
AAUW Fund Event

October 23, 2021

Welcome

Presentation materials:

- Download the presentation from the AAUW California website home page.
- The meeting recording, a summary Q&A document and example documents will be posted following the meeting.

Questions:

- Use the Q&A function to pose a question. We'll stop periodically to answer general questions.
- Chat has been disabled.

The screenshot shows a Zoom 'Question and Answer' window. At the top, there are two tabs: 'All questions (1)' and 'My questions (1)'. A red dashed arrow points from the text 'Check here for answers to all questions.' to the 'All questions (1)' tab. Another red dashed arrow points from the text 'Check here for answers to your questions' to the 'My questions (1)' tab. Below the tabs, a question is visible: 'Where can I download the presentation?' asked by 'You' at 09:45 AM. Below this, there is a section for 'Collapse all (1)' and a response from 'AAUW California' at 09:46 AM. At the bottom of the window, there is a text input field with the placeholder 'Type your question here...'. A red dashed arrow points from the text 'Type your question here.' to this input field. In the bottom left corner of the Zoom interface, there are two circular icons: 'Chat' and 'Q&A'. The 'Q&A' icon is circled in red. A text box on the left side of the window states 'Chat has been disabled. Use the Q&A function'. In the bottom right corner, there is a red 'Leave' button.

Welcome and Introductions



Lynne Batchelor
Chair, AAUW California Fund
Committee



Dianne Owens
AAUW California President



Katrina Sun Breese
AAUW Senior Director of Institutional
Advancement

Katrina Sun Breese

AAUW Senior Director of Institutional Advancement

Reem Al Olaby, Ph.D.



Elucidating the Role of Heat Shock Proteins in Fragile X-Associated Tremor/Ataxia Syndrome

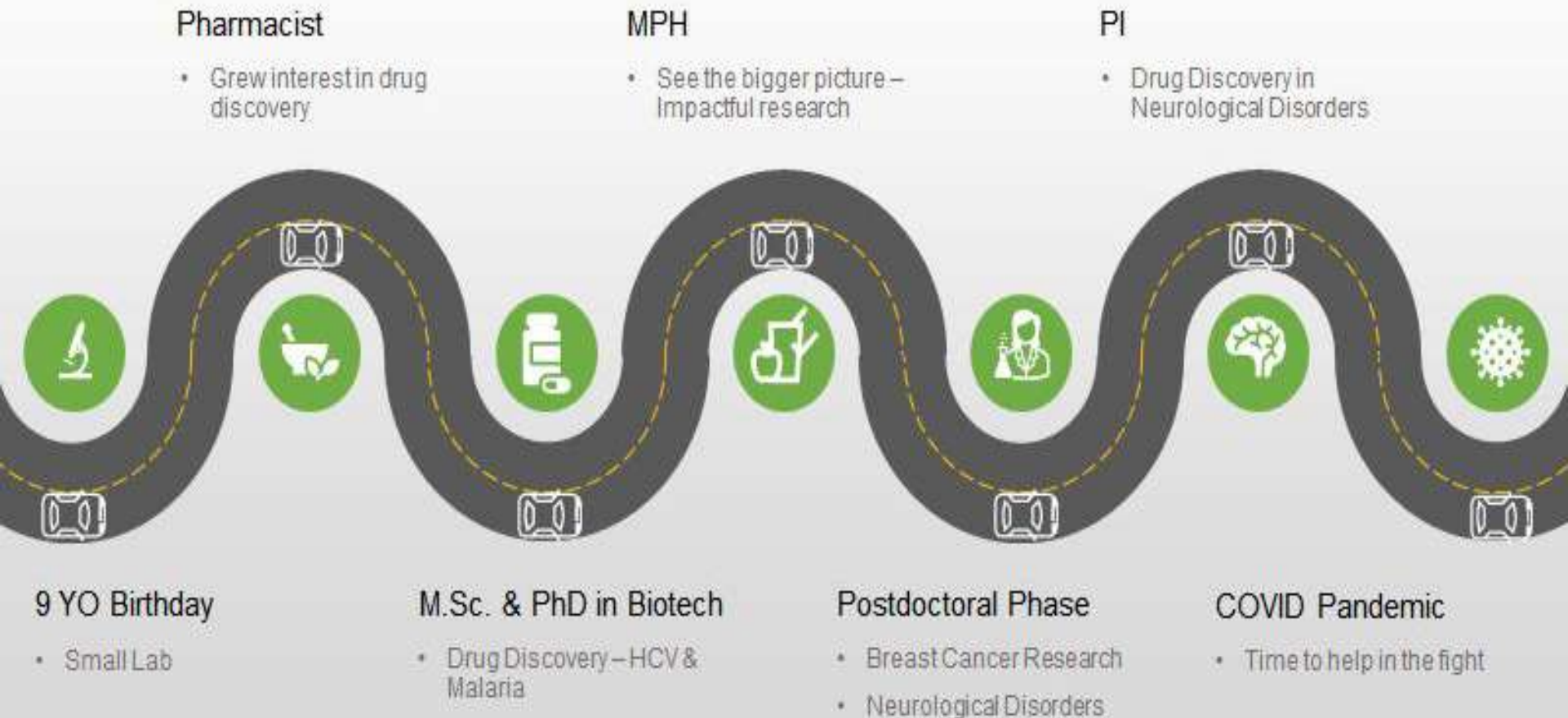
*California NorthState University
Cell and Molecular Biology*



My Journey into Drug Discovery

Reem Al Olaby, MPH, PhD

The Beginning of the Journey



Two Projects

Elucidating the Role of HSPs in FXTAS

Orphan Disease

Patients – Altered quality of life

Need for pharmacological interventions

Protein stabilizing machinery - drug targets

Identifying Drug Leads Against COVID19

Pandemic / Public Health Burden

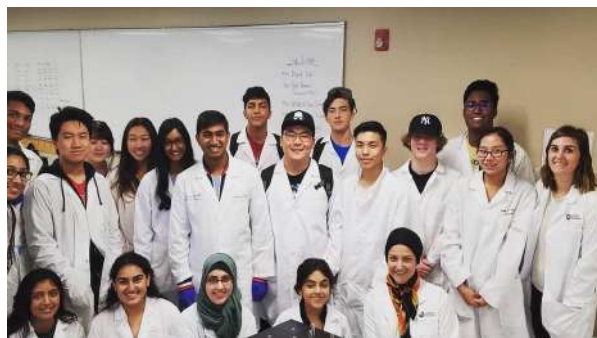
No FDA approved drug

Targeting the entry phase

Identification of small molecule inhibitors that block the entry of the virus



Teaching Through Research



**Not Only Results
But Engagement!**

Jodi Diamond



Boys & Girls Clubs of Oceanside - STREAMing Ahead



BOYS & GIRLS CLUBS
OF OCEANSIDE



GREAT FUTURES START HERE.

Jodi Diamond
Chief Executive Officer

Our Mission

To inspire, develop and enrich young people to reach their fullest potential as confident, responsible, caring members of society.



Our Vision

To be the premier youth organization where every child becomes an exemplary member of society.



In a Harris Survey,
**90% of Club
alumni** reported they
earned a high school
diploma or equivalent.


90%
**OF CLUB ALUMNI
GRADUATED**

We want 100%!



History Highlights

1952

Boys & Girls
Clubs of
Oceanside
Incorporates

**Early
90s**

Opens to
ALL youth,
boys AND
girls

1999

Libby Lake
Recreation
Center

2006

OUSD
on-site after
school
programs

2009

VUSD
on-site after
school and
middle
school sports
programs

2009

Real
Options for
Adults with
Disabilities
(ROAD's)

2013

Renovation of
Townsite
Facility

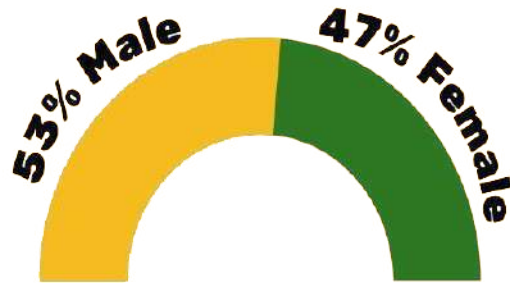
2018

Center for
Innovation!

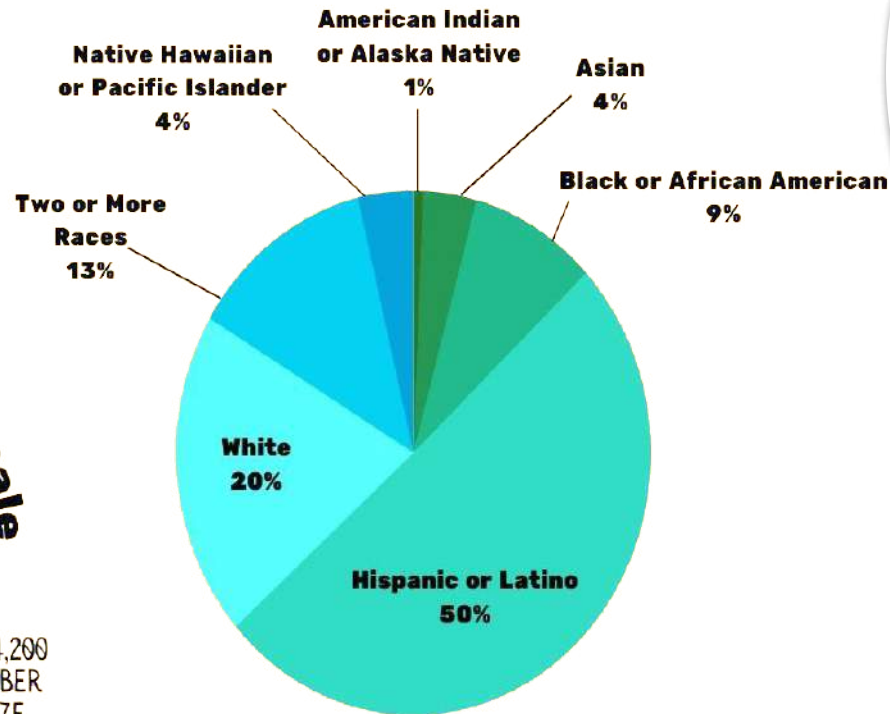
Our Members

2020 Total Registered Members: 2,339*
Average Daily Attendance in Afterschool
Programs: 250*


2,339*
REGISTERED MEMBERS



*DURING "NORMAL" TIMES, BGCO SERVES OVER 4,200 YOUTH ANNUALLY. CURRENT REGISTRATION NUMBER REFLECTS COVID-19 RESTRICTIONS ON GROUP SIZE.



Our Members

2020 Total Registered Members: 2,339*
Average Daily Attendance in Afterschool
Programs: 250*



MEMBER DEMOGRAPHICS

1,820

**Ages
5 to 12**

519

Teens

91%

**Qualify for Free
or Reduced
School Lunch**

49%

**Come from
Single Parent
Households**

Emergency Food Program

More than
55,000
meals served!





Scholarships

Fiscal Year	Number of Members	Total Scholarship Amount
2020-2021		\$160,000
2018-2019	710	\$81,800
2017-2018	678	\$86,958
2016-2017	648	\$63,726
2015-2016	672	\$76,644
2014-2015	629	\$61,793
2013-2014	686	\$78,965
2012-2013	620	\$60,938
2011-2012	587	\$58,500



LOVE







2020 California Nonprofit of the Year



Thank YOU for the opportunity to share!



Allison Dziuba



Feeling Like We Belong: Student Publications and Extracurricular Rhetorical Education

*University of California-Irvine
English*



Rhetorical Education in the Extracurriculum

Allison Dziuba
University of California, Irvine
adziuba@uci.edu



How to write and communicate

Rhetorical education from
ancient Greece to the
contemporary U.S. university



Beyond the college classroom

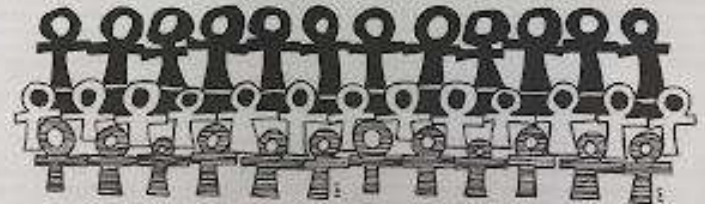
Student newspapers,
organizations, and activism



The Womyn's Quarterly, 1987–1994



The Womyn's Quarterly is a creative forum written by a radical women's collective which insists upon a critical revisioning of the world. This revisioning entails challenging not only patriarchal, capitalist, white supremacist, heterosexist, ageist, and all other oppressive institutions, but also the deficient ideologies of liberalism and white feminism. This creative movement is rooted in a desire to give rise to the voices of the oppressed -- voices which have been forced underground. The Womyn's Quarterly functions as a medium for women's expressions in order to celebrate the resistive actions pending our inevitable liberation.





Thank you!



Allison Dziuba
University of California, Irvine
adziuba@uci.edu



Jessica Gutierrez Masini, Ph.D..



Native American Indigeneity Through Danza in Southwest Powwows: A Decolonized Approach

University of California-Riverside
Ethnomusicology

Native American Indigeneity through Danza in Southwest Powwows: A Decolonized Approach

Jessica Margarita Gutierrez Masini

University of California, Riverside

jguti045@ucr.edu

2021-2022 AAUW American Dissertation Fellow

Introduction and Permission

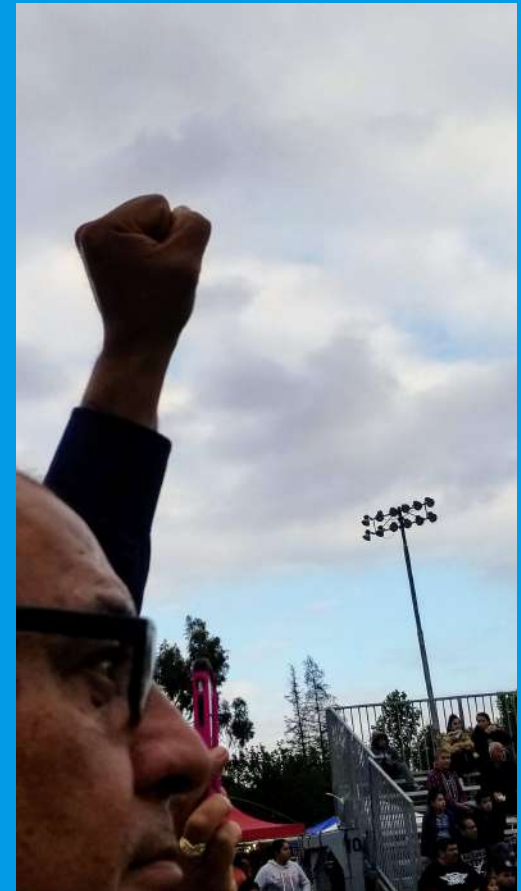
Key Questions

Why are danzantes invited to powwows and how do they choose what events to participate in? What are the arguments both for and against Danza's presence at powwows? How has Danza in powwow spaces changed intertribal relations in the Southwestern United States, including notions of Indigenous identity and decolonial praxis?



