

43rd Annual (2024) BSC Conference

BIOMARKERS AND SMART AGENTS: Design and application in histopathology, diagnostics

Pharmaceutical Chemistry Department at Ain Shams University, the Department of Chemistry at the University of Oklahoma and the Biological Stain Commission cordially invite scientists, researchers, graduate, and undergraduate students to participate on the 43rd Annual Biological Stain Conference titled "BIOMARKERS AND SMART AGENTS: Design and application in histopathology, diagnostics".

Scope:

Development and use of dyes, stains, and smart agents to identify and track disease. Topics will cover both the synthesis and use of dyes, stains, and smart agents in pathology, cancer, inflammation, infectious disease, and other applications.

Symposium Objectives:

- 1. To explore the role of small molecules in drug discovery and development for biomedical applications.
- 2. To address challenges and opportunities in the design, synthesis, and characterization of small molecules for biomedical applications.
- 3. To foster collaboration among researchers, academicians, and industry professionals in the field.
- 4. To provide a platform for young researchers and students to showcase their research and ideas.

Symposium Themes:

- 1. Organic synthesis strategies for small molecules discovery.
- 2. Structure-activity relationship (SAR) studies in medicinal chemistry.
- 3. Computational approaches in drug design and discovery.
- 4. Biochemical and pharmacological characterization of small molecules.
- 5. Natural product-based drug discovery.
- 6. Drug delivery systems and formulation strategies.
- 7. Emerging trends and technologies in pharmaceutical chemistry

Benefits of this Symposium to the students:

The student, who will present their posters, will be able to develop and improve their soft skills: presentation and critical thinking as well as present his work to researchers from various specializations of histology, biological markers, biological techniques, and molecular methods. He/she will be able to fine-tune their presentation to showcase to the audience from different backgrounds and answer questions they pose.

Poster Presentation Guidelines:

Posters presenters are responsible for setting up and removing the poster.

Posters should be laid out in the following segments:

- -Title: Identical to the title of the abstract
- -Authors' names and affiliations
- -Introduction
- -Aims
- -Methods
- -Results
- -Conclusions
- -References, contact details, & acknowledgment.

Speakers:

We are honored to announce the following speakers:

- 1. Dr. Maged Henary, Georgia State University, Atlanta, GA
- 2. Mohamed Mokhtar, Roswell Park Comprehensive Cancer Center, Buffalo, NY 3. Dr. Carol Bain, University of Indiana, Indianapolis, Indiana
- 4. Dr. Bruce Cochrane and Chad Fagan, Miami University and Biological Stain Commission
- 5. Dr. Lacey McNally, University of Oklahoma, Oklahoma City, OK
- 6. Dr. Zhang Han, University of Central Oklahoma, OK
- 7. Dr. Yihan Shao, University of Oklahoma, Norman, OK
- 8. Dr. Sheila Criswell, University of Tennessee, Memphis, TN
- 9. Undergraduate speaker
- 10. Graduate speaker

Important Dates:

Registration Deadline: [10/15/2024]

• Symposium Date: [11/8/2024]

Locations:

Biomedical Research Center 975 NE 10th St. Oklahoma City OK 73104 Stephenson Cancer Center 755 Research Parkway Oklahoma City, OK 73104

Registration Fees:

In-person general registration: \$50.00 (includes free 1-year membership to the Biological Stain Commission with free Biotechnic & Histochemistry journal access)

Zoom Session only: \$30.00

Undergraduate and graduate students: Free

Poster Fee: \$10.00

Prizes: \$1500 will be awarded and will be distributed among the following categories:

- •Best Graduate Abstract (winner will be asked to give 20-minute oral presentation)
- •Best Undergraduate Abstract (winner will be asked to give 20-minute oral presentation)
- •Best high school/undergraduate poster (first, second, and third place)
- •Best graduate poster (first, second, and third place)
- •Best post-graduate poster (first, second, and third place)

Hotel Information

A block of rooms has been reserved at the Embassy Suites by Hilton Oklahoma City Downtown Medical Center. The hotel is a 10 minute walk from the conference venues. To reserve at the BSC Rate, either click here or call the hotel at +1 405-239-3900 and indicate that you are with the Biological Stain Commission.

