The UHD Scholars Academy (SA) is an academically competitive program in the College of Sciences and Technology (CST) that promotes scholarship and student success for undergraduate students majoring in Science, Technology, Engineering and Mathematics (STEM).

One Main Street, 725-North; Houston TX 77002-1001
Phone: 713-222-5344; Fax: 713-222-5356; scholars@uhd.edu; www.uhd.edu/scholars
Poster Presentation Session I (1:30PM-2:15PM):

2 - Aaron Torres, “Using Caffeic Acid & Azilarin Red S as a Green Anti-Corrosion Inhibitor for Steel Alloys”

Authors:

Dr. Jiang Mian
UHD Faculty Mentor: Dr. Mian Jiang
Project Location: University of Houston-Downtown

4 - Alexander Benavidez, Sekou Samake, “Comparison of Plant Endophytic Communities in Heritage and Modern Corn, Zea mays”

Authors:

Dr. Lisa D. Morano
UHD Faculty Mentor: Dr. Lisa D. Morano
Project Location: University of Houston-Downtown

6 - Alisa Turchaninova, “Investigating a Steady-State Thermistor Problem”

Authors:

Dr. Volodymyr Hryniv
UHD Faculty Mentor: Dr. Volodymyr Hryniv
Project Location: University of Houston-Downtown

8 - Amanuel Wonbera, “The Anticancer Efficacy of Components from Pearl Garlic against Breast Cancer Cells In vitro”

Authors:

Dr. Hamida Qavi
UHD Faculty Mentor: Dr. Hamida Qavi
Project Location: University of Houston-Downtown

10 - Andrea Hain, Johanna Moreno, “Comparison of Morphological Characteristics, Genetics, and Nutritional Data of Multiple Varieties of Plant Species Brassica oleracea”

Authors:

Chau Huynh, Leticia Villalobos, Reyna Valdez, Yarmilla Reyes, Jonathan Garcia
UHD Faculty Mentor: Dr. Lisa Morano
Project Location: University of Houston-Downtown

12 - Anna Wheless, Ashlyn Holbert, “Phylogeography of Geomys personatus Subspecies in Texas”

Authors:

Dr. Amy Baird
UHD Faculty Mentor: Dr. Amy Baird
Project Location: University of Houston-Downtown

14 - Boranai Tychhon, “Determination of Anticancer Efficacy of Isolated Compounds from Neem Leaf on Breast Cancer Cells in vitro”

Authors:

Dr. Tyra Hessel, Dr. Hamida Qavi
UHD Faculty Mentors: Dr. Tyra Hessel, Dr. Hamida Qavi
Project Location: University of Houston-Downtown

16 - Carolina Perez Lopez, “Isolation of Compounds from Softneck Garlic as Anticancer Agents”

Authors:

Dr. Hamida Qavi
UHD Faculty Mentor: Dr. Hamida Qavi
Project Location: University of Houston-Downtown


Authors:

Dr. Katarina Jegdic
UHD Faculty Mentor: Dr. Katarina Jegdic
Project Location: University of Houston-Downtown

20 - Chika Nworah, “Theoretical Studies of Silver (I) Complexes with Anticancer and Antibacterial Properties”

Authors:

Dr. Maria Benavides
UHD Faculty Mentor: Dr. Maria Benavides
Project Location: University of Houston-Downtown
52 - Mahesh Basyal, Reyna Valdez, “Determination of Cytotoxic Effects of Synthetic Compounds on Multiple Cancer Cell Lines”
Co-Authors: Zakariya Mahmood, Jeziel Ibag, Linus Klingler, Nuru Makame
UHD Faculty Mentor: Dr. Rachna Sadana
Project Location: University of Houston-Downtown

54 - Margaret Stagg, Mona Shamsulhaq, Jacqueline Paulino, Melinda Strahan, Elma Suskie, “Supporting a Local Business through Operations Management”
UHD Faculty Mentor: Dr. Elias Keedy
Project Location: University of Houston-Downtown