UC Riverside 38th Annual Powwow with my Danza group taken on May 25th 2019.

UC Riverside Powwow moment May 26, 2018





A'chama.
Thank you.

(in Cahuilla)

Dana Landress, Ph.D.



Gardens for Health and Wealth: Pellagra and Women's Public-Health Work in the New Deal South

*University of California-Berkeley
History*

The “Other” Pandemic: Pellagra

- What? Pellagra - deficiency (B3)
- Who? 3.5 million recorded cases
- Where? The U.S. - Deep South
- When? 1906-1940s
- Why? Women’s public health work

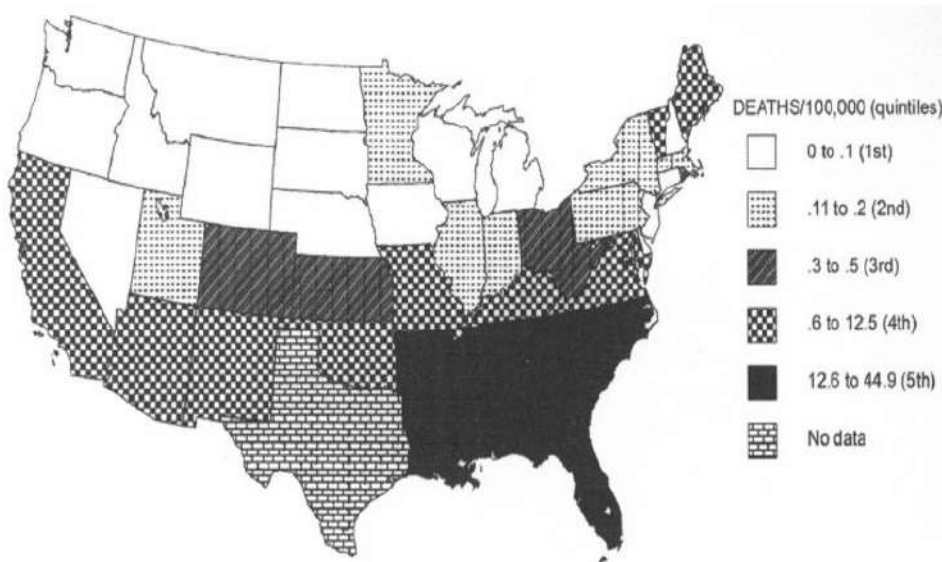
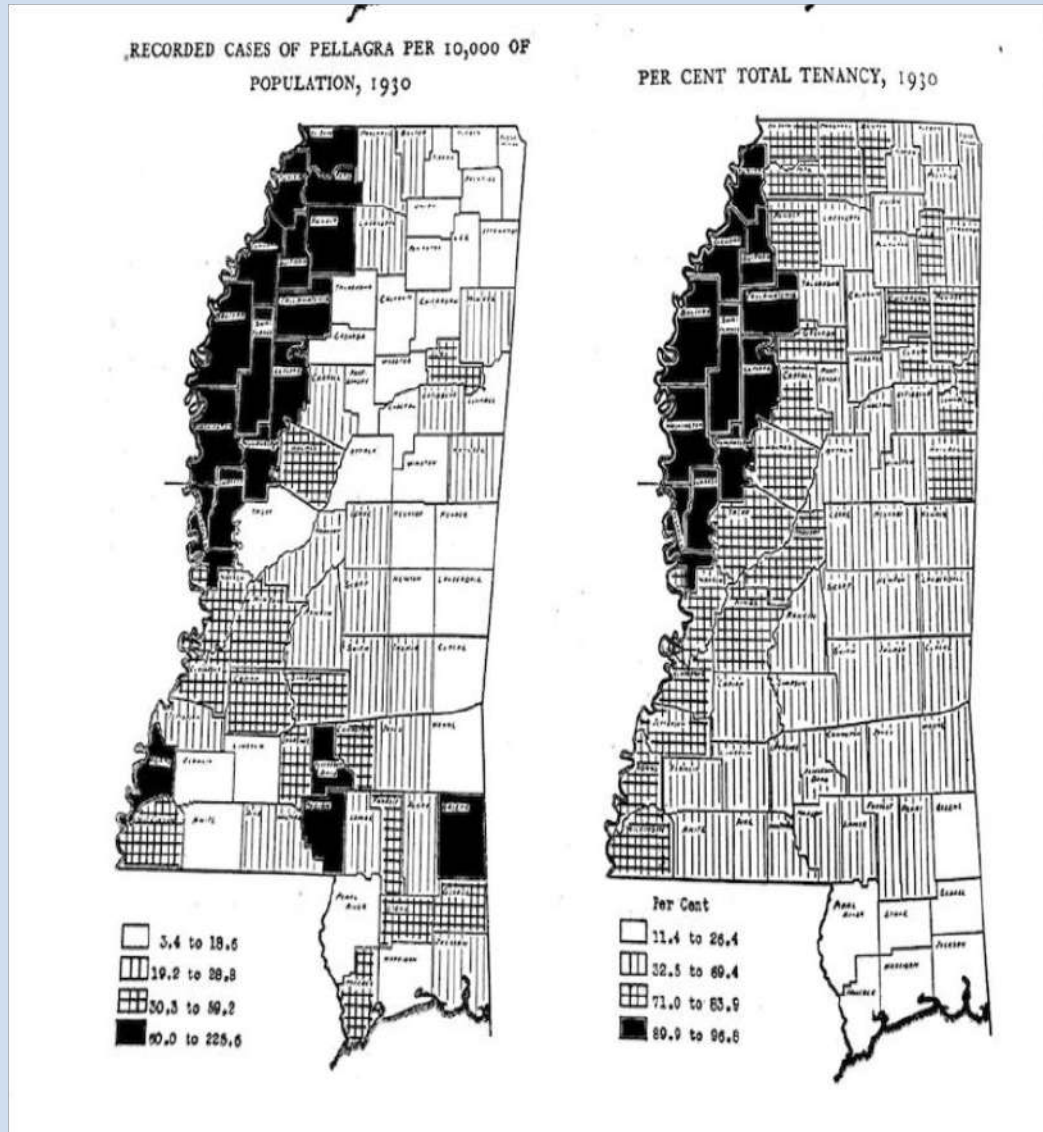


Fig. 2. Pellagra mortality: 1930.

Why the American South?



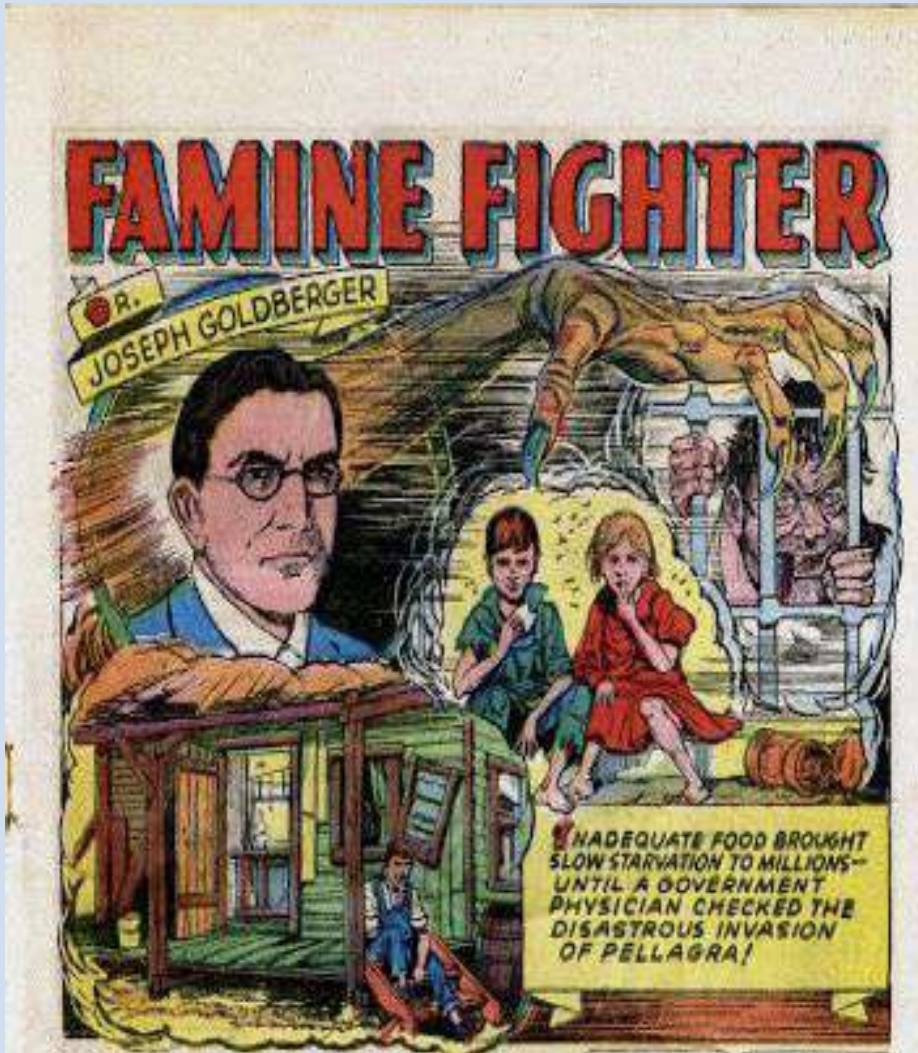
Map Comparing Pellagra Cases to Cotton Tenancy

Howard W. Odum's "Southern Region of the United States,"

Published: 1936

First time in public health history that disease becomes linked with an economic system, namely, the southern sharecropping economy

The Current Pellagra Story



Dr. Joseph Goldberger

Great American

By Paul Dr. Kruif.

WHEN you believe enough in your own science to be ready to give up your own life to convince the world of it—then with luck you have a chance to become a giant your country will remember. In 1916 Dr. Joseph Goldberger risked his life for truth. He was a lone-wolf searcher of our United States Public Health Service. He held the scientifically absolutely unorthodox belief that pellagra was not contagious. He knew it was a hidden hunger—for vitamins that had not then been discovered.

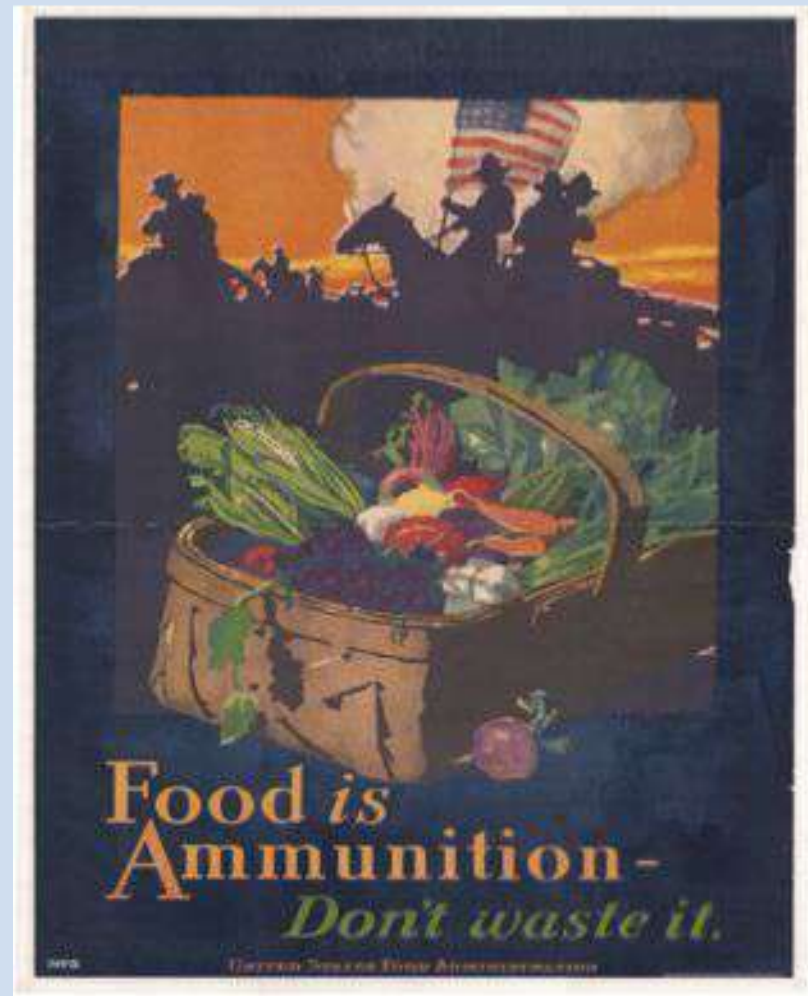
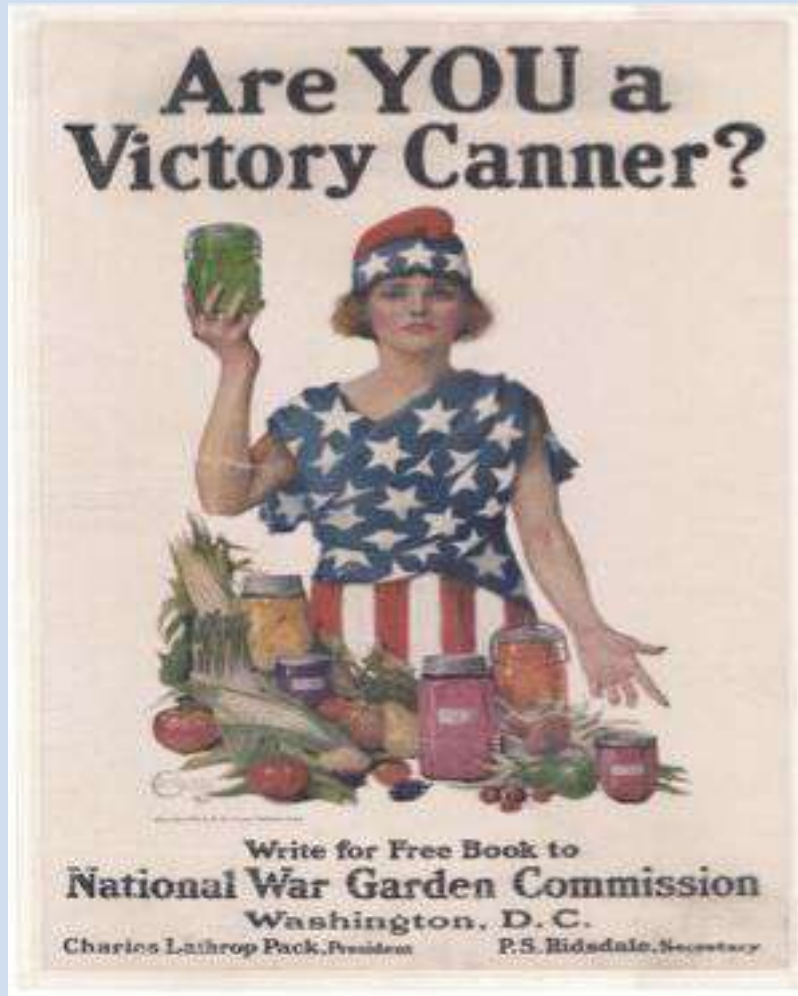
In his fight to solve the pellagra mystery, Dr. Goldberger faced this major obstacle that he had no laboratory animal to which he could give the sickness. His laboratory was our southland. He wandered out, in 1914, from the Hygienic Laboratory in Washington, out to a Georgia madhouse, to southern asylums, and into the hovels of southern havenots. His experimental animals in those early days were a red-rashed, weary, lazy, discouraged, often demented rag-tag-and-bobtail of American humanity.

