

University of Wisconsin — Madison  
Presents

# Undergraduate Symposium 2008

Celebrating Research,  
Creative Endeavor,  
and Service Learning

Wednesday, April 16, 2008  
9:45 a.m. to 4:00 p.m.  
Great Hall, Memorial Union

## **Schedule**

### **9:45 a.m.**

Welcome to Student Participants by Vice Provost  
for Teaching and Learning Aaron Brower  
Address by Professor Robert Skloot, Great Hall

### **11:45 a.m.**

Keynote Address by Chancellor John D. Wiley  
Presentation of Library Research Awards  
Raffle for Student Participants, Great Hall

### **10:00 a.m. – 4:00 p.m.**

Posters and Displays, Great Hall

### ***Oral Presentations and Poster Sessions***

Session I, 10:00 a.m. – 11:30 a.m.

Session II, 12:00 p.m. – 1:30 p.m.

Session III, 2:00 p.m. – 3:30 p.m.

Refreshments will be available throughout the day  
in the Main Lounge.

***Please note that some projects may be presented during a  
Different session than listed in this schedule.***

## **Performances**

*All performances will be held on the stage in Great Hall.*

**9:55 – 10:15 a.m.**

Julia Marion: THE GENESIS AND SIGNIFICANCE OF THE BASSOON CONCERTOS OF ANTONIO VIVALDI

**12:00 p.m. – 12:20 p.m.**

UTA PRESENTS BRING ME TO LIGHT

**1:30 p.m. – 1:45 p.m.**

UW-DANCESPORT TEAM- BALLROOM DANCING

## Oral Presentations

### **Session I, 10:00 a.m. – 11:30 a.m.**

#### ***Inn Wisconsin East, 2nd Floor***

Amy Powis: BEYOND SURVIVAL: FOOD EXPERIENCES IN MARY ROWLANDSON'S CAPTIVITY NARRATIVE  
Jennifer Lachowiec: CHARACTERIZING MUTANTS DEFICIENT IN NUCLEAR RNA INTERFERENCE  
Meagan Stilp, Molly Reddy: INTERNATIONAL EXPERIENCES IN A CHANGING WORLD  
Lisa Christian: Exploring the role of the PIPKIg707/SNX5 complex in E-cadherin trafficking  
Jenny Golden: MAPPING KISSPEPTIN LEVELS WITH A MICRODIALYSIS METHOD IN THE MEDIAN EMINENCE IN RHESUS MACAQUES

#### ***Inn Wisconsin West, 2nd Floor***

Alexandra Schulp: PEDIATRIC BRAIN DEVELOPMENT AND NEUROCHEMICALS MEASURABLE BY MAGNETIC RESONANCE SPECTROSCOPY  
Kelly Schlicht: Getting Personal on  
Claire Flanagan: Glycosaminoglycan-Polyurethane Copolymers as Biomimetic Vascular Materials  
Peter Debbink: CivWorld: The Uses of Civilization III in Education and Curriculum  
Muzammil Hussain: Developing Democracies in the IT Revolution: Indian iCafés & Civil Society

#### ***Profile Room, 2nd Floor***

Jeremy Berg: PRIOR EXPERIENCE AND THE EMERGENCE OF MARKET LOGICS IN THE US WHOLESALE ELECTRIC POWER MARKET  
Sunyoung Park: PEDIATRIC BRAIN DEVELOPMENT AND NEUROCHEMICALS MEASURABLE BY MAGNETIC RESONANCE SPECTROSCOPY  
Amanda Riek: PEER SEXUAL HARASSMENT VICTIMIZATION, EATING DISORDERS, AND QUALITY OF MOTHER-DAUGHTER RELATIONSHIPS  
Justin Knoll: Private Military Companies and their Effect on International Politics  
Claire Flanagan, Kevin Hart: Development and Testing of a Device Intended for Efficient and Safe Aneurysm Treatments

#### ***Tripp Commons, 2nd Floor***

Barbara Heindl, Rachel Guy, Paul Schilke: ECOLOGICAL AND ECONOMIC SUSTAINABILITY OF ECOTOURISM IN MEXICO  
Kristina Stanek: TORTURED BY FASHION: REINTRODUCING A BRUTAL PAST TO A NEW GENERATION  
Sreenath Pillai: Ribosomally Associated Chaperones in yeast: SSZ, ZUO: Vital to protein folding?  
Claire Flanagan: DEVELOPMENT AND TESTING OF A DEVICE INTENDED FOR EFFICIENT AND SAFE ANEURYSM TREATMENTS  
Daniel Hawk: EXPLORING AN EASY WAY TO TEACH COMPUTER SCIENCE  
Meaghan Brody: A Comparative Analysis of National Initiatives Aimed at Developing Embryonic Stem Cell Technology

#### ***Beefeaters Room, 3rd Floor***

Lili Prah: CREATING A WEBSITE FOR THE WILDLIFE ECOLOGY 375 MEXICO COURSE  
Mandy Feavel: CREATING A WEBSITE FOR THE WILDLIFE ECOLOGY 375 MEXICO COURSE  
Erika Hutz: EFFECTS OF MENOPAUSE ON KISSPEPTIN EXPRESSING NEURONS IN THE MBH IN FEMALE RHESUS MACAQUES  
Andrew Miller: PRIMARY TEXTS REGARDING THE HAITIAN REVOLUTION  
William Sharpee: QUORUM SENSING AND MORPHOLOGICAL TRANSITIONS IN THE FILAMENTOUS FUNGUS ASPERGILLUS FLAVUS

## **Session II, 12:00 p.m. – 1:30 p.m.**

### ***Inn Wisconsin East, 2nd Floor***

Amy Moser: CHINESE NEO-IMPERIALIST TRADE IN AFRICA

Isabella Lau, Madeline Hartjes: EARTH CENTER: FOR A UNIFIED 'GREEN' COMMUNITY

Fawn Houck: ETHNOMATHEMATICS: ENGAGING STUDENTS OF COLOR FOR ACADEMIC SUCCESS

Alicen Nelson, Vijay Prasad: Reducing the Burden of Disease: Diabetes Prevention on Allied Drive