56 - Maria Espino, Graham Wilson, “Mash Tun Batch Process with Bioreactor”
Co-Authors: Erick Cabrera, Joshua Balandran, Dr. Vassili Tsouanas, Dr. Lisa Morano
UHD Faculty Mentor: Dr. Vassili Tsouanas
Project Location: University of Houston-Downtown

58 - Maria Neira, “GeoROV Cone Penetrometer Test”
Co-Authors: Dr. Alex Barnard, Mr. Mike Fearn
UHD Faculty Mentor: Dr. Alex Barnard
Project Location: UTEC Survey, Inc

60 - Melissa Camarillo, “Spiral Staircase”
Co-Authors: Omar Alazawi, Edwin Villagoro, Tahj Johnson, Sandy Nwulu, Emmanuel Mendiola, David Wong, Jessica Innis
UHD Faculty Mentor: Dr. Arash Rahmatian
Project Location: University of Houston-Downtown

62 - Michelle Martin, “A Geoscience Bicycle Field Trip Along Buffalo Bayou, Houston, Texas”
Co-Authors: Dr. Alex Barnard
UHD Faculty Mentor: Dr. Alex Barnard
Project Location: Houston, Buffalo Bayou

64 - Nia Griffith, “The Efficacy of Components from Crocus sativus stigmas Against Breast Cancer Cells In Vitro”
UHD Faculty Mentor: Dr. Hamida Qavi
Project Location: University of Houston-Downtown

66 - Paula Calderon, “True Happiness: A Study of Spiritual Need and Subjective Well-Being”
UHD Faculty Mentor: Dr. Nausheen Pasha-Zaidi
Project Location: University of Houston-Downtown

68 - Praneeth Nadimpalli, Darwin Argueta, Emma Schlee, “Is it Possible to Bring the Dead Back to Life?”
Co-Authors: Joly Fahim, Carolina Fernandez, Jacob Thorp, Amrutha Nanduri, Abdullah Khrushid
UHD Faculty Mentor: Ms. Mitaue Nakamura
Project Location: University of Houston-Downtown

70 - Rajni Dhuddrai, “Assessing the Genetic Basic of Exploration Behavior in Interspecies lines in Drosophila Species”
Co-Authors: Dr. Yanyuan Kang, Dr. Roman, Connie Okon, Maria Frusto
UHD Faculty Mentor: Dr. Yanyuan Kang
Project Location: UHD

72 - Ramiro Mendoza, “Calibration of Piping Code Equations for Earthquake Load”
UHD Faculty Mentor: Dr. Kleio Avrithi
Project Location: University of Houston-Downtown

74 - Ruby Salinas, “Comic Book Shows: Gender Roles, Admiration and Differences”
UHD Faculty Mentor: Dr. Nausheen Pasha-Zaidi
Project Location: University of Houston-Downtown

76 - Shannon Cain, “Cost Analysis of Concrete Mix Design According to ACI 318 Code”
Co-Authors: Dr. Arash Rahmatian
UHD Faculty Mentor: Dr. Arash Rahmatian
Project Location: University of Houston-Downtown

78 - Takese Mckenzie, Fatma Diefalla, “Can Humans Access Their Full Brain Capacity?”
Co-Authors: Angelinda Maldonado, Christopher Yepez, Davy Perez, Esmeralda Gramajo, Felsa Sanchez, Paul Nixon, Raven Robertson
UHD Faculty Mentor: Ms. Mitsue Nakamura
Project Location: University of Houston-Downtown

80 - Ta-Kwong Lee, “Enumerating the Molecular Interactions in Thin Layer Chromatography for Better Results”
UHD Faculty Mentor: Dr. Robin Jose
Project Location: University of Houston-Downtown

82 - Tristan Arroyo, Lynda Juarez, Charlie Lazo, “King Kong: Fact or Fiction?”
Co-Authors: Sahira Palomo, Alan Saavedra, Jacqueline Torralba
UHD Faculty Mentor: Ms. Mitsue Nakamura
Project Location: University of Houston-Downtown

84 - William Reyes, “Using Confidence Intervals to Evaluate Biostratigraphic Ranges in the Chinle Formation”
Co-Authors: Sage Muttel
UHD Faculty Mentor: Dr. Jeffrey Martz
Project Location: University of Houston-Downtown