He was a gentle, woolgathering, and dreamy Jew, making his own observations, caring little for the opinion of so-called scientific authority. He was no high-pressure salesman of his own science. The scientific world could take it or leave it. His exact observations were from the first hooted down by physicians experienced in the pellagrous doom of human beings. Worst of all, why get het up about this pellagra, anyway? Dr. Goldberger's lowly experimental human subjects



DR. JOSEPH GOLDBERGER.

WWI: Fighting the Health Wars at Home



Who's Missing? Or, Writing Women Back into the History of Public Health







“Gardens for Health and for Wealth”



Thank you, AAUW!

Becky Mashaido, M.S.



**Computer and Information Sciences -
M.S., Artificial Intelligence and
Computer Vision**

*Northeastern University
Artificial Intelligence and Computer Vision*

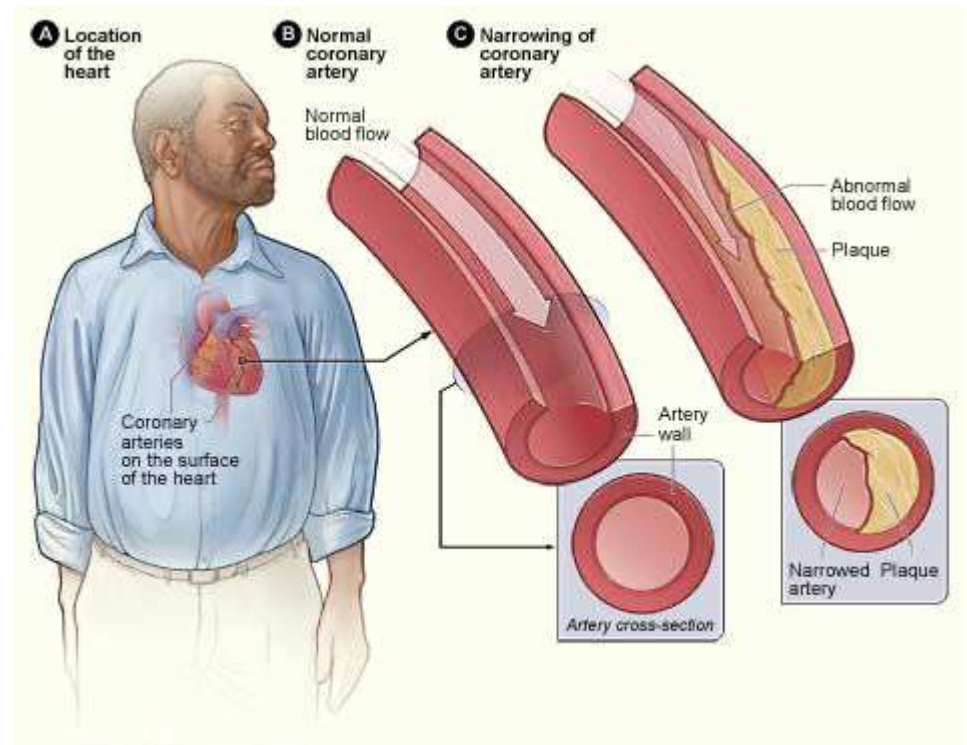
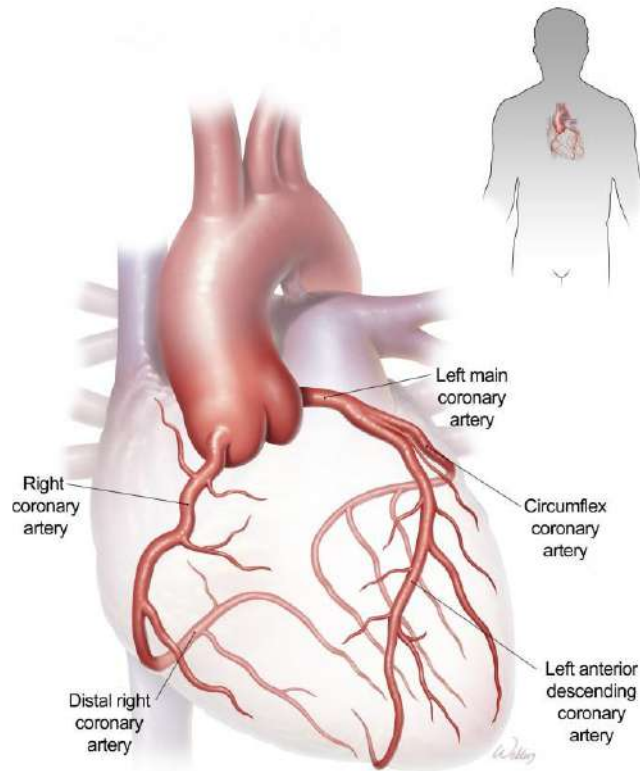
K'Ashe McKinney, M.S.



**Drug Delivery
Molecular, Cellular, and Tissue
Therapeutics**

*University of California-Los Angeles
Bioengineering*

Coronary Heart Disease is the leading cause of death in The Bahamas



Medication can be used as treatment for Coronary Heart Disease

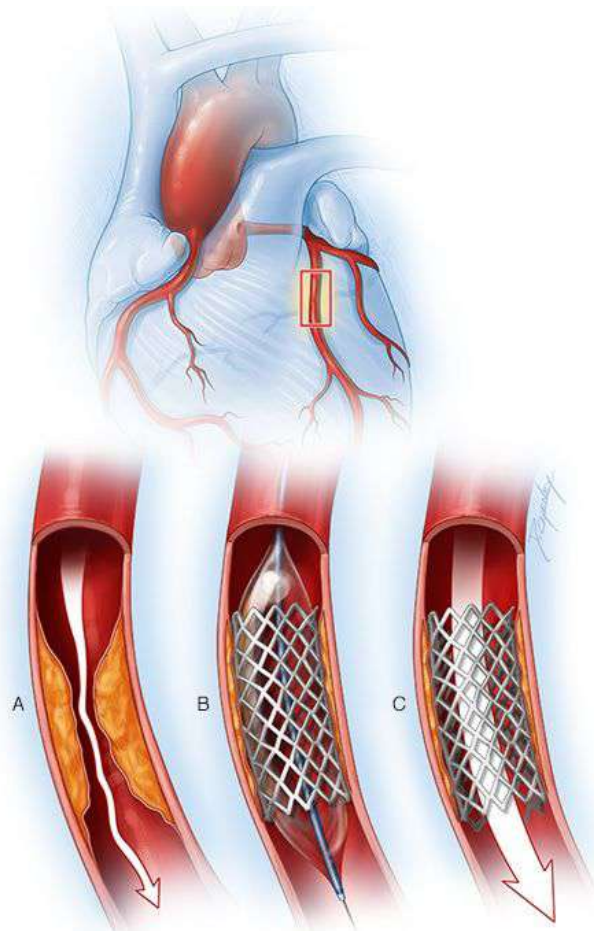
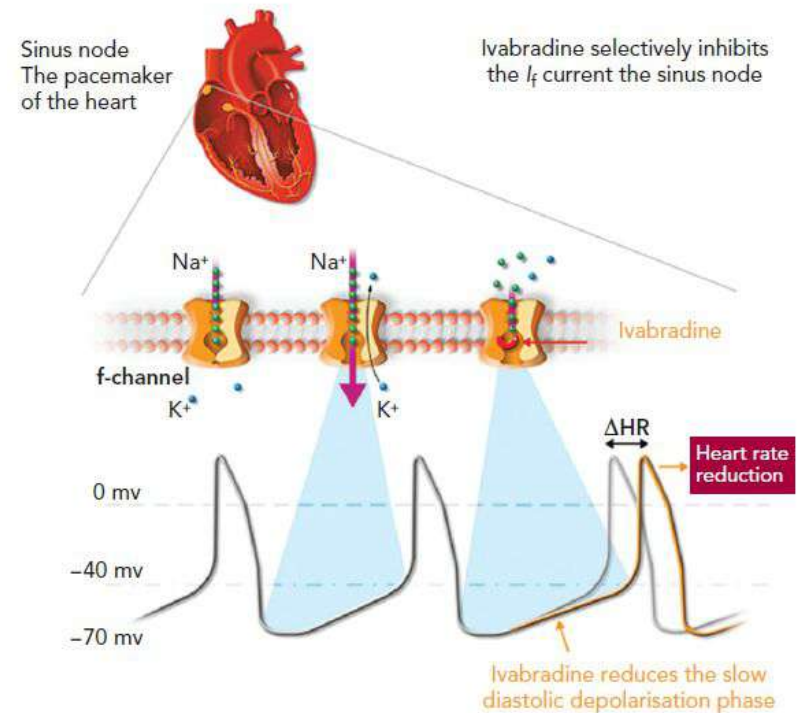


Figure 1: Mechanism of Action of Ivabradine



Source: <http://www.shift-study.com/ivabradine/mode-of-action/> Reproduced with the permission of Servier © 2016.

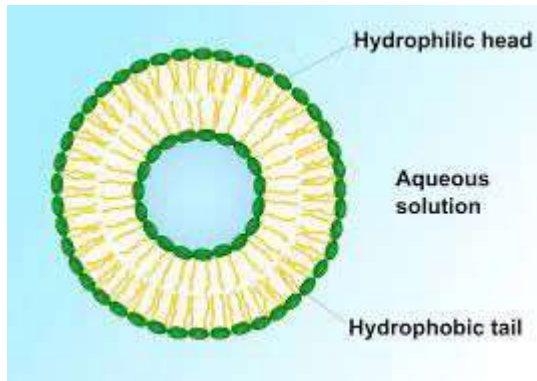
© MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH. ALL RIGHTS RESERVED.

<https://www.mayoclinic.org/diseases-conditions/coronary-artery-disease/diagnosis-treatment/drc-20350619>

<https://www.mayoclinic.org/diseases-conditions/coronary-artery-disease/multimedia/coronary-artery-stent/img-20006378>

<https://www.cfrjournal.com/articles/complementary-and-synergic-role-combined-beta-blockers-and-ivabradine-patients-chronic>

Nanoparticles will be used to perform targeted drug delivery.



