# Welcome to Macro Methods!

http://fraserlab.com/methods/

#### Macro Methods team\*

#### **INSTRUCTORS**



**Jaime** 



Aashish



Stephen

#### **TEACHING ASSISTANTS**



Maru



Aji



Bryan

#### **FEATURING LECTURERS:**



Michael Thompson



Klim Verba





Dave Agard Yifan Cheng



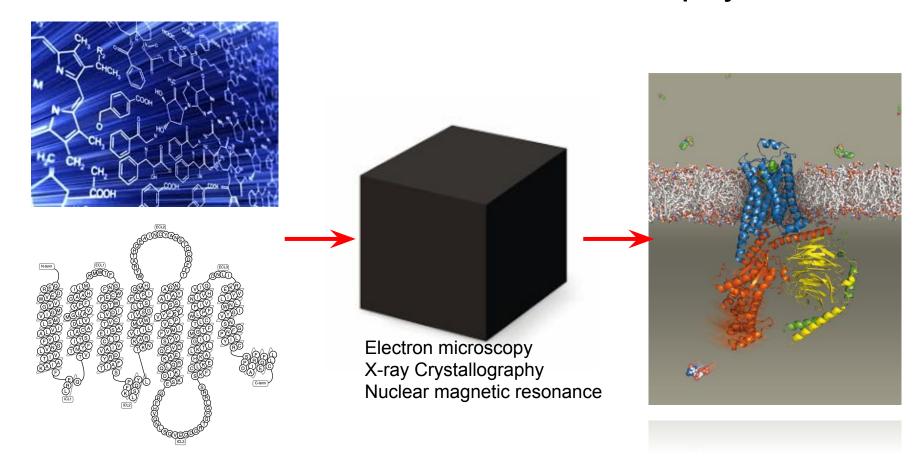
David Bulkley Ryan Tibble



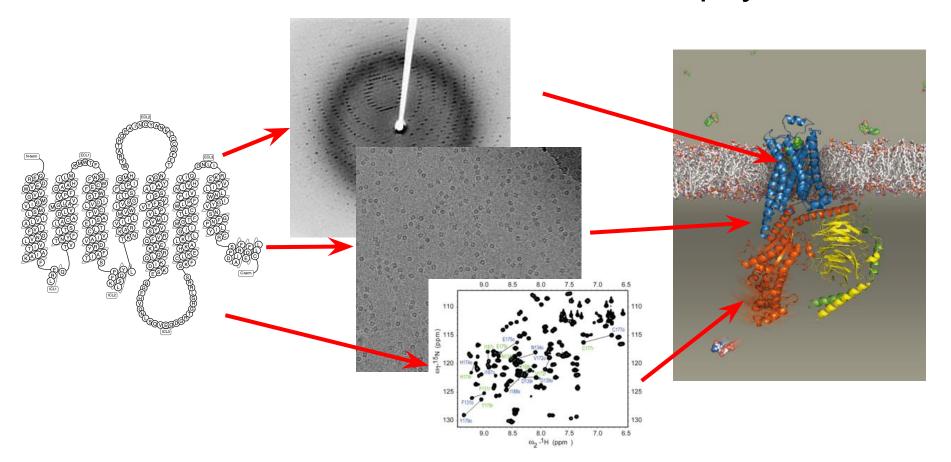


**Bob Stroud** 

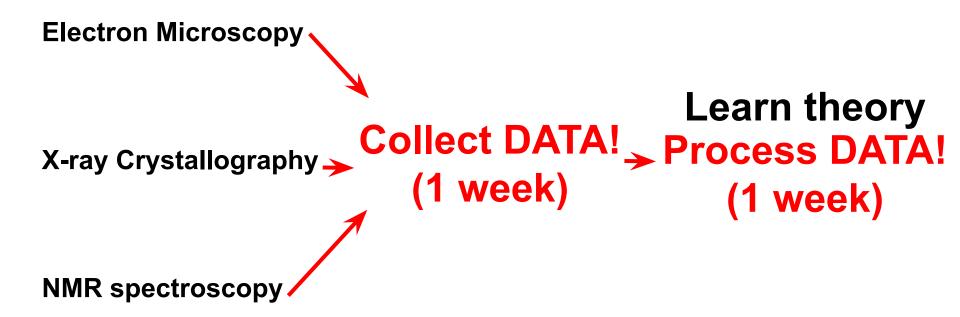
## Goal: understand the black boxes of biophysics