Contact Information:

Please send inquiries to Lacey McNally <u>Lacey_McNally@OUHSC.edu</u> or Chad Fagan Chad Fagan@URMC.Rochester.edu

Meeting Schedule

Thursday November 8

Conference Room 755 Research Park

3:00 PM Journal Meeting

5:00 PM Staining Laboratory Meeting (catering provided)

7:00 PM Trustees Planning Meeting

Friday November 9

Biomedical Research Center 975 NE 10th St.

8:00-4:00 Symposium

4:00-5:00 Annual Membership Meeting

5:30 Dinner

Saturday November 10

Conference Room 755 Research Park

8:00-12:00 Board of Trustees Meeting

Symposium Agenda

Theme of Presentation	Speakers	Affiliation
REGISTRATION and BREAKFAST		
The Biological Stain Commission: An Introduction	Bruce Cochrane and Chad Fagan	Miami University Biological Stain Commission
The Synthesis and Potential Biomedical Applications of Cyanine and Cyanine Like Dyes: Donor Acceptor NIR Fluorophores	Maged Henary	Georgia State University
Pancreatic Cancer Imaging and Treatment	Lacey McNally	University of Oklahoma
Break		
Best Submitted Undergraduate Abstract	TBD	
Immunohistochemistry Basics: From Immunology to a Stained Slide	Carol Bain	Indiana University School of Medicine
LUNCH BREAK and Poster Presentations		
Utilization of Immunohistochemistry in Breast Pathology	Mohamed Mokhtar Desouki	Roswell Park Comprehensive Cancer Center
Structure-Function Relationship of Small-Molecule Bioimaging Probes from Quantum Chemistry Modelling	Yihan Shao	University of Oklahoma
Segment-based Analysis of 18F-fluorothymidine Positron Emission Tomography Unveils Significant Prognosis Predictor for Hematopoietic Stem Cell Transplantation Therapy	Zhang Han	University of Central Oklahoma
	REGISTRATION and BREAKFAST The Biological Stain Commission: An Introduction The Synthesis and Potential Biomedical Applications of Cyanine and Cyanine Like Dyes: Donor Acceptor NIR Fluorophores Pancreatic Cancer Imaging and Treatment Break Best Submitted Undergraduate Abstract Immunohistochemistry Basics: From Immunology to a Stained Slide LUNCH BREAK and Poster Presentations Utilization of Immunohistochemistry in Breast Pathology Structure-Function Relationship of Small-Molecule Bioimaging Probes from Quantum Chemistry Modelling Segment-based Analysis of 18F-fluorothymidine Positron Emission Tomography Unveils Significant Prognosis Predictor for Hematopoietic Stem Cell	REGISTRATION and BREAKFAST The Biological Stain Commission: An Introduction Introduction The Synthesis and Potential Biomedical Applications of Cyanine and Cyanine Like Dyes: Donor Acceptor NIR Fluorophores Pancreatic Cancer Imaging and Treatment Break Best Submitted Undergraduate Abstract TBD Immunohistochemistry Basics: From Immunology to a Stained Slide LUNCH BREAK and Poster Presentations Utilization of Immunohistochemistry in Breast Pathology Structure-Function Relationship of Small-Molecule Bioimaging Probes from Quantum Chemistry Modelling Segment-based Analysis of 18F-fluorothymidine Positron Emission Tomography Unveils Significant Prognosis Predictor for Hematopoietic Stem Cell

2:25 – 2:35 p.m.	Break		
2:35 – 3:00 p.m.	Best Submitted Graduate Poster	TBD	
3:00 – 3:30 p.m.	Troubleshooting Immunhistochemistry	Sheila Criswell	University of Tennessee Health Science Center, Memphis, TN
3:30 – 4:00 p.m.	Concluding Remarks and Poster Awards		
4:00 – 5:00 p.m.	BSC General Membership Meeting		
5:30 – 7:30 p.m.	Dinner		

Map of Venues