Nanoliposome

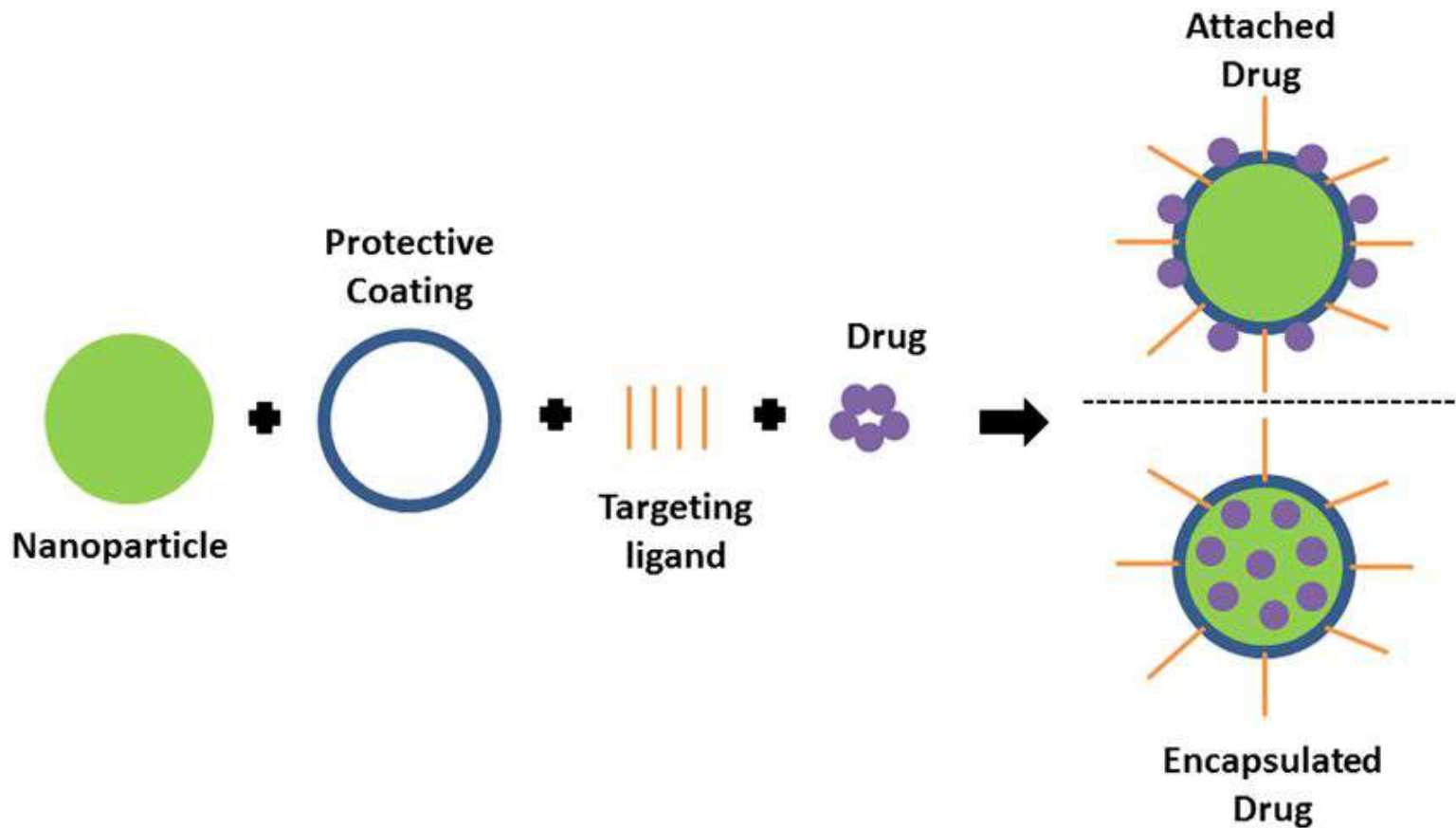


Rhodamine B



Rhodamine 6G

Therefore, the overall goal of my research project will be targeted drug delivery through the designing and imaging of fluorescent nanoliposomes to aid in cardiac diseases.



Thank you for your time and
attention!

K'Ashe McKinney

University of California, Los Angeles

kashemckinney1999@gmail.com

Brenna Mockler, Ph.D.



Probing Supermassive Black Holes with Tidal Disruption Events

*University of California-Santa Cruz
Astronomy & Astrophysics*

"Black holes are simpler than forests..." — M. Rees

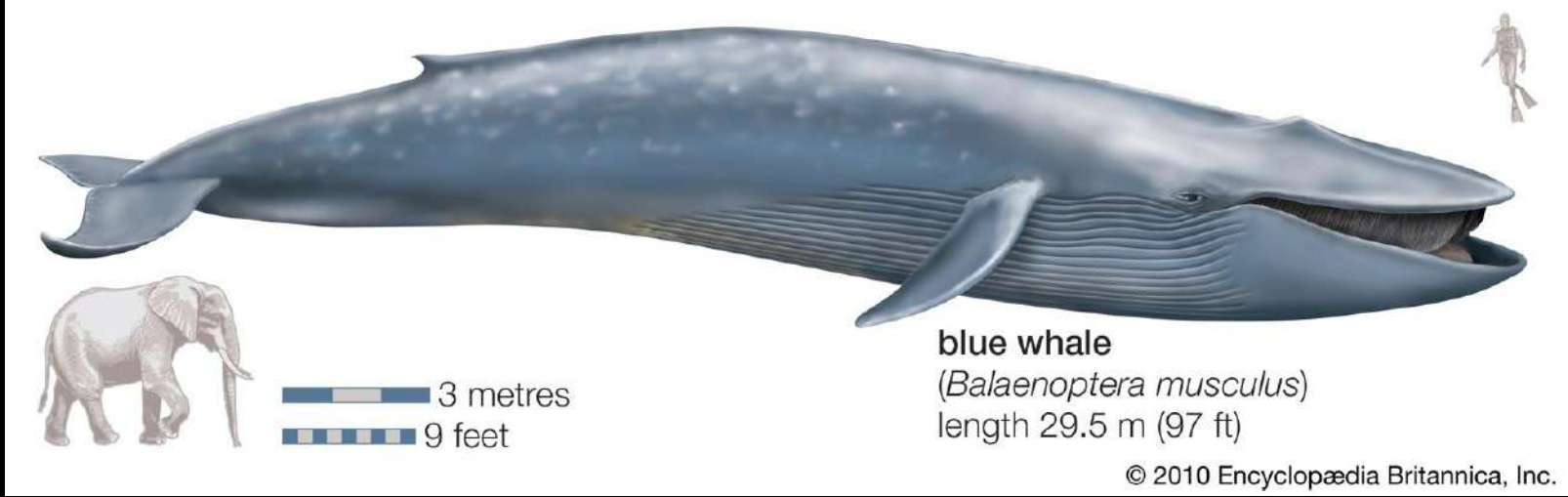
Black holes can be described with only a few variables

Black holes influence the **evolution of entire galaxies** and provide extreme examples of **general relativity**

Questions:

How do black holes at the centers of galaxies get to be so big?

How can we find more black holes?



Supermassive Black Holes

Largest Stars

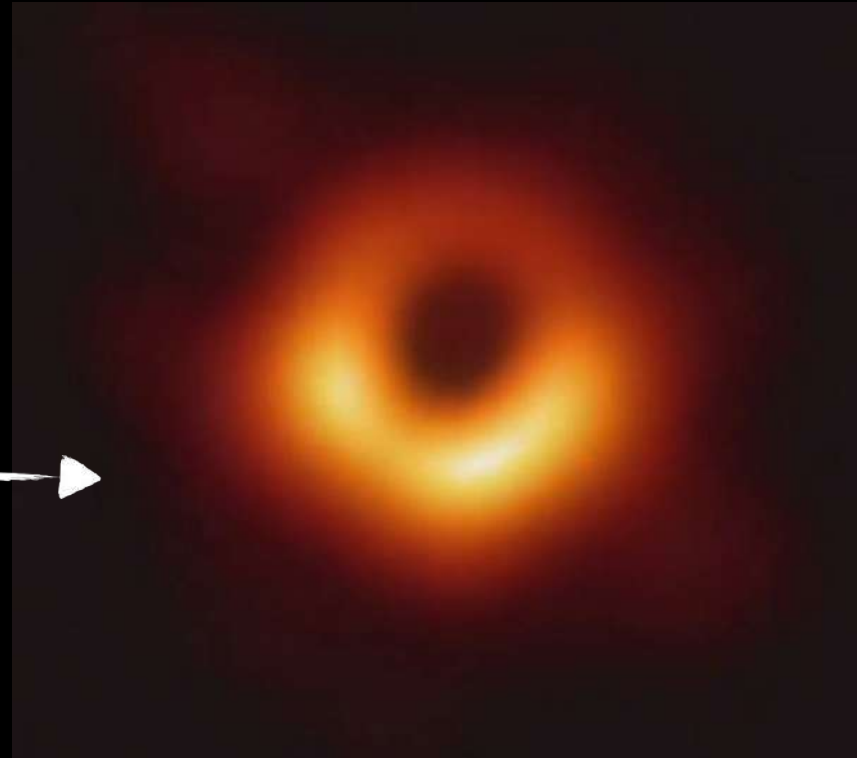


Watching black holes grow

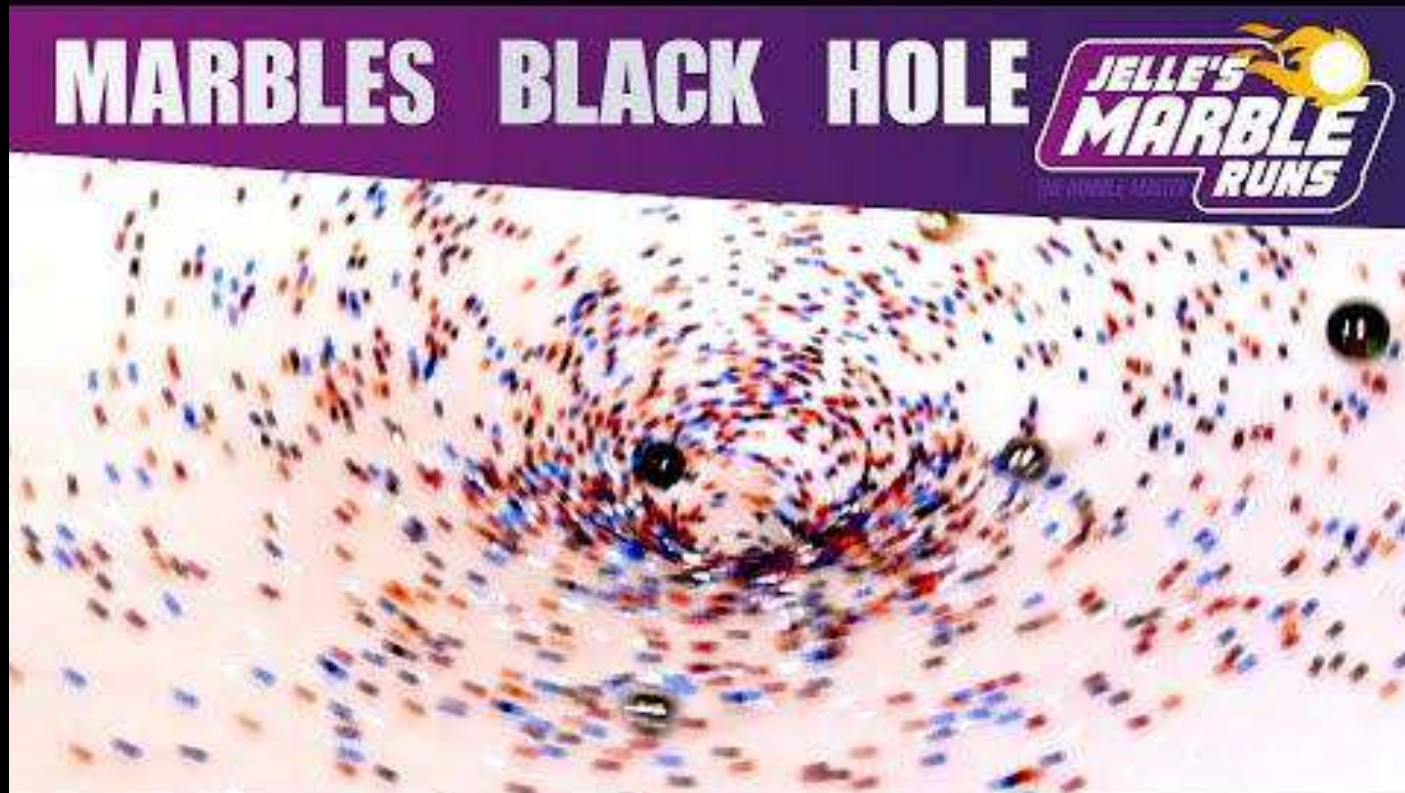
Black holes are messy eaters, so we can use telescopes to discover black holes when they are pulling in surrounding mass



'mass accretion'



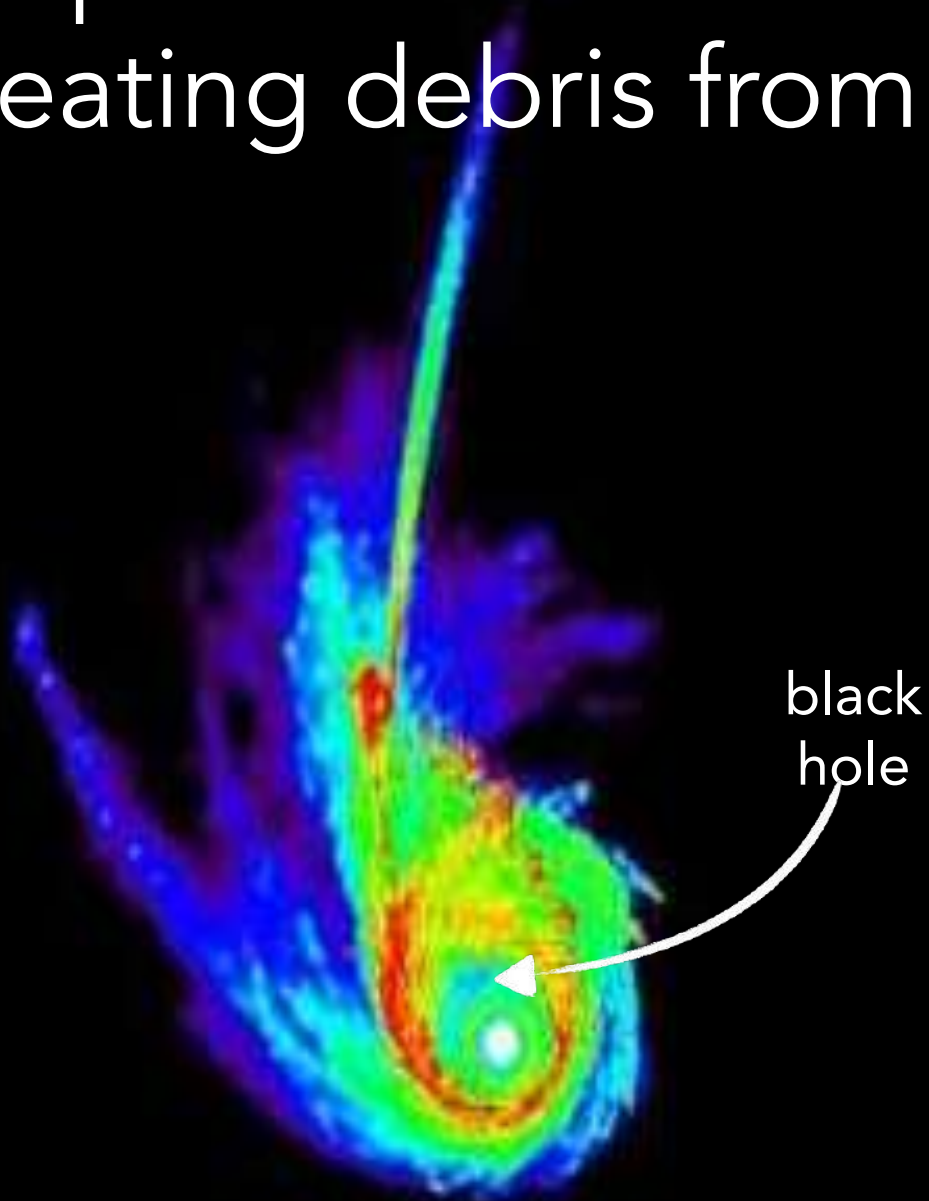
Accretion analogy: marbles in a wishing well



