Slides, videos, links and more:
https://github.com/physicell-training/02-How-to-nanoHUB

Lesson 02: How to use a PhysiCell nanoHUB app

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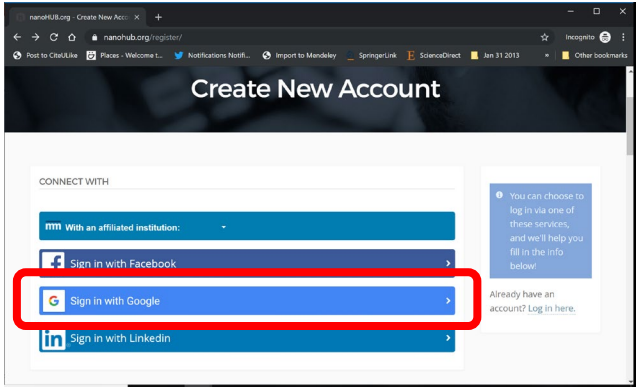
PhysiCell Project

last updated: November 13, 2019

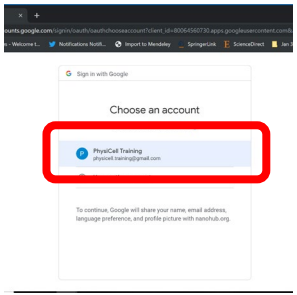
nanoHUB Account

- These tutorials use cloud-hosted PhysiCell models on nanoHUB.org.
- nanoHUB is **free**, but it requires a one-time registration.
- **Steps**:
  1. Visit https://nanohub.org/register
  2. Choose "Sign in with Google"
  3. Choose a Google account
  4. Click "No" (so it doesn't try to associate with some other nanoHIB account)
  5. Finish filling in details, and you're done!
  6. Use your google account to sign in in the future.

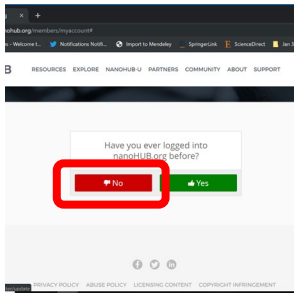
2



3



4



Sample nanoHUB app

- I suggest pcISA or pc4cancerbots
- Something fast but reasonably interesting.

Splash screen and launching tool

About tab

Config basics

User parameters

Out: Cell Plots

Out: Substrate Plots

Downloading simulation plots

Live demo

Next steps

Super fast: Please proceed to 04 (Introduction to PhysiCell)
link: https://github.com/physicell-training/04-PhysiCell-intro

Intermediate: Please proceed to 04 (Introduction to PhysiCell)
link: https://github.com/physicell-training/04-PhysiCell-intro

Full training: Please proceed to 03 (What is an agent-based model?)
link: https://github.com/physicell-training/03-What-is-ABM

More materials: https://github.com/physicell-training/master-list

Credits

Module Planning: Paul Macklin, Drew Willis*, Randy Heiland

Slides: Paul Macklin, Drew Willis, Randy Heiland

Recording: Paul Macklin, others?

Post-production: Paul Macklin, Drew Willis*, Kali Konstantinopoulos*

Microapps: https://www.nanohub.org/tools/???

* denotes undergraduate researcher

Funding:

PhysiCell Development:

- Breast Cancer Research Foundation
- Jayne Koskinas Ted Giovanis Foundation for Health and Policy
- National Cancer Institute (U01CA232137)
- National Science Foundation (1720625)

Training materials:

* Administrative supplement to NCI U01CA232137 (Year 2)