

ANNUAL RESEARCH EMPHASIS WEEK

May 29 – June 2, 2023

[Schedule of Events](#)

[Keynote Lecture: Tim Musso](#)

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ABOUT RESEARCH EMPHASIS WEEK

Research Emphasis Week is an annual tradition at La Sierra University, during which the research and scholarly production efforts of our undergraduate students are showcased and celebrated.

With the recent participation of multiple disciplines and programs in addition to the long standing poster session, REW has truly become a campus-wide event.

MONDAY, MAY 29

6 PM (HMA)

Student Recital

Rafael Braga, violin

Music Department

7 PM (HMA)

Student Recital

Xinyue Wei, violin

Music Department

TUESDAY, MAY 30

12 PM (HUM 113)

Undergraduate Presentations

Naia Tambonan:

"Festival of Serpents" in the style of Gabriel Garcia Marquez"

Julia Geriguis:

"The Nickel Boys: A Quintessential Postmodern Literary Text"

Leif Mayang:

"Human Interaction Explored by In "

English Department

5 PM (SOUTH HALL 114/ZOOM)

Junior and Senior Presentations

Rita Dementyev:

"An Alternate Synthesis of Sulfonamides Through Acetyl Sulfate"

Deanna Shanelle "Asia" Esteban:

"Measuring pKas for Purine Metabolites using a Spectrophotometric Titration Combined with Theoretical Calculations"

Natalia Ruiz Guevera:

"Assessing Dental Anxiety in Two Different Dental Patient Populations"

Honors Department

TUESDAY, MAY 30

5 PM (SOUTH HALL 114/ZOOM)

Junior and Senior Presentations, cont.

Fiona Lin:

"Exploring California: 24 Frames in 24 Hours"

Miriam Weybright:

"Social Ecology"

Honors Department

WEDNESDAY, MAY 31

3 PM (SOUTH HALL 114)

Faculty Panel

Dr. Lora Geriguis, English

Dr. Paul Mallery, Psychology

Dr. Nate Sutter, Biology

Honors Department

5:15 PM (PSC 230)

FS Research & Scholarship Committee

Selected Paper Presentations

Julia Geriguis

"The Enslaved Womb: Exploring Sexual Labor, Abortion, and Medical Research Subjugation Among Black Women During the Early to Mid 19th Century"

Matthew Talukdar

"Investigating Prototypical Models of Heart Rate"

6 PM (PSC)

FS Research & Scholarship Committee

Poster Presentations and Reception

Students standing by posters in PSC Main Hall

7 PM (CH 100)

2022 Distinguished Researcher Award Recipient:

Prof. Tim Musso

"Living Your Life With Creative Intention"

7:45 PM (CH 100)

Presentation of Poster and Paper Competition Awards

THURSDAY, JUNE 1

11:30 AM (ZOOM)

English Department

Graduate Presentations

Cassie Norman:

"Hybrid Animals in Court: Marie de France's Use of Magic to Justify Courtly Love Relationships"

Michaelangelo Marengo:

"Teaching History, Science, and Literature Through Comic"

Patricia Granzio:



Tim Musso, Art + Design

"Living Your Life with Creative Intention"

Keynote Lecture ~ Wednesday, May 31, 7:00 PM (Cossentine 100)

Artist Statement:

The physical world is an astonishing place and one of the best ways to truly see and approach an intimate personal understanding of it is by traveling on foot—freed from the technological world. This simple and ancient activity slows time and provides one with focus in the present moment and place. The act of seeing, sensing and being is profoundly intense. To fully engage with this intensity one has to respond in some fashion. As a visual artist I respond by creating visual images.

I have explored thousands of miles of remote backcountry areas on foot and continue to make images based on my observations and experiences. My curiosity compels me to. The pull of the unknown draws me onward both down the trail and in my artistic creation. I don't know what is beyond the next ridge but I am driven to find out even if I have to continue hiking past it for fifty more miles. I'll share with you what I find. I hope it astonishes you because it certainly astonishes me.