86 - Yue Jiao, “Earthquake Analysis of Multi Story Buildings”
UHD Faculty Mentor: Dr. Youn-Sha Chan
Project Location: University of Houston-Downtown

Co-Authors: Esteban Duran, Dr. Hong Lin, Dr. Yuchou Chang
UHD Faculty Mentor: Dr. Yuchou Chang
Project Location: University of Houston-Downtown
Keynote Speaker: (9:35AM-9:50AM)
Elda M. Rueda, PhD
Postdoctoral Associate
Department of Molecular Physiology and Biophysics
Baylor College of Medicine

Presentation Title: “Understanding the instructive role of mitochondria in adult, developing, aging and injured retina: a path that started in undergraduate school where the experience translated into better preparation for a career in science”

Biography: Dr. Elda Rueda obtained a B.S. in Chemistry from the University of Houston-Downtown in 2011. While at UHD, Dr. Rueda was a member the Scholars Academy, served as an undergraduate researcher with Drs. Jerry Johnson and Byron Christmas, received the Outstanding Support as a Natural Science Tutor award, and was awarded the Louis B. Stokes Alliance for Minority Participation scholarship two years in a row. Dr. Rueda received her doctorate degree in Physiological Optics and Vision Science from the University of Houston in 2016 and she is currently a postdoctoral associate pursuing training at Baylor College of Medicine in the Department of Molecular Physiology and Biophysics.

As an undergraduate student, Dr. Rueda was involved in peer-mentor programs at the UHD, and during her graduate training, she was mentored by senior graduate students and mentored and guided undergraduate students on how to develop scientific research questions, use imaging techniques and interpret and analyze the results.

As a Hispanic woman and first generation college student, she is very proud of her academic accomplishments thus far, but she still has many career goals, which include her training as a mentor and educator. Through her undergraduate and graduate studies she realized how valuable and essential it is to develop skills that will allow her to contribute to the development of other students. Her long-term career goal is to become an independent investigator, educator and mentor within a Hispanic serving institution so that she may drive innovative biomedical research while also directly encouraging the intellectual and professional development of the next generation of scientists.

Presentation Abstract: Mitochondrial decline precedes neural degeneration. Moreover, mitochondria are key players of neural regeneration. Having a greater understanding of the altered mitochondrial metabolism in human retinopathies is required if we are to ever achieve efficient cell replacement therapies or develop methods to prevent the initiation of neuronal degeneration and vision loss.

My project started when I was an undergraduate student at UHD where I learned the advantages of using confocal microscopy to understand retinal biochemistry, a project that I expanded on during my graduate studies at UH. This long time commitment translated into better preparation for my present postdoctoral position. My most recent work is involved in understanding the instructive role that mitochondria and metabolism play during retinal development.

Coordination of retinal progenitor cells (RPC) proliferation and differentiation is essential for regulating tissue size and ensuring proper development and ratios of the various retinal cell types essential for normal physiology. During RPC proliferation, there is clear coupling of metabolic/mitochondrial activity and cell cycle progression. However, in mammalian systems, mitochondrial influence over proliferation and differentiation is largely unexplored. We use the mouse retinal model system and in vivo confocal imaging to determine the precise cellular requirement for electron transport chain (ETC) activity during neural progenitor cell proliferation. We generated a functional knockout of the ETC by targeting the loss of the mitochondrial transcription factor A (Tfam).

Our data indicates that loss of Tfam leads to RPC cell cycle exit and eventual apoptosis and represent the first example of a role for Tfam in retinal development. We propose that the loss of ETC function directly impacts the RPC cell cycle machinery and current experiments are being performed to determine the specific cellular and molecular requirements for the ETC during RPC proliferation.
External Community Speaker: (12:05PM-12:20PM)
Waclaw Gudowski, PhD
Professor
KTH-Royal Institute of Technology
Stockholm, Sweden

Presentation Title: “Invigorating (Nuclear) Engineering Education with “TEEE – TE3– Technology Empowered Engineering Education”

Biography: Dr. Waclaw Gudowski is a Professor in Neutron and Reactor Physics at Kungliga Tekniska Högskolan (KTH) - The Royal Institute of Technology in Stockholm, Sweden. Dr. Gudowski completed a PhD at the University of Mining and Metallurgy in Krakow (Poland) based on the work done on design of the fast pulsed research reactor IBR-2 in Dubna, Russia and is one of the European pioneers of research in accelerator driven transmutation of nuclear waste, or so called Accelerator Driven Systems - ADS.

