

LOUISIANA ACADEMY OF SCIENCES

Meeting at a Glance

8:00 – 10:00 am	Registration and Continental Breakfast	Brumfield Caffey Annex
9:00 – 9:45 am^A	Poster Competition Talks 2 minute student competitor presentations Computer Science/Math and Statistics/ Materials Science and Engineering Chemistry/Physics/Earth Science Botany/Environmental Science/Zoology/Agriculture Forestry and Wildlife Molecular and Biomedical Biology/Microbiology	MPAC Building MPAC 144 MPAC 146 MPAC 145 MPAC 226
9:30– 9:45 am^A	Social Sciences	MPAC 230
9:45-10:00 am	Break	
10:00—11:45am^B	Oral Presentations Student presentations will be judged- other presentations may be included Computer Science/Math and Statistics/ Materials Science and Engineering Chemistry/Physics/Earth Science Botany/Environmental Science/Zoology/ Agriculture, Forestry and Wildlife Molecular and Biomedical Biology/Microbiology Higher Education/ Social Science	MPAC Building MPAC 144 MPAC 146 MPAC 145 MPAC 228 MPAC 226 MPAC 230
11:45 – 1:30 pm	Lunch with Keynote Presentation	Brumfield Caffey Annex
1:30 – 2:45 pm	Oral Presentations Chemistry II Physics II Zoology II Science and Humanities Computer Science II	MPAC Building MPAC 146 MPAC 144 MPAC 145 MPAC 226 MPAC 144
2:00- 4:00 pm	Poster Viewing All posters will be available Presenters are asked to be present if possible Zoology Agriculture, Forestry and Wildlife Molecular and Biomedical Biology/Microbiology Social Sciences Computer Science/Materials Science and Engineering Chemistry/ Earth Science	MPAC Building MPAC 147 MPAC 147 MPAC 147 MPAC 222 MPAC 222 MPAC 222
4:00-4:15	Break	
4:15 – 5:00 pm	Award Ceremony & Business Meeting	Brumfield Caffey Annex

^A The Poster Competition Talks are 2 minute oral presentations of the work for the judges. All attendees are welcome to attend.

^B The oral session topics are the categories that will be used in judging the Undergraduate and Graduate Student Oral Competitions. Student presentations will be judged during the morning session with remaining time in each morning session plus the afternoon sessions will be for students not in competitions, postdoctoral students, and faculty/staff.

9:00 – 9:30 am Poster Competition Talks

All talks are 2 minutes each

Computer Science/Math and Statistics/ Materials Science and Engineering MPAC 144

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|-----|---|----------------------------|
| P01 | Small C., A. Shrestha, O. Olaotan, G. St. Croix, and J. Mesit
Scrawler: A hybrid of Snake and Scrabble* | (GSU) |
| P02 | Small, C., I. Marsh., and Y.B. Reddy
Linked Website* | (GSU) |
| P03 | Lambert, D., S. Holmes, K.A. Warrington, and Y.B. Reddy
Cost and time efficient internet car sales* | (GSU) |
| P04 | Blouin, C.D. and M.A. Salam
The use of computer modeling to monitor energy consumption * | (SUBR) |
| P05 | Tull-Walker, N., N. Seetala, and A. Baburaj
Irradiation effects of ultra high molecular weight polyethylene and composites made of Martian regolith studied by PALS* | (GSU and Prairie View A&M) |
| P06 | Sharma A., J. Melancon, C. Zellhofer, and S. Zivanovic
Experimental optimization of polymer solar cell with P3HT:PCBM active layer* | (LTU) |
| P07 | Brown, J. B. and P.A. Derosa
Charge transport behavior in CNT composites * | (LTU) |
| P08 | Galib, M., A. Radadia, A. Sharma, and S. Zivanovic
Experimental investigation of bilayer graphene transparent electrode in the application of photovoltaic cell * | (LTU) |