POSTER SESSION

Wednesday, May 31, 6:00 PM (PSC Main Hall)

Students standing by their posters [# # - poster location]

Yvonne Agriam & Temerlin Brown [28]#

Health and Exercise Science

A comparison of physical activity among college students during Spring 2020 and Spring 2023

Nicole Aguero^ [11]

Biology

(Akua Asamoah & YeEun Jun*)

Correlating Genetic Variation with Geographic Distance in Nematode Worms: A Comparative Genomics Study of C. elegans and O. myriophilus Isolates

Sarah Amro [39]

Psychology

Big Five Personality Traits as Moderators of Perceived Stress and Memory Retention

Eddy Baez Rodriguez & Weston Mckenney [24]

Health and Exercise Science

Screen time and sleep quality effects among athletes vs. non-athletes students

Abhiram Balakrishnan^ [12]

Biology

(Alice Lee*)

Molecular Characterization of Enterococcus Samples Isolated From La Sierra University (2022)

Brianna Barruga^ [7]

Biology

(Leslie Rodriguez*)

Predicting the Holin in FinalFrontier

Brittani Bentley [32]

Psychology

Performance in Sports Affected by Perceived Susceptibility to Sport-Related Injury

Tamia Cephus^ [34]

Biology

(Lynneth Guzman*)

(in collaboration with Dr. Nate Sutter)

Identifying Soil Mite Species in Southern California Soil

Brandon Ching^ (6)

Biology

(Chelsea Tafoya*)

(in collaboration with Dr. Arturo Diaz)

Gp47 of bacteriophage Amelie is toxic when overexpressed in M. smegmatis and is able to interact with host proteins NusA and Polyribonucleotide nucleotidyltransferase (PRNT)

Jaden Chen^ [44]

Biology

(Dylan Carpio*)

The Phage World's Mike Tyson: Endolysins

What are similarities and differences of endolysins found in one cluster?

Jared Dane [9]

Psychology

Does Social Exclusion Hurt Your Self-Esteem?

Duane Darrett [50]

Psychology

The Effects of Political Conservatism and Agreeableness on Memory Retention in College Students

Elisaelena Enriquez [48]

Psychology

Understanding the Silent Killer: Which Factors Manage Diabetes

Akjira Esson & Jasmin Morales [40]

Health and Exercise Science

Oral Health and The Effects of Quality of Life Among College Students

Alexandria Falvo [43]

Biology

Bacteriophage Lebron Gene 67 is Mildly Toxic to M. smegmatis

Alyssa Felix [19]

Psychology

College Students: Predictors of Life Satisfaction

Madison Ferguson & Edward Rivera [26]

Health and Exercise Science

The Effects That Sleep and Stress Have on Academic and Athletic Performance Amongst College Students

Stephanie Galima [36]#

Psychology

Does Stress and Social Connectedness Predict Self-Esteem?

Elva Garcia [1]#

Biology

Discovery of Toxic Genes 68, 78, 117 in M.smegmatis phage Lebron Through Molecular Cloning, Cytotoxicity Assays, and Bioinformatics Analysis

Jennifer Hubbard [52]

Health and Exercise Science

How caffeine, nicotine, and alcohol affect overall

^ Lead Author

* Additional Authors

departmental nominee

Rebecca James [45]

Psychology

Exploring the Development of Atheistic Morality

Natalie Johnston [46]#

Psychology

Agreeableness as a Predictor of Memory Conformity

Raymond Kim^ [21]

Biology

(**Yumin Lee***)

The Function of RDFs in Phages Without Integrase

Julia Ko^ [22] #

Biology

(**Raymond Kim & Adam Tsao***)

(**in collaboration with faculty at Loma Linda School of Dentistry**)

Effect of Various Toothpaste Tablets on Gloss and Roughness of Resin-based Composite Materials

Julia Ko^ (20)

Biology

(**Adam Tsao***)

Infection and Reception: Why are Normally-Exclusive Minor Tail Proteins Found in Distant Phages?