Kate Dielentheis, Katherine Gielissen: BIOCORE OUTREACH AMBASSADORS: REACHING OUT TO IMPROVE RURAL SCIENCE EDUCATION

### ***Inn Wisconsin West, 2nd Floor***

Nicole Helmke: CHANGES TO NON-CONTACTED BASES HAVE A STRONG EFFECT ON COOA PROTEIN DNA-BINDING AFFINITY

Nicholas Turner: Mechanisms of Gene Transfer in the Pathogenic Neisseria

Chaya Nayak: Private Military Corporations and International Politics

Dario Rodriguez: The Privatization of Security and Human Rights in The Americas

Carnes Jeff: THE TRANSITION FROM THE COMBAT ZONE TO CAMPUS: A PRELIMINARY STUDY OF VETERANS IN THE CLASSROOM

### ***Profile Room, 2nd Floor***

Megan McGuire: THE PROMISES AND PITFALLS OF FORMALIZING RECYCLING IN BUENOS AIRES, ARGENTINA

Sehrish Rana, Carrie Miller: TOWARD DEVELOPMENT OF A NEW DIAGNOSTIC TEST FOR POLYCYSTIC OVARY SYNDROME

Laura Sheets: BLACK AND WHITE ISSUE? THE ROLES OF CONTROL AND MOTIVATION IN PERPETUATING PREJUDICE

Sarah Koeppen: ADAPTATION OF DENGUE VIRUS TO MOUSE VISCERAL ORGANS

Julie-Anne Spatz: ASSESSING VARIOUS REPEATED READING TECHNIQUES

### ***Tripp Commons, 2nd Floor***

Tyler Marcus: SUPPLY CHAIN MANAGEMENT IN STREET MARKETS

Estephany Escobar: FORMANDO LAZOS: IMMIGRANT PARENTS AND CHILDREN OF IMMIGRANTS

Dario Rodriguez: The Privatization of Security and Human Rights in The Americas

Lynn Gilbertson: Auditory Preference of Children with Autism

Christine Penn: THIRD-PERSON EFFECT, POLITICAL ADVERTISEMENTS, AND INTENTION TO VOTE AMONG COLLEGE STUDENTS

### ***Beefeaters Room, 3rd Floor***

Kevin Kohl: DIET-INDUCED PLASTICITY IN INTESTINAL MALTASE ACTIVITY IN NESTLING HOUSE SPARROWS DURING DEVELOPMENT

Carolyn Levitt: SEX DETERMINATION IN THE LIMBS OF CROCODILIANS AND HOW IT MIGHT HELP IDENTIFY THE SEX OF DINOSAURS

Omar Arreola: FORMANDO LAZOS: IMMIGRANT LATIN@S RAISING THEIR CHILDREN IN THE UNITED STATES

Alexander Reed Graf: STRESS REGULATION IN INCARCERATED ADOLESCENTS

Samantha Nagy, Andrew Kellner: TOY OR SPADE: ASSESSING EFFECTIVENESS OF MEDIUMS FOR ENVIRONMENTAL EDUCATION IN MEXICO AND THE US

Aaron Lipsett: Charles River Apparel. The Evolution of a successful family business: Past, Present and Future.

## **Session III, 2:00 p.m. – 3:30 p.m.**

### ***Inn Wisconsin East, 2nd Floor***

Meghan Tauber, Emily Leibold: Engaging Elementary Students in After School Science Clubs

Ho Ling Li: Study of the Reactor Antineutrino Spectra Measured in the Daya Bay &#952;13 Experiment

Ziyi Wang: EFFECT OF IN VITRO GEFITINIB TREATMENT ON MUTANT T790M EGF RECEPTOR ACTIVITY

Steven Cook: SCREENING AND CHARACTERIZATION OF CYTOKINESIS REGULATORS IN C. ELEGANS  
Erin Collins: MIGRANT NORMS AND NETWORKS IN HO CHI MINH CITY'S INFORMAL ECONOMY

***Inn Wisconsin West, 2nd Floor***

Stephanie Koczela: MATERNAL HEALTH CARE SEEKING IN MATHARE VALLEY  
Eric Victor: Sequencing and Subcloning of the CHXE gene in a Carrot (Daucus Carota) BAC  
Kelly Connell, Srdan Gajic: SIMULATION STUDY REGARDING FORCES THAT CHANGE GENE FREQUENCIES  
Heather Hestekin: PREDICTORS AND PSYCHOLOGICAL PROFILE OF SITUATION-SPECIFIC DISORDERED EATING IN ADOLESCENT GIRLS  
Justin Balthazor: CEO compensation and risk taking: CEO pay comparisons, uncertainty, and acquisition behavior.

***Profile Room, 2nd Floor***

Alex Leites: GENIUS ETHICISTS: HOW ANCIENT WRITERS PRESERVED ORAL TEACHINGS THROUGH SOCIOPOLITICAL DECLINE  
Asad Asad, Rashid Dar, Amjad Asad, Megan McGuire, Maria Putzer, Adam Lichtenheld, Ann Babe, Daniel Knudsen, Rachel Mehlhaff, Kyle Dropp, Kris Ugarriza, Emma Condon, Jeffrey Wright: The Journal of Undergraduate International Studies  
Artur Oliveira: Private Military Corporations and International Politics  
Phueng Cha: INTEGRATING EDUCATIONAL STRATEGIES INTO PATIENT CARE: OBSERVATIONAL STUDY OF OUTPATIENT PHARMACISTS  
Seve Ponce de Leon: THE HARD FACTS BEHIND SOFT DRINKS