From 1996 to 1999, Dr. Gudowski coordinated the first European research project on ADS - Impact of the Accelerator Based Technologies on Nuclear Fission Safety (IABAT) with 10 research institutes from six European countries. This project has grown and branched into eight different ADS-related projects in the 5th Framework Programme (FP) of the European Community. In the 6th FP - one of the architectures of the biggest ever European Integrated Project - IP Eurotrans.

Until 2006, Dr. Gudowski served as coordinator of the European project “Impact of Transmutation and Reduction of Waste on Geological Waste Repository – RED-IMPACT” with 23 different partners representing 11 European countries. A very specific feature of this project was that partners of the RED-IMPACT project came from three different communities: research institutes, universities and waste management agencies/companies.

From 2006 to 2011, Dr. Gudowski was on leave from the Royal Institute of Technology for an assignment as a Deputy Executive Director of the International Science and Technology Center (ISTC) in Moscow representing the European Union and being responsible for 50 MS research project program in nuclear and renewable technologies. From mid-2011 he served as Program Director of the KTHs Master Program in Nuclear Energy Technology, which he designed and established at KTH in 2006 before his term at the International Science and Technology Center in Moscow. This Master Program is now most dynamically developing E-learning platform – Technology Empowered Engineering Education – TEEE or TE3 for nuclear technology education.

Author of over 100 scientific papers in nuclear technology, nuclear data and solid-state physics, Dr. Gudowski is also a distinguished professor of the Institute of Modern Physics in Lanzhou, China.

Presentation Abstract: Leading technical universities worldwide develop nowadays intensively so called E-learning both for academic and non-academic education. E-learning possibilities and attractive presence in the cyber-space will be soon also an important criterion for applicants and university evaluators.

Royal Institute of Technology – KTH in Stockholm, Sweden develops its own model of E-learning called “Technology Empowered Engineering Education” – TEEE or TE3 in order to invigorate engineering education, in nuclear area in particular. TEEE at KTH is very much in-line with the KTH’s main educational mission: excellent “Campus-based” engineering education supported by technology in order to make education more attractive and more creative, to enhance learning pace and consequently improve a “through-put” for the program students. There are also very specific incentives and benefits of TEEE at KTH:

- Self-improvement of pedagogical quality of the lectures: TEEE platform implies video recording of the lectures which turns out to be the easiest, most effective and self-stimulating means to improve the pedagogical level of the lectures
- Regaining intensity of calculus exercises, home assignments and students off-campus activities managed TEEE tools without extra workloads on teachers - unloading teachers from time consuming and not really rewarding grading/assessment duties
- Better preparation for laboratory exercises and lab projects through preparatory work on lab simulators
- Instant results of examinations and home/test assignments. Extremely important argument for an efficient education. It meets also very well students expectations.

TEEE becomes now also the main platform for “education on demand” and “distance education” for NON-ACADEMIC customers. Finally, a common activities between KTH and UHD will be presented: a Summer Course on the Back-end of the Nuclear Fuel Cycle – A Swedish Model of Geological Disposal for Spent Nuclear Fuel. Having in mind up-side-downs with the Yucca Mountain disposal project and public concerns related to the spent nuclear fuel issues this cooperation is of outmost importance for both partners.
Poster Presentation Session II (2:15PM-3:00PM):

1 - Amée Stevenson, “Workout Coupling: Study the Influence on One’s Workout on the Other”
Co-Author: Carla Gonzalez
UHD Faculty Mentor: Dr. Dvijesh Shastri
Project Location: University of Houston-Downtown

3 - Angela Dominguez, Yadira Gamez, “Deciding to Seek Therapy: The Effects of Religion and Spirituality Across Ethnic Groups”
UHD Faculty Mentor: Dr. Erlanger Turner
Project Location: University of Houston-Downtown