Chemistry/Physics/Earth Science MPAC 146

- | | | |
|-----|---|---------------|
| P10 | White, D.R. and C.C. Huval
NAPL binders: Swelling properties of natural materials * | (LSU-E) |
| P11 | GC, R., P.P. Sanchetti, and U. Siriwardane
Synthesis and characterization of CaO/alumina, CaO/silica, and SO ₄ -2/TiO ₂ /silica supported catalysts for the conversion of soybean oil and methanol to biodiesel* | (LTU) |
| P12 | Esumike, S., V.N. Seetala, and U. Siriwardane
Synthesis and characterization of Ni, Co, Fe, Fe/Co, Ni/Fe and the study of promoter effect of Ru on alumina supported catalysts for the conversion of syngas and hydrocarbons: FT process * | (LTU and GSU) |
| P13 | Minor, C. K. and U. Siriwardane
Synthesis and characterization of CuO/ZnO and Cr ₂ O ₃ /ZnO alumina supported catalysts for the conversion of syngas to methanol: Biomass to methanol* | (LTU) |

- P14 Richard, M. and C.C. Huval (LSU-E)
Preparation and evaluation of modified iron for improved contaminant remediation*
- P15 Pallerla, S., R. Sable, S.S. Jois, D. Bhupathiraju, and G.M. Vicente (ULM and LSU-BR)
Targeted delivery of doxorubicin through conjugation with peptidomimetic that binds to extracellular domain of HER2 receptor

**Botany/Environmental Science/Zoology/Agriculture, Forestry and Wildlife
MPAC 145**

- P19 Eppling, K. and B.C. Moore (LTU)
Identification of mucin-rich, secretory sulcus epithelium in American alligator*
- P20 Fagan, N. and R. Minton (ULM)
Environmental factors affecting shell shape in the land snails *Haplotrema concavum* and *Mesomphix globosus**
- P21 French, J.D., J.Y. Atwell, B.C. Moore, and M.M. Chumchal (LTU)
Metal bioaccumulation and melanomacrophage aggregates in spotted gar (*Lepisosteus oculatus*) liver*
- P22 Meyer, A. and R. Minton (ULM)
Patterns of shell plasticity in two species of land snail, *Anguispira alternata* and *Euglandina rosea**
- P23 Vaidya, T., A. Adams, G. LaFleur and R. Nathaniel (NiSU)
A Study of the efficiency of complement protein in black drum, *Pogonias cromis**
- P24 White, K. and R.L. Minton (ULM)
Relationship between niche breadth and distribution of Polygyridae in the eastern United States*
- P30 Gaspard, C.M. and C.A. Corbat (LSUA)
Relationship between Eastern Woodrat (*Neotoma floridana*) abundance and select habitat characteristics in a bottomland hardwood forest in Central Louisiana

**Molecular and Biomedical Biology/Microbiology
MPAC 226**

- P31 Adedaja, A., K. Okoyeze, C.C. Creech, K.E. Jackson, and D.W. Jackson (ULM)
Assessing the microbial diversity of Bayou DeSiard through metagenomics*
- P32 Vining, J., A. Corbin, and R. Nathaniel (NiSU)
Isolating *Staphylococcus aureus* bacteriophage from nasal samples*
- P39 Prathipati, P., W. Alanazi, Fakhruddin, D.W. Jackson, and K.E. Jackson (ULM)
Evaluating the role of interstitial ATP and angiotensin II in accelerating nephropathy and oxidative stress during insulin induced hypertension*
- P40 Rizzo, E., S. Jackson, J. Arceneaux, R. Baudin, R. Beutner, M.B. Borque, L. Crawford, A. Fontenot, B. Gillikin, M. Hayes, R. Johnston, M. Kurz, M. Mouawad, A. Reed, C. Schilling, Z. Streeter, J. Vu, T. Wilson, A. Scott, M. Richters, D. Lovas, G. Jernigen, T. Nguyen, S. Bhuiyan, J. D. Jones, B. Miller, J. Harmson, C.R. Gissendanner, A.M.D. Wiedemeier, and A.M. Findley (ULM)
Comparative analysis of A3, A4, and A10 mycobacteriophages: Sequence homology at the repressor binding site results in homoimmunity of related mycobacteriophages*

