2020 CNAS Virtual Undergraduate Research Symposium Winners

Biology: Ecology, Wildlife and Conservation

1st Place: Kaylene Reyes

DOES THE ELEMENTAL COMPOSITION OF NORTH AMERICAN GRAPEVINES

REFLECT THEIR ENVIRONMENTAL ADAPTATION.

Faculty Advisor: Dr. Laszlo Kovacs

2nd Place: Abilene Mosher

BUMBLE BEE BUZZ POLLINATION BEHAVIOR IS ELICITED, BUT LIKELY NOT

MANIPULATED, BY ANTHER CHEMICAL CUES.

Faculty Advisor: Dr. Avery Russell

Biology: Cellular, Microbiology and Genetics

1st Place: Victoria Davenport

AN ASSESSMENT OF InP/ZnS AS POTENTIAL ANTI-CANCER THERAPY:

QUANTUM DOT TREATMENT INDUCES STRESS ON HeLa CELLS

Faculty Advisor: Dr. Kyoungtae Kim

2nd Place: Nayeon Son

HOW DOES NLRP2 CONTROL FETAL DEVELOPMENT?

Faculty Advisor: Dr. Christopher Lupfer

Honorable Mention: Glory Ehie

MYOSIN 2'S EFFECT ON Vps10 AND Snc1 TRAFFIC.

Faculty Advisor: Dr. Kyoungtae Kim

Chemistry

1st Place: Giselle Campos

NMR STUDIES OF POLY(ETHLENE GLYCOL) - POLY(LACTIC ACID) (PEG-PLA)

BLOCK COPOLYMER MICELLES AT DIFFERENT TEMPERATURES

Faculty Advisor: Dr. Keiichi Yoshimatsu

2nd Place: Autumn Pilarski

1H SOLUTION NMR ANALYSIS OF A NON-PALINDROMIC DNA SEQUENCE

CONTAINING A U:G MISMATCH Faculty Advisor: Dr. Gary A. Meints

Geography, Geology, and Planning: Geology

1st Place: Hannah Eads

IMPORTANCE OF COARSE SEDIMENT FOR ASSESSING METAL CONTAMINATION FROM HISTORICAL MINING IN BIG RIVER, SE MISSOURI

Faculty advisor: Dr. Robert Pavlowsky

2nd Place: Dorian DeHart

GEOCHEMICAL ANALYSIS OF SULFATES (NEPHELOMETRIC) AND CHLORIDES (TITRIMETRIC/ARGENTOMETRIC) WITHIN THE SPRINGFIELD SHALLOW AQUIFER

Faculty Advisor: Dr. Melida Gutierrez

Hospitality Leadership

1st Place: Chelsey Traylor

TOURISTS' PERCEPTIONS OF DOMINCAN REPUBLIC Faculty Advisor: Dr. Yoshimasa "Nancy" Kageyama.

Physics, Astronomy and Materials Science

1st Place: Meredith Vogel

ORBIT PERTURBATIONS OF HABITABLE ZONE PLANETS AND IMPLICATIONS

FOR HABITABILITY

Faculty Advisor: Dr. Sarah Morrison

2nd Place: Yadira Gaibor

CONSTRAINTS ON WARM JUPITER FORMATION AND EVOLUTION FROM

PLANETARY COMPANIONS

Faculty Advisor: Dr. Sarah Morrison

Honorable Mention: Tyler McGilvry-James

REFERENCE-FREE INTERATOMIC POTENTIAL DEVEOPMENT AND MODELING

OF TRANSITION METAL CARBIDES Faculty Advisor: Dr. Ridwan Sakidja