Co-Author: Dr. Katarina Jegdic
UHD Faculty Mentor: Dr. Katarina Jegdic
Project Location: University of Houston-Downtown

7 - Brandon F. Padgett, “Thermal Analysis of Madstones”
Co-Author: Dr. Janusz Grębowicz, Dr. Kenneth Johnson
UHD Faculty Mentor: Dr. Janusz Grębowicz
Project Location: University of Houston-Downtown

9 - Isabel Cornejo, “Studies of Kin Discrimination Patterns in the Social Bacterium Myxococcus xanthus”
Co-Author: Pintu Patra2, Kimberley Kisson1, 3, Oleg Igoshin2, and Heidi B. Kaplan4
Faculty Mentor: Dr. Heidi B. Kaplan
Project Location: UT Health, McGovern Medical School

11 - Charles Punnathara, “Russian Blue Batteries for Cost Effective Storage”
UHD Faculty Mentor: Dr. Mian Jiang
Project Location: University of Houston-Downtown

Co-Author: Joseph Duron, Jose Garcia
UHD Faculty Mentor: Dr. Arash Rahmatian
Project Location: University of Houston-Downtown

15 - Douglas Szydek, “High Temperature Decomposition of M(III)-Acetylcetonato Organometallics”
Co-Author: Evrim Arslan, Roger A. Lalancette
UHD Faculty Mentor: Dr. Janusz Grębowicz
Project Location: University of Houston-Downtown

17 - Elissa Guerra, Yvette Coreas, “Comparing Anti-bacterial Properties of Synthetic Compounds to Known Antibiotics on Escherichia coli, Bacillus subtilis, Bacillus cereus, and, Staphylococcus aureus”
Co-Author: Dr. Rachna Sadana, Dr. Sanghamitra Saha
UHD Faculty Mentor: Dr. Rachna Sadana
Project Location: University of Houston-Downtown

19 - Emilia Caylor, “Inherited Zircon Ages as a “Fingerprint” of Granite Source Regions”
Co-Author: Dr. Kenneth Johnson, Dr. Joshua Schwartz,
UHD Faculty Mentor: Dr. Kenneth Johnson
Project Location: Czech Republic

UHD Faculty Mentor: Dr. Yuchou Chang
Project Location: University of Houston-Downtown

23 - Gabrielle Hernandez, Diana Martinez Silva, Jeffrey Rodriguez, “Validation for the MiMIC (GPRK2-GFP) Line as a Tool to Study the Expression Patterns and Behavioral Outputs of GPRK2 in Drosophila melanogaster”
UHD Faculty Mentor: Dr. Yuan Yuan Kang
Project Location: University of Houston-Downtown

25 - Glaunhyane Viana, Jonathan Smith, “Multistage Automated Desalination Station (MADS)”
UHD Faculty Mentor: Dr. Weining Feng
Project Location: University of Houston-Downtown

UHD Faculty Mentor: Dr. Pasha Nausheen
Project Location: University of Houston-Downtown

29 - Ignacio Hernandez, Rajni Dhadral, “The Role of Embedded Tutoring in the Classroom and its Impact on Student Engagement and Performance”
Co-Authors: Tanu Uppal
UHD Faculty Mentor: Ms. Tanu K. Uppal
Project Location: University of Houston-Downtown

31 - Irvin Romero, Boranai Tychhon, “Learning Experience in Occular Diseases through Shadowing”
Co-Authors: Phuong Nhi Tran, Dr. Hamida Qavi
UHD Faculty Mentor: Dr. Hamida Qavi
Project Location: Eye Excellence Clinic

33 - Jacqueline Rocha, “Antibiotic Sensitivity of Bacteria in Single- and Multi-Species Communities”
Co-Authors: Milimir Murillo, Geneva Jahan-Tigh
UHD Faculty Mentor: Dr. Poornam Gulati Salhotra
Project Location: University of Houston-Downtown

35 - Jesse Gilmore, Scott Patterson, Anthony Alizedah, “Sustainable Development and Engineering Technology”
UHD Faculty Mentor: Dr. Vassilios Tzoumanas
Project Location: University of Houston-Downtown