Social Sciences
9:30-9:45
MPAC230

- P44 Adams, O.A. and L.B. Lewis (Loyola)
The effects of agency and communal motives on memory and perception and their relationship to sex and gender-linked traits*
- P45 Allenbach, K.N. and L.B. Lewis (Loyola)
The effects of gender, gender role conformity, and sexual orientation on linguistic ability and social communication style*

10:00-11:45 am^B Oral Presentations
MPAC Building

Computer Science/Math and Statistics/ Materials Science and Engineering
MPAC 144

- 10:00 Elashhab, H. and M.A. Salam (SUBR)
Analysis of compression algorithms in wireless sensor network*
- 10:15 Saint-Jean, D., O. Olaotan., and Y.B. Reddy (GSU)
PROFIT PLUS*
- 10:30 Dean, J., A. Merille, N.V. Seetala, R. Li, and K.M. Dooley (GSU and LSU-BR)
Positron lifetime and magnetization studies of rare earth oxides as desulfurization adsorbents*
- 10:45 Jiang, Z.C., T.D. Nance, K.R. Minter, and S. Lee (GSU)
A home security system design*
- 11:00 Webb, M.T. and N.V. Seetala (GSU)
Spark plasma heat treated ZrB₂-SiC and HfB₂-SiC composites for ultra high temperature aerospace applications*
- 11:30 Shrestha, A., G. Spears, and Y. B. Reddy (GSU)
The ClassMate app*

Chemistry/Physics/Earth Science
MPAC 146

- 10:00 El-Giar, A.E., A-M. Simon, S.M. Atwa, and E.M. El-Giar (LTU and ULM)
Electrochemical impedance spectroscopy properties of poly(oxyphenylene)-coated mild steel in NaCl aqueous solution*
- 10:15 Kimball, E. A., A. Pandey, D. D. Dolliver, K. H. Shaughnessy, and F. R. Fronczek. (Southeastern, U. Alabama, and LSUBR)
Ortho-alkoxylation of diaryl ketoxime ethers*
- 10:30 Viramontez, A.G. and L.J Hopper (ULM)
Variations in raindrop size distributions associated with diverse storm types and structures
- 10:45 Khamala, B.O., A. Stewart, F. Loushanda, Y. Malozovsky, and D. Bagayoko (SU-BR)
CALCULATED electronic transport and bulk property of cubic zinc sulphide*

11:00 Elumalai, D. and P. Derosa (LTU and GSU)
Simulation of the controlled release of molecular species from multi-walled nanotubes *

11:15 Stewart, A.D., B. Khamala, D. Hart, Y. Malozovsky, and D. Bagayoko (SU-BR)
Ab-initio calculations of the electronic and related properties of boron nitride

Botany/Environmental Science/Zoology
MPAC 145

10:00 Duhon, K. and R. Boopathy (NiSU)
Public health aspect of antibiotic resistance genes (ARGs) in Bayou Lafourche, a major drinking water source in Southeast Louisiana *

10:15 Naquin, A., J. Clement, M. Sauce, R. Grabert, and R. Boopathy (NiSU)
Presence of antibiotic resistant bacteria in raw and treated sewage in Thibodaux, Louisiana *

10:30 Sauce, M., A. Naquin, R. Grabert, J. Clement, R. Boopathy (NiSU)
Antibiotic resistance and tetracycline resistant *Enterococcus faecalis* in Thibodaux sewage treatment facility

10:45 Streeter, J.R., and J. Bhattacharjee (ULM)
Atmospheric carbon flux in a bottomland hardwood forest *

11:00 Zou, E. and I. B. Denys (NiSU)
Activities of superoxide dismutase, ethoxyresorufin o-deethylase, and malondialdehyde in *Fundulus grandis* exposed to BP oil and Corexit 9500

