



**3MT**

**THREE  
MINUTE  
THESIS**

FOUNDED BY THE UNIVERSITY OF QUEENSLAND

**Presented by the  
Jefferson College of Life Sciences  
Graduate Student Association  
Thursday, August 27<sup>th</sup>, 2020**

# The 3MT Executive Board



**Jess Kopenhaver**  
GSA VP of Academic  
Affairs



**Katerina Simunkova**  
Advertising &  
Communications  
Chair



**Alison Shupp**  
Judging Liaison



**Alexis Kolb**  
Training &  
Recruitment Chair

**Thank you to our  
Sponsor!**



**Jefferson College of Life Sciences**



**Thank you to our  
Supporters!**



**Office for Professional Writing, Publishing, and  
Communication**

**-Pam Walter, MFA**

**Department of Marketing and Communications**

**-Karuna Meda, PhD**

**-Edyta Zielinska, MS, MA**

**Graduate Student Association**

**-John Han, President**

**-Brandie Morris Verdone, Former VP of Academic Affairs**

**Thank you to our  
Prelim judging panel!**



**Karuna Meda, PhD**

Science Writer, Department of Marking and Communications, Jefferson

**Jenny Schneider, PhD**

Administrative Postdoctoral Fellow, Office of Postdoctoral Affairs, JCLS

**Nikita Fnu, PhD**

Postdoctoral Fellow, Jefferson

Postdoctoral Scientific Editing and Reviewing Team (PSERT) member



## HOW TO COMMUNICATE YOUR SCIENCE TO THE PUBLIC

This series of lectures and hands-on workshops are brought to you by: Jefferson's College of Life Sciences, the Department of Marketing and Communications, the Graduate Student Association, the Jefferson Business and Biotechnology group, and the Office for Professional Writing, Publishing, and Communication.



Sep.25, 1-2:30 pm  
901 Walnut, lobby



SCIENCE COMMUNICATION – How it can make you a better scientist. Overview of Sci-Comms Certificate Requirements for the series

Oct 10, 5-7 pm  
JAH, 307



CAREER PANEL – 4 Sci-Comms fields that PhDs can step into and how to prepare a writing sample to get the job

Nov 6, 1-3 pm + Nov 21,  
4-6pm | Hamilton,  
210/211 + BLSB,101



ANIMATE YOUR SCIENCE – Express your science in narrative form and create an animation depicting your favorite research

Dec 3, 1-2:30 pm  
901 Walnut, lobby



WHY TWITTER IS GOOD FOR YOUR CAREER – Learn how to use social media for lab tips, grad school self-care, networking, peer review

Jan 16, 1-2:30 pm  
BLSB, 101



WRITING FOR A GENERAL AUDIENCE – Learn a multitude of article styles that editors look for lab tips, grad school self-care, networking, peer review

Feb 11, 1-2:30 pm  
BLSB, 101



PODCASTING 101 – Record and edit interviews and learn interview skills that help highlight the best of your subjects

Mar 13 + 16, 4-5pm  
JAH, M61



3-MINUTE THESIS TRAINING – Tell your science story in 3 minutes. Training sessions mandatory for all entering the 3MT competition

Apr 30, 1-2:30pm  
Hamilton, 505



PITCH A SCIENCE ARTICLE – How to work with Media Relations to pitch your story to editors of general-audience media outlets

May 8, 4-6pm  
Foerderer Auditorium



3-MINUTE THESIS COMPETITION – Present your talk or attend and cheer on your peers

June 8, 1-3pm  
BLSB, 105a



SCIENCE ADVOCACY – How to get support for your cause

EARN A JEFFERSON SCIENCE COMMUNICATIONS CERTIFICATE/BADGE:



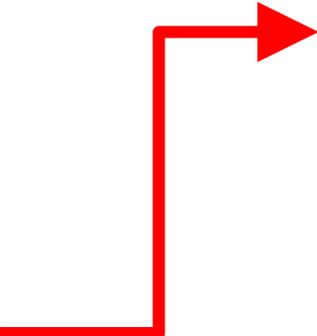
Lecture attendance = 1 point



Workshop assignment = 3 points

15 points needed for Certificate

Each completed assignment may be submitted to the Jefferson Science Communications Team for possible publication on Jefferson channels. Sessions are drop-in and open to all. Contact [ResearchNews@jefferson.edu](mailto:ResearchNews@jefferson.edu) with questions.