MARBLES BLACK HOLE



computer model of black hole eating debris from a star

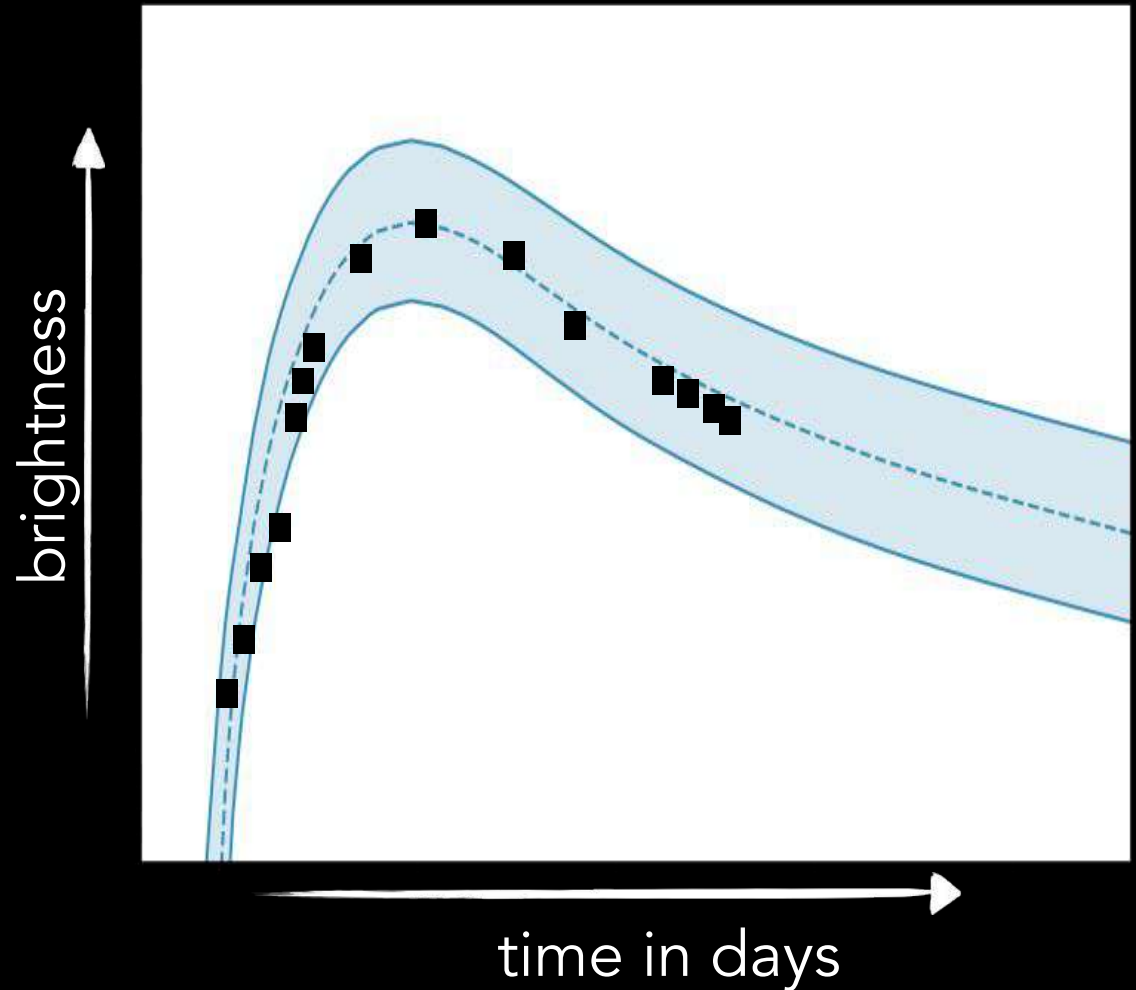


simulation by C.
Bonnerot

what we see from telescopes



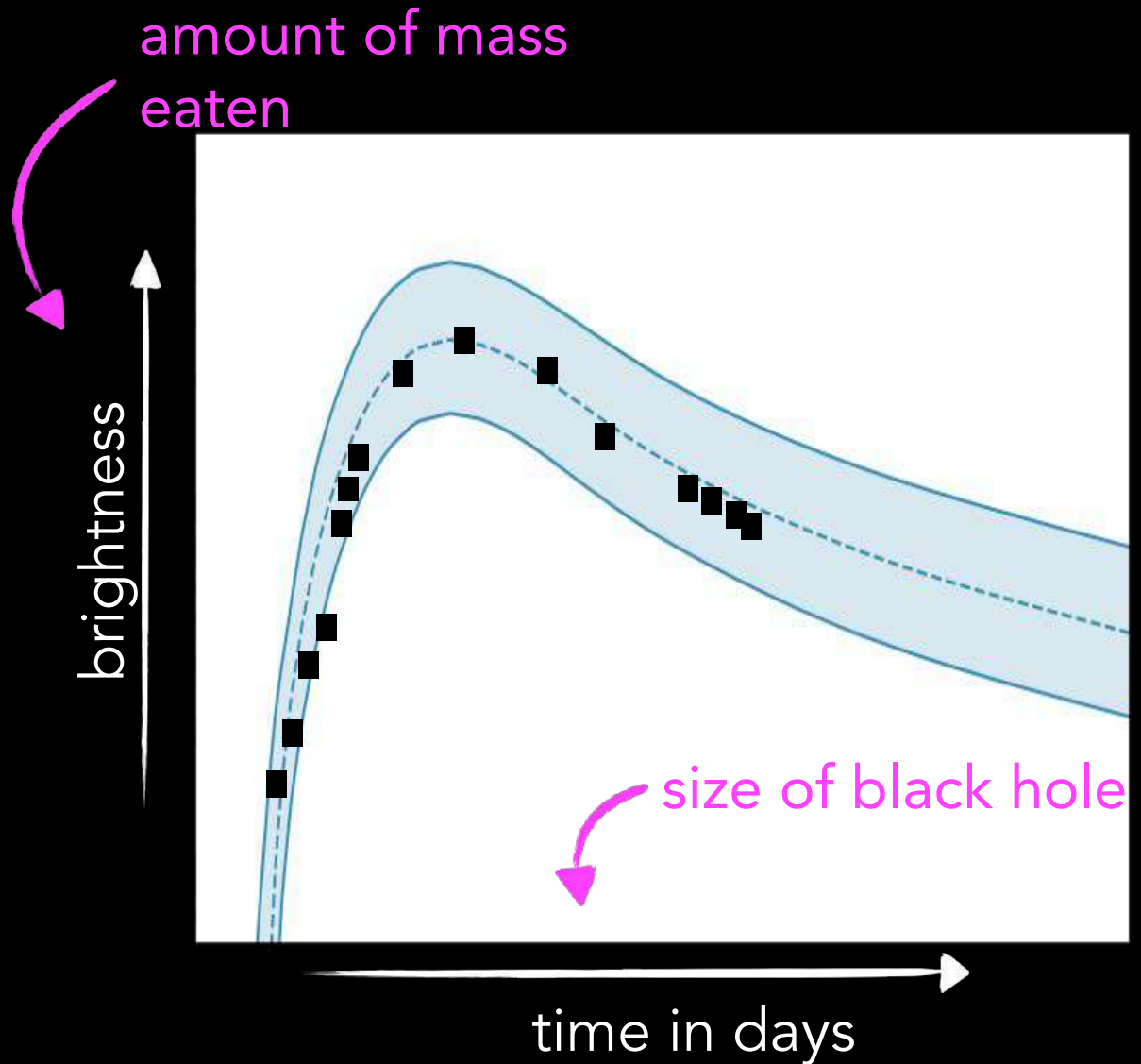
Pilar
Ávila



what we see from telescopes



Pilar
Ávila



Thank you!

Juily Phun, Ph.D.



Contours of Care

**The Influenza Pandemic, Public
Health and Asian American
Communities in Southern California,
1918–1941**

*California State University-Los Angeles
Asian/Asian American Studies*



Starting Points & Questions

- My personal story
- Historical Questions
 - How did communities of color care for themselves during the Influenza Pandemic (local)
 - How did Asian Americans participate in medicine (national, global)

Contour of Care

Silences in the Archives



Letter to California Board of Medical Examiners, 1915

Los Angeles Cal.
Oct. 11/1915
Board of Medical Examiners
Sacramento California
Dear Sirs
I am returning the application blank I recently made out as near correct as I can remember the date and wish to say that Dr. Johnson, my mother, died two years ago, and Dr. R. L. Bradford M. D. were my instructors but as this line of work runs as carefully back from our hands made it is hard down to each one of us that Mother's death I worked for her between

Sister Barbara and, Los Angeles. I have treated many of the best people of the country let the beaches many of our patients go to spend the summer and I would go where ever and wherever I was called now I am working for myself and my three sisters in Los Angeles I have lived

Letter to California Board of M

Explanation, concerning the dates on my application blank of the front page. Trusting it satisfactory I remain Respectfully
Roberta C. Butler
M.D. & P.D. L.

Community and Commercial Care



Dr. Sakaye Shigekawa

PULSE DIAGNOSIS

HOW TO GET WELL AND KEEP SO

FOO & WING HERB CO.
— 903 S. OLIVE ST., LOS ANGELES —

Tells you in its sixth edition of its 300-page book "HOW TO KEEP WELL" which they give you for the asking. You should have it as your guide in health.

Free Pulse Diagnosis. Free Consultation. No Questions Asked.

Established 12 Years in California. Office Always Open.

DR. T. FOO YUEN, President
Former Official Physician to the Chinese Emperor

DR. T. LEONG, Vice-President
Author of Dr. T. Foo Yuen

WHAT BRINGS THE DRAGON?
HERBS, WHICH GOD SENT TO HEAL MANKIND

PROMOTING DRAGON.

COPYRIGHT 1915, BY FRANK CUNNINGHAM

EMBLEM'S—Creation, Preservation, Dissolution, Health, Happiness and Longevity

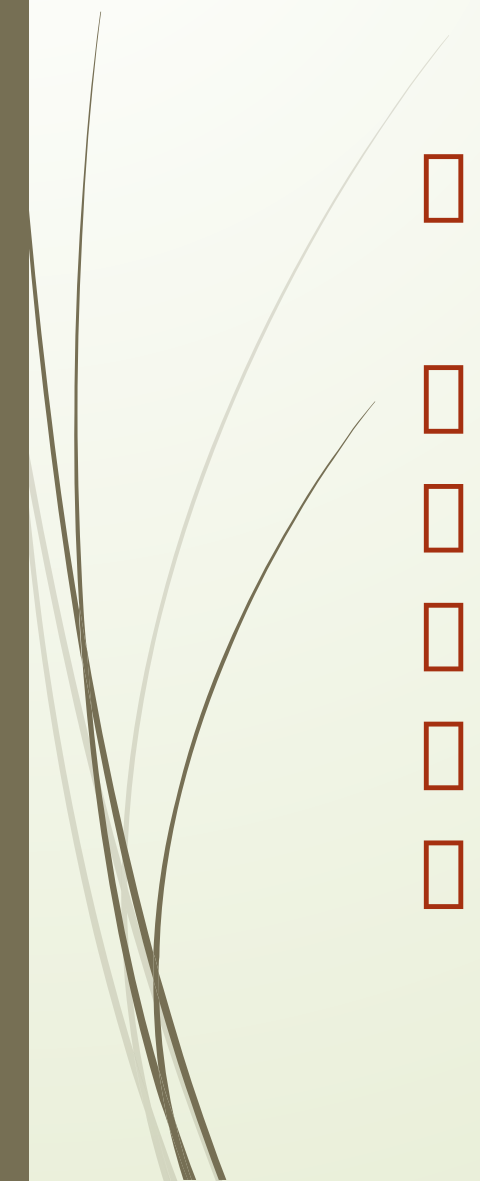


Medicine as a Bridge

- 
- ❑ Ethnic Studies
 - ❑ Gender Studies
 - ❑ Theory
 - ❑ History
 - ❑ Public Health and Medicine
 - ❑ Radical Care



Inspiration, Aspiration, and Care

- Mentorship of Young Women of Color
 - Community Care
 - Activism
 - Health writ broader
 - Merging Personal/Academic
 - AAUW and publication
- 

Veronarindra Ramanananjato, Ph.D.



**Cascading impacts of the collapse of
mutualistic interactions in tropical
forests**

*University of California-Berkeley
Integrative Biology*

A photograph of a sloth hanging from a tree branch, surrounded by lush green foliage and small red fruits. The sloth is positioned in the center, with its body and limbs visible as it grips the branch. The background is filled with vibrant green leaves and clusters of small, round, red fruits, likely from a tropical tree. The lighting is bright, suggesting a sunny day in a tropical forest.