Agriculture, Wildlife, and Forestry
MPAC 228

10:00 Cole, J.M. and C.A. Corbat (LSUA)
The relationship between Eastern Woodrat (*Neotoma floridana*) abundance and Eastern Gray Squirrel (*Sciurus carolinensis*) abundance in a bottomland hardwood forest in Central Louisiana *

10:15 Herron, M.H., J. Bhattacharjee (ULM)
Testing the intermediate disturbance hypothesis through silvicultural forest gaps in bottomland oak plantation *

10:30 Guiname N., P. Mihaela, and B. Strimbu (LTU)
(Title to be given at session)

Social Sciences/ Higher Education
MPAC 230

10:00 Purifoy, S. (LSUA)
Andragogy—A theory questioned

10:15 Pugh, A., R. Mann, T. Allen, D. Schween, and S. Jennings (ULM)
Attitudes of professional block students for the areas of science and mathematics four consecutive semesters as ascertained by a longitudinal questionnaire

10:30 Yehya, R.M. (SUBR)
Dropping out of school: The persisting challenge

10:45 Yehya, R.M. (SUBR)
Globalization and world peace

**Molecular and Biomedical Biology/Microbiology
MPAC 226**

10:00 Grabert, R., M. Sauce, A. Naquin, J. Clement, and R. Boopathy (NiSU)
Presence of tetracycline resistant genes and tetracycline resistant *Enterococcus faecalis* in sewage treatment plant*

10:15 Naquin, A., J. Clement, M. Sauce, R. Grabert, M. Sherpa, and R. Boopathy (NiSU)
Presence of antibiotic-resistant genes and methicillin-resistant *Staphylococcus aureus* (MRSA) in Thibodaux sewage treatment plant*

**Brumfield Caffey Annex
Lunch
Chancellor's Welcome
11:45-1:30**

**Keynote Presentation
"12 Years a Slave"
Ginger Jones
Catherine Pears
Jerry Sanson**

**Oral Presentations
1:30-2:45
MPAC**

**Chemistry II
MPAC 146**

1:30 Mobley, B.W. and J. Fotie (Southeastern)
Silver(I)-catalyzed intermolecular C-N bond formation through a C-H/N-H direct coupling of secondary amines*

1:45 J.R. Wilson, D.H. Bard, and J. Fotie (Southeastern)
Silver(I)-catalyzed homo-coupling of aliphatic cyclic and acyclic amines resulting in a direct formation of an N-N bond*

2:00 Lu, Y. (Louisiana College)
Electron transfer in the molecular quantum-dot cellular automata: The competition between Coulomb effect and nuclear relaxation

- 2:15 Simon, A-M, A.E. El-Giar, S.M. Atwa, and E.M. El-Giar (ULM and LTU)
A simple cyclic voltammetry experiment for the determination of the active ingredient in children's Tylenol® elixir*
- 2:30 Spiller, P., T. Junk, and A.A. Gallo (ULL)
Studies of supercritical solvent use for the formation of biodiesel from alligator fat
- 2:45 Whitaker, K.R. and M.D. Ediger (LSUA and U. Wisconsin-Madison)
Calorimetric study of ultrastable vapor-deposited glasses of decalin

Physics II MPAC 144

- 1:30 Hart, D.R. (SU-BR)
A correlative study of mm-wave and gamma-ray measurements from selected high-energy sources
- 1:45 Nwigboji, I.H., Y. Malozovsky, L. Franklin, B. Khamala, J. Ejembi, and D. Bagayoko (SU-BR)
Ab-initio calculations of accurate electronic properties of aluminum nitride
- 2:00 J.I. Ejembi, I.H Nwigboji, L. Franklin, Y. Malozovsky, and D. Bagayoko (SU-BR)
Ab-initio calculations of electronic properties of boron phosphide (BP)
- 2:15 Lama, N., Dr. Norwood, and Dr. Vercellotti (Southeastern).
Static light scattering of yeast phytylglycogen*
- 2:30 Stewart, A.D., B. Khamala, D. Hart, Y. Malozovsky, and D. Bagayoko (SU-BR)
Ab-initio calculations of the electronic and related properties of boron nitride
- 2:45 Malozovsky, Y., A. Saliev, L. Franklin, E.C. Ekuma, G.L. Zhao, and D. Bagayoko (SU-BR)
Ab-initio calculations of electronic properties of AlP, InP and GaP