**Students cultivate  
desirable  
communication skills  
critical for scientific  
presentations**



# Competition Overview

Three Minute Thesis (3MT<sup>®</sup>) is a research communication competition during which PhD students have just three minutes to present a compelling oration on their thesis and its significance. 3MT challenges students to consolidate their ideas and research discoveries so they can be presented concisely to a non-specialist audience.

**Developed by The University of Queensland (UQ) in 2008**, enthusiasm for the 3MT concept has developed rapidly, now these competitions are held in over **900 universities and institutions across 85 countries worldwide**.

# Competition History



2008 - 3MT developed by The University of Queensland (UQ)

2010 - Inaugural Trans-Tasman 3MT held at UQ

2013 - Universitas21 held first U21 Virtual 3MT

2016 - Inaugural Asia-Pacific 3MT held at UQ

PhD students from Australia, New Zealand, South-East Asia and North Asia now compete in the Asia-Pacific 3MT final, held at UQ and sponsored by -

**SPRINGER NATURE**

# International Competitions



# Judging Panel



**Kristy Shuda-McGuire, MS, PhD**

Associate Dean of Biomedical Studies, The Wistar Institute

**Kimberly Scata, PhD**

Cancer Researcher and STEM advocate

**Luke Brand, PhD**

Associate Editor, American Association for Cancer Research (AACR)

**Robert Ring, PhD**

Chief Executive Officer, Kaerus Bioscience Ltd.

**Neil Bardhan, PhD**

Science Communication Consultant, Bardhan Consulting

# Rules



- **3 Minutes**
- **Spoken word**
- **Presentation begins when the speaker starts speaking or moving**

- **1 slide**
- **No animation**
- **No Props**

- **For a non-specialist audience**
- **Judges' decision is final**

# Judging Criteria



## Comprehension & Content

- Purpose is clear
- Significance/Impact is clear
- Approach is jargon-free
- Accessible

- A science talk for scientists
- A poster presentation
- A research paper
- Again, NOT judging the science

## Engagement & Communication

- Enthusiasm
- Stage Presence
- PowerPoint that is accessible and supports the presentation
- Clear hook – makes you want to know more

- Choice of metaphor
- Three minute blurb organization
- Research topic





# Prizes

- 1<sup>st</sup> Place: entrance into the NAGS Regional 3MT Competition
- 2<sup>nd</sup> Place
- 3<sup>rd</sup> Place
- People's choice



