ILLINOIS SUMMER RESEARCH SYMPOSIUM
JULY 19-20, 2018
I-HOTEL AND CONFERENCE CENTER
Welcome to the 2018 Summer Research Symposium. The Graduate College at Illinois is very proud to sponsor this annual symposium, which showcases our equity and diversity programs along with the exceptional research talents of the next generation of scholars.

This year’s conference is the culmination of two longstanding Graduate College programs, SPI and SROP at Illinois, and 14 partner programs—each of which is dedicated to broadening participation in graduate education.

The success of these programs depends on the boundless energy and aspiration of the participating students as well as the dedication of the team leaders, program directors, and staff who help those students thrive. It is also the result of the commitment and inspiration of faculty who serve as mentors. Their passion and generosity make achievement possible and we are deeply appreciative of their time and effort.

On behalf of the Graduate College, I’d like to thank you for joining us for the 2018 Illinois Summer Research Symposium. Your participation is truly appreciated.

Sincerely,

Wojtek Chodzko-Zajko
Dean of the Graduate College
PARTICIPATING PROGRAMS

EBICS REU
National Science Foundation Center on Emergent Behaviors of Integrated Cellular Systems

FRONTIERS IN BIOMEDICAL IMAGING REU
National Science Foundation Research Experience for Undergraduates for Frontiers in Biomedical Imaging

GSEF
Graduate School Exploration Fellowship

MCNAIR AT ILLINOIS
TRiO Ronald E. McNair Postbaccalaureate Achievement Program

MEMERRES
Mentor-Mentee Relationships in Research

POETS
Power Optimization of Electro-Thermal Systems

PRECS
Phenotypic Plasticity Research Experience for Community College Students

REACH PROGRAM
Research & Education for the Advancement of Compassionate Healthcare

REU-INCLUSION
Incubating a New Community of Leaders Using Software, Inclusion, Innovation, Interdisciplinary & Open-Science

SPI
Summer Predoctoral Institute

SROP AT ILLINOIS
Summer Research Opportunities Program for Undergraduates at the University of Illinois at Urbana-Champaign

SROP AT UIC
Summer Research Opportunities Program for Undergraduates at the University of Illinois at Chicago

SURE Tox
Summer Undergraduate Research Experience in Toxicology at the University of Illinois

WE CAN
Wildlife Engineers Co-managing Agriculture and Nature
**SCHEDULE OF EVENTS**

**THURSDAY, JULY 19**

12:00 – 1:30  Check-in – Chancellor Ballroom
12:00 – 1:30  Lunch for Registered Attendees – Chancellor Ballroom
1:15 – 1:30   Welcome – Chancellor Ballroom

*Speaker: Daniel Wong, Director of Mentoring & Bridge Programs, Graduate College*

1:45 – 2:45   Session 1: Poster Presentations – Illinois Ballroom A
3:00 – 4:00   Session 2: Poster Presentations – Illinois Ballroom A
5:30 – 6:15   Dinner for Registered Attendees – Chancellor Ballroom
6:30 – 8:00   Dessert & Talent Show – Illinois Ballroom A

**FRIDAY, JULY 20**

9:30 – 10:30  Session 1: Roundtable Presentations – Chancellor Ballroom
10:45 – 11:45 Session 2: Oral Presentations – Alma Mater, Excellence, Innovation, Knowledge, Lincoln, Loyalty, Quad, & Technology
12:00 – 12:50 Faculty Appreciation Lunch – Illinois Ballroom

