WELCOME TO PUBS!

Physical Underpinnings of Biological Systems - 2017

http://kampmannlab.ucsf.edu/pubs-2017
TAs

Taylor Arhar  Alison Maxwell  Dan Schwarz

Doug Wassarman  Taia Wu
The alpha-Team
TA: Alison
Yessica
Jenna
Nish
Adam

Rub-a-dub-dub 4 geeks in PUBS
TA: Doug
Andrew
Taylor
Jean
Kyle

Yeast mode
TA: Taia
Erik
Matt
Gracie
Lakshmi

Buds
TA: Dan
Jared
Snow
Christa

Aged Neuron Merge
TA: Taylor
Daniel
Maureen
George
PUBS is an experiment
Undergraduate student

Consuming knowledge

Graduate student

Producing knowledge

**Determination of ubiquitin fitness landscapes under different chemical stresses in a classroom setting**

David Maro1, Kyle Barlow2, Samuel Thompson1, Benjamin A Barad1, Alain R Borgy1, Clinton L Castro2, Garrett Gaskins2, Zhaoan Liu1, Laura Deming1, Seth A Axen2, Elena Caceres2, Weilin Chen3, Adolfo Cuesta3, Rachel E Gate4, Evan M Green5, Kaitlin R Hulce2, Waleyte Ji1, Lillian R Kenner1, Bruce Mora5, Leanne S Morinishi5, Steven M Moss5, Marco Miravic2, Ryan K Muir5, Stefan Niskamp5, Charnoo I Mead5, Eugene Polovcak5, Erin M Pass5, Tyler D Rose5, Eugenia C Salcido5, Stephanie K See6, Meena Subramaniam4, Allison W Wong5, Jennifer Li7, Kurt S Thom6, Shane O Conchuir1, Benjamin P Rosseau8, Eric D Chow8, Joseph L DeRisi9, Tanja Kottmeyer7, Daniel N Bolon5, James S Fraser7
Key aspects of PUBS

- Team-based
- Interdisciplinary
- Experiments + Bioinformatics
- Big Data
- Thinking about biology - and its physical basis
Class components

• Experiments
• Data analysis
• Journal club
• Protocol talks
• Faculty lectures
• Presentations
• Final presentation: Oct 26 (TBC)
Class policies

- Course website: http://kampmannlab.ucsf.edu/pubs-2017
- Show up - on time!
- Some experimental steps happen outside class hours - coordinate with your team
- Planned absences: let Martin know by 9/20
- Absence due to sickness: let us know before the class
- Final presentation (10/26, TBC): mandatory
- Complete online course “Laboratory Safety for Researchers” by 9/19, 1 pm: https://learningcenter.ucsfmedicalcenter.org/
  Email your training transcript to your TA
Secret tips for success

• Communicate
• Set priorities
• Connect the dots
• Hypothesis-driven data analysis
“I've learned that people will forget what you said, people will forget what you did, but people will never forget how you made them feel.”

Maya Angelou