

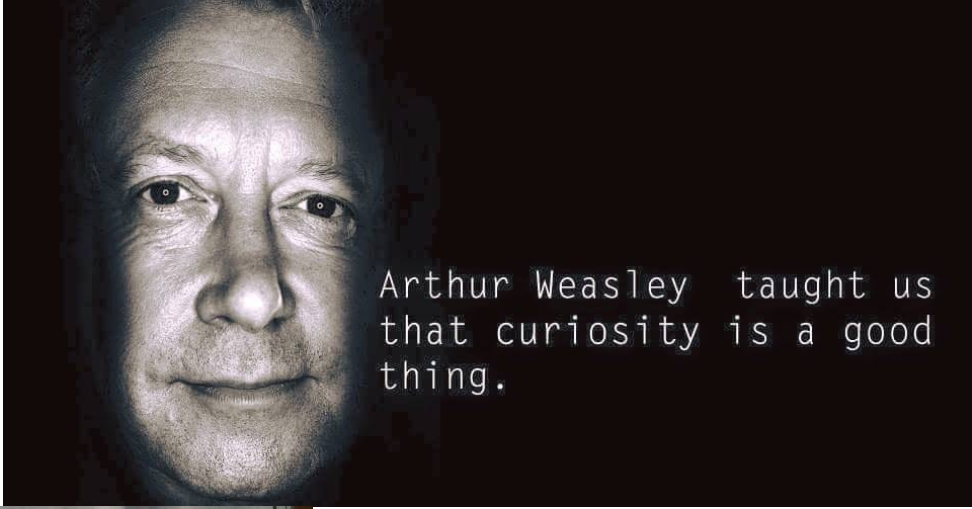


Cellas A. Hayes, Ph.D

University of Mississippi ~ Stanford University
From First Gen to First Doctor

Student Shoutout

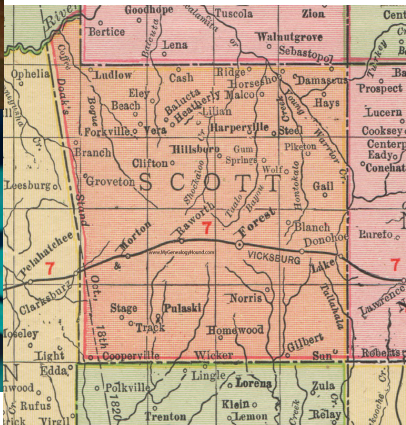
Cellas Hayes
Ph.D. Candidate
National Research Service
Award Recipient
From the National Institute of
Neurological Disorders and Stroke
for his work on:
"Cellular Mechanisms of
IGF-1 Neuroprotection
with Ischemic Stroke"



Arthur Weasley taught us that curiosity is a good thing.

Where does your curiosity stem from?

Bernard Denson Road produces new arrest



A Series of Unfortunate and/or Fortunate Events

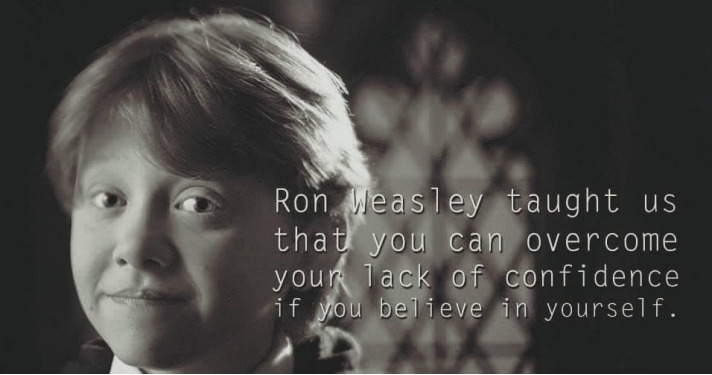


Why do you do what you do?