*Speaker: Isabel Molina-Guzmán, Associate Dean, Graduate College*

1:00 – 2:00   Session 3: Oral Presentations – Alma Mater, Excellence, Innovation, Knowledge, Lincoln, Loyalty, Quad, & Technology
2:15 – 3:15   Session 4: Oral Presentations – Alma Mater, Excellence, Innovation, Knowledge, Lincoln, Loyalty, Quad, & Technology
3:15 – 3:40   Coffee & Cookie Break
3:45 – 4:45   Session 5: Oral Presentations – Alma Mater, Excellence, Innovation, Knowledge, Lincoln, Loyalty, Quad, & Technology
5:00 – 6:00   Session 6: Oral Presentations – Alma Mater, Excellence, Innovation, Knowledge, Lincoln, Loyalty, & Quad
6:15 – 7:00   Dinner for Registered Attendees – Illinois Ballroom
7:00 – 7:30   Award Presentations – Illinois Ballroom
POSTER PRESENTATION SCHEDULE - SESSION I

1. Finding dex-1 Phenotype Suppressing Components  
   Matthew Barnum | PRECS

2. The Effect of Imidacloprid on Honey Bee Queen Fecundity  
   Jamilyn Martin | PRECS

3. Phosphorus or Mycorrhiza? Potential Trade-Offs Among Strategies to Mitigate Crop Uptake of Soil Lead  
   Helen Senerchia | PRECS

4. Water Quality Analysis of Wood Leachate Levels within Denitrifying Woodchip Bioreactors  
   Patricia Leon | SROP-UIUC

5. Variability of Arsenic Concentration in Escambia County and Santa Rosa County Florida  
   Erin Holland | SROP-UIUC

6. The Effectiveness of the Hypertriglyceridemic Waist Phenotype to Detect Metabolic Syndrome in Young Adults  
   Alejandra Reynoso | SROP-UIUC

7. Echocardiographic Assessment of Pulmonary Hypertension: Evidence from Rodent and Mice Models  
   Dureti Godana | SROP-UIC

8. Correlation between cisplatin acquired resistance (CAR) and the ATP-binding cassette (ABC) transporter genes of Testicular Germ Cell Tumors (TGCTs)  
   Alexis Chamorro Ortiz | SROP-UIUC

9. Update: Comparison of Prevalence of Depression during Pregnancy  
   Darius Carter | SROP-UIUC

10. Understanding the Risk of Metabolic Diseases in Mexican Young Adults  
    Melissa Jiménez | SROP-UIUC

11. Determination of Effective Coccidia Dosages through Titration  
    Naomi Waldon | SROP-UIUC

12. Cellular Responses to Toxoplasma gondii in Primates  
    Bianca Baiges | SROP-UIUC

13. Loss of PAX2 Potentiates the Fallopian Tube Epithelium for Transformation  
    Peter Varughese | SROP-UIC

14. The Effects of Diisononyl phthalate (DiNP) on Early Embryonic Development in Mice  
    Jaylen Parks | SROP-UIUC

15. Chicago Urban Data for Social Justice  
    Erica Pereira | SROP-UIUC

16. The Comparability of Language Dominance Assessments in Bilingualism Research  
    Cecilia Solis Barroso | SROP-UIC
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33. Characterization of Fluidic Oscillator Jet Flows
   Vanessa Awate | SPI-UIUC

34. Template-guided Solidification and Heat Transport in Nano-structured Eutectics
   Favour Obuseh | SROP-UIUC

35. Impact of Size on Cytoplasmic Mobility of Nanoparticle Conjugates
   Christian G Figueroa-Espada | SROP-UIUC

36. Association between Functional Connectivity and Physical Fitness with Respect to Walking Performance in Multiple Sclerosis
   Luis Contreras | SROP-UIUC

37. Effects of Pro-Inflammatory Signaling Molecules on the Transcription Factor NF-kB
   Bethany Perez | SROP-UIUC

38. Omega 3 Fatty Acid Treatments to Cortical Neurons after Mechanical Injury and Neuroprotective Characterization with SLIM
   Darnella Cole | SROP-UIUC

   Berenice Zarate | SROP-UIC

40. Data Storage and Analysis Framework for Semiconductor Nanocrystals Used in Bioimaging
   Patrick Shinn | SROP-UIUC

41. Optimizing Machine Learning Models for Building Chemical Imaging Based Diagnostic Models
   Juan Munoz | SROP-UIUC

42. Optimization of Open Source Software for Deep Learning: Porting FPGA to Caffe
   Grace Fiscelli | SROP-UIUC
   Omar Taha | SROP-UIUC