***Tripp Commons, 2nd Floor***

Grant Teply: PREDICTED NEUTRINO FLUXES IN THE ICECUBE NEUTRINO OBSERVATORY FROM COSMIC RAY SOURCES  
Brian Cole: DEVELOPMENT OF A PLASMID OVER-REPLICATION-BASED ANTIMICROBIAL SCREEN  
Jerrod Walker: WRITING ETHICALLY  
Patrick Mende: Ultrasonic Measurements in the Daya Bay Antineutrino Experiment  
Francesca Norante, Mohamed Nasereldin: SPINAL CORD INJURY AND NEUROPATHIC PAIN RESEARCH: ANTIHYPERALGESIC EFFECTS OF CANNABINOID AGONISTS

***Beefeaters Room, 3rd Floor***

Michael Rogers, Ari Eisenstat, Eric Sitman: Ethical Dilemmas in Family Businesses  
Nicholas Burton: The role of PSTPIP1 in podosome formation and PAPA syndrome  
Maxwell Eva, Victoria Vasys, Kristen Roewer: THE U.S.-MEXICO BORDER AS A MICROCOSM FOR ENVIRONMENTAL JUSTICE ISSUES  
Stefanie Jones: EPIGENETIC MODIFICATION OF PAX6 GENES IN NEUROEPITHELIA INDUCTION FROM HUMAN EMBRYONIC STEM CELLS

## Posters

**Posters will be displayed in Great Hall, Class of 1924 Reception Room, Langdon Room, Capitol View Room and Main Lounge**

### **Session I, 10:00 a.m. – 11:30 a.m.**

*Student(s), Title, (Poster Number)*

- Kimberly Peters: IMPACT OF A HEART ATTACK ON THE LIVES OF YOUNGER-AGED WOMEN (4)
- HyunKyung (Chloe) Lee: EFFECT OF CONTROLLED RELEASE FERTILIZATION ON NITROGEN LEACHING AND MORPHOLOGY IN RED PINE SEEDLINGS (7)
- Sara Krizan: DEGRADATION OF PATHOGENIC PRION PROTEIN IN LANDFILL LEACHATE USING ALKALINE BURIAL MATERIALS (18)
- Carlos Gil del Alcazar: FUNCTION OF FOXQ1 IN THE PROCESSES OF LEARNING AND MEMORY (22)
- Xinwei Luo: THE BIOCHEMICAL CHARACTERIZATION OF A TRANSLATIONAL REPRESSOR (24)
- Brooke Moungey: Kv11.1 and MiRP1 are Transported to the Cell Surface in Distinct Pathways (25)
- Matthew King: EVALUATION OF AN ELECTRONIC AMMONIA-REMOVAL DEVICE TO REPLACE BIOFILTERS IN HOME AQUARIUMS (26)
- Erin Goodchild: CONNECTING FAMILIES AND THEIR BUSINESSES: FAMILY MEETINGS (27)
- Amanda Turek: COPPER(II)-CATALYZED INTRAMOLECULAR C–H AMIDATION OF OXAZIRIDINES (28)
- Kittikhun Wangkanont: MULTIVALENT GLYCOMIMETIC INHIBITORS FOR PROBING THE FUNCTION OF DC-SIGN (29)
- Joshua Moon: THE UNEXPECTED ROLE OF ACTION IN INFANT WORLD LEARNING (31)
- Raman Kuty: EVOLUTION OF SPURGE FLOWERING STRUCTURES (34)
- Emily Nuss: ASSOCIATIONS BETWEEN SLEEP QUALITY: BODY SIZE AND EATING BEHAVIOR IN COLLEGE STUDENTS (35)
- Colby Cantu: Exploring the role of *Medicago truncatula* CASTOR in legume nodulation and endomycorrhization (36)
- Caitlin Gilbert: YOUNG WOMEN'S PSYCHOLOGICAL RESPONSE TO ABORTING A FIRST PREGNANCY (37)
- Blenda Chiu: THE USE OF IMMANENT JUSTICE AND BELIEF IN A JUST WORLD PRINCIPLES IN POVERTY SITUATIONS (38)
- Kyle Dropp: WHEN DO CANDIDATES GO NEGATIVE? (39)
- Elizabeth Chen: A THIRD CONSCIOUSNESS: THE IMPACT OF CHINESE CULTURE ON CUBAN LITERATURE AND ART (40)
- Matt Pesko: INCREASING ECONOMIC OPPORTUNITIES FOR INDIVIDUALS WITH DISABILITIES IN NORTHWEST: RURAL WISCONSIN (42)
- Kathryn Silberzahn: The Effectiveness of an HIV/AIDS Curriculum in Grade Four in Mozambique: Africa (47)
- Jasmine Timmons: Adolescents' Decision Making about Disclosure to Parents (49)
- Meghan Reppen: THE INTERACTION OF TAT BINDING PROTEIN 1 AND THYROID HORMONE RECEPTOR (53)
- Sarah Maria Donohue: CONVERSATIONS IN ADULTS WITH TRAUMATIC BRAIN INJURY (54)
- Jesse Bauwens: Embryonic Signal Directed Differentiation of Ep-CAM+ Mouse Endoderm Progenitor Cells (56)
- David Baumann: Rapid Action of Estrogen (E2) in Primate Luteinizing Hormone Releasing Hormone (LHRH) Neurons (71)
- Samantha Hoffman: THE MANY STREAMS OF THE MAGELLANIC STREAM (73)
- Christa Pittner: EFFECTS OF IRON DEFICIENCY AND ERYTHROPOIETIN ON TRANSFERRIN RECEPTOR CONCENTRATION IN RAT DUODENUM (77)
- Agnes Patenaude: DEPRESSION AND STIGMA IMPACT ON EARLY TREATMENT ACCEPTANCE IN YOUNG KENYA WOMEN DIAGNOSED WITH HIV (80)
- Sarah Schmid: SCREENING OF *S. Suis* ISOLATES BY PCR FOR THE PRESENCE OF PAI ASSOCIATED WITH HIGH VIRULENCE (81)