Animal-mediated seed dispersal at risk:

- 90% of plants rely on animals in the tropics
- at least 60% of frugivores are facing population decline

Madagascar: Highly diverse and unique fauna and flora



Madagascar: Island of Lemurs

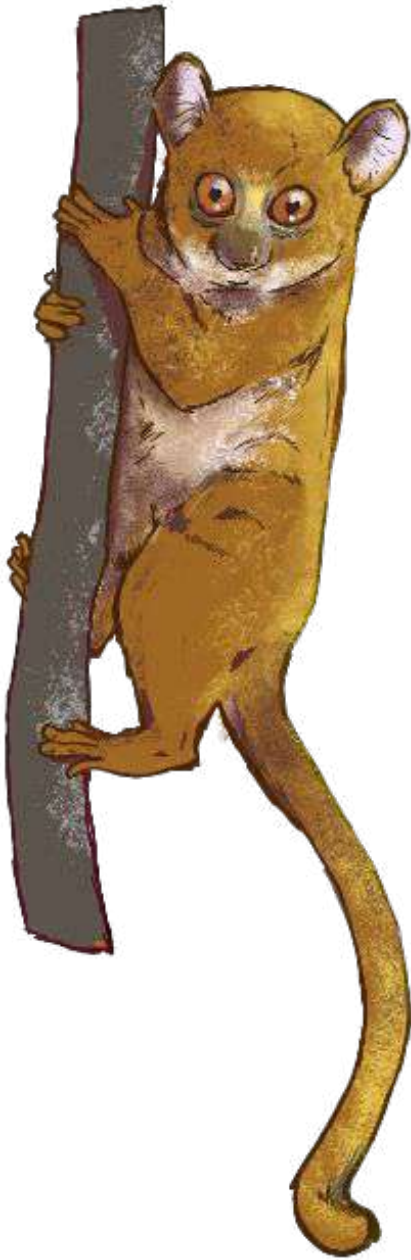




The world's smallest
primate: Mouse lemurs

Ph.D. Objectives and Questions

- Does the population decline of mouse lemurs change the effectiveness of the seed dispersal services? If so, how?
 - Does habitat quality in fragmented forest landscape alter the effectiveness of seed dispersal services provided by the mouse lemurs? If so, how?
- Conservation purpose: Preservation of Dispersers and Forest restoration



Ph.D. Preliminary data

- Seed dispersal differences between male and female mouse lemurs
- Seed dispersal differences between forest edges and forest interiors

Maria Salgado, M.Ed.



Enrollment Management & Policy

*University of Southern California
Education*

Enrollment Management: An Approach for Equitable College Access & Success Practices

ENROLLMENT PYRAMID

RESEARCH AGENDA

Research Agenda
Student Outcomes
Alumni Research

Retention Analysis
Student Experience

Financial Aid Analysis
Yield Analysis

Admission Analysis

Recruitment Evaluations
Prospect Analysis

Competition Analysis
Market Research

ENROLLMENT STRATEGIES

Alumni Strategy

Retention Strategy

Aid Strategy
Yield Strategy

Admission Strategy

Recruitment Strategy

Marketing Strategy

Graduates

Enrolled

Admits

Applicants

Prospects

Markets



The Case for Better Equity & Accountability in Higher Education

- Higher educational attainment increases earning potential which increases tax revenue
- The decline in traditional college bound population by more than 15% beginning in 2026. (Grawe, 2018)
 - Overwhelming growth in college bound populations will be from groups that have not traditionally enrolled in four-year institutions.
- Realize the promise of upward mobility for marginalized groups

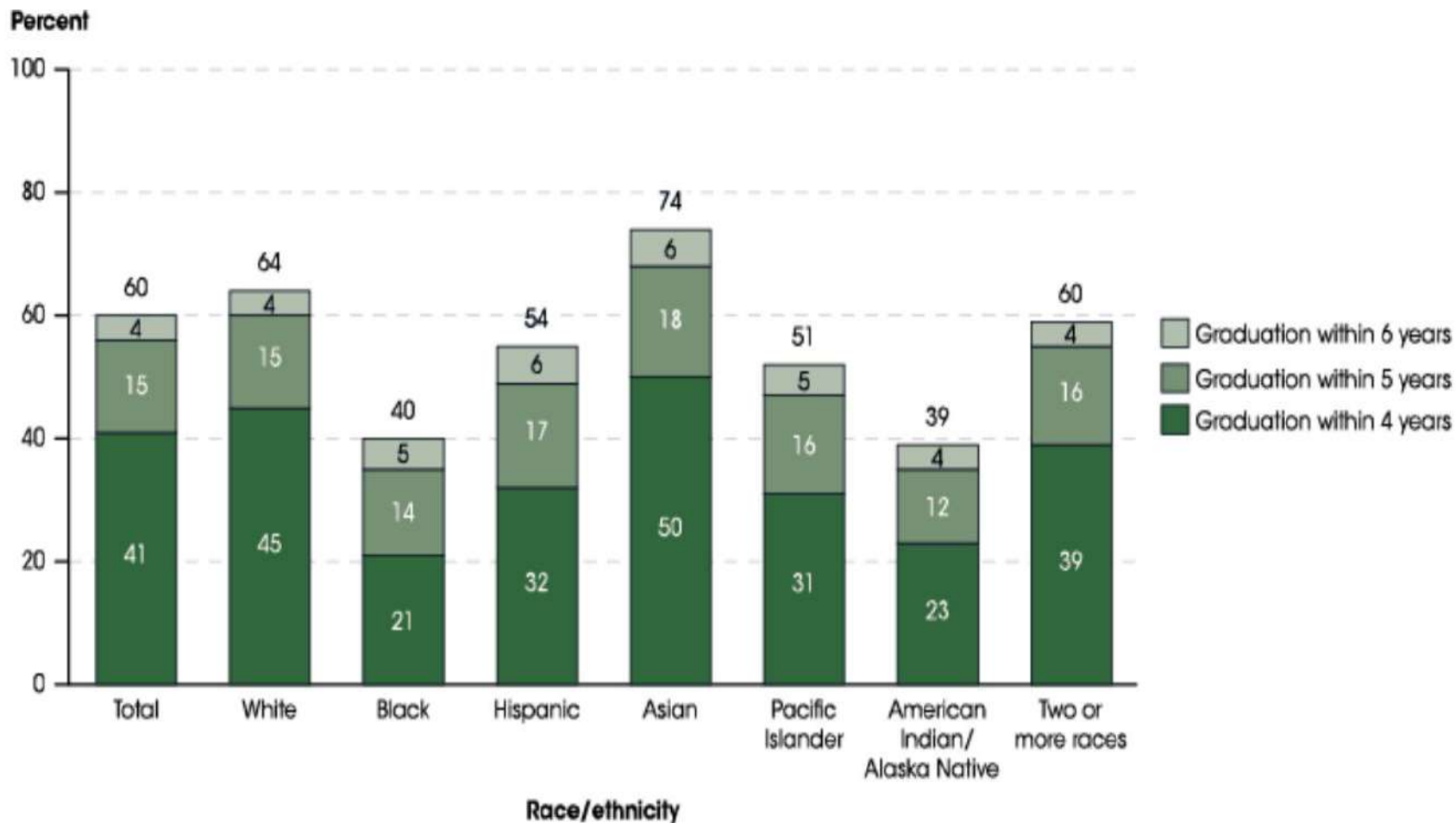


The Challenges

Disparate Impact in College Admission & Enrollment

- Pell grant covers less than 30% of tuition and fees (NCAN)
- Standardized testing
- Legacy admissions
- Early Admissions
- Merit scholarships and Athletic scholarships for elite sports
- Overemphasis on prestige over college rankings

Figure 23.1. Graduation rates from first institution attended for first-time, full-time bachelor's degree-seeking students at 4-year postsecondary institutions, by race/ethnicity and time to completion: Cohort entry year 2010



Diversity Mission & Vision

What is Diversity

varied experiences, values, and worldviews that arise from differences of culture and circumstance, such as race, gender, religion, language, abilities/disabilities, sexual orientation, gender identity, socioeconomic status

Whys is it important

enriches the scholarly environment where students and faculty can develop the cultural intelligence to participate in a multicultural global society

How will we know we succeeded

each member is empowered to bring their unique differences and talents and is welcomed with **acceptance, belonging** and the **support needed to achieve their full academic, personal, and professional potential**

Admission Framework

Performance + Eligibility + Environmental

***Must meet these minimum requirements to be considered for admission

- 3.0 minimum cumulative GPA in core courses in 10th-11th grade.
- Completion of subject requirement courses with a C or better.

Equitable and Objective College Admission Factors

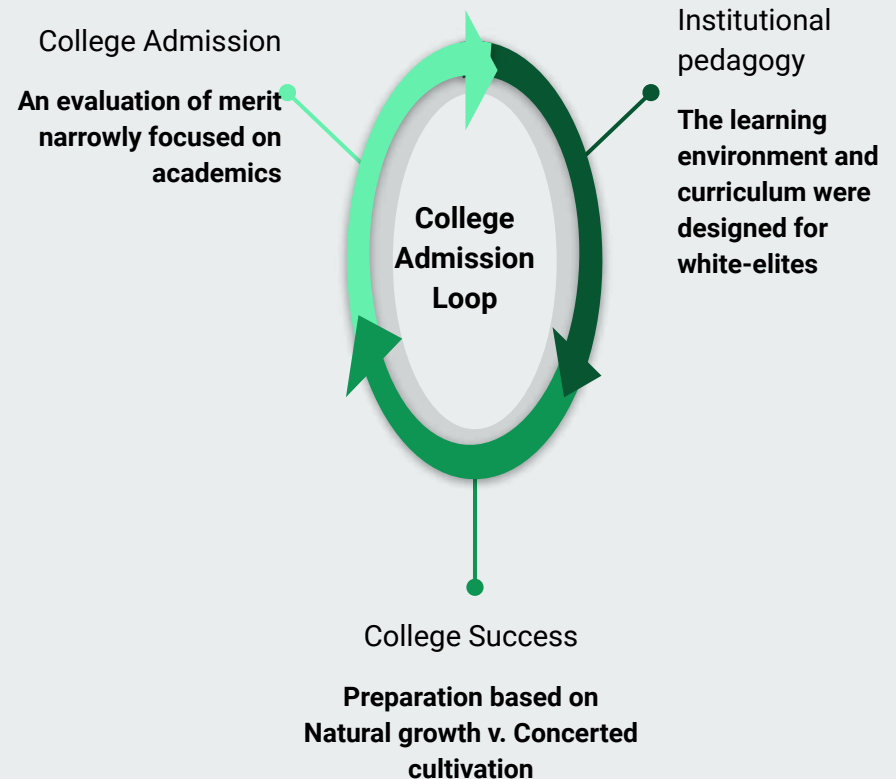
Admission Philosophy	Weight	Factors	Evaluation Criteria
Capacity to perform	20%	Academic Performance	Grades in 15 core curriculum courses. Rigor of courses completed, number courses beyond the minimum required. Recent, marked improvement in academic performance as demonstrated by academic GPA and the quality of coursework completed or in progress.
	20%	Character	Completion of special projects undertaken in the context of your high school curriculum or in conjunction with special school events, projects or programs. College Personal Potential Index (CPPI). Participation in student activity and sport.
Potential to Benefit	35%	Upward social mobility	Academic accomplishments in light of life experiences and special circumstances, including but not limited to: disabilities, low family income, first generation to attend college, need to work, disadvantaged social or educational environment, difficult personal and family situations or circumstances, refugee status or veteran status.
Potential to Contribute	25%	Leadership & Accomplishments Special skills	Special talents, achievements and awards in a particular field, such as visual and performing arts, communication or athletic endeavors; special skills, such as demonstrated written and oral proficiency in other languages; special interests, such as intensive study and exploration of other cultures; experiences that demonstrate unusual promise for leadership, such as significant community service or significant participation in student government; or other significant experiences or achievements that demonstrate the student's promise for contributing to the intellectual vitality of a campus.


Table 1. Adapted from Perfetto's Taxonomy of Admission Decision Making (1999) and UC Santa Barbara's Application Review Process retrieved from

<https://admission.universityofcalifornia.edu/how-to-apply/applying-as-a-freshman/how-applications-are-reviewed.html>

Evaluation & Selection

- 2 review to method: Familiarity with applicant context of opportunity.
- Admission framework validation indicators
 - Test scores as diagnostic for class placement not admissions.
 - First year grades and course takings.
- Challenge the oppression loop in college admission status-quo.





Targeted Programming

- Cohort based courses
- Optimize the impact of financial aid dollars
- Space for identity development and self-affirmation
- Critical mass representation in student body and faculty of underrepresented communities
- Student retention taskforce

Equality



The assumption is that **everyone benefits from the same supports**. This is equal treatment.

Equity



Everyone gets the supports they need (this is the concept of "affirmative action"), thus producing equity.

Justice



All 3 can see the game without supports or accommodations because **the cause(s) of the inequity was addressed**. The systemic barrier has been removed.



Thank you for listening

Maria Salgado
University of Southern California
marias25@usc.edu

Maritza Sanchez, Ph.D.