43. Moving Forward with Advanced LIGO
   Nicholas White | SROP-UIUC

44. Carbon Nanotubes and Thermal Conductivity
   Andrew Reader | SROP-UIUC
49. Metabolic Engineering of a Lipid-producing Yeast for the Sustainable Production of Oleochemicals
   Byran Mejia-Sosa | SPI-UIUC

50. Pattern Generation within Intact Spinal Cords is Modulated by Long-Term Culture
   Jasmine Thornhill | SROP-UIUC

51. Exploring/Generating Fluid Based Thermal Management Architectures for Power Electronic Systems
   Ian Rivera-Colon | SROP-UIUC

52. The Effect of Graphene Functionalization on its Interaction with Biomolecules
   Idonis Curtis | SROP-UIUC

53. Contractile Force Generation of in vitro Skeletal Muscle Tissue
   Michael Chi | SROP-UIUC

54. The Optimization of Boiling Heat Transfer on Active Printed Circuit Boards
   Alexandra Moore | SROP-UIUC

55. Data Storage and Analysis Framework for Semiconductor Nanocrystals Used in Bioimaging
   Lujain Fatta | INCLUSION

56. Photo-induced Effect on Wetting Behavior of Cerium Dioxide Coatings
   Oscar Vargas | SROP-UIC

   Janee Phillips | SROP-UIUC

58. Understanding G-Protein Coupled Receptors Using Simulations
   Liliana Bello | SPI-UIUC

59. Multiscale Multi-modal Imaging of Ischemic Tissue after Therapy
   Allison McMinn | SROP-UIUC

60. Profiling of Prostate Cancer Biomarkers with Multicolor Carbon Dots
   Merwin Berrocales | SROP-UIUC

61. Magnetic Hyperthermia Using Iron Oxide Nanoparticles Delivered with a Microneedle Array
   Bethany Bogan | SROP-UIUC

62. Coherent Raman Spectroscopy of Extracellular Vesicles in Correlation to their Location within the Tumor Microenvironment
   Jalen Thomas | SROP-UIUC

63. Visualization of Stain-Free Slide-Free Multiphoton Histopathology for Cancer Diagnosis
   Allison Spaulding | SROP-UIUC

64. Advanced Optical Imaging to Quantify Morphological Variance in Hippocampal Astrocytes
   Gabriel Evatt-Machado | SROP-UIUC

65. Comparing Methods of Measuring Water-Use Efficiency in Maize Plants
   Lily Feeney | PRECS
POSTER PRESENTATION SCHEDULE - SESSION II

66. Production of Bioactive Isothiocyanate by Bacterial Myrosinase
   Juan Isaiz | PRECS

67. How Does Climate Change Affect Endophytic Fungi?
   Amber Toussaint | PRECS

68. Study of Physiological Responses to Climate Change
   Seldon Kwafo | PRECS

69. The Transgenerational Effects of Phthalates on the Ovarian Steroidogenic Pathway
   Kathleen Leon | SROP-UIUC

70. Sperm-mediated Effects of Predation Stress on Reproduction in Male Threespined
    Sticklebacks
   Shayne Kempfer | PRECS

71. The Effect of Prenatal Exposure to an Environmentally Relevant Phthalate Mixture on the
    Gonadal Development and Fertility of Male Mice
   Talia Seymore | SROP-UIUC

72. The Association of Prenatal Exposure to Phthalates and Anogenital Distance at 4.5 months
    of age
   Timira Taylor | SROP-UIUC

73. What are the Effects of Acute Exposure of DEHP and DiNP in the Uterine Physiology of
    Female Mice?
   Vicmarie Marrero-Colón | SROP-UIUC

