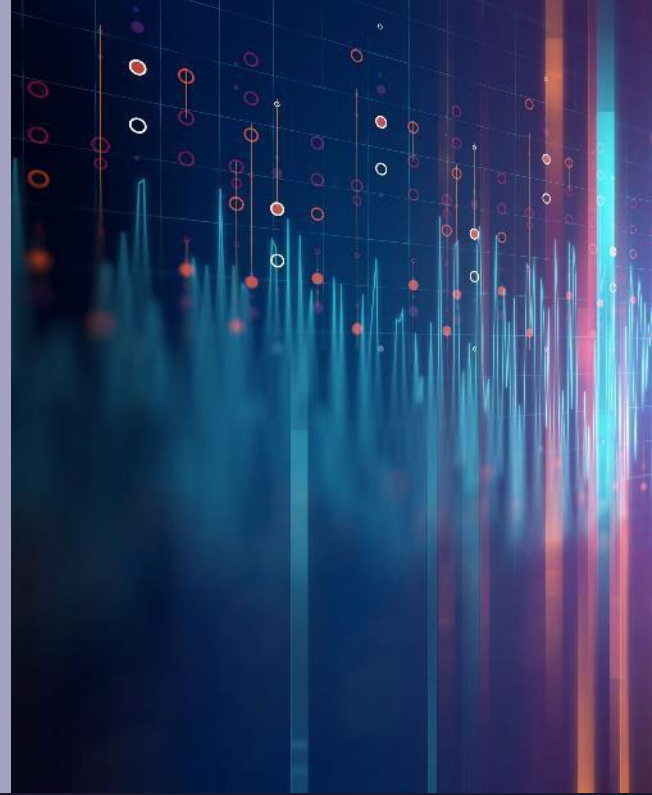




Telling Your Story

Sanlyn Buxner

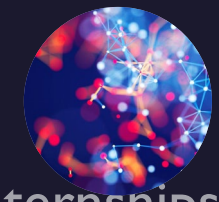
buxner@arizona.edu



Why it matters

- Science is a social enterprise – sharing your results matters to society and it matters to your career.
- A huge investment has been put into you and by you!
- Publishing is only some of the work you need to do to share your results

Funders and Supporters



Arizona Institute for Resilience (AIR) - Maria Johnson, Program Coordinator, RISE Internships

BIO5 Institute - Dr. Jennifer Barton, Director

College of Medicine - Dr. Michael Abecassis, Dean

College of Science - Dr. Carmala Garzione, Dean

Provost's Office - Dr. Joseph Glover, Senior Vice President for Academic Affairs and Provost

R. Ken Coit College of Pharmacy - Dr. Rick Schnellmann, Dean

Research, Innovation, and Impact - Dr. Elliot Cheu, Interim Senior Vice President for Research and Innovation

Funders and Supporters

Granting Agencies:



American Society for Pharmacology and Experimental Therapeutics Summer Undergraduate Research Fellowship (ASPET SURF) - Dr. Catherine Fry, Program Officer

Beckman Scholars Program - Arnold and Mabel Beckman Foundation (Ms. Kaerie Ray, Program Officer)

National Institute of Environmental Health Sciences (for EHS-TRUE and EHS-RISE) - Dr. Michael Humble, Program Officer

National Cancer Institute (for NACP) - Dr. LeeAnn Bailey, Chief, Center to Reduce Cancer Health Disparities, National Cancer Institute and Dr. Jay Revilleza, Program Director, Center to Reduce Cancer Health Disparities, National Cancer Institute

National Library of Medicine (for PHIRE)



NASA

71.8K posts

Following

(Images: Left: a solar flare captured by NASA's Solar Dynamics Observatory. Right: Aurora seen from Lummi Island, Washington, at 10:54 p.m. PT on May 10, 2024. Credit: Jeff Carter)



103 1.2K 4.6K 755K



shorelines. And they are as diverse as the habitats they live in. They can be massive,

The Insane Biology of: The Octopus

8,864,718 views · Nov 14, 2020

213K DISLIKE SHARE DOWNLOAD THANKS CLIP SAVE



SUBSCRIBE



Alzheimer's Research UK

30.1K posts

Follow



Alzheimer's Research UK @AlzResearchUK · May 7

New research into the link between APOE4 and the risk of developing Alzheimer's has hit the headlines today.