Alice McCarthy: ZEBRA MUSSELS VS. QUAGGA MUSSELS: DIFFERENCES OF SUBSTRATE ATTACHMENT IN FLOW (83)

Ya Lin: INFLAMMATORY RESPONSE AND COLLAGEN TURNOVER FOLLOWING PULSED DYE LASER TREATMENT OF VOCAL FOLDS (91)

Ashley Kemnitz: EXAMINING RELATIONSHIPS BETWEEN MEASURES OF SPIRITUALITY AND PHYSICAL HEALTH (92)

Philip Thomas: The Effect of Weather on Ground Level Ozone at Coastal and Inland Midwestern Sites (94)

Sachi Horibata: THE ROLE OF MUC16'S TANDEM REGIONS IN MESOTHELIN BINDING AND SPREAD OF EPITHELIAL OVARIAN CANCER (97)

Garrett Lee: James Thomson: Ka Yi Ling: Srikumar Sengupta: STUDYING THE EVOLUTION OF STEM CELLS USING THE MODEL ORGANISM TRICHOPLAX ADHAERENS (100)

Pam Legare: Lori Bills: The Galactic "Rain": High-velocity clouds around the Milky Way (103)

James Birrell: Progress toward the total synthesis of spicamycin via a ring-closing metathesis strategy (109)

Michael Line: Morphology and Velocity Structure of the Lunar Sodium Tail (111)

Pamela LeGare: Lori Bills: Tobin Morrison: Occupational Therapy Space Remodel (114)

Rebecca Gilsdorf: EDUCATION IN POST-APARTHEID SOUTH AFRICA: GENDER AND RACE DISPARITIES AS A VIOLATION OF HUMAN RIGHTS (116)

Ashley Jacobsen: ELECTRONIC PERTURBATION OF THE COPPER(II)-CATALYZED AMINOHYDROXYLATION OF ALKENES (122)

Diane O'Brien: EFFECTS OF TRENBOLONE ON FINAL OOCYTE MATURATION IN FATHEAD MINNOWS (125)

Jason Huberty: Kinetics study on phase transformation from titania polymorph brookite to rutile (127)

Rashid Dar: Designing Centers of Expertise for Academic Learning Through Video Games (128)

Jacob Cychosz: VALIDATION OF MICROWAVE RADIOMETER MEASUREMENTS OF ATMOSPHERIC TEMPERATURE AND WATER VAPOR (132)

Gao Yang: Hannah McDougall: MATERNAL DEPRESSION AND SLEEP CONSISTENCY IN PRETERM AND LOW BIRTHWEIGHT INFANTS (138)

Serge Margovsky: GEOPOLITICAL IMPACTS OF THE BRONZE NIGHT IN ESTONIA (139)

Keri Drake: Molly Sauerbry: EFFECTS OF IRON DEFICIENCY ON RENAL DEVELOPMENT IN EARLY LIFE (148)

Ashley Brown: Amjad Asad: Steven Siegelbaum: Coding New York Times Coverage of Civil Rights Protest: 1930-1956 (151)

Jason Habeck: EFFECTS OF A UTERINE RESTRICTION MODEL ON FETAL KIDNEY DEVELOPMENT IN SHEEP (153)

Mona Mogahed: EGYPTIAN RESPONSES TO EXECUTION OF SADDAM HUSSEIN: RHETORIC: THE DIALOGIC: & GRIEVANCES AGAINST THE U.S. (159)

John Beirne: GENETIC ANALYSIS OF SECA1 and SECA2 FUNCTION IN ARABIDOPSIS THALIANA (161)

Sally Merckx: Marco Spada: Differences in Family Owned and Corporate Restaurants (163)

Deanna Downs: INVESTIGATING THE CELLULAR ROLE OF THE YJGF PROTEIN BY ANALYSIS OF SUPPRESSOR MUTATIONS (165)

Xao Yang: Flame Tube (168)

Sami Kirzner: REPEATED READING INTERVENTION (169)

Helen Holden: Jennifer Arens Gubbels: THE ROLE OF THE IMMUNOCYTOKINE: KS-IL2: IN STIMULATING NK CELL MIGRATION TOWARDS OVARIAN TUMOR CELLS (172)

Dennis Fournogerakis: HOST-GUEST CHEMISTRY WITH CUCURBITURIL (175)

Matthew Iodice: Andrew Jacobs: Jordan Schneider: A FIRST HAND LOOK AT NON-FAMILY CEOS IN FAMILY BUSINESSES (176)

Valerie Schmidt: Nicole Witt: Anne Thurow: Aviva Levi: THE LINK BETWEEN PARENTAL SUPPORT: STRESS LEVELS: COPING MECHANISMS: AND PSYCHOLOGICAL ADJUSTMENT (177)

Janie Yang: Identification of candidate distal-less target genes using microarray expression analysis (178)

Ian Hanson: Improving characteristics of concrete using nanoparticle coating techniques (189)

Chen Xiyang: Towards Systematic Classification of Genetic Mutations in Arabidopsis thaliana (190)

Zina Knox: META-ANALYSIS STUDY ON CAREER EDUCATION AND ACADEMIC PERFORMANCE (192)

Mitchell Dyer: VAV-CRE TRANSGENIC MICE: MAPPING THE CRE INSERT GENE TO CHROMOSOME 12 (193)

Steven Schumacher: SIBLING MICROCHIMERISM (198)

Ashish Verma: Validation of the Solid Modeling Process: Creating Models from CT Data (200)

Jacob Naughton: ACTION IN SUDAN (201)