74. Effects of Phthalates on the Population of Primordial Germ Cells in Xenopus laevis Embryos
    Nathalie Momplaisir | SROP-UIUC

75. Determining the Effects of Tumor Necrosis Factorα (TNFα) and Epidermal Growth Factor
    (EGF) on Gene Expression and Migration through the Use of Agilent Microarray Analysis
    Sidney stuckett | SROP-UIUC

76. Multiplexation of the Differential Counting Technology
    Brione Griffin | SROP-UIUC

77. Brazil’s Family Health Strategy: An Examination of the Experience of Community Health
    Workers and their Impact on the Commonwealth
    Ximena Perez-Velazco | SROP-UIUC

78. Strategies To Empower and Promote Self-Esteem (STEPS) in Hispanic Female Adolescents
    Maria Pita | SROP-UIUC

79. Strategic Modulation of Cognitive Control
    Kevin Allec Arreola | SROP-UIUC

80. Identification of NPC1 Interactome in Niemann-Pick Disease Type C
    Imari Parham | SROP-UIC

81. Role of Siderophore-mediated Iron Uptake during Salmonella enterica serovar
    Typhimurium Growth in Rich and Iron-limited Media
    Emmanuel Santiago | SROP-UIC
82. Prevalence of Diabetes among Asian American in Illinois  
Isa Adamu | SPI-UIUC

83. Study of p-Fluoro-D-phenylalanine in Cellular Division and Tissue Differentiation in Plants  
Jose Silva | SROP-UIC

84. Compliance to Dietary Guidelines among Hispanic Children after Culturally-Tailored Nutrition Education Program  
Maribel Barragan | SPI-UIUC

85. Unveiling the Structure of β-Ala-Chloramphenicol Bound to the Peptidyl Transferase Center  
Stella Udoetuk | SROP-UIC

86. Whodunit? Solving the Mystery of How Potential Predators Detect Juvenile Turtles  
Alondra Estrada | SROP-UIUC

87. Effects of Methamphetamine on Brain Development in Adolescent and Adult Rats of Both Sexes  
Jessica Alvarez | PRECS

88. Isolation and Purification of a Bioactive Secondary Metabolite Produced by UIC 10489  
Valeria Laboy | SROP-UIC

89. Perceptions of Stroke and Delay in Medical Attention  
Natalie Jaramillo | SROP-UIC

90. The Effectiveness of Professional Development Training for Early Interventionist  
Breanna Varner | SROP-UIUC

91. Comparing Doctor-Patient Communication Among White and African American Diabetic Veteran Patients  
Alex Alvarez | SROP-UIC

92. Well-Being of Children in Foster Care: The Relationship between Extracurricular Activities and Behavioral Problems Among Children at High Risk for Placement Instability  
Elise Osafo | SROP-UIC
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Does Early-Onset Smoking Predict Depression in Nicotine Users?
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Complementary Forms of Physical Activity and African American Older Adults
Keith Taylor | SROP-UIC

Prevalence of ADHD comorbidities Within the Patient Population at the Comprehensive Attention Deficit Hyperactivity Disorder Clinic
Tinsha Thomas | SROP-UIC

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Assessment of Wind Load Reliabilities
Jason Lopez | SPI-UIUC

Emergency Nuclear Decontamination of Urban Materials
Nicolas Santiago | SPI-UIUC

Coyote and Fox Interactions across an Urbanization Gradient in Chicago
Alyson Cervantes | SROP-UIUC

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Evaluating the Effectiveness of Positive Psychology and Mindfulness Based Interventions for Adolescents Struggling with Depression
Gabrielle Munoz | SROP-UIC

Family Resiliency: The Role of Racial Socialization on Mental Health Outcomes for African American Youth
Hafeezah Branch | SPI-UIUC

The Self-reference Effect in Implicit Memory
George Ilenikhena | SROP-UIC

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Slavery’s Eerie Presence: Departing from the Spectacle
Anna Flood | SROP-UIUC

