



2018 CORNET AWARDS SYMPOSIUM

Monday, October 29, 2018
The Freeman Auditorium
(930 Madison Avenue, 3rd Floor)

UFHSCTM

RESEARCH

9:30 - 9:35 am

Opening Remarks

STEVE J. SCHWAB, MD
Chancellor

9:35 - 9:55 am

**“Polarized Cell Division of Chlamydia Trachomatis:
An Opportunity for Intervention”**

Presented by JOHN COX, PhD

9:55 - 10:15 am

**“Evaluation of the Genetic Contribution to the
Neuroinflammatory Response Following Neonatal Alcohol Exposure”**

Presented by KRISTIN HAMRE, PhD, and JESSICA BAKER, BS

10:15 - 10:35 am

**“Investigating NF- κ B and Wnt Signaling Activity
in Cancer Cells with Real-time Autobioluminescent Imaging”**

Presented by ZHAOHUI WU, MD, PhD

10:35 - 10:55 am

**“NFAT Associated Long Noncoding RNA
in Colorectal Cancer Health Disparity”**

Presented by MANISH TRIPATHI, PhD

10:55 - 11:05 am

Mid-Morning Break

11:05 - 11:25 am

“Development of Novel Therapies for Retinitis Pigmentosa”

Presented by NAWAJES MANDAL, PhD, and
HARRY KOCHAT, PhD

11:25 - 11:45 am

**“Future of MicroRNA Based Nanomedicine for
Prostate Cancer Treatment”**

Presented by SUBHASH CHAUHAN, PhD

11:45 am - 12:05 pm

“Identifying Chemical Modulators of the UBE3A Ubiquitin Ligase as a Therapeutic Strategy to Treat Epileptic Seizures”

Presented by LAWRENCE T. REITER, PhD, and GLEN E. PALMER, PhD

12:05 - 12:25 pm

“Unique Nanoplatfoms for Delivery of Therapeutics”

Presented by MURALI YALLAPU, PhD

12:25 - 12:45 pm

Lunch Break

12:45 - 1:05 pm

“FADS1 Nutrigenetics in Childhood Obesity”

Presented by CHARLES R. YATES, PharmD, PhD, and WEBB SMITH, PhD

1:05 - 1:25 pm

“The Breast Microbiota and Mucosal Immune System in African American and Non-Hispanic White Breast Cancer Tissues”

Presented by ATHENA STARLARD-DAVENPORT, PhD

1:25 - 1:45 pm

“Targeting the Aromatic Amino Acid Synthesis Pathway to Develop a New Class of Broad Spectrum Antifungals”

Presented by GLEN E. PALMER, PhD

1:45 - 2:15 pm

Closing Remarks, Presentation of CORNET Award Certificates, and Photographs

STEVEN R. GOODMAN, PhD

Vice Chancellor for Research

CORNET AWARD RECIPIENTS

2016 UTHSC CORNET Awards

“Novel Approach to Treat Drug Resistant Clostridium Difficile Infections: Proof-of-pharmacological Concept”
Isaac Donkor, PhD; Michio Kurosu, PhD; Ying Kong, PhD

“Genetic Analysis of Rapid Desensitization of the CB1 Receptor in BXD Mice”
Bob Moore, PhD; Byron Jones, PhD; Megan Mulligan, PhD

“Exploring the Therapeutic Potential of a Novel Drug for the Treatment of Alzheimer’s Disease by Targeting Neuroinflammatory Processes”
Detlef Heck, PhD; Bob Moore, PhD; Francesca-Fang Liao, PhD;
Anton Reiner, PhD

“Selective Targeting of TRPC3 Ion Channel for Alzheimer’s Disease Therapy”
Catherine Kaczorowski, PhD; Wei Li, PhD; Kristen O’Connell, PhD