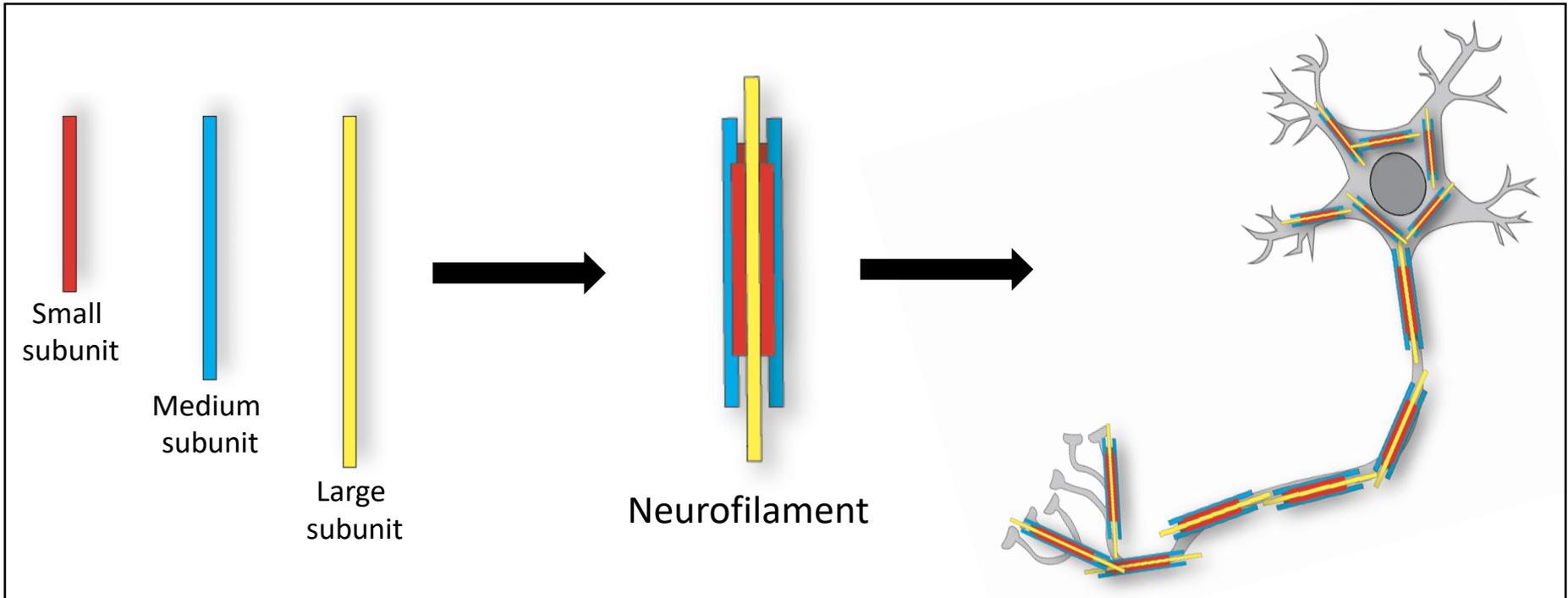
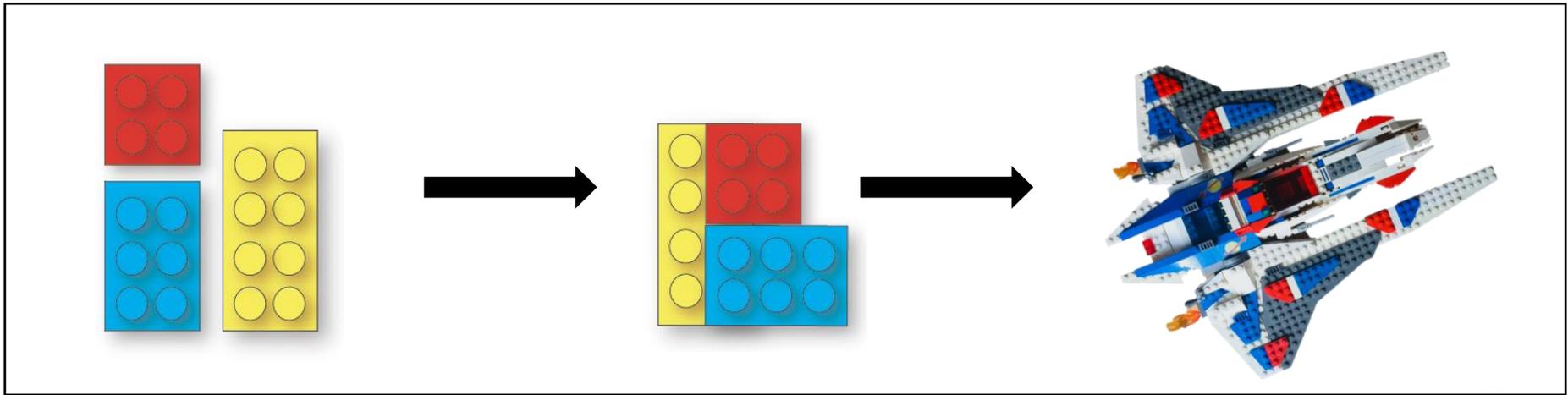
# Elana Molotsky