The Cultural Development and Power of Male Sexuality: Sodomy and Effeminacy 16th century Spain-New Spain
Liliana Mondragon | SROP-UIUC

Violence Social Introspection and the Intertwining of Oppressions within Another Country: Exploring how Baldwin’s Novel Connects Issues of Race Gender and Sexuality through Consequential Suffering
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Jasmine Johnson | SPI-UIUC

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Tessara Dudley | SPI-UIUC

Wage Theft: Breaking the Silence for a Fair Day’s Pay for a Fair Day’s Work
Joselyn Campoverde | SROP-UIUC

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The Prevalence of Food Insecurity Among Adult Cancer Survivors in the United States
Amirah Burton-Obanla | SPI-UIUC

Trapped at the Bottom: Systemic Racism and its Toll on the Black Woman’s Body
Tauren Nelson | SROP-UIUC

Homicide on the Southside: Taking a Look at the Causes and Aftereffects of Gun Violence in Chicago
Carileigh Jones | SPI-UIUC

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Dakota Burnett | SROP-UIC

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Chioma Onoh | SROP-UIC

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Naomi Waldon | SROP-UIUC

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Sucrose Self-administration under Extended Access Conditions in Adolescent and Adult Rats of both Sexes  
Asia Banks | SPI-UIUC

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Water Quality Analysis of Wood Leachate Levels Within Denitrifying Woodchip Bioreactors  
Patricia Leon | SROP-UIUC

Transport of Glyphosate Through Vertical Soil Columns  
Alisha Weatherspoon | SROP-UIUC

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Understanding Racial Ideology Development in African Americans  
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Multiple Classifications of Racial-Ethnicity  
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Ryan Shaw | SPI-UIUC

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Nancy Pérez-Flores | SPI-UIUC

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Alexandra Soriano | SROP-UIUC

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Marlen Garcia | SROP-UIC

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Bernardo Moyza | SROP-UIC

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Jodi Aguilar | SROP-UIC

Adapting Pedagogy and Curriculum to Multicultural American Schools
Sonia Gómez | SROP-UIUC

The Comparability of Language Dominance Assessments in Bilingualism Research
Cecilia Solís Barroso | SROP-UIC
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Sexual Violence and the Assimilation Response of LGBTQ2 Female Identified Latina and Indigenous Americans
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Violence Social Introspection and the Intertwining of Oppressions within Another Country: Exploring how Baldwin’s Novel Connects Issues of Race Gender and Sexuality through Consequential Suffering
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The Cultural Development and Power of Male Sexuality: Sodomy and Effeminacy in 16th century Spain-New Spain
Liliana Mondragon | SROP-UIUC

EXCELLENCE

Are the Kids Alright?: Examining Youth of Color Experiences with Mental Illness & Effective Intervention Strategies
Strategies To Empower and Promote Self-Esteem (STEPS) in Hispanic Female Adolescents
Maria Pita | SROP-UIUC

Evaluating the Effectiveness of Positive Psychology and Mindfulness Based Interventions for Adolescents Struggling with Depression
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Well-Being of Children in Foster Care: The Relationship between Extracurricular Activities and Behavioral Problems Among Children at High Risk for Placement Instability
Elise Osafo | SROP-UIC

Unraveling the Impact of Critical Consciousness on Minority Youth Mental Health
Melissa Uribe | SROP-UIC

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Applications in Chemical Engineering Processes for Industry
Effects of Varying Oxidants for Olefin Epoxidation over Group IV and V Metal Catalysts
Rebecca Schultz | SROP-UIUC

Synthesis of benzyl (3aS4S7R7aR)-2-hydroxy-3a-methyl-3-oxo-3a477a-tetrahydro-3H-47-(epiminomethano)indene-9-carboxylate
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Aqueous and Non-aqueous Oxidants for Alkene Epoxidation over Ti- and Nb-containing Silicates
Chris Torres | SPI-UIUC
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Barrio Maestras - Introducing the Praxis of Queer Educadoras / Content / Teoria in K-5 Escuelas
Jodi Aguilar | SROP-UIC