Our Chief Medical Officer @jmschott helps us break down what these findings mean.



Inheriting two copies of APOE4 linked to risk of Alzheimer's at a younger age, st...

Catherine Rose Jezerc 10mo Catherine Jezerc - Transcranial Magnetic Stimulation to Combat AD



Catherine Jezerc holding the TMS coil in preparation to take pilot participant Parker Guss's data for an EEG study.

Transcranial magnetic stimulation is

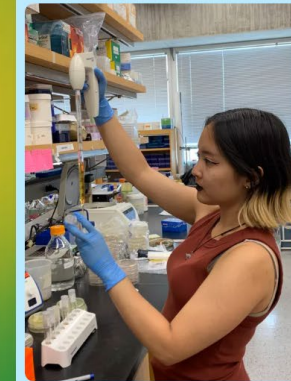
Anonymous 10mo Esha Mathur - Understanding policies that affect cancer care access for people with IDD



Conducting policy surveillance on the state of Georgia

Although individuals with Intellectual or Developmental

Anonymous 10mo Ciara Himes-Horizontal Gene Transfer in Megaplasmid



Making overnight cultures in liquid media

A plasmid is a (usually) circular molecule of DNA that exists outside of the chromosome. Plasmids can affect their host's phenotype

Anonymous 10mo Elissa Schiff - Treatment for Developmental Language Disorder



Elissa Schiff peruses the TOLD5, a test of developmental language, which is administered to participants of our study.

Developmental Language Disorder

Deliverables

UBRP 2024 Padlet – July 10

Should be vetted by your
lab

Letter to a funder – July 31



Crafting your message

- What do you want to highlight about you?
- What do you want to highlight about your work?
- What are the broader impacts of your work?

Pictures

WHAT TO CONSIDER

- Pick a picture that tells a story
- Can be done with your phone
- Nice to be in a lab environment (or in the field) – is possible
- Make sure you are wearing the correct PPE for the setting
- Make sure you have permission to take a picture in the lab/setting
- Action shot or looking at camera
- *Not an artistic selfie
- Be sure to caption it

Kerry Chou - Inhibiting a protein amplifies pain relief of opioids without changing side effects



With Dr. Streicher

Karina Gonzalez - Rewriting the modern recipe for cancer chemotherapeutics



In the lab, combining components of our liposomes, nanotechnology-enabled chemo-drugs

Sami Muslmani - Mechanical Circulatory Support Systems and Platelets



Sami Muslmani | Sarver Heart Center | Tucson, Az



What goes into your Padlet

- Your name in author field
- Interesting title
- 75 words with an image:
- Share something interesting, exciting, inspiring
- Last year's <https://padlet.com/cubeta2/ubrp-2023-g066y6ahsnuxqytz>

Catherine Rose Jezerc 10mo

Catherine Jezerc - Transcranial Magnetic Stimulation to Combat AD

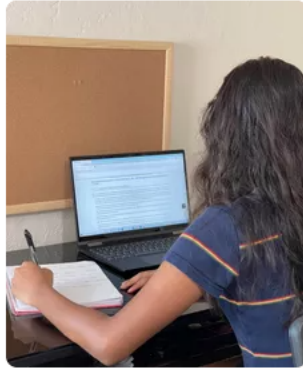


Catherine Jezerc holding the TMS coil in preparation to take pilot participant Parker Guss's data for an EEG study.

Transcranial magnetic stimulation is a noninvasive method of stimulating specific regions of the brain. In Dr. Chou's lab, we utilize this method to evaluate its potential as a therapeutic or preventive measure against Alzheimer's disease. I have loved learning to navigate this machinery as well as engaging in various other projects in the lab, i.e. studying connectivity between brain regions relating to cognition and memory in both cognitively normal and cognitively impaired individuals.