Zoology II MPAC 145

- 1:30 Arabie, L. and J.D. Hoffman (McSU)
Influence of forest edge on the occurrence and abundance of small mammals
- 1:45 Beachy, C. (Southeastern)
The influences of growth and temperature on metamorphosis in the plethodontid salamander, *Eurycea wilderae*
- 2:00 Merchant, M., M. White, and C. Moran. (McSU and Southeastern)
Crocodilian nuclear factor Kappa B1: Functional domain analysis and homology with other vertebrates
- 2:15 Meyer, H.A. (McSU)
The Gamecocks water bear: A new species of tardigrade from the campus of the University of South Carolina

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|------|---|-----------------------|
| 2:30 | Sullivan, B.T. and A. Niño Domínguez
The southern pine beetle has an (equally?) evil twin in southern Mexico and Central America | (USDA Forest Service) |
| 2:45 | Vidrine, M.F.
Unionicola: Mites of freshwater mollusks | (LSU-E) |

**Sciences and Humanities
MPAC 226**

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|------|---|--------|
| 1:30 | Alexander, R.A. and R.R. Giguette
“After all, it’s only a theory”: addressing false equivalency in introductory courses in the sciences and humanities | (NiSU) |
| 1:45 | Doucet, J.
Assessing the Great October Storm of 1893: histories informing sciences | (NiSU) |
| 2:00 | LaFleur, Jr., G.,
Using humanities to nurture biophilia in Louisiana students from Kindergarten to Graduate School | (NiSU) |

**Computer Science II
MPAC 144**

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|------|---|--------|
| 1:30 | Reddy, Y. B.
Cloud environment on cognitive radio network for efficient resource allocation | (GSU) |
| 1:45 | Salam, M.A. and T.K. Sarkar
A new approach towards the trust evaluation of wireless sensor network | (SUBR) |
| 2:00 | Smith, Y. and Y.B. Reddy
Cloud computing and applications | (GSU) |

**Poster Presentations
2:00-4:00 pm Poster Presentations**

**Computer Science/ Materials Science and Engineering
MPAC 222**

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|-----|--|-------|
| P01 | Small C., A. Shrestha, O. Olaotan, G. St. Croix, and J. Mesit
Scrawler: A hybrid of Snake and Scrabble* | (GSU) |
| P02 | Small, C., I. Marsh., and Y.B. Reddy
Linked Website* | (GSU) |
| P03 | Lambert, D., S. Holmes, K.A. Warrington, and Y.B. Reddy
Cost and time efficient internet car sales* | (GSU) |

- P04 Blouin, C.D. and M.A. Salam (SUBR)
The use of computer modeling to monitor energy consumption*
- P05 Tull-Walker, N., N. Seetala, and A. Baburaj (GSU and Prairie View A&M)
Irradiation effects of ultra high molecular weight polyethylene and composites made of Martian regolith studied by PALS*
- P06 Sharma A., J. Melancon, C. Zellhofer, and S. Zivanovic (LTU)
Experimental optimization of polymer solar cell with P3HT:PCBM active layer*
- P07 Brown, J. B. and P.A. Derosa (LTU)
Charge transport behavior in CNT composites*
- P08 Galib, M., A. Radadia, A. Sharma, and S. Zivanovic (LTU)
Experimental investigation of bilayer graphene transparent electrode in the application of photovoltaic cell*
- P09 Willis, M., D. Swafford, I. Jackson, and S. Lee. (GSU)
The development of a traffic light control system*

