Purchase Instant Access" section, which offers three options:

Option	Price	Duration	Permissions
Rent *	\$6 USD	48 hours	<input checked="" type="checkbox"/> Read <input type="checkbox"/> Print <input type="checkbox"/> Save
Cloud *	\$15 USD	Not specified	<input checked="" type="checkbox"/> Read <input type="checkbox"/> Print <input type="checkbox"/> Save
PDF	\$38 USD	Not specified	<input checked="" type="checkbox"/> Read <input checked="" type="checkbox"/> Print <input checked="" type="checkbox"/> Save

*Only available in ReadCube web reader, desktop app and mobile apps

Below the purchase section, there are options for accessing the content, including links for society members, institutions, and institutional customers, along with OpenAthens login.

Q: Umm, but my taxes funded that research

- A: Right, but we have been doing things this way for a long time



Amy Wibowo
@sailorhg

Science is Political

- Like everything else

The Open Revolution in Science

- Open Access <- read the article for free
- Open Data <- see, reuse the data that informed the author's conclusions
- Open Science <- see how that data was collected and analyzed

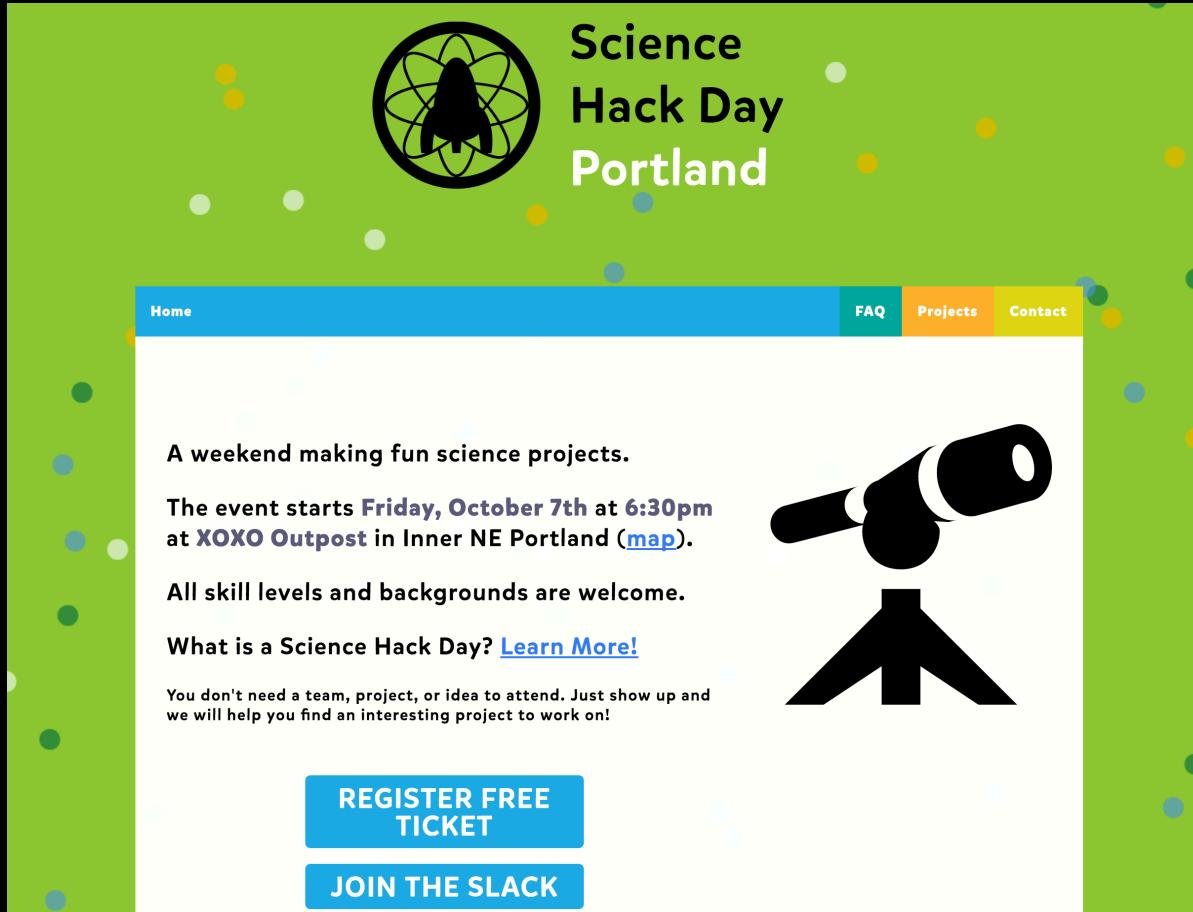
The Open Revolution in Science Needs You

- Open Access <- read the article for free
Discuss access issues, express demand/interest
- Open Data <- see, reuse the data that informed the author's conclusions
Infrastructure, infrastructure, infrastructure
Use cases, power of data reuse, etc
- Open Science <- see how that data was collected and analyzed
Collaborate, learn from each other etc.....

Examples of great open sci projects

- With general public appeal!

Join scientists and make cool stuff (also, friends)



The image shows a screenshot of the Science Hack Day Portland website. The background is a light green color with scattered small, semi-transparent colored dots (yellow, white, blue, teal). At the top center is a black circular logo featuring a stylized rocket ship or atom symbol. To the right of the logo, the text "Science Hack Day Portland" is written in a white, sans-serif font. Below the logo is a navigation bar with four items: "Home" (in white), "FAQ" (in teal), "Projects" (in orange), and "Contact" (in yellow). The main content area has a white background. It contains several paragraphs of text and two large, bold, blue buttons at the bottom.

A weekend making fun science projects.

The event starts **Friday, October 7th at 6:30pm** at **XOXO Outpost** in Inner NE Portland ([map](#)).

All skill levels and backgrounds are welcome.

What is a Science Hack Day? [Learn More!](#)

You don't need a team, project, or idea to attend. Just show up and we will help you find an interesting project to work on!

REGISTER FREE TICKET

JOIN THE SLACK