Be Controllably Obsessed

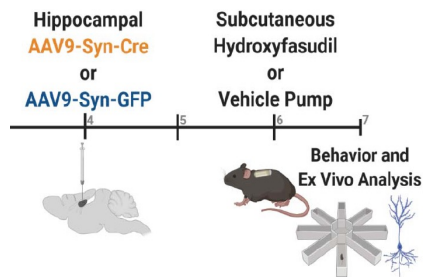
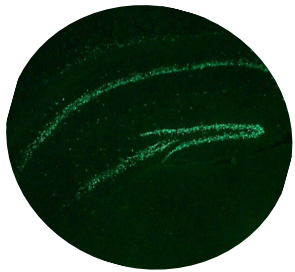


- Pre-Pandemic Work Hours
- Pandemic Work Hours
- Post-Pandemic Work Hours

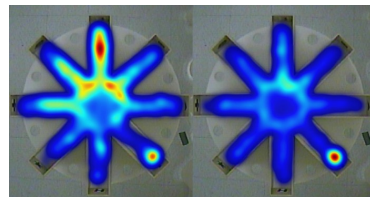
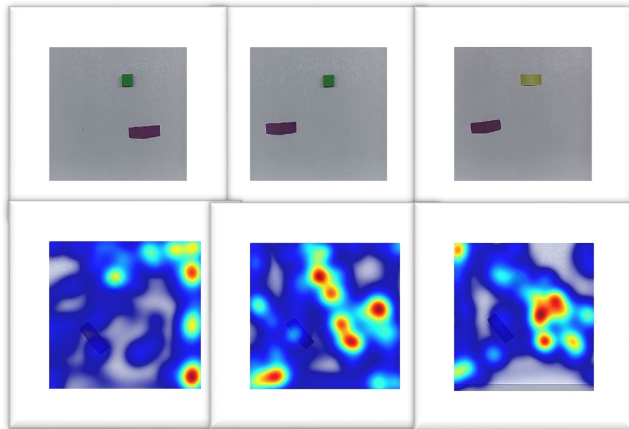


Undergraduate Research ~ University of Mississippi Ashpole Lab (2016-2019)

Design



Method



Images

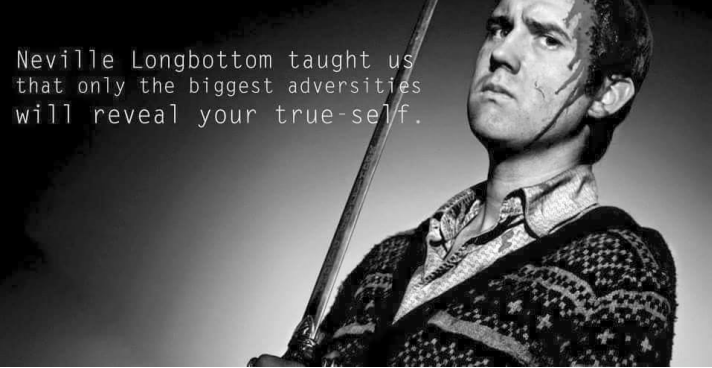


Key Findings

- Male Cognitive Impairments in RAWM
- IGFR inhibition reduces neurite outgrowth
- IGFR inhibition alters Rho-Kinase Pathway

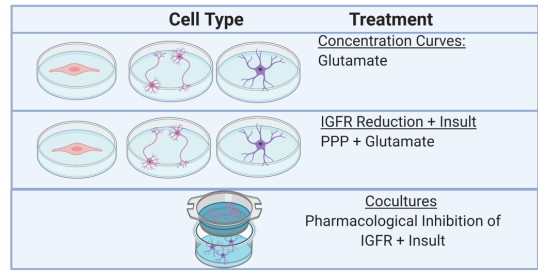
The Start of Belief



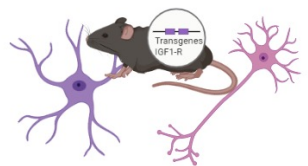
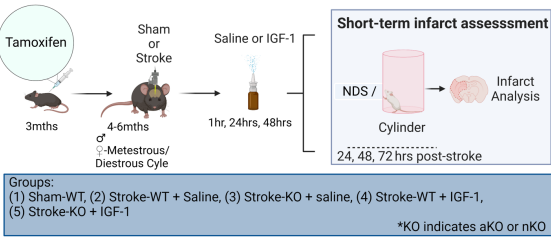