Neuroscience

**Dr. Diane Merry's Lab**

*Neuronal Legos*

# Neuronal Legos





# Alison DePew

Neuroscience

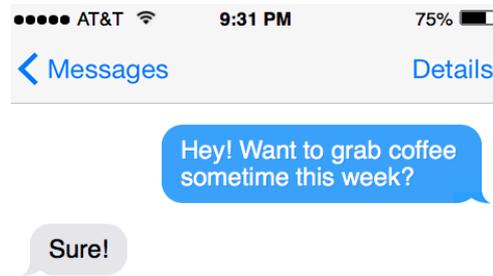
**Dr. Timothy Mosca's Lab**

*Together forever: How Connections Form  
in the Brain*

# Together Forever: How Connections Form in the Brain



1. Finding the right partner



2. Exchanging messages



3. Building a strong relationship



4. Achieving a lasting connection



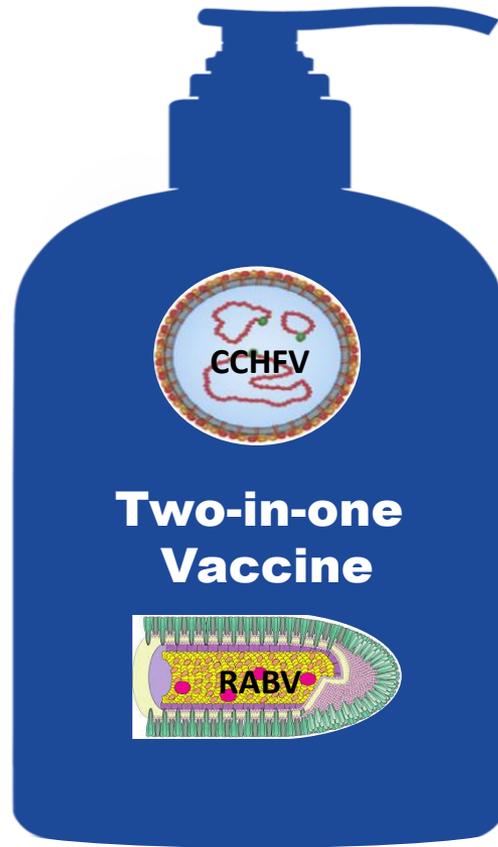
# Gabby Scher

Immunology & Microbial Pathogenesis

**Dr. Matthias Schnell's Lab**

*Two-in-One: A Single Vaccine for Two  
Viruses*

## Two-in-One: A Single Vaccine for Two Viruses





# Daniel Hwang

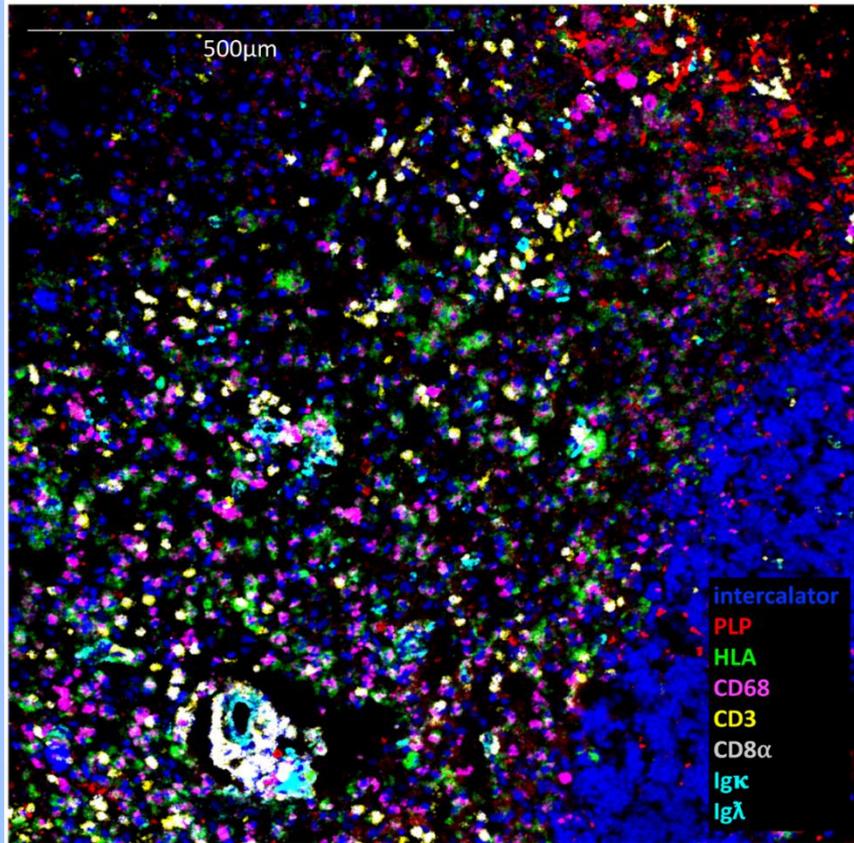
Immunology & Microbial Pathogenesis

**Dr. Abdolmohamad Rostami's Lab**

*Targeting Myeloid Cells in an Animal  
Model of Multiple Sclerosis: Filling a Gap  
in Treatment Options.*

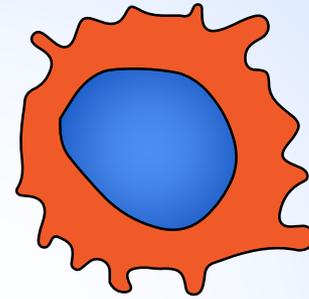
# Myeloid Cells are up to 80% of Harmful cells in the Brain

Purple = myeloid cells

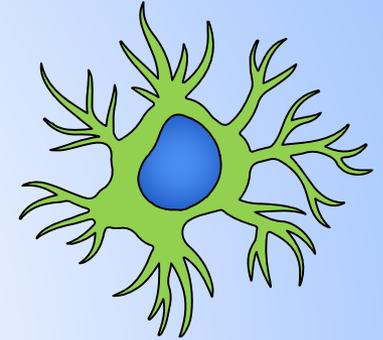


...but beneficial myeloid cells also exist!