**Development of Cubic Morphologies
of Perovskite Materials for Enhanced
Creep Resistance**

*University of California-San Diego
Materials Science and Engineering*



DEVELOPMENT OF CUBIC MORPHOLOGIES OF PEROVSKITE MATERIALS FOR ENHANCED CREEP RESISTANCE

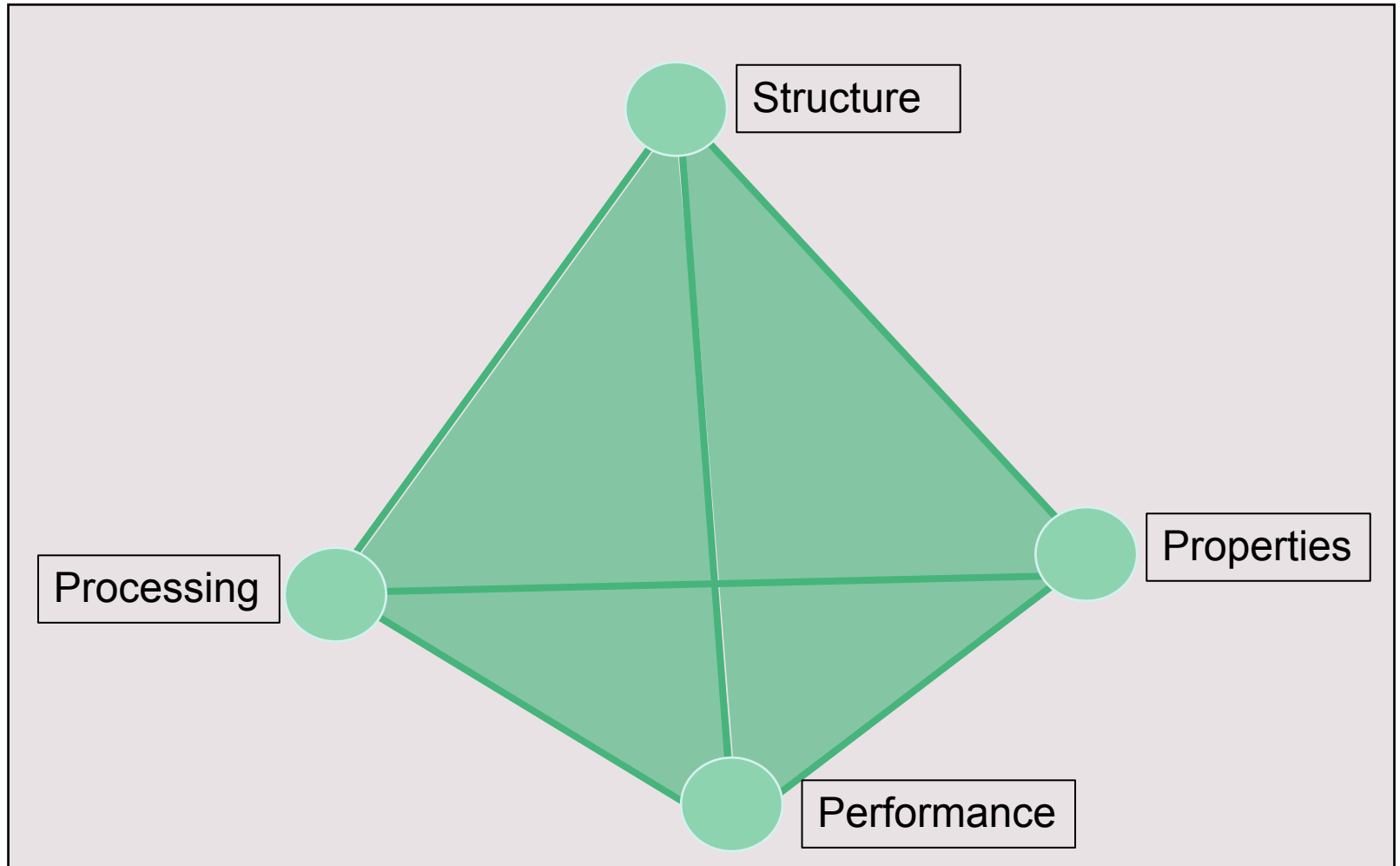


Maritza Sanchez

PhD Candidate

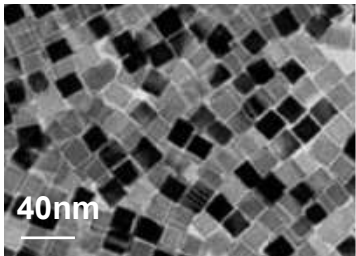
University of California, San Diego

The Materials Paradigm: Developing New Materials

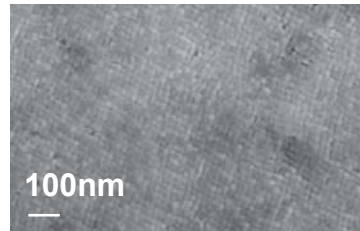


Project Goal and Objective

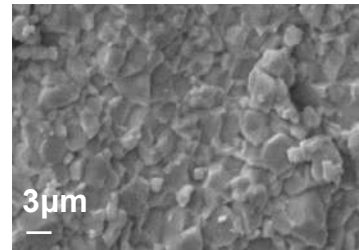
Synthesis of
cubic particle
morphologies



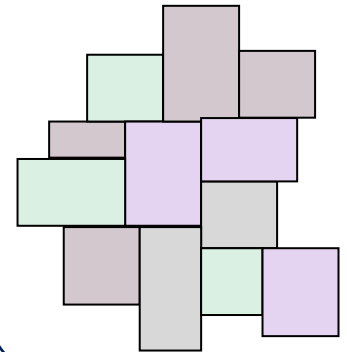
Assembly of
ordered
arrangement
of nanocubes



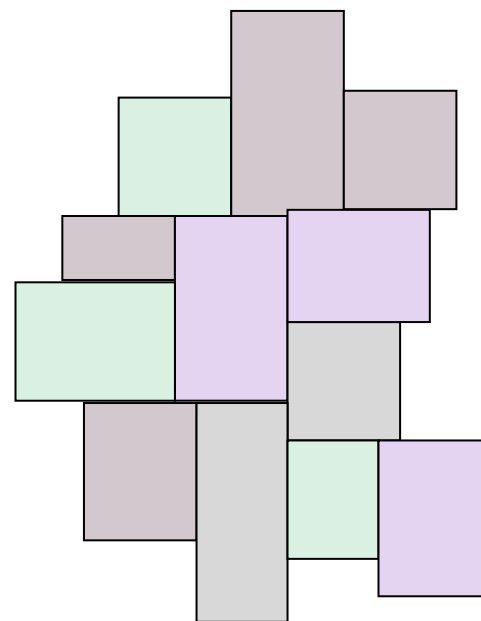
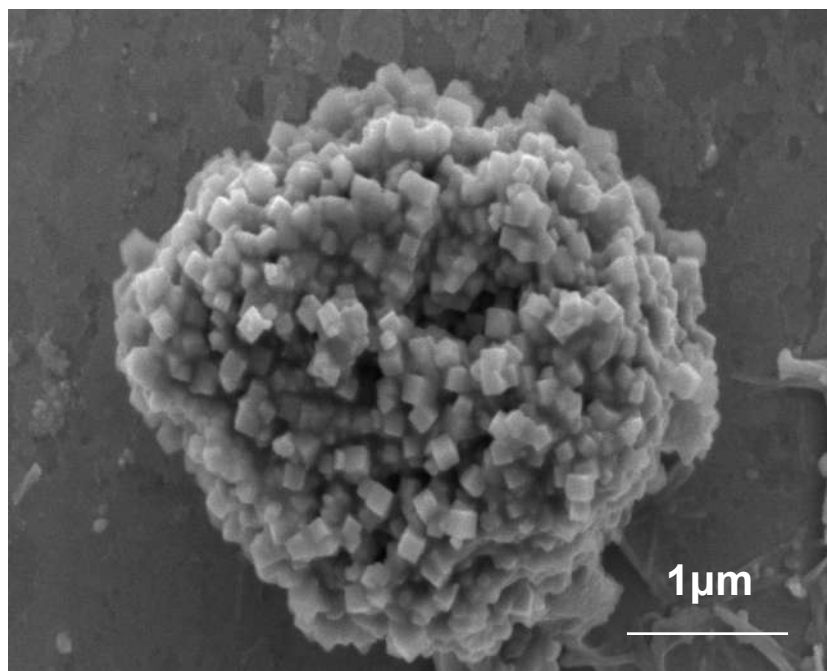
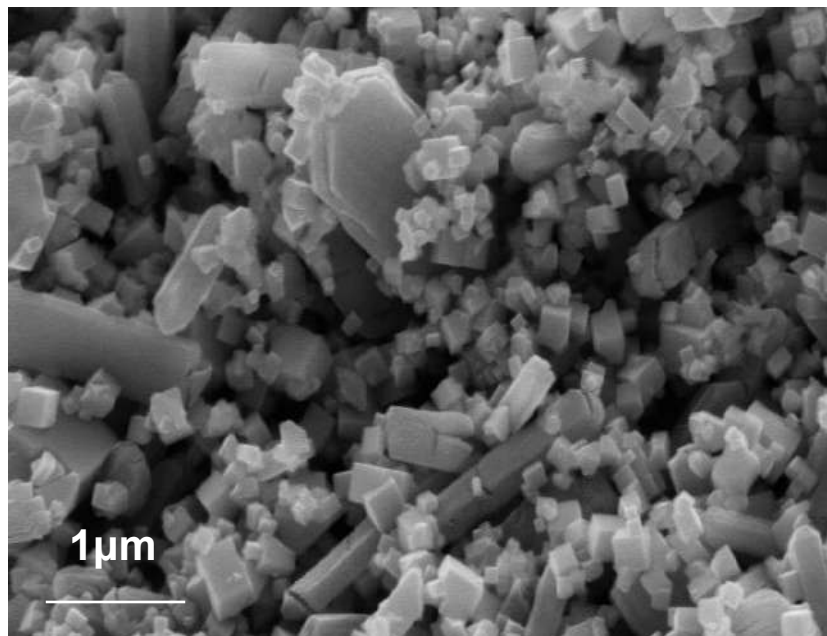
Spark
Plasma
Sintering
(SPS)



Analysis of
effects on
creep
resistance



Barium and Strontium Titanate Cubic Particles



Ordered arrangements of cubic perovskite/spinel particles sintered by SPS will enhance the creep resistance by hindering grain boundary sliding through interlocking of grains produced by highly faceted particles.

Materials for High-Temperature Applications



1. High strength
2. High toughness
3. Oxidation Resistance
4. Creep Resistance



A Little Bit About Myself



THANK YOU FOR LISTENING!



Maritza Sanchez
UC San Diego
mas003@ucsd.edu

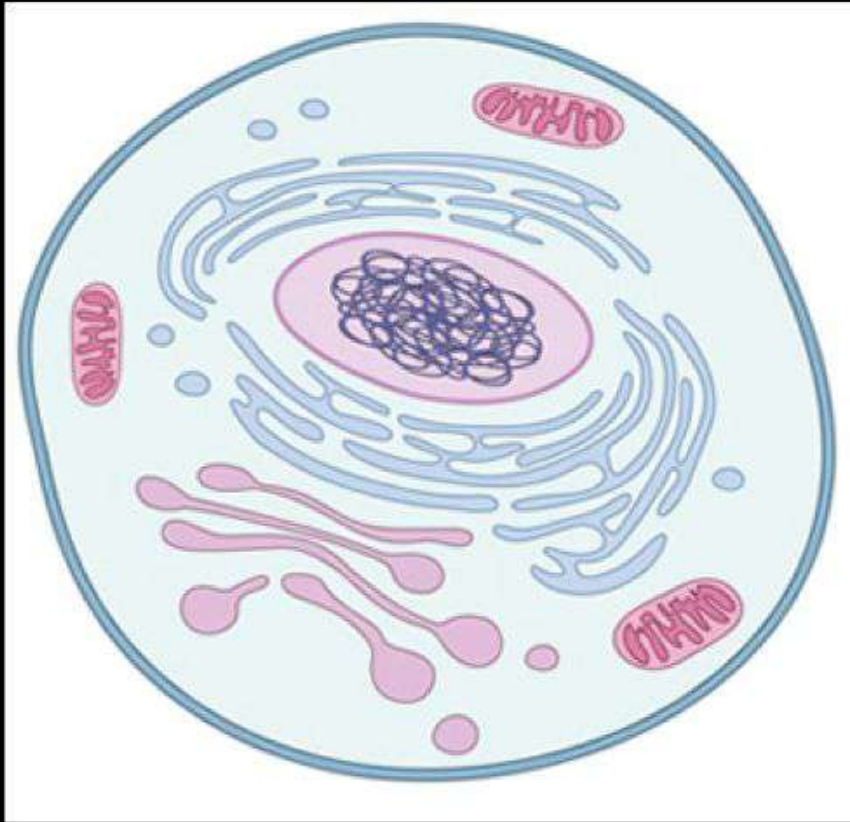
Kelly Subramanian, Ph.D.



Spatial Organization of Metabolic Complexes and Instructor Talk in Laboratory Courses

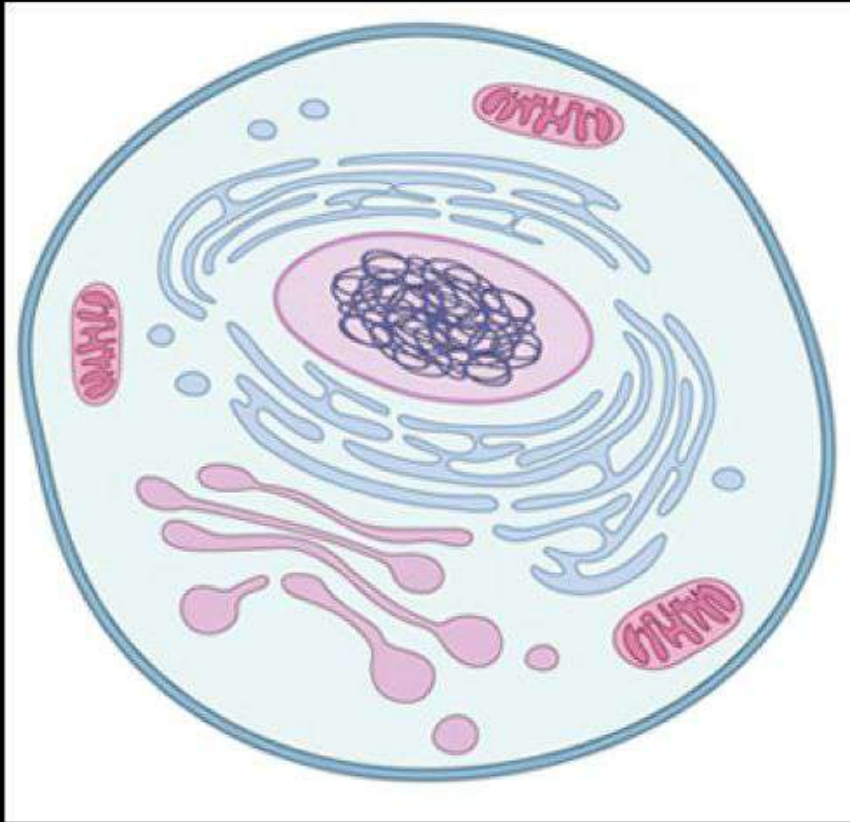
*University of California-Davis
Cell Biology and Biology Education*

Where are mitochondria?