Graduate Research ~ University of Mississippi Ashpole Lab (2019-2022)

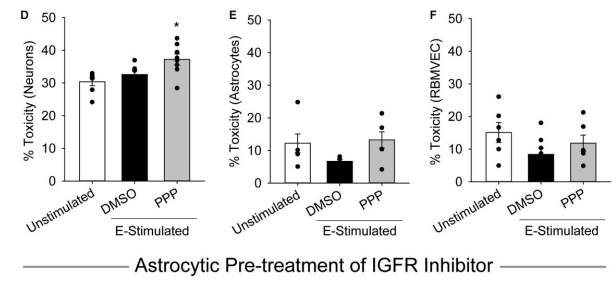
Design



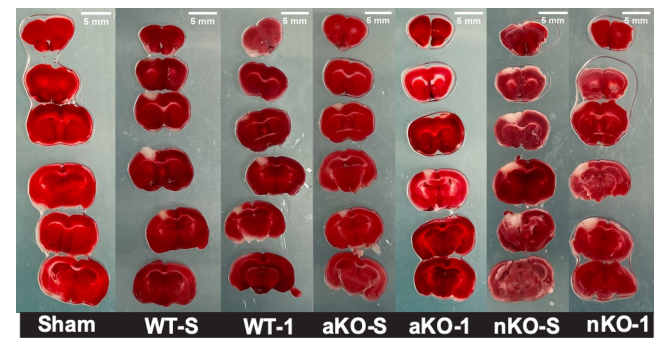
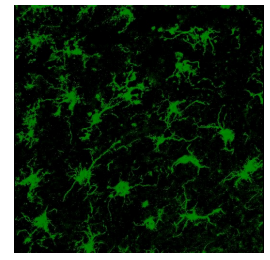
Experimental Design



Results



Images



Key Findings

- IGFR inhibition in astrocytes reduce neuronal protection against glutamate toxicity.
- Astro-KO have numerous neuroprotective phenotypes

Adversities Come To Fruition



Neuroscience
2022





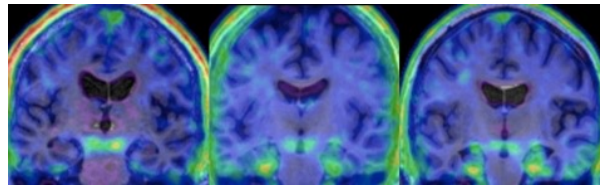
Hedwig taught us about the pain of departure and the loss of innocence.

Postdoctoral Appointment ~ Stanford University Mormino Lab (2022-)