Nicole Hamers: Mark Romportl: DIABETES MELLITUS IN A HMONG POPULATION OF A MID-SIZED MIDWESTERN COMMUNITY (202)  
Nicole Hamers: Health Needs Assessment of Hmong Americans in a Midwest Community (203)  
Alison Fisher: SIX- TO EIGHT-YEAR OUTCOMES OF YOUNG TO MIDDLE-AGED WOMEN AFTER A HEART ATTACK (204)  
Chris Repsa: DELIVERY OF MODERATE SEDATION BY NURSES DURING THREE GASTROINTESTINAL PROCEDURES: ADVERSE REACTIONS (205)  
Eric Procs: PROVIDING INTEROPERABILITY WITH RECENT ADVANCES IN THEATRICAL LIGHTING AND CONTROL SYSTEMS (210)  
Zoe Coleman: BULA BOOKS-CULTURAL AWARENESS & ACTION FOR CHILDREN (213)  
Adam Ericson: DISCUSSIONS ON ADVANCING REGENERATIVE THERAPIES (DART) (214)  
Sarah Gerds: CHARACTERIZATION OF T CELL RECEPTOR VARIATION AMONG HUMAN NATURAL KILLER T CELLS (219)  
Juan Fabela: Sub cellular localization of \*Medicago truncatula\* 3-Hydroxy-3-Methylglutaryl Coenzyme A Reductase1 (MtHMGR1) in \*Nicotiana benthamiana\* leaves and \*Medicago truncatula\* roots (220)

## **Session II: 12:00 p.m. – 1:30 p.m.**

*Student(s): Title: (Poster Number)*

Katharine Sappey: SIBLING START-UP'S: CREATING A BUSINESS WHILE PRESERVING THE RELATIONSHIP (1)  
Robert Kneeland: Slow Activation of hERG Channels (3)  
Michael Dreis: The Effect of Essential Gene Knockouts on Chemotaxis and Decision Making in E. coli. (5)  
Michael O'Halleran: SEASONAL AND VEGETATIVE EFFECTS ON EARTHWORMS IN LAWNS OF MADISON: WI (6)  
Nghia Le: Huyen Hoang: Anh Duong: Anthony Austin: STEREOTYPE THREAT AND WOMEN'S MATH PERFORMANCE: GENDER IDENTIFICATION AND LOCUS OF CONTROL (9)  
Samantha Ziman: Jamie Burak: Natasha Fritsch: WHAT DO FAMILY BUSINESSES DO IN TIMES OF CRISIS? (10)  
James Campbell: Lobbying and Lawmaking in the Wisconsin Legislature (14)  
Nicholas D. Young: Convergent Measurement and Ability Modeling of Absolute Pitch Processors (15)  
Jennifer Czarny: Melissa Mellum: AN EXPLORATORY STUDY OF THE MATERNAL EXPERIENCE OF PERINATAL LOSS IN MULTIPLE BIRTH (16)  
Nicholas Rego: MILTON AND THE SELF: SUBJECTIVITY IN PARADISE LOST (17)  
Alyce Marsh: UW MADISON PRE-MEDICAL STUDENTS UNAWARE OF OPPORTUNITIES IN CLINICAL RESEARCH: A CASE STUDY (19)  
Melissa MacDonald: EFFECT OF GENETICALLY RAISING N-3 FATTY ACID LEVELS IN PORK ON LIPID OXIDATION DURING FROZEN STORAGE (23)  
Kathryn Hall: MEXICAN AMERICAN DEMOCRATS IN TEXAS 1960 - 1975 (33)  
Derek Lumbard: Zach Pflum: The Kindling Model of Epilepsy (43)  
Rachel Roiland: SYMPTOM CLUSTERS IN OLDER BREAST CANCER SURVIVORS (44)  
Yi Han Ng: SECOND SPHERE EFFECTS OF OXYGEN ACTIVATION IN STEAROYL-ACYL CARRIER PROTEIN &#8710;9 DESATURASE (48)  
Sarah Sanders: ACTIVITY-DEPENDENT HIPPOCAMPAL PLASTICITY & EPILEPSY (55)  
Kayla Menard: Isolation and Purification of an Antimicrobial Agent from Enterobacter gergoviae (58)  
Mitchell Brey: Jenny Arens: Gubbels THE ROLE OF THE IMMUNOCYTOKINE: KS-IL2: IN STIMULATING NK CELL MIGRATION TOWARDS OVARIAN TUMOR CELLS (65)  
Jay Luthar: ETHYLENE STIMULATED NUTRITIONAL ANALYSIS IN ARABIDOPSIS MUTANTS (68)  
Diana Dovorany: HOW INFANTS LEARN WORDS: THE ACQUISITION OF STRESS PATTERNS IN DISYLLABIC NONSENSE WORDS (70)  
Jacqueline Blank: Conversion of Biomass to 5-Hydroxymethylfurfural and Related Compounds (74)  
Mallory Huber: Amie Ziegel: Kathryn Connors: Sasha Williams: PERSONALITY: TEMPERAMENT AND COLLEGE STUDENTS' CHOICE OF LIVING ARRANGEMENTS (75)  
Alyce Marsh: UW MADISON PRE-MEDICAL STUDENTS UNAWARE OF OPPORTUNITIES IN CLINICAL RESEARCH: A CASE STUDY (76)  
Georgia Wolfe: Ashley Shade: Function versus composition: a novel method for characterizing bacterial communities (79)

Muthukumar Ramanathan: PREVENTION OF TYPE 1 DIABETES IN THE NOD MOUSE USING A VITAMIN D ANALOG (82)

Ismail Boukahil: THE ROLE OF DOPAMINE IN THE REINFORCEMENT OF AGGRESSIVE BEHAVIOR IN PEROMYSCUS CALIFORNICUS MICE (84)

Dirk Pearson: Alison Andreoff: ANALYSIS OF ESTATE PLANNING: BEST PRACTICES AND TOOLS REGARDING ESTATE PLANNING (85)

Emily Roth: A SEASONAL STUDY OF BIOCHEMICAL OXYGEN DEMAND IN WILLOW CREEK AS AN INDICATION OF WATER QUALITY (87)

Alex Antell: Interaction Between CAR-1 and the Endoplasmic Reticulum in *C. elegans* (90)