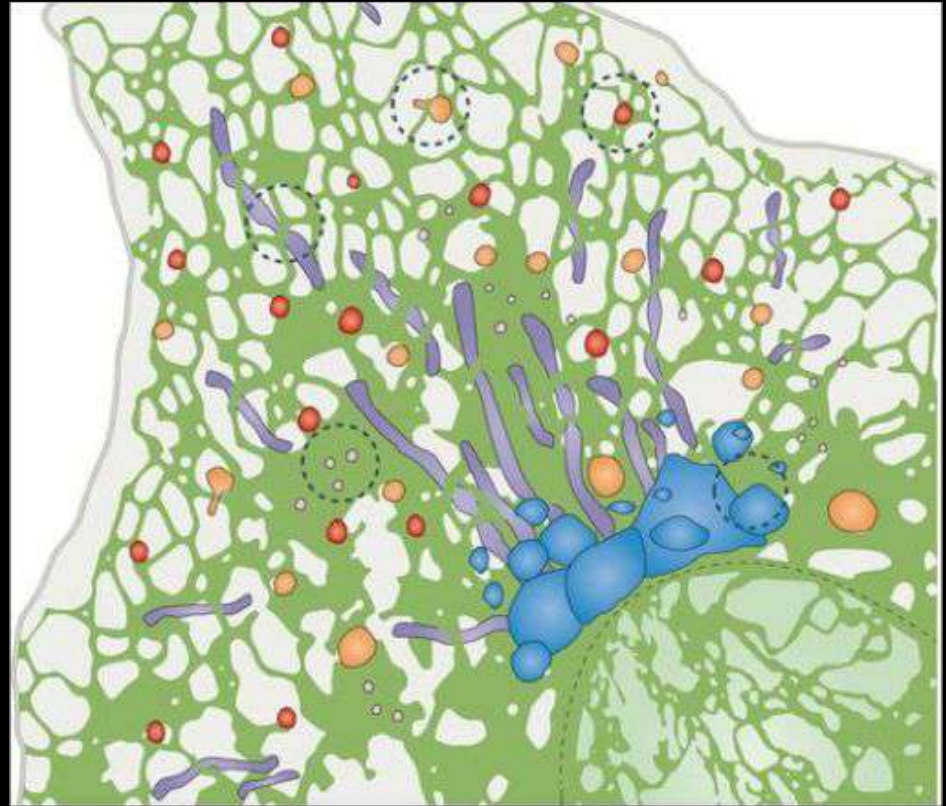


Nature Ed. 2010

Where are mitochondria?

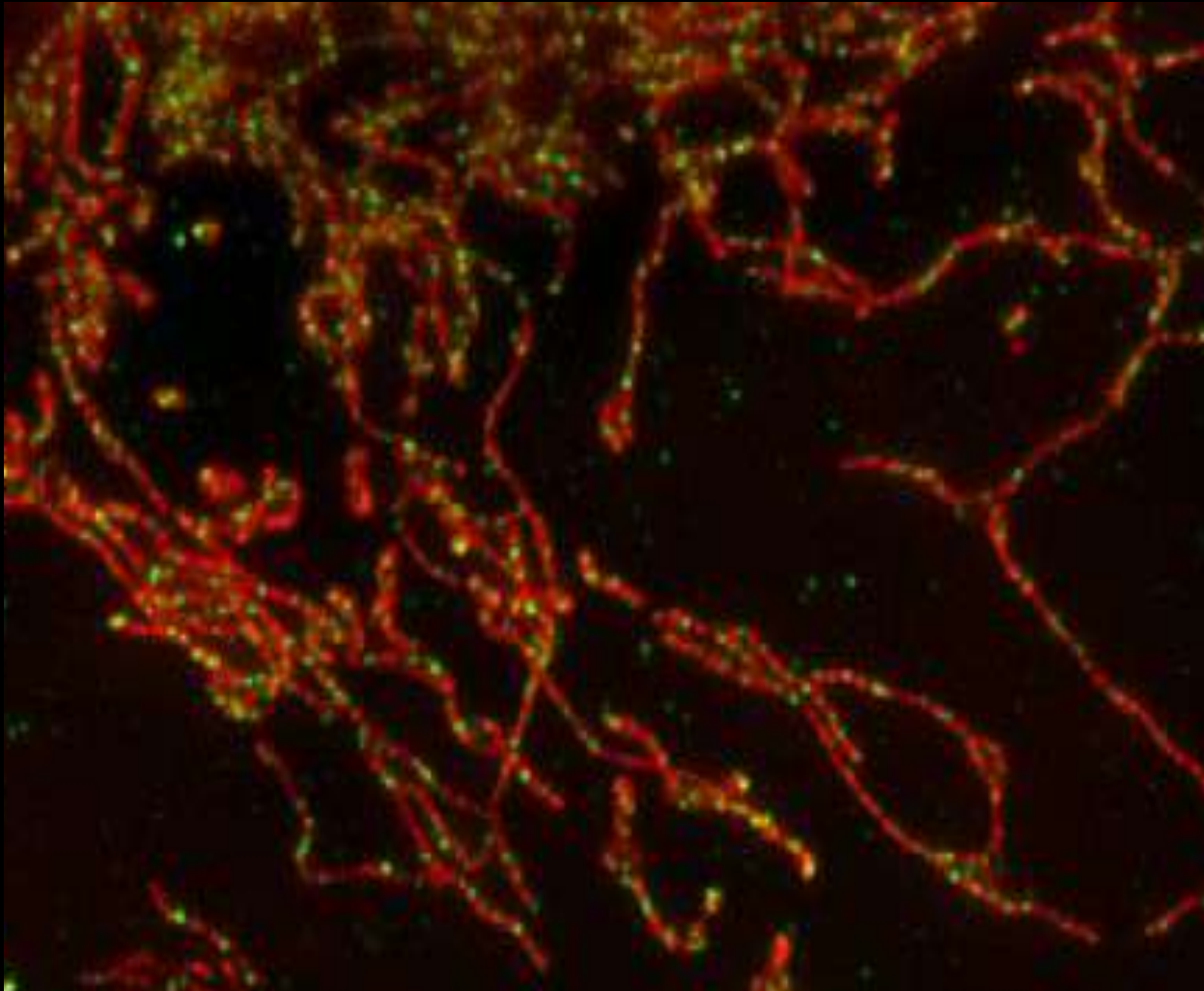


Nature Ed. 2010



Phillips & Voeltz, 2016

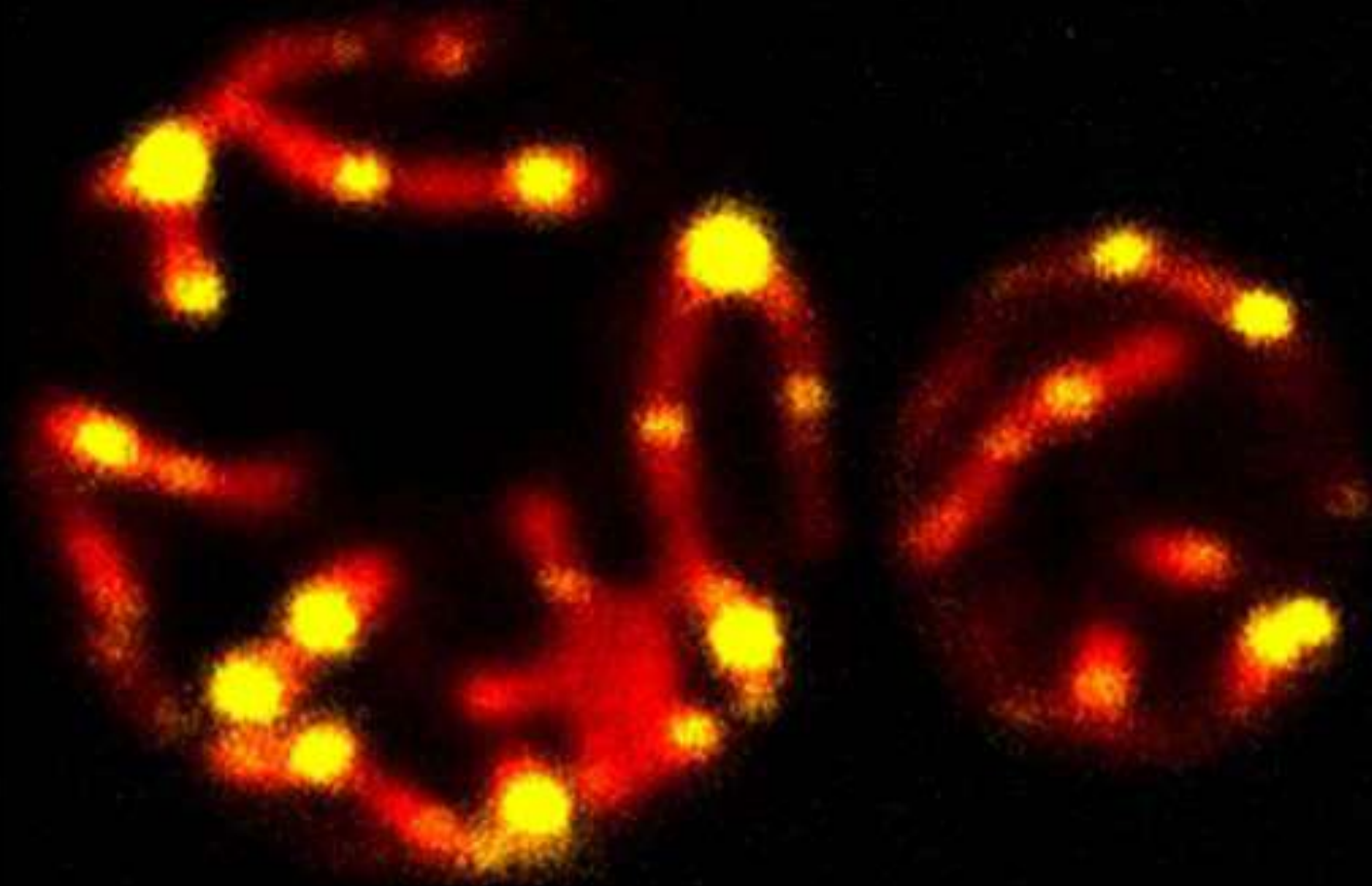
Specialized domains in mitochondria



Mitochondria

CoQ domains

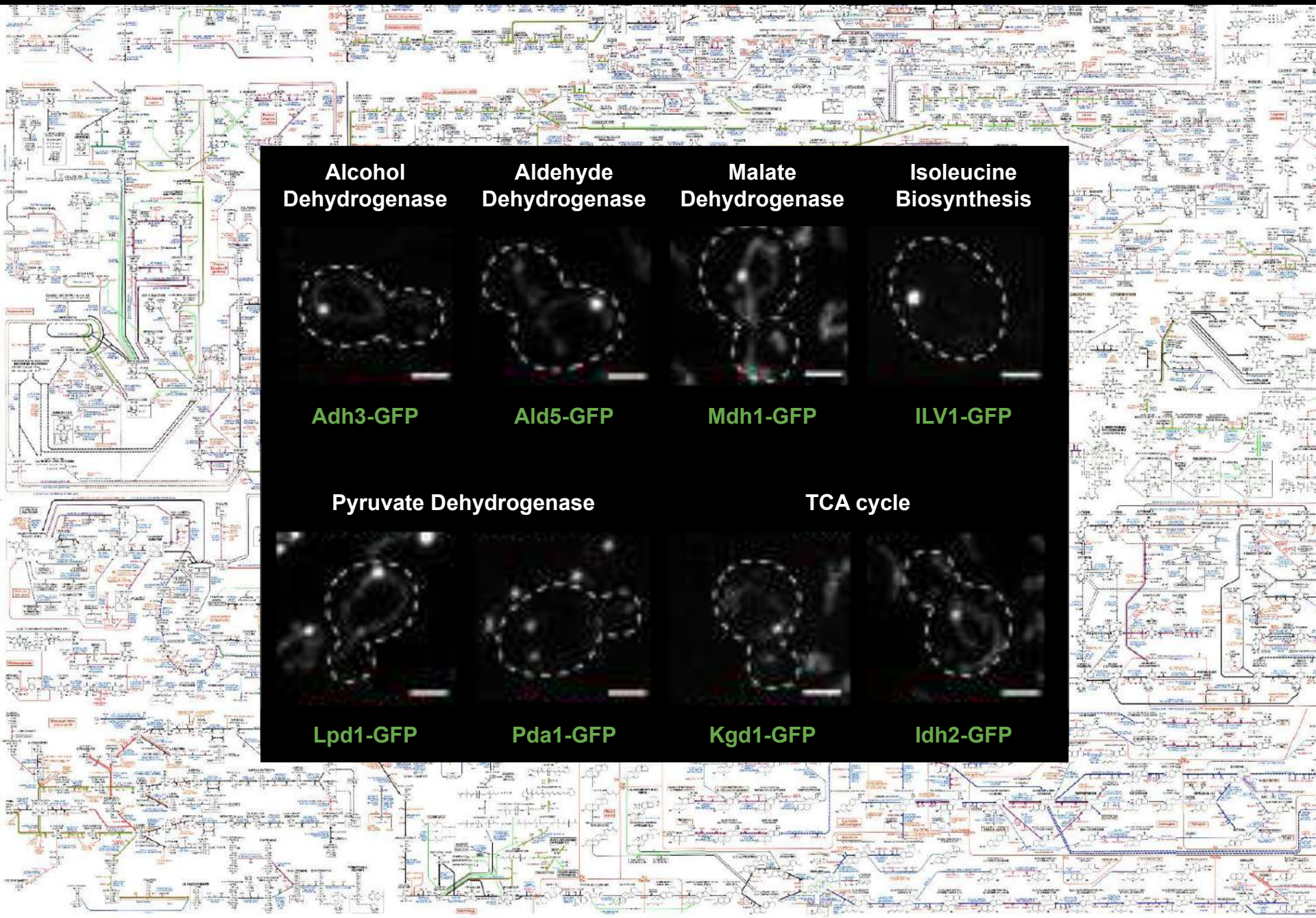
Specialized domains in mitochondria



Mitochondria

Nucleoids

How are metabolic complexes organized in cells?



Course-based Undergraduate Research Experiences

- Increase students' retention and graduation in STEM compared to “traditional” lab instruction (Rodenbusch et al., 2016; Hanauer et al., 2017)
- Features include: discovery, iteration, ownership (Hanauer et al., 2017; Corwin et al., 2018)



Do the ways instructors talk with students impact student outcomes in life science lab courses?

- Characterize instructor talk in life science lab courses (CURE, inquiry, traditional)
- Relate instructor talk to students' scientific integration and to indicators of their motivation to continue in science



Legacy Circle

Judy Horan

Mooneen Lecce Giving Circle

Sharon Schuster

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