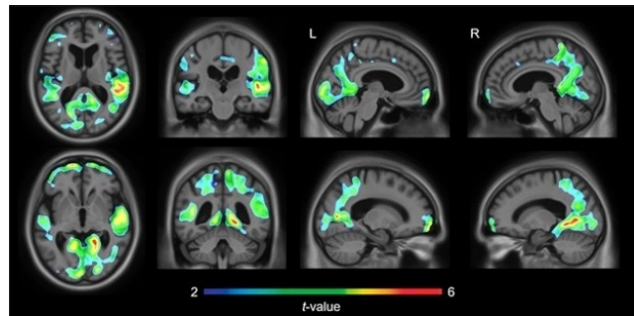
Interest



Research Interests



Techniques and Imaging



Opportunity

Postdoctoral Recruitment Initiative in Science and Medicine
Stanford PRISM 

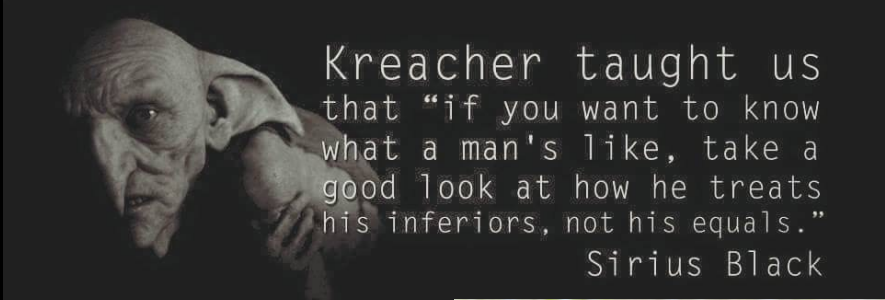
The Realization

Propel,
Postdoctoral Scholars Program
<https://propel.stanford.edu/>



Why a career in neuroscience research is fulfilling?

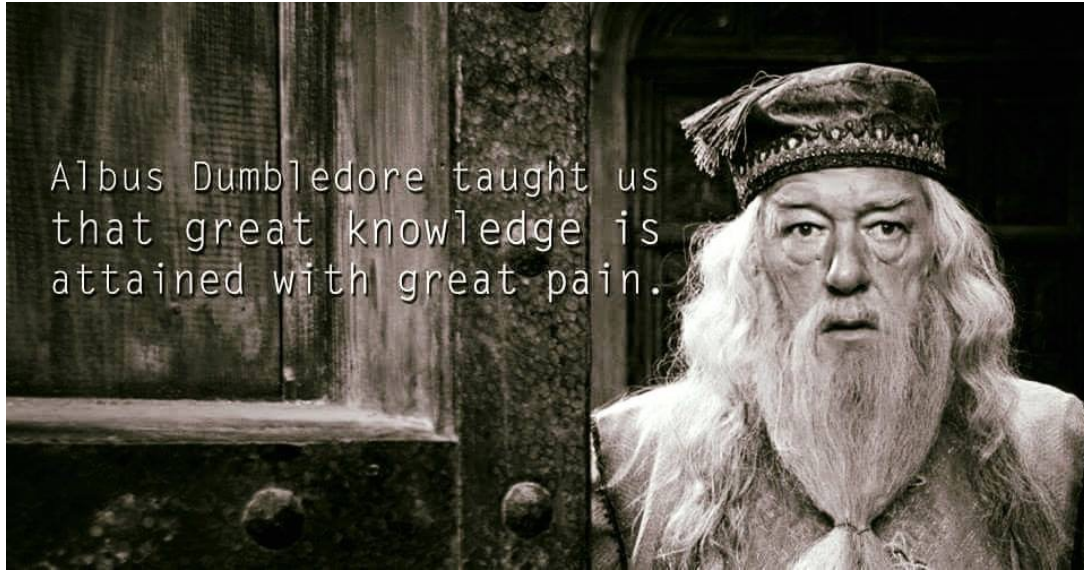
Identifying good mentors?



Kreacher taught us that "if you want to know what a man's like, take a good look at how he treats his inferiors, not his equals."
Sirius Black



What's are some of the best ways to surpass your peers?



Reading, Consolidating, Asking Questions, Opportunities

BMBH Emerging Scholars Program

Apply for an oSTEM Scholarship
Applications Close Friday, June 10th, 2022
\$70k in Scholarships available

NSF Graduate Research Fellowship Program

THE FORD FOUNDATION PRE-DOCTORAL FELLOWSHIP
Apply with confidence. Get Accepted. www.accepted.com

Ruth L. Kirschstein National Research Service Awards
NIH National Institutes of Health Research Training and Career Development

S.P.I.N.E.S.
Summer Program in Neuroscience, Excellence, and Success
Marine Biological Laboratory Woods Hole MA
go.mbl.edu/SPINES

hhmi Gilliam Fellowships for Advanced Study
51 Adviser-Student pairs in 2022
401 Fellows in the community to date
\$53k Per year per award
Building a community committed to advancing science through diversity and inclusion