Lisa Daniels: THE EFFECTS OF GENETICALLY MODIFIED AND CHEMICALLY ALTERED FOOD ON PHYSICAL ACTIVITY LEVELS IN MICE (95)

Sona Son: IDENTIFYING BINDING PARTNERS FOR DROSOPHILA DGRIP79 (96)

Ali Bramson: STABILITY OF PALLADIUM NANOPARTICLES UNDER SIMULATED ENVIRONMENTAL CONDITIONS (101)

Brian Ray: THE ROLE OF HYPERSPECTRAL PHOTONICS IN COMBUSTION ENGINE EFFICIENCY (102)

Natalya Libo: PATERNAL BEHAVIOR INFLUENCES OFFSPRING ACROSS MULTIPLE GENERATIONS IN MALE CALIFORNIA MOUSE (108)

Lorenzo Zemella: Project to Create a Place Ontology for Wisconsin (110)

Casmir Turnquist: Mesenchymal stem cell therapy and its application to cerebral ischemia (112)

Anne Gottwald: NON-DESTRUCTIVE ESTIMATION OF NET PRIMARY PRODUCTIVITY FOR NINETEEN PRAIRIE SPECIES (119)

Elizabeth Elsmo: EFFECT OF RECREATIONAL TRAILS ON SONGBIRD BREEDING SUCCESS IN WISCONSIN FORESTS (121)

Ariel DeBroux: THE EFFECTS OF LAND MANAGEMENT ON NATIVE AND INVASIVE SPECIES DENSITIES IN THE LAKESHORE PRESERVE (126)

Peter Olesen: FAMILY-CONTROLLED PUBLIC COMPANIES: GOOD OR BAD NEWS FOR INVESTORS? (129)

Hannah Yang: TESTOSTERONE ADMINISTRATION IN POSTMENOPAUSAL WOMEN (130)

Mitchell Brey: THE ROLE OF TACC PROTEINS IN MITOTIC SPINDLE ASSEMBLY (133)

Alexandra Schulp: Julie Auerbach: WAYS TO AVOID THE EVIL SIDE OF NEPOTISM (136)

Jeremy Zimmerman: Maksim Stayetski: John Chao: An Analysis of Marketing and Public Relations Strategies and their Effects on Family Businesses (137)

Sophie Rupp: COMMUNICATION AND CONFLICT IN FAMILY BUSINESS BETWEEN FIRST AND SECOND GENERATION FAMILY MEMBERS (143)

Derek Powell: MATERNAL AGGRESSION AND BEHAVIORS OF DAMS STRESSED IN UTERO (145)

Maurice Demus: SCULPTURES REPRESENTING BLACK AFRICANS IN EARLY MODERN VENICE (147)

Nick Leaf: A FAST VOLTAGE PULSE GENERATOR FOR THE MEASUREMENT OF QUANTUM COHERENCE TIMES (150)

Tuyetnga Vo: The Infrastructure of Stem Cell Research in Singapore (155)

Sarah Tyree-Francis: Miller Lauren: Anna Clauson: Jena Hopper: PARENTAL CONFLICT: DIVORCE: AND ADULT CHILD INTIMATE RELATIONSHIPS (156)

Anthony Austin: STEREOTYPE THREAT AND WOMEN'S MATH PERFORMANCE: GENDER IDENTIFICATION AND LOCUS OF CONTROL BELIEFS (157)

Jonathan Rath: UNIFYING AND STRENGTHENING AMERICAN INDIAN STUDENTS AT UW-MADISON (164)

Hye Jung Cho: Krista Porchetta: Stephanie Fremstad: Greta Koch: BIRTH ORDER: PERSONALITY: AND INTELLIGENCE (166)

Chu Hao Chan: Hsin-Pei Liu: THE NEXT QUEENSHIP? : THE MESSAGE OF SUCCESSION TO THE THAI THRONE IN THE FILM "THE LEGEND OF SURIYO (171)

Ashley Gramza: THE EFFECT OF EDUCATION ON KNOWLEDGE AND ATTITUDE ABOUT SNAKES IN SAN ISIDRO: COSTA RICA (173)

Mallory Barnes: Jackie Martin: Melanie Mousing: HUMAN IMPACTS ON SEA TURTLES IN WESTERN MEXICO: CONSERVATION IMPLICATIONS (174)

Maria Kaltcheva: Characterization of Tau Phosphorylation during the Differentiation of Human Embryonic Stem Cells (180)

Nguyet-Minh Tran: TESTING CHAN-LAM COUPLING REACTION'S METHODOLOGY EXTENSION USING ALKYL AND ALKYNYL BORONIC ACIDS (184)

Alexis Guzman: FORMANDO LAZOS: EMPOWERMENT OF LATINO IMMIGRANTS THROUGH A COMMUNITY PROGRAM (186)  
Rachael Colpaert: IMPACT OF DIET ON INTESTINAL MORPHOLOGY OF DEVELOPING ZEBRA FINCH NESTLINGS (187)  
Angela Dunz: CAN MICRO FINANCE HELP THE ENVIRONMENT WHILE IMPACTING LIVES AND PRESERVING CULTURE? (188)  
Huyen Hoang: Nghia Le: PROJECT PLAYROOMS – KEY TO INCREASING DEVELOPMENT (191)  
Dorian Leafman: Grace Thornton: Douachong Lee: Sarrah AbuLughod: FACTORS ASSOCIATED WITH DIVERSITY-RELATED ATTITUDES IN COLLEGE STUDENTS (194)  
Hao Li: A SLOW RECA PROTEIN (196)  
Margo Sendelbach: BIOMECHANICS OF LANDINGS FOLLOWING ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION: ASSESSMENT OF KNEE FUN (206)  
Meghan Nechrebecki: THE EGFR AND SRC FAMILY KINASES COOPERATE IN ACQUIRED RESISTANCE TO CETUXIMAB (207)  
Kevin Campbell: MHC CLASS I SEQUENCE IDENTIFICATION AND EVOLUTIONARY IMPLICATIONS IN THE FILIPINO CYNOMOLGUS MACAQUE (208)  
Lacy Hanson-George: THE INTERSECTION OF RACE AND GENDER IN POLITICAL REPRESENTATION (209)  
Jared Mason: MASON BROTHERS' RED OWL: A PAST, PRESENT, AND FUTURE LOOK AT A FAMILY BUSINESS (212)  
Hannah Jurowicz: ETHNIC IDENTITY NEGOTIATION: A STUDY OF ADULT TRANSRACIAL ADOPTEES FROM KOREA (211)  
Kristina Braun: The Role of PGC-1 $\alpha$  in Adipocyte Differentiation and Fat Mobilization (215)