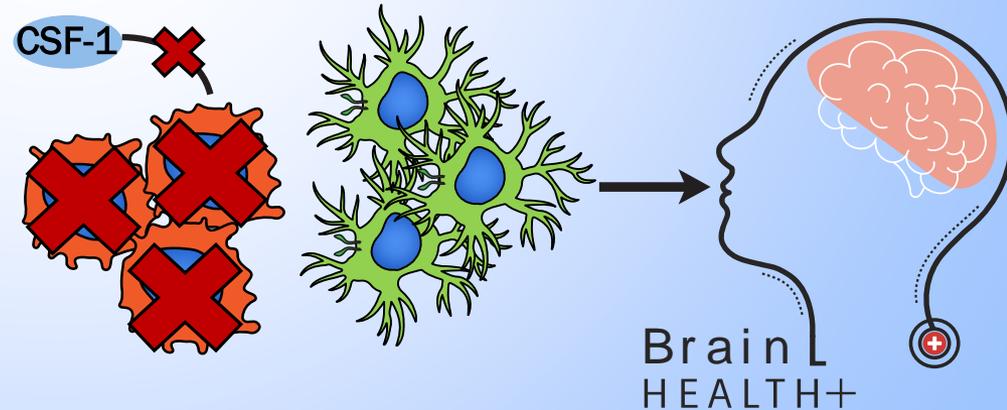
Harmful



Beneficial!



Blocking CSF-1 destroys only harmful myeloid cells.