NIH Blueprint for Neuroscience Research

AAAS Science & Technology Policy Fellowships

ABRCMS ANNUAL BIOMEDICAL RESEARCH CONFERENCE FOR MINORITY STUDENTS

Neuroscience Scholars Program
Enhancing Diversity in the Field

ENDURE
NIH Blueprint for Neuroscience Research

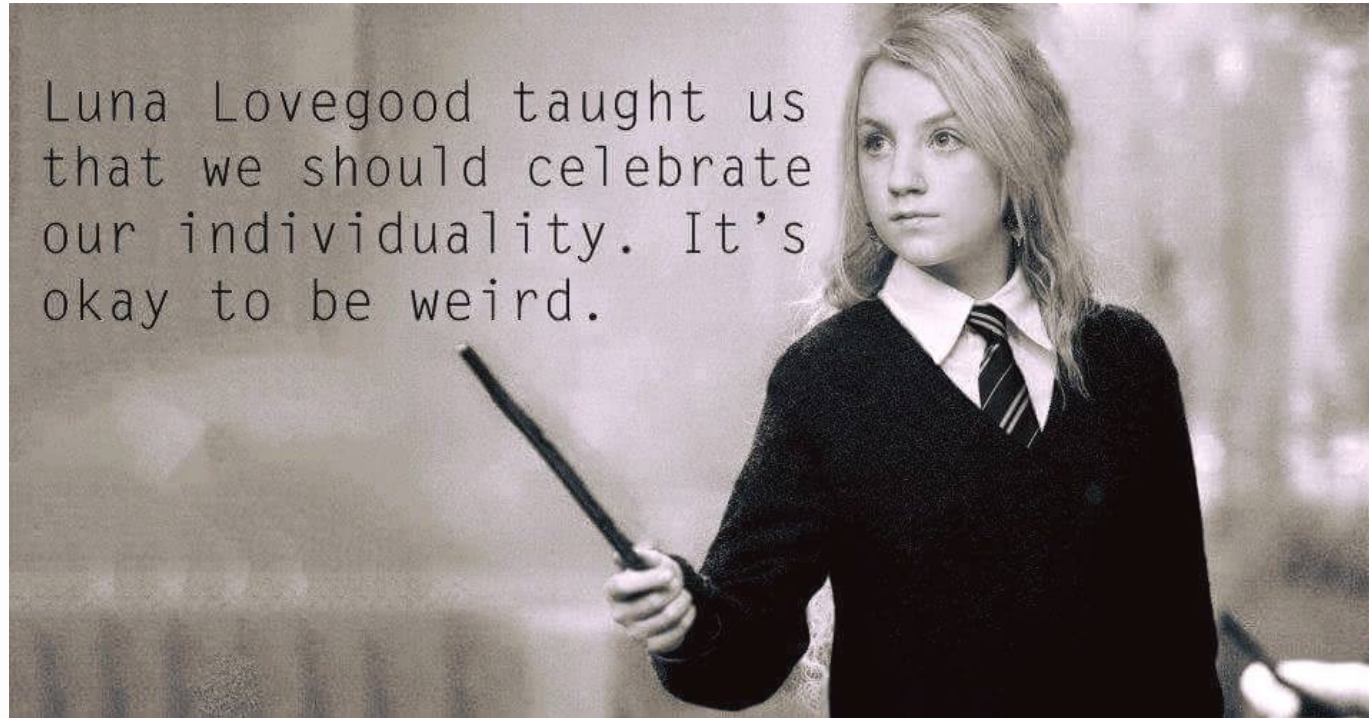
SREB Southern Regional Education Board

How do you take advantage of your graduate training?

Bling Me



Luna Lovegood taught us that we should celebrate our individuality. It's okay to be weird.



Bling Me



**Be Genuine
Be Relatable**

Build Your Life on Being Different