### **Session III: 2:00 p.m. – 3:30 p.m.**

*Student(s): Title: (Poster Number)*

Amanda Amodeo: Dynamin and RHO-1 play an important role during cytokinesis in *C. elegans* (2)  
Ryan Fox: TISSUE-ENGINEERING THE VOCAL FOLD EXTRACELLULAR MATRIX (8)  
Natalya Libo: Elizabeth Becker: PATERNAL BEHAVIOR INFLUENCES OFFSPRING ACROSS MULTIPLE GENERATIONS IN MALE CALIFORNIA MOUSE (11)  
Robert Korom: IMPROVING FAMILY HEALTH THROUGH A PARTNERSHIP WITH YMCA'S KIDZFIT AND HARAMBEE HEALTH HOUR (12)  
Stephanie Pedersen: CHARACTERIZATION OF WILD TYPE AND TSP1-/- LUNG ENDOTHELIAL CELLS (13)  
Nicholas Schafer: INVESTIGATION OF NEW NUMERICAL METHODS FOR MOLECULAR DYNAMICS SIMULATION (20)  
Pajin Ntaub Vang: EFFECTS OF GUM CHEWING ON ENERGY INTAKE AND EXPENDITURE (21)  
Tanjina Shabu: Physiological Role of MUC 16 in Ovarian Cancer (30)  
Adam Maus: Training Sparse Single Layer Feed-forward Neural Networks on Chaotic Data (32)  
Xuejiao Tian: THE EFFECT OF TRENBOLONE ON FATHEAD MINNOW EMBRYONIC DEVELOPMENT (41)  
Tu Anh Vo: EVALUATING COMPUTER PROGRAMMING LANGUAGES FOR CHILDREN (45)  
Arizona Jaramillo: EVALUATING COMPUTER PROGRAMMING LANGUAGES FOR CHILDREN (46)  
Sarah Li: DELETION OF IKK GENE DECREASES OBESITY IN MUS MUSCULUS (50)  
Kristen Jones: Aaron Heinen: Rogerio Fernando Cardoso: Sean Kalafut: WISCONSIN SMALL TELESCOPE ARRAY FOR RADIO WAVES (WSTAR): COMPARING INTERFEROMETRY TECHNIQUES (51)  
Xuejiao Tian: THE EFFECT OF TRENBOLONE ON FATHEAD MINNOW LARVAL DEVELOPMENT (52)  
Kaylene Fiala: William Marquardt: The Depiction of Off-Reservation Indian community life in Wood County in the Early Twentieth Century (57)  
Andrew Krohn: Jennifer Knack: INCREASING HYBRIDITY VIA CONTROL OF THE GAMETOPHYTIC SELF-INCOMPATIBILITY SYSTEM IN RED CLOVER (59)  
Megan Fork: MOUNTAIN PINE BEETLE HOST PREFERENCE IN LODGEPOLE VS. WHITEBARK PINE (60)  
Shauna Weiskotten: YOUNG CHILDREN'S ATTRIBUTIONS ABOUT NOVEL ACTIONS (61)  
Allison Strohm: REDUCED FERTILITY IN *cngc2* PLANTS IS DUE TO A SPOROPHYTIC DEFECT (62)  
Yolanda Purdy: Mami Wata and La Sirène: The Goddess' Place in Zairian and Haitian Popular Culture (63)  
Agnieszka Kubica: THE ROLE OF NEONATAL TESTOSTERONE IN THE DEVELOPMENT OF CAROTID BODY MORPHOLOGY IN MALE RATS (64)

Ashley Rusch: Elisabeth Berkelman: Laura Maszak: Jaclyn Hanson: Nicole Hilgendorf: Sara Eckerman: Roxana Peters: Lindsey Nor: Jessica Young: Aaron Ziltener: Christina Ave'Lallemant: Laura Dalrymple: Sam Southard: Megan Treacy: HUNGRY MINDS FEEDING HUNGRY FAMILIES: THE WEXFORD RIDGE FOOD PANTRY PROJECT (66)

Abby Ginsburg: CAREER DEVELOPMENT ACTIVITIES FOR HIGH SCHOOL STUDENTS WITH DISABILITIES (67)

Adam Buhalog: UNDERSTANDING THE ROLE OF NESTIN IN MATURE CHOLINERGIC NEURONS OF THE RAT BASAL FOREBRAIN (69)

Megan Fork: MOUNTAIN PINE BEETLE HOST PREFERENCE IN LODGEPOLE VS. WHITEBARK PINE (72)

Danielle Cianciolo: Kelsey Stein: CONSUMER HEALTH VOCABULARY (78)

Jen Haas: Structural Analysis of a Type IV Pilus Retraction Protein, PilU (86)

Courtney Premer: REDOX EFFECTS OF SELENIUM IN PROSTATE CANCER CHEMOPREVENTION (88)

Alison Greuel: PHONOLOGICAL AWARENESS IN PRESCHOOL CHILDREN WITH HEARING LOSS (89)

Rebecca West: EXAMINING RELATIONSHIPS BETWEEN MEASURES OF SPIRITUALITY AND PHYSICAL HEALTH (92)

Leo Vandenberg: THE BLACK FIGURE IN ART (93)