“Clinical, Demographic, Genetic, and Epigenetic Determinants of Health Related Quality of Life Post Aneurysmal Subarachnoid Hemorrhage”
Ansley Stanfill, PhD, RN; Lucas Elijevich, MD; Brandon Baughman, PhD;
Claire Simpson, PhD

“Novel 20-hydroxyvitamin D3 (20D3) Analogues for Periodontitis Treatment”
David Tipton, DDS, PhD; Wei Li, PhD; Yanhui Zhang, PhD;
Franklin Garcia-Godoy, DDS, PhD, PhD; Liang Hong, DDS, PhD

“MFCI, BURST and OMICS: Mining Actionable Insights for the Biomedical Researcher”
Charisse Madlock-Brown, PhD, MLS; Robert Davis, MD, MPH;
Panduka Nagahawatte, MS

“Scavenger Receptor-mediated Mechanisms in Age-related Macular Degeneration”
Francesco Giorgianni, PhD; Marko Radic, PhD

“Epigenomic Characterization of Neoplastic Progression in HPV-Associated Vulvar Cancer”
David Shibata, MD, FACS, FASCRS; Wendy Likes, PhD, DNSc, FAANP;
David Robins, MD; Todd Tillmanns, MD, FACOG; Leslie E. Lopez-Calderon, MD

“Interactive Exercise Intervention System via Xbox Kinect”
WEBB A. SMITH, PhD; Mark Myers, PhD; Annie Chan, PhD;
Tara O’Brien, PhD, RN, CNE

“Host Determinants of Female Reproductive Health Following Chlamydia Infection”

John Cox, PhD; Yan Cui, PhD; Mark Miller, PhD; Brian Peters, PhD;
Michael Whitt, PhD; Robert Williams, PhD

**UTHSC/University of Arkansas
for Medical Sciences CORNET Awards in Substance Abuse**

“The Role of Genetics in the Neuroimmune Response to Developmental Alcohol Exposure in the Hippocampus”

Kristin Hamre, PhD (UTHSC); Cynthia Kane, PhD (UAMS)

UT CORNET Awards in Cancer

“Real-time Autobioluminescent Imaging of NF- κ B and Wnt Signaling Activities and Their Synergistic Co-activation in Cancer”

Zhaohui Wu, MD, PhD (UTHSC-Memphis); Steven Ripp, PhD (UT Knoxville)

“Dual Therapeutic Nanoplatform Delivery for Effective Breast Cancer Treatment”

Murali Yallapu, PhD (UTHSC-Memphis);
Hwa-Chain Robert Wang, PhD (UT Knoxville, College of Veterinary Medicine)

“Role of lncRNA-NRON and NFAT in CRC Health Disparity”

Manish Tripathi, PhD (UTHSC-Memphis); Cuilan Gao, PhD (UT Chattanooga)

**UTHSC/University of Arkansas
for Medical Sciences CORNET Awards in Cancer**

“HPV Genotypes Associated with Esophageal Cancer Excess in Poultry Workers”

David Shibata, MD, FACS, FASCRS (UTHSC);
Eric Johnson, MB;BS, PhD, MPH, DTPH (UAMS)

“TNF- α Targeted Nanomedicine for Improved Chemotherapy and Radiation Treatment in HNSCC”

Murali Yallapu, PhD (UTHSC); Robert Griffin, PhD (UAMS)

“Online vs. In-person Lay Health Advisor Training for Weight Loss”

Ilana Graetz, PhD (UTHSC); Karen Yeary, PhD (UAMS)

“An Investigation of the Microbiome and Mucosal Immune System in Breast Tumor and Normal Tissue from African American and non-Hispanic White Women”

Athena Starlard-Davenport, PhD (UTHSC); Barbara Fuhrman, PhD (UAMS)

2017 UTHSC CORNET Awards

“Development of Novel Therapies for Retinitis Pigmentosa”

Nawajes Mandal, PhD; Harry Kochat, PhD; Charles Ryan Yates, PhD,
Edward Chaum, PhD