**Chemistry/Earth Science
MPAC 222**

- P10 White, D.R. and C.C. Huval (LSU-E)
NAPL binders: Swelling properties of natural materials*
- P11 GC, R., P.P. Sanchetti, and U. Siriwardane (LTU)
Synthesis and characterization of CaO/alumina, CaO/silica, and SO₄-2/TiO₂/silica supported catalysts for the conversion of soybean oil and methanol to biodiesel*
- P12 **Esumike, S., V.N. Seetala, and U. Siriwardane (LTU and GSU)**
Synthesis and characterization of Ni, Co, Fe, Fe/Co, Ni/Fe and the study of promoter effect of Ru on alumina supported catalysts for the conversion of syngas and hydrocarbons: FT process*
- P13 Minor, C. K. and U. Siriwardane (LTU)
Synthesis and characterization of CuO/ZnO and Cr₂O₃/ZnO alumina supported catalysts for the conversion of syngas to methanol: Biomass to methanol*
- P14 Richard, M. and C.C. Huval (LSU-E)
Preparation and evaluation of modified iron for improved contaminant remediation*
- P15 Pallerla, S., R. Sable, S.S. Jois, D. Bhupathiraju, and G.M. Vicente (ULM and LSU-BR)
Targeted delivery of doxorubicin through conjugation with peptidomimetic that binds to extracellular domain of HER2 receptor
- P16 Bergeaux, T.J. and C.C. Huval (LSU-E)
Correlation of chemical structure, stability and boiling point of C₃-C₁₀ isomeric alkanes, monoalkenes, and monoalcohols

P17 Hebert, A., C. Bazar, T. Bergeaux, S. Breau, H. Deshotel, S. Doucet, L. Frederick, H. Luke, C. Quebedeaux, M. Richard, J. Tucker, and C.C. Huval (LSU-E)
Treasure from a trash tree: biofuel from the common chicken tree

P18 Kreller, S. J. and L. H. Hopper, Jr. (ULM)
Which hurricane attributes are most strongly correlated with maximum storm surge height?

Zoology MPAC 147

- P19 Eppling, K. and B.C. Moore (LTU)
Identification of mucin-rich, secretory sulcus epithelium in American alligator*
- P20 Fagan, N. and R. Minton (ULM)
Environmental factors affecting shell shape in the land snails *Haplotrema concavum* and *Mesomphix globosus**
- P21 French, J.D., J.Y. Atwell, B.C. Moore, and M.M. Chumchal (LTU)
Metal bioaccumulation and melanomacrophage aggregates in spotted gar (*Lepisosteus oculatus*) liver*
- P22 Meyer, A. and R. Minton (ULM)
Patterns of shell plasticity in two species of land snail, *Anguispira alternata* and *Euglandina rosea**
- P23 Vaidya, T., A. Adams, G. LaFleur and R. Nathaniel (NiSU)
A Study of the efficiency of complement protein in black drum, *Pogonias cromis**
- P24 White, K. and R.L. Minton (ULM)
Relationship between niche breadth and distribution of Polygyridae in the eastern United States
- P25 Xu, X., and J. D. Hoffman (McSU)
Predicted distributions of small terrestrial mammals in need of conservation in Louisiana
- P26 Meyer, H.A. (McSU)
Redescription of the tardigrade species *Echiniscus cavagnaroi* from type material, with new records from Hawaii and Bermuda
- P27 Ke, Y. and J.D. Hoffman (McSU)
Geographic variation and subspecific status of the swamp rabbit (*Sylvilagus aquaticus*)
- P28 Ardizzone, C.M., T.P. Wood, A.M.J. Shudes, T.L. Sylvester, W.H. Dees, and J. Hightower (McSU)
Longitudinal studies of adult mosquitoes in a city park
- P29 Dees, W., J. Theriot, K. Leonards, J. Byrne, C. Ardizzone, A. Richard, J. Dupre, T. Estrada, O. Christian, C. Richmond, and J. Woolman. J. Hightower, A. Daugereaux, and S. Mopper. (McSU and ULL)
Using our natural resources to prevent and control mosquitoes