Tanner KrieteL & Aryanna Ulloa [38]

Health and Exercise Science

Recovery Process for College Athletes Both Physically and Nutritionally

Alice Lee^ [18]

Biology

(**Abhiram Balakrishnan***)

Bacteriological Characterization of Enterococcus Species Isolated from La Sierra University (2022)

Alyssa Lee [5]#

Biology

The Discovery of Toxic Genes 73, 93, and 122 in Mycobacterium Smegmatis of Phage Lebron Through Molecular Cloning and Phenotypic Assays

Heidi Lin [17]

Biology

(**in collaboration with Dr. Nate Sutter**)

World of Worms Natural Hematode History and Anatomy

Jui-Hung (Hadassah) Lin [25]

Biology

(**in collaboration with Dr. Arun Mathiah**)

The Antimicrobial Effects of Cinnamomum verum, Hibiscus sabdariffa, and Panax ginseng on Enterococcus Species

Moses Milano^ [13]

Biology

(**Grace Young***)

Location-Based Genetic Similarity in Bacteriophages

Aya Miyajima [33]#

Chemistry and Biochemistry

(**in collaboration with Dr. Marco Allard & Dr. Richard Rakijian**)

Varying Concentration and pH in the Hydrolysis of Methyl Green under Pseudo-first- and Second-order Kinetics

Jasmin Morales & Martha Nganye [2]#

Health and Exercise Science

Variables Affecting the Physical and Mental Health of Dementia Caregivers

Sarah Munoz [47]

Psychology

Do Online and Offline Personas Influence Social Comparison and Self-Esteem?

Kristen Ngo [23]#

Biology

(**in collaboration with Dr. Nate Sutter**)

Phoresis Survey: Diverse Nematodes Found on Soil-dwelling Invertebrates

Eddie Nguyen^ [8]

Biology

(**Yannik Gibson***)

Co-mechanisms of programmed ribosomal frameshifting in EB Bacteriophages

Sherrie Ortiz-Hutchins [14]#

Psychology

The Effects of Parenting Styles and Self-Efficacy on Romantic Relationship Satisfaction

Daphne Prakash [41]

Biology

Slam DuNK(F): Molecular Cloning and Phenotypic Analysis Reveals Toxicity of Phage LeBron Gene 113

Daphne Prakash^ [42]

Biology

(**Alexandria Falvo***)

(**in collaboration with Dr. Nate Sutter**)

SINE Retrotransposon Element Imports Polyadenylation Signals to 3'UTR in Rabbits Polyadenylation Signals to 3'UTR in Rabbits (Oryctolagus cuniculus)

^ Lead Author

* Additional Authors

departmental nominee

Serena Romero [29]

Psychology

The Harm/Care Moral Foundation and Change In Prejudice

Ivonne Steinmann [27]

Psychology

The Effect of Emotion and Sex on Time Perception: Using a Temporal Bisection Task

Larissa Suarez [35]

Psychology

Do Mismatches Between Personal Values and Eating Behaviors Predict Self-Esteem?

Elizabeth Ton^ [37]

Biology

(Ethan Wang*)

tRNA in Cluster C and EB: Too Much is Just Enough

Luisa Triches Rodriguez [30]#

Psychology

(In collaboration with Dr. Leslie Martin

Bicultural Identity Integration and Wellbeing

Myles Tyler [3]

Psychology

Risk Taking in Relation to Gender in Young Adulthood

Tabitha Usery^ [51] #

Biology

(Madelyn Vaca*)

Function of a Third HNH Endonuclease in Phage FinalFrontier

Danielle Viray [49]

Psychology

Memory and Personality: The Misinformation Effect

Vivianna Williams [10]

Psychology

The Effect of Isolation and Emotion on Time Perception

Nobuyuki Yano [18]

Biology

Discovery of Toxic Genes 76, 86, and 125 in Phage Lebron within Mycobacterium smegmatis

Caden Yoo [4]

Health and Exercise Science

The effects of caffeine, nicotine, and alcohol on the sleep of college students

Kevin Zbierski^ [16]

Biology

(Kristen Ngo*)

(in collaboration with Dr Nate Sutter)

Phoresis Survey: Does Location Predict Nematode Presence on Isopods?