# Shannon McGettigan

Immunology & Microbial Pathogenesis

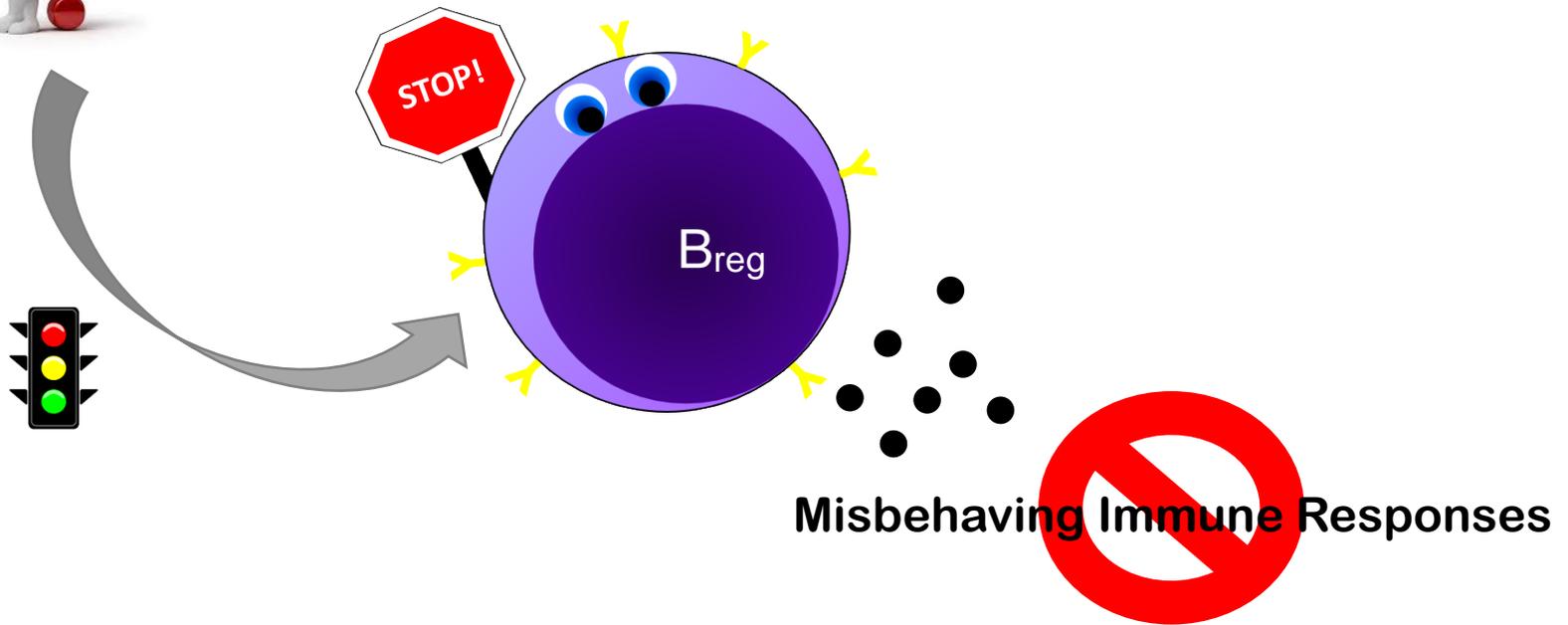
**Dr. Gudrun Debes' Lab**

*Breg Lesson Plans: How do you teach a B cell to stop misbehaving immune cells?*



# Breg Lesson Plans:

How do you teach a B cell to stop misbehaving immune cells?





# Tess Cherlin

Genetics, Genomics, and Cancer Biology

**Dr. Isidore Rigoutsos' Lab**

*Who Will Get Cancer? Developing a  
Personalized Cancer Prediction Tool*

# Who Will Get Cancer? Developing a Personalized Cancer Prediction Tool

Tess Cherlin | Genetics Program

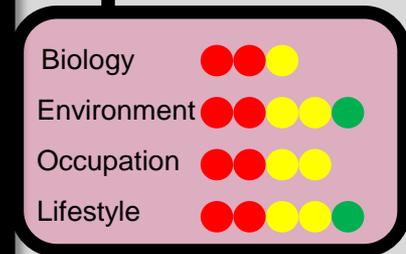
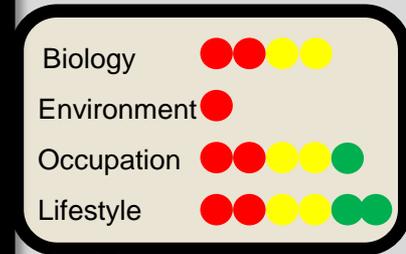
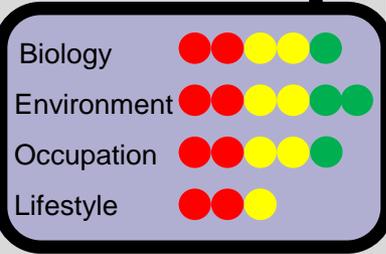
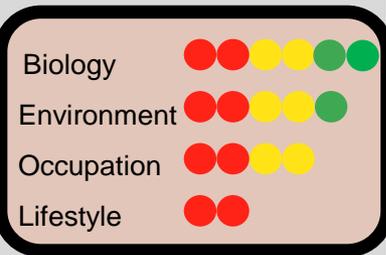
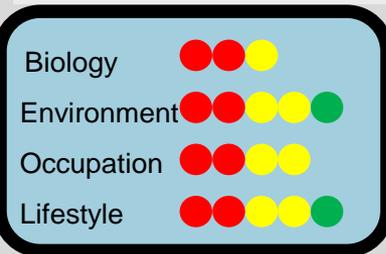


Image: <https://www.tolerance.org>



**Short break for the judges to  
deliberate**



## People's Choice

- Using the Zoom poll pop up, please select the name which corresponds to your favorite presenter.

## Judging Criteria

- **Comprehension & Content:** Did the presentation help the audience understand the research? Was the thesis topic and its significance communicated in language appropriate to an intelligent but non-specialist audience?
- **Engagement & Communication:** Did the oration make the audience want to know more? Did the speaker have sufficient stage presence, eye contact and vocal range; maintain a steady pace, and have a confident stance?



# People's Choice...

**Presented by:**

**Alexus Kolb**



**3<sup>rd</sup> Place**

**Presented by:**

**Jess Kopenhaver**



**2<sup>nd</sup> Place**

**Presented by:**

**Jess Kopenhaver**



# 1<sup>st</sup> Place Winner

**Presented by:**

**Jess Kopenhaver**



**Thank you to our sponsor,  
supporters, judges,  
participants, & audience  
for your attention!**



**3MT**

**THREE  
MINUTE  
THESIS**

FOUNDED BY THE UNIVERSITY OF QUEENSLAND