37 - Jianyi Hou, Omar Moghrabi, “How Abundant are Genetically Modified Organisms (GMOs) in Your Food? An Investigation into the GMO Debate”
Co-Authors: Dr. Yuan Yuan Kang
UHD Faculty Mentor: Dr. Yuan Yuan Kang
Project Location: University of Houston-Downtown

39 - Johnathan Torres, David Alvarado, “Thermal Analysis of Green River Oil Shale”
UHD Faculty Mentor: Dr. Janusz Grębowicz
Project Location: University of Houston-Downtown

41 - Leticia Villalobos, Ashley Hudson, “Plant Nutrition Evaluation in Two Leafy vegetables, Beta vulgaris var. cica and Lactuca sativa”
UHD Faculty Mentor: Dr. Lisa D. Morano
Project Location: University of Houston-Downtown

43 - Linus Klingler, Zakariya Mahmood, “An Analogue of Indolyl-keto-oxadiazole Exhibits Cytotoxic Effects on Multiple Cancer Cell Lines and Causes Apoptosis via Inhibition of Tubulin Polymerization”
Co-Authors: Reyna Valdez, Zachary Olson, Jessie Smith
UHD Faculty Mentor: Dr. Rachna Sadana
Project Location: University of Houston-Downtown

45 - Magge Nunez, “Analyzing Ethnic Identity and Reading Habits of Latino College Students: Every Sentence Has a Story”
UHD Faculty Mentor: Dr. Nausheen Pasha
Project Location: University of Houston-Downtown

47 - Manuel Reyes-Leon, “The Anticancer Effects of Components from Green Basil on MCF-7 Breast Cancer Cells In vitro”
Co-Authors: Dr. Tyra Hessel, Dr. Hamida Qavi
UHD Faculty Mentors: Dr. Tyra Hessel, Dr. Hamida B. Qavi
Project Location: University of Houston-Downtown

49 - Maria Paula Cano, “Children of Hunger”
UHD Faculty Mentor: Dr. John Linantud
Project Location: Houston, Texas / La Guajira, Colombia

51 - Maria L. Bitgood, “Vicarious Trauma and the Court Interpreter: Assessing its Physiological, Psychological, & Emotional Impact”
UHD Faculty Mentor: Dr. Ashley G. Blackburn
Project Location: University of Houston-Downtown

53 - Melissa Camarillo, “Floating Driveway”
Co-Authors: Jorge Carnaza, J. Miguel Barahona, Justin Mathis, Carlos Perez, Juan J. Torres, Andy Valdivia
UHD Faculty Mentor: Dr. Arash Rahmatian
Project Location: University of Houston-Downtown

55 - Michael Miller, Ashley Moreno-Gongora, Conrado Cacho, “Thermal Properties of Green River Shales”
UHD Faculty Mentor: Dr. Janusz Grębowicz
Project Location: University of Houston-Downtown

57 - Mohsin Lakhani, Jonathan Tan, David Leventon, “The Income Effect on Gasoline Prices and Grocery Purchases”
Co-Authors: Yue Jiao, Shifei Pan
UHD Faculty Mentor: Dr. Leonie Karkovita
Project Location: University of Houston-Downtown
59 - Omar Meraz, Linda DeLosSantos, Michael Ghossein, “Design and Control of a Distillation Process”  
UHD Faculty Mentor: Dr. Vassilios Tsouanas  
Project Location: University of Houston-Downtown

61 - Phuong Ho, Taktom Rashidfarokhi, “Inhibition of the Causative Agent of Dental Caries using a Natural Products”  
Co-Authors: Sandy Gramajo, Geraldine Lerner  
UHD Faculty Mentor: Dr. Poonam Gulati Salhotra  
Project Location: University of Houston-Downtown

63 - Rosa Medellin, “Isolation and Characterization of Mycobacteriophages”  
UHD Faculty Mentors: Dr. Sanghamitra Saha, Dr. Rachna Sadana  
Project Location: University of Houston-Downtown

Co-Authors: Dr. Tyra Hessel, Dr. Hamida Qavi  
UHD Faculty Mentors: Dr. Tyra Hessel, Dr. Hamida Qavi  
Project Location: University of Houston-Downtown