Sarah Springborn: PROTEIN-DNA BINDING MOTIFS (98)

Sukhmani Grewal: DRIVING WITH BRAIN TUMORS (99)

Roshni Patel: IDENTIFYING THE EXPRESSION AND FUNCTION OF DEVELOPMENTALLY REGULATED GENE AE4-328 IN AEDES AEGYPTI (104)

Sarah Standish: CRD-BP mRNA as an Indicator of Cancer in Humans (105)

Samuel Huang: CIRCADIAN REGULATION OF mRNA BINDING PROTEINS (106)

Melanie Mossing: ALLELIC VARIANCE IN WISCONSIN BLACK-CAPPED CHICKADEE (POECILE ATRICAPILLUS) POPULATIONS (107)

Elizabeth Becker: PATERNAL BEHAVIOR INFLUENCES OFFSPRING ACROSS MULTIPLE GENERATIONS IN MALE CALIFORNIA MOUSE (108)

Pamela Touhey: SUPPORT FOR WOMEN'S HOCKEY ON UW-MADISON CAMPUS (113)

Huong Pham: Searching for Disease Resistance Genes for the Rice Blast Fungus (115)

Ariel Kleman: EPSTEIN-BARR VIRUS NA PROTEIN FUNCTION DURING LYTIC VIRAL REPLICATION (117)

Amy Kramper: LISTENING STRATEGIES IN DYSARTHRIA: DIFFERENCES BETWEEN STRONG AND WEAK LISTENERS (118)

Linda Youngwirth: A NEW LIGAND TO CATALYZE HYDROACYLATION (120)

Li Li Ji: Robert Umfress: OAT ANTIOXIDANT PROTECTION AGAINST EXERCISE INDUCED INFLAMMATION (123)

Theresa Hare: AT-1 IS AN ER MEMBRANE ACETYLCOA TRANSPORTER AND IS REQUIRED FOR THE ACETYLATION OF NASCENT BACE1 (124)

Sarah Slauson: Jae Yeon Jang: Christopher Zahm: THE ORIENTATION OF G-TUBULIN IN MICROTUBULE NUCLEATION (131)

Jason Huberty: Fluid Inclusion Study on the Dionne quarry: Mt. Apatite: Maine: implications for pegmatite formation (134)

Joseph Wszalek: ANALYSIS OF ETS FACTOR EXPRESSION AND FUNCTION IN NEURAL CREST CELLS (135)

Varun Razdan: HOW DOES EXECUTIVE COMPENSATION AFFECT RISK TAKING DECISIONS AND SHAREHOLDER'S RETURN? (140)

Bettina Billings: THE EFFECTS OF THE KCNA GENE ON DIABETES IN MICE (142)

Shiva Eidi: KINEMATICS OF EYE AND HEAD MOVEMENTS TO VISUAL AND ACOUSTIC TARGETS IN THE RHESUS MONKEY (144)

Laura Piechura: INVESTIGATING MECHANISMS OF HEART VALVE CALCIFICATION IN VALVULAR INTERSTITIAL CELLS (146)

Vanessa Kung: INCREASING THE POTENCY OF A CYTOTOXIN WITH AN ARGININE GRAFT (149)

Joel Peterman: INDIVIDUAL DIFFERENCES IN STRESS REACTIVITY (152)

Alfredo Arteaga: Light Sensitive Hydrogels for Light Responsive Microlenses (154)

Julianna Arntzen: Attempted Trapping of Margay (Leopardus wiedii) in Cacao Agroforest landscape in Costa Rica (158)

Tom Prestby: Nicole Miller: Marcelle Richards: EFFECTIVENESS OF ECO-TOURISM IN PROMOTING MANGROVE CONSERVATION IN THE AMERICAS (160)

Daniel Beardmore: Targeting of L-Type Ca<sup>2+</sup> Channels in Heart Cells: Implications for Heart Failure and Arrhythmias (162)

Howie Shaw: CASE STUDY: TWO CASE STUDIES OF FAMILY BUSINESS SUCCESSION (167)

Jay Lim: CROSS-LINGUISTIC EXAMINATION OF PHONOLOGICAL ACQUISITION (170)

Leah Bretl: Jaime Porter: Stephanie Maas: Tammi Albrecht: THE ROLE OF SOCIAL SUPPORT IN COPING WITH THE STRESS OF COLLEGE LIFE (179)

Jennifer Schramm: SMALL MOLECULE REGULATORS OF EXOCYTOSIS (181)  
Justin Vrana: ANGIOTENSIN II RECEPTOR LOCALIZATION IN RAT ADRENALS (182)  
Katharine Golen: THE ROLE OF CONNECTEDNESS AND AGENCY IN PROMOTING POSITIVE OUTCOMES FOR MIDDLE SCHOOL YOUTH (183)  
Julianna ARNTZEN: Margay (*Leopardus wiedii*) microhabitat use of Cacao Agroforest landscape in Costa Rica (185)  
Harleen Handa: NOVEL PROGNOSTIC AND DIAGNOSTIC BIOMARKER FOR PROSTATE CANCER (195)  
Dhara Patel: THE ROLE OF SIGLEC-9 BINDING TO MUC16 CONTRIBUTING TO INHIBITION OF NATURAL KILLER CELLS (197)  
Benjamin Dickey: DOES BIOMONITORING FOR METHYLMERCURY HAVE A LASTING EFFECT ON HUMAN EXPOSURE? (199)  
Catalina Caro: Street Markets (216)  
Michelle Bucey: Current Withdrawal Practices in ICUs (217)  
Daniel Hottinger: Combination Therapy with Lithium Chloride and Valproic Acid: A Novel Treatment for Carcinoid Tumors (218)  
Supreet Shah: Location of 5HT6 Receptors in Rat Brains (221)  
Alexandra Frolkis: Immunohistochemical Elucidation of Signal Transduction Pathways in Osmotically-Stimulated Vasopressin Neurons (222)