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### Structure of Macro Methods



## Student groups



Barbara **Low:** 

Wenqi Shen Muziyue Wu Nicholas Young Adamo Mancino



Rosalind **Franklin**:

Jordan Kleinman Jacqueline Weaver Zachary Gale-Day Hersh Bhargava



Dorothy **Hodgkin:** 

Sophie Kong Erin Isaza Minh Tran Connor Galvin



Ada **Yonath**:

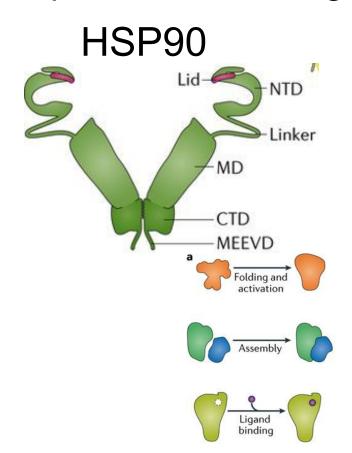
Elizabeth Sisko Chad Altobelli Wilson Nieves Vasquez Matthew Smith

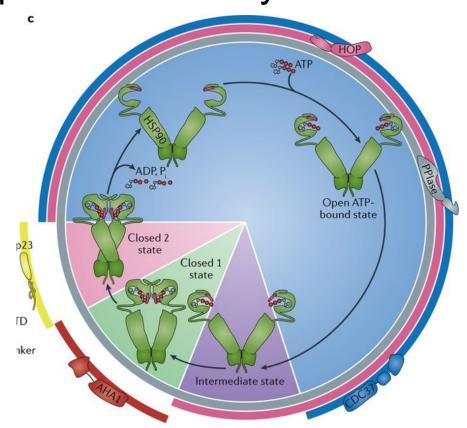


Pamela **Bjorkman**:

Audrey Kishishita Regan Volk Leandrew Dailey Marcell Zimanyi

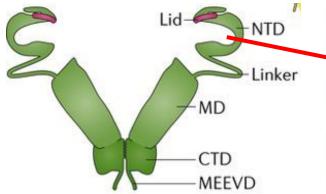
## Experiential learning requires a model system

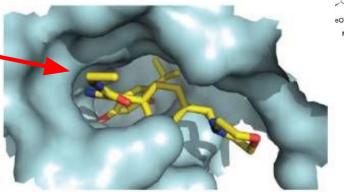


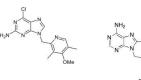


### A druggable site in HSP90



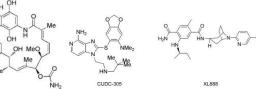


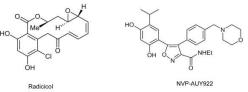


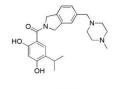












#### Learning objectives:

What can you learn from each method? How did you get to these results? How confident are you in these results? Do the different methods agree?

How can we integrate results from different methods for a holistic picture? What can we learn about driving forces and kinetics of the HSP90 cycle?

# Final presentation - mark calendars now!

### Monday December 16, 2019

20 minutes per group (15 min presentation, 5 min questions)

Presenting to Jaime, Aashish, Stephen, TAs and one external examiner

Style: variable, and largely depends on how you want to organize/what you learned. No "right" way to do it. This is by design!

## Lawrence Berkeley National Laboratory

Need to register to go the beamline at LBNL on 11/7 and 11/8 ASAP

Go to <a href="https://alshub.als.lbl.gov/home/">https://alshub.als.lbl.gov/home/</a> and register. Date of first experiment is 11/7/2019

After getting a LBL#, you will need to do training ALS 1001, EHS 0470, ALS 1007

We will use beamline 8.3.1. For funding, say either NIH or Other

Type of work: Participating Research Team

Will conduct non-proprietary work

PI: Manglik