67 - Reyna Valdez, Yarmilla Reyes, Dorthy Tran, “Screening for Xylella fastidiosa Across a Collection of Plant Species in the Texas Gulf Coast”  
UHD Faculty Mentor: Dr. Lisa Morano  
Project Location: University of Houston-Downtown

Co-Authors: Dr. Jeffery Martz  
UHD Faculty Mentor: Dr. Jeffery Martz  
Project Location: Grand Staircase, Petrified Forest, Lake Powell, Capital Reef

71 - Sulaiman Jamal Asmatullah, “Branched Chain Amino Acids (BCAAs) Affect AxsA Activity in Bacillus anthracis”  
Co-Authors: Dr. Theresa M. Koehler, Naomi Bier, Malik J. Raynor  
UHD Faculty Mentor: Dr. Theresa M. Koehler  
Project Location: UTHealth McGovern Medical School

73 - Taylor Carter, Ashlyn Holbert, “Molecular Phylogenetic Study of Pocket Gophers (Genus Geomys) in Texas”  
Co-Authors: Dr. Amy B. Baird  
UHD Faculty Mentor: Dr. Amy B. Baird  
Project Location: University of Houston-Downtown

75 - Taylor Styers, “From Golden to Unimodular Cryptography”  
UHD Faculty Mentor: Dr. Sergiy Koshkin  
Project Location: University of Houston-Downtown

77 - Trung Le, Shayna St. Vallier, Asma Aziz, “Analysis of Microbial Biofilms on Plastic Samples from Galveston Bay”  
Co-Authors: UHD Faculty Mentor: Dr. Poonam Gulati Salhotra  
Project Location: University of Houston-Downtown

79 - Yareli Carcamo-Bahena, “Anticancer Activity of Components from Fresh Turmeric Roots”  
UHD Faculty Mentors: Dr. Tyra Hessel, Dr. Hamida Qavi  
Project Location: University of Houston-Downtown

81 - Yuleisy Ruiz Vazquez, “Computational Investigation of Platinum Complexes Containing adenine-based ligands”  
Co-Authors: Dr. Maria Benavides  
UHD Faculty Mentor: Dr. Maria Benavides  
Project Location: University of Houston-Downtown

83 - Zain Lakhan, “Adding Triangles by the Cubic, with a Bit of Einstein”  
UHD Faculty Mentor: Dr. Sergiy Koshkin  
Project Location: University of Houston-Downtown

Poster Presentation Session II – Graduate Level Projects (2:15PM-3:00PM):

85 - Durga Suryanarayanan, Sabahat Khan, “Visualizing Electricity Generation in the US”  
UHD Faculty Mentor: Dr. Dvijesh Shastri  
Project Location: University of Houston-Downtown

87 - Gustavo Blanco, “From the Battlefield to the Classroom”  
UHD Faculty Mentor: Dr. Colin Dalton  
Project Location: University of Houston-Downtown

89 - Jessica Galaviz, “Interactive Math Journals for Elementary Students”  
UHD Faculty Mentor: Dr. Amelia Hewitt  
Project Location: University of Houston-Downtown
Acknowledgements

It is a great pleasure to recognize the many individuals, organizations, and institutions supporting our UHD students in their research endeavors. These include significant funding of research over the past year from the National Science Foundation Noyce Program (0934913), Texas Workforce Commission (2813WPB000), U.S. Department of Education MSEIP (P120A130040), U.S. Nuclear Regulatory Commission (NRC-27-10-1121, NRC-HQ-12-G-38-0006), The Brown Foundation, Inc., Welch Foundation (BJ-0027), Shell Oil Co. and University of Houston-Downtown.

Many students conducted their research during summer research programs on and off-campus. Faculty and staff members of these and other academic institutions, as well as personnel at industrial facilities, have generously supported/mentored our UHD students.

In addition, we would like to thank the UHD faculty and staff who have worked tirelessly to support undergraduate research experiences as well as the UHD staff, faculty and administrators who have helped make this conference a success.

Thank you for participating in the 16th Annual UHD Student Research Conference!

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- UHD College of Business
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