Anonymous 10mo

Esha Mathur - Understanding policies that affect cancer care access for people with IDD

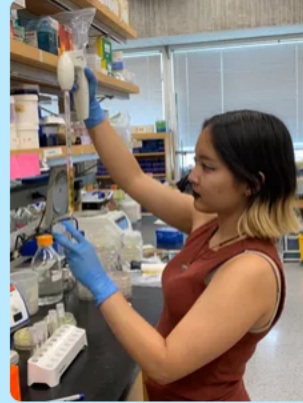


Conducting policy surveillance on the state of Georgia

Although individuals with Intellectual or Developmental Disabilities (IDD) are diagnosed with colorectal cancer at an earlier stage, their five-year survival rate is much lower than the general population. Under Dr. Armin, I am surveilling health care policies in Medicaid-expanded and unexpanded states, as well as interviewing state policy makers and service providers to understand why this is. Through this research, I hope to bring awareness to health and cancer care equity for the IDD population.

Anonymous 10mo

Ciara Himes-Horizontal Gene Transfer in Megaplasmids

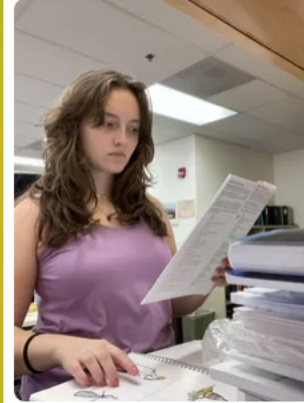


Making overnight cultures in liquid media

A plasmid is a (usually) circular molecule of DNA that exists outside of the chromosome. Plasmids can affect their host's phenotype through horizontal gene transfer--the transfer of genetic information in a manner that isn't from parent to offspring. For example, a plasmid with a gene that codes for antibiotic resistance, will make it's host resistant to that antibiotic. However, certain "housekeeping" genes that are essential for the basic function of the cell (like translation or transcription) don't tend to be horizontally transferred. But in a certain family of megaplasmids

Anonymous 10mo

Elissa Schiff - Treatment for Developmental Language Disorder

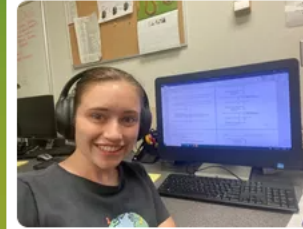


Elissa Schiff peruses the TOLD5, a test of developmental language, which is administered to participants of our study.

Developmental Language Disorder (DLD) is characterized by severe difficulty with production and comprehension of spoken language, and it can negatively affect people's abilities to communicate and learn. At the Talk MOORE Summer Camp, run by Dr. Elena Plante and Becky Vance of the Speech, Language, and Hearing Sciences Department, children with DLD attend a 6-week language-emersion summer camp and receive language therapy daily to improve their communication. Research

Anonymous 10mo

Ella Marshall - Brain data analysis with larger implications in aging research

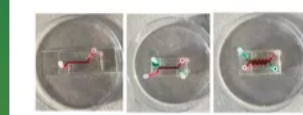


Ella Marshall compiling questionnaires for a potential new study on cortisol and cognition.

Lee Ryan's Cognition & Neuroimaging Lab collects and analyzes imaging and cognitive function data with the ultimate goal of contributing to aging research as it relates to the brain. As an undergraduate RA working in her lab I have the opportunity to help with multiple projects including reviewing hippocampal segmentation and white matter tract image data, scoring neuropsych tests that screen cognitive function, and assisting with administration of the stories in contexts project. My UBRP research project will examine the possible connection between variants of the BDNF gene and hippocampal subfield volume. BDNF encodes for a protein that promotes neuroplasticity which