*Wage Theft: Breaking the Silence for a Fair Day’s Pay for a Fair Day’s Work*
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*How Religion Influences Individuals’ Attitudes toward Animal Abuse*
Kairra Brazley | SROP-UIUC

*The Comparability of Language Dominance Assessments in Bilingualism Research*
Cecilia Solís Barroso | SROP-UIC

**LINCOLN**

*Tear Down That Wall: Overcoming Barriers to Improve Health Outcomes*

*Brazil’s Family Health Strategy: An Examination of the Experience of Community Health Workers and Their Impact on the Commonwealth*
Ximena Perez-Velazco | SROP-UIUC

*Comparing Doctor-Patient Communication Among White and African American Diabetic Veteran Patients*
Alex Alvarez | SROP-UIC

*Doubly Marginalized: Disparities and Barriers in Access to Healthcare for LGBT Latinos*
Cameron Hill | SROP-UIUC

*Family Resiliency: The Role of Racial Socialization on Mental Health Outcomes for African American Youth*
Hafeezah Branch | SPI-UIUC

**LOYALTY**

*Animal Behavior: Sensory Cues, Host-Parasite Interactions, and Self-Administration of Sucrose*

*Whodunit? Solving the Mystery of How Potential Predators Detect Juvenile Turtles*
Alondra Estrada | SROP-UIUC

*Cellular Responses to Toxoplasma gondii in Primates*
Bianca Baiges | SROP-UIUC

*Sucrose Self-administration under Extended Access Conditions in Adolescent and Adult Rats of both Sexes*
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QUAD

Lost in Translation: Understanding Mixed Media Messages
Slavery’s Eerie Presence: Departing from the Spectacle
Anna Flood | SROP-UIUC

Eye Tracking Race and Cultural Differences in Video Games
Nicole Pontaza | SROP-UIUC

Latinxs Perceptions of Brain Health Messages
Karen Davila | SROP-UIC

Analyzing Sources and Lifespans of News Articles
Helen Liang | SROP-UIUC

TECHNOLOGY

Developing Treatments for Disease: Cholestasis, Coccidiosis, Cell Death, and Using AB-Type Toxins

Determination of Effective Coccidia Dosages through Titration
Naomi Waldon | SROP-UIUC

Procaspase Activating Compound-1 (PAC-1) and Doxorubicin Synergistically Induce Immunogenic Cell Death
Nina De Luna | SROP-UIUC

Cellular Localization and Modular Activity of AB-Type Toxins
Mathias Morales | McNair

Tissue-specific Role for Small Heterodimer Partner in Protecting against Cholestasis
Ryan Shaw | SPI-UIUC
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A Small World After All?: Adaptation and Difference in Educational Contexts
Adapting Pedagogy and Curriculum to Multicultural American Schools
Sonia Gómez | SROP-UIUC

Intercultural Bilingual Education into the Citizen’s Revolution Development Project in Ecuador
Sisa Tixicuro Duque | SROP-UIUC

Understanding Cultural Differences in 3rd Grade Math Classroom Practices between the East and the West
Ana Garner | SPI-UIUC

Training Bilingual Students in Spanish: The Effects of Students Perceived Counseling Self-Efficacy
Nancy Pérez-Flores | SPI-UIUC

EXCELLENCE

How Phthalates Affect Reproduction: From Prenatal Development to Transgenerational Exposure
The Effects of Diisononyl phthalate (DiNP) on Early Embryonic Development in Mice
Jaylen Parks | SROP-UIUC

The Effect of Prenatal Exposure to an Environmentally Relevant Phthalate Mixture on the Gonadal Development and Fertility of Male Mice
Talia Seymore | SROP-UIUC

What Are the Effects of Acute Exposure of DEHP and DiNP in the Uterine Physiology of Female Mice?
Vicmarie Marrero-Colón | SROP-UIUC

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DIVERSITY
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