Agriculture, Forestry, and Wildlife MPAC 147

- P30 Gaspard, C.M. and C.A. Corbat (LSUA)
Relationship between Eastern Woodrat (*Neotoma floridana*) abundance and select habitat characteristics in a bottomland hardwood forest in Central Louisiana

Microbiology /Molecular and Biomedical Biology
MPAC 147

- P31 Adedaja, A., K. Okoyeze, C.C. Creech, K.E. Jackson, and D.W. Jackson (ULM)
Assessing the microbial diversity of Bayou DeSiard through metagenomics*
- P32 Vining, J., A. Corbin, and R. Nathaniel (NiSU)
Isolating *Staphylococcus aureus* bacteriophage from nasal samples*
- P33 Alonzo, F.L., C.C. Creech, D.L. Graham, E.L. Hufford, J.D. Jones, B.L. McGregor, A.D. Meyer, O.J. Mardedor, L.A. Mohamed, O.J. Rivera, C.M. Simmons, A.M. Turner, and R.L. Minton (ULM)
Diversity of soil bacteria from a managed wildlife refuge in northeastern Louisiana, U.S.A.
- P34 Collins, J.H., E. Pierce, and P.L. Hindmarsh (LTU)
Effects of combinatorial antifungal drugs on *Candida albicans*
- P35 Leonards, K., W. Dees. M. Pillgwa-Lucas, O. Jones-Nelson, L. Garvin, and A. Jerse (McSU and USUHS)
Use of human transferrin to improve a female mouse model of *Neisseria gonorrhoeae* infection
- P36 Pierce, E., J.H. Collins, and P.L. Hindmarsh (LTU)
Effects of combinational antifungal drug treatment on drug resistance *Candida albicans*
- P37 Scur, M. and P.L. Hindmarsh (LTU)
Searching for an optimal autonomously replicating sequence (ARS) in *Candida albicans*
- P38 Sills, C. and P.L. Hindmarsh (LTU)
Using green fluorescent protein as a biosensor to investigate redox activity in *Candida albicans*

Molecular and Biomedical Biology
MPAC 147

- P39 Prathipati, P., W. Alanazi, Fakhruddin, D.W. Jackson, and K.E. Jackson (ULM)
Evaluating the role of interstitial ATP and angiotensin II in accelerating nephropathy and oxidative stress during insulin induced hypertension*
- P40 Rizzo, E., S. Jackson, J. Arceneaux, R. Baudin, R. Beutner, M.B. Borque, L. Crawford, A. Fontenot, B. Gillikin, M. Hayes, R. Johnston, M. Kurz, M. Mouawad, A. Reed, C. Schilling, Z. Streeter, J. Vu, T. Wilson, A. Scott, M. Richters, D. Lovas, G. Jernigen, T. Nguyen, S. Bhuiyan, J. D. Jones, B. Miller, J. Harmson, C.R. Gissendanner, A.M.D. Wiedemeier, and A.M. Findley (ULM)
Comparative analysis of A3, A4, and A10 mycobacteriophages: Sequence homology at the repressor binding site results in homoimmunity of related mycobacteriophages*
- P41 Bergeron, E.R., L.A. Simmons, and J.C. Larkin (NiSU and LSU-BR)
Overexpressing MYB3R transcription factors does not overcome function of SIAMESE in *Arabidopsis thaliana*

P42 Fusilier, A. and K.A. Jackson (McSU)
Identification of *Klebsiella oxytoca* in green anoles of Southwest Louisiana

P43 Joseph, R., P. Kim, and H-T. Leung (GSU)
Search for a suitable model organism to study the function of Werner gene

Social Sciences
MPAC 222

P44 Adams, O.A. and L.B. Lewis (Loyola)
The effects of agency and communal motives on memory and perception and their relationship to sex and gender-linked traits*

P45 Allenbach, K.N. and L.B. Lewis (Loyola)
The effects of gender, gender role conformity, and sexual orientation on linguistic ability and social communication style*

Awards and Business Meeting
4:15-5:00
Brumfield Caffey Annex
Convener: Dr. Gerard Blanchard