

Undergraduate Research Journal

Volume XI • Issue 1 • 2018-19

University of California, Merced

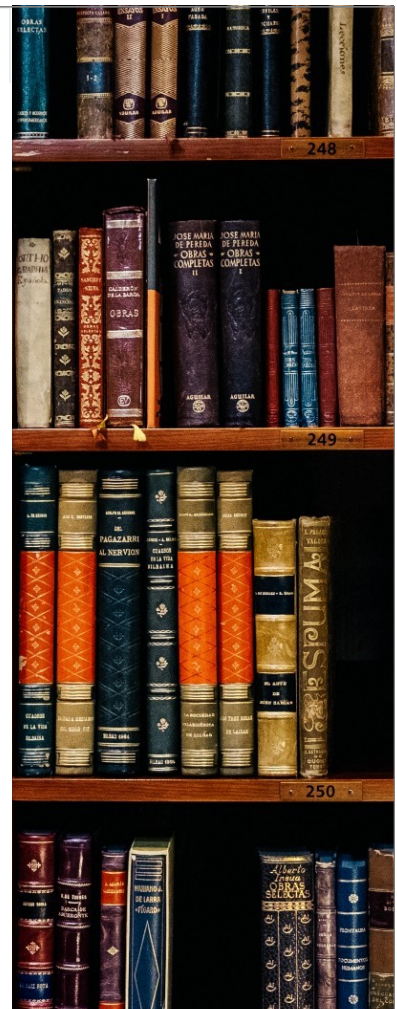


University of California Merced

UNDERGRADUATE RESEARCH JOURNAL
VOL. XI ISSUE I | 2018-2019

The editorial staff of the *University of California, Merced Undergraduate Research Journal*, more commonly known as the *URJ*, is proud to present the Academic Year 2018-2019 edition of the journal. The *URJ* selectively publishes the works of UC Merced undergraduate students in an effort to give our best student researchers and writers the widest possible platform for exposure. In this issue of the *Undergraduate Research Journal*, we continue the tradition of publishing excellence in research by presenting ten projects from UCM students across our campus's academic disciplines. These authors' texts exemplify the high standards that all UC Merced undergraduates should strive to achieve in their scholarly endeavors.

- URJ Editorial Staff



INSIDE THIS ISSUE

2018-2019 KAREN MERRITT AWARD WINNER

The Karen Merritt Award recognizes the author of the outstanding research essay published in a particular issue of the *UC Merced Undergraduate Research Journal*. The editors have selected Alexander Deary's "CRISPR V Culture" as the recipient of the Karen Merritt Award this issue. Deary's clear-eyed exploration of the recent radical advances in the science of germline gene editing is balanced by his trepidation regarding the ramifications of having crossed this scientific Rubicon. "CRISPR V Culture" issues a clarion call to the genetics community, urging it to consider the weighty ethical implications of pushing too far too quickly. For that reason, and for the clarity with which it explains the science of germline gene editing to lay readers, Deary's article is an exemplar of the type of scholarship that the Karen Merritt Award is intended to spotlight.

Editors & Staff

Matt Snyder
Faculty Advisor

Emilie McCall
Managing Editor

Xotchitl Garibay
Associate Editor

Lizbeth Herrera Martinez
Section Editor

Alyssa Jacala
Section Editor

Arby Mariano
Section Co-Editor

Chloe Ray
Section Editor

Anson Nguyen
Co-Art Director

Teagan Zuniga
Co-Art Director

Samantha Villarreal
*Layout and Design
Digital Operations Director
Editor*

Jazmin Martir
*Secretary/Treasurer
Editor*

Laurence Morgan
Events Coordinator

Subhalakshmi Balaji
Editor

Jeffrey Mai
Editor

Alexis Pacheco
Editor

Jesus Ramirez Pineda
Editor

Alexander Ramirez
Editor

Cosette Rosales
Editor

Julie Vang
Editor

Victoria Zuniga
Editor

TABLE OF CONTENTS

2018-2019 Karen Merritt Award Winner

CRISPR V Culture
Alexander Jay Deary

The Evolutionary Significance
of Fever in Immune Response
Sheikha Ali

The Importance of
(Accessible/Private) Office
Space
*Erik Barajas, Ahtziri Cabrera,
Uriel Houston, Taylor Marr,
Arly Nino, Manuel Toro*

How Sadistic Behavior
and its Correlation to
Sexual Coercion Leads to
Fetishes and Sexual
Aggression
*Jorge Beltran, Vilma Jeaneth
Flores, Eva Ordonez*

Implementation of Steward-
ship Programs in Hospitals:
Systematic Review
Vanessa Funes

Online Social Networking and
Its Effects on Young Adults
Yi-Hsuan Lee

Patient's Health: The Number
One Priority in the Treatment
of Cancer
Jacqueline Leon

Gender Dysphoria and
Sexual Reassignment: A
Health Review on Post-
Operative Individuals
Reynaldo Martinez Jr

Classifying Human Emotion
Using Convolutional Neural
Networks
Jonathan L. Moran

Literature Review: The Effects
of a Gluten and Casein Free
Diet on Children with Autism
Spectrum Disorder
Jessica Perez