



WISCONSIN

LUTHERAN COLLEGE

UNDERGRADUATE RESEARCH SYMPOSIUM SCHEDULE OF EVENTS SATURDAY, APRIL 26, 2025 · GENERAC HALL (LOWER-LEVEL)

TIME	CLASSROOM S011	CLASSROOM S010	CLASSROOM S009
8:00	ALEXANDER GREGORIUS [A. EBELING] Agrobacterium Tumefaction of the Zinc Transport Enzymes ZIP1 and ZIP3 Allows for a Hyperaccumulation of Zinc in Agricultural Plants Causing Root Allelopathy	LOGAN HENNEN [WITZ] Cutting Down Complexity: Methods for Dimensionality Reduction	LYDIA WITTHUHN [DEGNER] Impact of Nitrates, Phosphates, and Light Diffusion on Eurasian Watermilfoil Phenotypic Expression
8:20	ALISSA KEOHAVONG [HENDEE] Zebrafish Modeling Hypoparathyroidism Treatment with Induced Renal Defect Symptoms Seen in DiGeorge Syndrome	SILAS EBELING [T. BROWN] Predicting Energy Generated by Solar Panels from Efficiency Constant	MARINA KRISTL [DEGNER] Sperm Composition Change in <i>Aedes aegypti</i>
8:40	FAITH BOERNER [HENDEE] Assessing the Impact of Oral Contraceptive Use with Inflammatory Markers: A Review	ALYSSA EBELING [MEYER] Galois Theory: Solving Millenia-old Geometric Problems	MARISSA HENNIG [DEGNER] Conditioning Madagascar Hissing Cockroaches to Detect Allergens
9:00	LEAH DERONJA [HENDEE] Effects of IL-10 and NK-lysin 4 Knockdown as a Zebrafish Relapsing Polychondritis Model	MEGAN GROW [T. BROWN] Modeling Financial Savings from Energy-Conserving Home Upgrades	AIDAN NEWBERG [DEGNER] Extraction and Identification of eDNA from <i>Spongilla lacustris</i> Samples
9:20	BREAK		
9:35	KEYNOTE ADDRESS BY DR. JOEL DAVIS (S011)		
10:20	ALYSSA BIVENS [WERNER] The Identification of Microbes with Antibacterial Properties from Biosolids	AIDAN NEWBERG [MEYER] The Story of Axiomatic Set Theory	SAMUEL STUEBS [SLAKER] The Acute Effects of Mindfulness Meditation on Attention and Working Memory
10:40	JAYLA SEMONS [WERNER] Dental Microbes: In Relation to Cutural Diet	RYAN HENNING [T. BROWN] Exploring Energy and Emission Impacts from Energy-Conserving Home Upgrades	EMMA STROHM [CLOSE] The Effects of Adverse Childhood Experiences and Social Support on Blood Pressure and Mental Health
11:00	SOPHIA KERKOW [WERNER] The Effects of Estradiol on Oral Bacterial Strains <i>Streptococcus salivarius</i> and <i>Streptococcus mutans</i>	EMILY BUCH [MEYER] Introduction to Knot Theory: How To Untie Your Shoelaces	KAYLEE CADEAU [PARKER FEDEWA] Band-Aids Don't Fix Bullet Holes: The Language and Rhetoric of Individual Responsibility in Wellness
11:20	KAYLA HANSON [HENKEL] Expression and Characterization of Thiamine Pyrophosphate Gene in <i>Chlamydia trachomatis</i> L2	RICHARD HILL [KUEHN] Astrophotography	JULIA FAUGHT [FARLEY] Agency and Identity in the Performance of 'Folk'