Anonymous 10mo

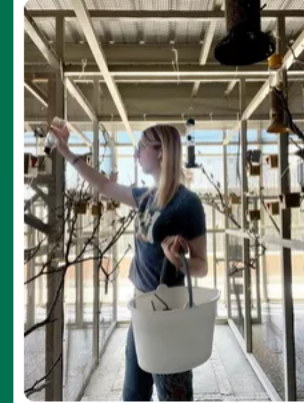
Tanja Clarkson - Bioengineered Prostate-On-Chip



In 2023, prostate cancer (PCa) is the 2nd in new cases and the 2nd in death among men in the United States of America. The methods by which PCa metastases occur are poorly understood. Recent studies reveal stromal cells play crucial roles in prostate tumorigenesis. The interactions between tumors and their underlining stroma, cancer-associated fibroblasts (CAFs), contribute to the development of an anti- or pro-tumorigenic microenvironment. Microfluid-based bioengineered organ-on-chips have emerged as a useful tool for studying cancer biology and related treatments. We have developed the first in vitro microfluidic human Prostate-on-Chip (PoC) model. Co-culture of cancer cells and stromal cells performed helped us indicate the development of cancer associated fibroblasts (CAFs) and capture the growth of the cells over time. The PoC can be useful for studying tumor

Anonymous 10mo

Forrest Zepezauer - The Role of Choice in Reproductive Success



Zookeepers are interested in maintaining genetic diversity in captive populations. In order to accomplish this, in the past, mating pairs have been matched up solely according to their genetic compatibility. However, the outcomes of these pairings have shown low reproductive success. Our project examines the impact of allowing females to choose their mates on the success of breeding outcomes, using sets of forced pairs chosen via genetic algorithms, and pairs created via female choice.

Madison Elizabeth Gac... 10mo

Madison Gac...

Letter to Your Funder



KEY PIECES

- Introduction to you
 - **Personal details** you feel comfortable sharing including your background, major, other experiences
- Details about your research in everyday language
- What is the impact of your experience on you personally and professionally
- What is the potential impact of the research you are doing*
- What are your plans for the future?

Full details are at <https://ubrp.arizona.edu/telling-your-story>.

PART 1: Padlet Post, due July 10, 2024. By Wednesday, July 10, submit an post directly on the [UBRP 2024 Padlet](#). This post should include a photo and short description of your work (75 words or less), explaining your research project and its importance in layman's terms. Please include a title in the Subject field, and your name in the Author field; you must also run your post by your mentor for approval. UBRP supporter and the general public will be able to visit this Padlet to see an overview of Summer 2024 UBRP participants and their research; we may also repost students' Padlet posts on UBRP's social media platforms (Instagram, Facebook, and/or Twitter) and/or the UBRP website (ubrp.arizona.edu).

If you would like to view last year's Padlet as an example, [click here](#).

PART 2: Letter to a UBRP Supporter, due July 31. There are many generous people who have contributed funds to make the UBRP experience possible for students this summer, including UArizona administrators and deans, governmental and private agencies, and even private donors (see the list below)! We want these people to learn about the impact of the UBRP experience first-hand from its participants. Write a letter to a UBRP Supporter, including a personal introduction, a general description of your research project suitable for a layperson to understand, and the impact of your research experience upon your life and your future goals. Your letter should be one page maximum, use 12 point Arial or Calibri font, have 1" margins, be single spaced, and saved as a Word document. Address the letter generally to "Dear UBRP Supporter, "and make sure to sign your letter and include your e-mail address as contact information.

By Wednesday, July 31, save a final draft of your letter as a Word document, title the file name simply as "*[your last name], [your first name].doc*", and upload it to [this Box folder](#). As we review students' letters and distribute them to UBRP supporters throughout the year, we will personalize the salutation and let students know to whom their letters are being sent. Be prepared; you may hear back from funders directly if they would like to learn more about you and your research!



Maile McSwain conducts research at the bench in Dr. Zeliann Craig's lab

Deliverables

UBRP 2024 Padlet – July 10

Should be vetted by your
lab

Letter to a funder – July 31



Questions

<https://ubrp.arizona.edu/telling-your-story>