*“Identifying Chemical Modulators of the UBE3A Ubiquitin Ligase
as a Therapeutic Strategy to Treat Epileptic Seizures”*

Glen Palmer, PhD; Lawrence Reiter, PhD

“Developing Novel Drugs to Antagonize FGF23/FGFR/-Klotho Signaling”

Darryl Quarles, MD; Charles Ryan Yates, PhD

“Restitution of miR-205 in Prostate Cancer”

Subhash Chauhan, PhD; Yi Lu, PhD

*“Investigation of the Oral Microbiome
in Pediatric Obesity and Metabolic Disease”*

Joan Han, MD; Yanhui Zhang, PhD; Joseph Pierre, PhD;
Franklin Garcia-Godoy, DDS, PhD, PhD

*“Association of FADS1 Genotype with Metabolic Health and
Inflammation in Children with Obesity in Relation to Dietary Intake
of Omega-6 and Omega-3 Polyunsaturated Fatty Acids”*

Webb Smith, PhD; Joan Han, MD; Charles Ryan Yates, PhD

UTHSC/Southern Research CORNET Awards in Drug Discovery and Development

*“Targeting the Aromatic Amino Acid Synthesis Pathway to
Develop a New Class of Broad Spectrum Antimicrobial Agents”*

Glen Palmer, PhD

“Drug Discovery Targeting LPA GPCR Subtype 5”

Sue Chin Lee, PhD

UTHSC/Harbin Medical University CORNET Awards in Cancer, Vascular Disease, Diabetes, and Epidemiology

“Exploring the Mechanism of Tmem 43 Induced Cardiomyopathy”

Lu Lu, MD (UTHSC); Deli Dong, PhD (HMU)

“Chemotherapy-enhanced Immunotherapeutic Response in Treating TNBC”

Zhaohui Wu, MD, PhD (UTHSC); Qingyuan Zhang, MD (HMU)

*“Development and Evaluation of Chimeric Antigen Receptor
(CAR) T Cells for Treatment of Multiple Myeloma”*

Marko Radic, PhD (UTHSC); Jin Zhou, MD, PhD (HMU)

UTHSC CORNET Awards in Clinical Research

“Role of LncRNA-MALAT1 in Colorectal Cancer Health Disparity”

Manish Tripathi, PhD; David Shibata, MD, FACS, FASCRS; Meena Jaggi, PhD

“Defining and Predicting Outcomes of Congenital Cytomegalovirus Infection”

Maria Carrillo-Marquez, MD; James Lewis, PhD; Asim Choudhri, MD;
Roosbeh Rezaie, PhD; Heather Smallwood, PhD; John DeVincenzo, MD

“Investigation of miR-29 as a Novel Fetal Hemoglobin Inducer and Treatment for Patients with Sickle Cell Disease”
Athena Starlard-Davenport, PhD; Patricia Adams-Graves, MD

“Epigenomic Study of Short-term Prescription Opioid Use”
Khyobeni Mozhui, PhD; Jeffery Brooks, DMD

Africa CORNET Awards

“APOL1: A Newly Identified Genetic Risk for Preeclampsia with Implications for sub-Sahara Africa”
Robert Davis, MD, MPH; Claire Simpson, PhD

Vice Chancellor for Research CORNET Awards

“Seizure Suppression in Dup15q Syndrome”
Lawrence Reiter, PhD

“Novel Extended Release Glaucoma Therapy”
Monica Jablonski, PhD

“Angiotensins, Prostaglandins-Adrenergic Interactions”
Kafait U. Malik, PhD

“A Multi-Variable Predictive Model for Long-Term Disability Outcomes Post Aneurysmal Subarachnoid Hemorrhage”
Ansley Stanfill, PhD, RN

“Investigations into the Etiology of Phantom Limb Sensations and Phantom Limb Pain”
Robert Waters, PhD



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