^ Lead Author

* Additional Authors

departmental nominee

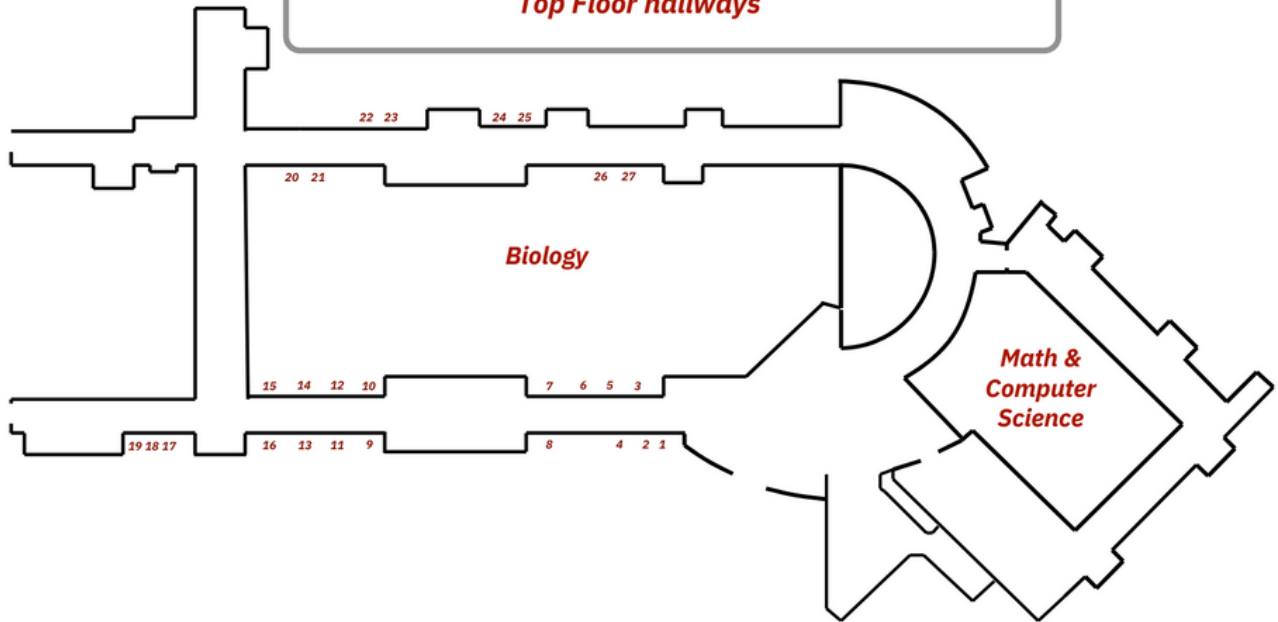
POSTER LOCATION, NAME

- 1 Garcia, Elva
- 2 Morales, Jasmin
Nganye, Martha
- 3 Tyler, Myles
- 4 Yoo, Caden
- 5 Lee, Alyssa
- 6 Ching, Brandon
Tafoya, Chelsea
Dr. Arturo Diaz
- 7 Barruga, Brianna
Rodriguez, Leslie
- 8 Nguyen, Eddie
Gibson, Yannik
- 9 Dane, Jared
- 10 Williams, Vivianna
- 11 Aguero, Nicole
Asamoah, Akua
Jun, YeEun
- 12 Balakrishnan, Abhiram
Lee, Alice
- 13 Milano, Moses
Young, Grace
- 14 Ortiz-Hutchins, Sherrie
- 15 Yano, Nobuyuki
- 16 Zbierski, Kevin
Ngo, Kristen
Dr. Nate Sutter
- 17 Lin, Heidi
Dr. Nate Sutter
- 18 Lee, Alice
Balakrishnan, Abhiram
- 19 Felix, Alyssa
- 20 Ko, Julia
Tsao, Adam
- 21 Kim, Raymond
Lee, Yumin
- 22 Ko, Julia
Kim, Raymond
Tsao, Adam
Faculty at Loma Linda
School of Dentistry
- 23 Ngo, Kristen
Dr. Nate Sutter
- 24 Baez Rodriguez, Eddy
Mckenney, Weston
- 25 Lin, Jui-Hung (Hadassah)
Dr. Arun Mathiah
- 26 Ferguson, Madison
Rivera, Edward
- 27 Steinmann, Ivonne
- 28 Agriam, Yvonne
Brown, Temerin
- 29 Romero, Serena
- 30 Triches Rodriguez, Luiza
- 32 Bentley, Brittani
- 33 Miyajima, Aya
Dr. Marco Allard
Dr. Richard Rakijian
- 34 Cephus, Tamia
Guzman, Lynneth
Dr. Nate Sutter
- 35 Suarez, Larissa
- 36 Galima, Stephanie
- 37 Ton, Elizabeth
Wang, Ethan
- 38 Kriettel, Tristan
Ulloa, Aryanna
- 35 Suarez, Larissa
- 36 Galima, Stephanie
- 37 Ton, Elizabeth
Wang, Ethan
- 38 Kriettel, Tristan
Ulloa, Aryanna
- 39 Amro, Sarah
- 40 Esson, Akyira
Morales, Jasmin
- 41 Prakash, Daphne
- 42 Prakash, Daphne
Falvo, Alexandria
Dr. Nate Sutter
- 43 Falvo, Alexandria
- 44 Chen, Jaden
Carpio, Dylan
- 45 James, Rebecca
- 46 Johnston, Natalie
- 47 Munoz, Sarah
- 48 Enriquez, Elisaelena
- 49 Viray, Danielle
- 50 Darrett, Duane
- 51 Usery, Tabitha
Vaca, Madelyn
- 52 Hubbard, Jennifer

R.E.W - 2023

Price Science Complex hallway map to poster locations by number.

Top Floor hallways



↑
to Palmer Hall

to Cossentine Hall



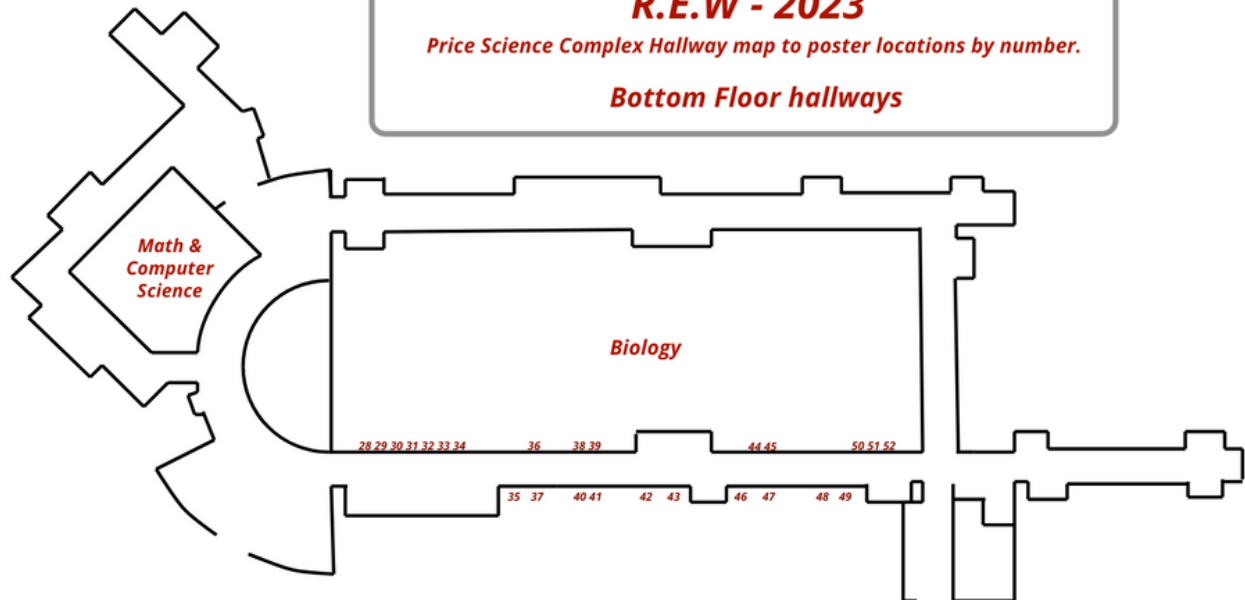
to Cossentine Hall



R.E.W - 2023

Price Science Complex Hallway map to poster locations by number.

Bottom Floor hallways



to Palmer Hall

