Call for Abstracts

USM LSAMP FALL RESEARCH SYMPOSIUM
COLLEGE PARK, MD

DEC 7, 2019
Undergraduate, community college, and graduate students within the University System of Maryland (USM) in science, technology, engineering, and mathematics (STEM), are invited to submit abstracts for the USM LSAMP Fall Research Symposium, which will take place at the University of Maryland College Park on Saturday, December 7, 2019.

The USM LSAMP Fall Research Symposium provides students with the opportunity to both view and present research through poster and traditional oral presentations, while also enhancing their scientific development. Participants will participate in the Symposium’s Graduate School & Resource Fair and learn more about graduate schools, summer research opportunities, research and graduate school funding, and more! This research symposium focuses on supporting students in the science, technology, engineering, and mathematics (STEM) fields.

The USM LSAMP Fall Research Symposium is supported by the Louis Stokes Alliances for Minority Participation (LSAMP), funded by the National Science Foundation (NSF).

Abstract Submission Website:
https://go.umd.edu/ABSTRACT

Abstract Submission Deadline: November 9, 2019
LSAMP FALL 2019 SYMPOSIUM CALL FOR ABSTRACTS

Eligibility: **Poster & Oral Presentations**

*Undergraduate and community college students* within the University System of Maryland in science, technology, engineering, and mathematics (STEM)

Abstract Submission Website: https://go.umd.edu/ABSTRACT

Abstract Submission Deadline: November 9, 2019
ABSTRACT FORMATTING AND SUBMISSION INSTRUCTIONS

To enter a poster, oral, or TED-style Talk presentation, we request that you submit an abstract of your presentation to be included in our program. For continuity and formatting in the program, we request that the following guidelines be used when composing your abstract:

1. Abstract title should be Calibri font (with proper formatting), bold typed, and centered.
2. Author names and addresses should be in regular text
3. Presenting author’s name should be in bold font and indicated by an asterisk (*)
4. Author affiliation, city, and state should be included and indicated by numbers where necessary and centered.
5. Abstract should contain no more than 2500 characters
6. Use Calibri, 12 point font
7. Use 1 inch margins
8. Text should be single spaced
9. Text should be justified with no indentations for new paragraphs
10. The preferred file format is Microsoft Word

Abstracts should contain the following information: Brief introduction of topic, study objectives, rationale for the study, and the future directions from the present study. Please do not list references in the abstract text. Abstracts exceeding the 2500 characters, including the title and all the relevant information will not be accepted.

Abstract Submission Website: https://go.umd.edu/ABSTRACT

Abstract Submission Deadline: November 9, 2019
Example Abstract with 169 words/1,019 characters (w/o spacing) in correct font and formatting:

Nanoparticle-based Immunoassays
Kenya Colvin¹, Dr. Ian White¹

¹Fishell Department of Bioengineering, University of Maryland, College Park, MD 20742

Increasing the survival rate of cancer patients is dependent on improvements in cancer diagnostics and therapy. The largest problem facing early cancer diagnosis is the inability to detect cancer biomarkers at low concentrations. To improve cancer diagnostics a highly sensitive and specific assay that can detect cancer biomarkers at low concentrations must be developed. We are developing such a model through combining the powerful amplification of real-time Polymerase Chain Reaction (PCR) and nanoparticle-based biosensors. Our proposed assay will use microparticles covered with antibodies to capture protein biomarkers in solution; then nanoparticles decorated with antibodies as well as DNA templates will sandwich the captured biomarkers. Nanoparticle-immuno-PCR (Nano-iPCR) will be used to assess the sensitivity of the biosensor by amplifying the DNA templates on the labeling nanoparticles. The speed of DNA amplification during Nano-iPCR corresponds to the amount of protein biomarkers present in solution. The sensitivity and specificity expected of this assay gives it the potential to be used in point-of-care diagnostics of cancer and other diseases such as Alzheimer’s.

Abstract Submission Guidelines

Abstracts are to be submitted though the website. Please save and submit your file under the filename: Lastname_FirstName_Abstract.doc (e.g. Colvin_Kenya_Abstract.doc) for all presentation abstracts. Confirmations of received abstracts, acceptances, requested corrections, and rejections will be sent electronically. If you do not receive a confirmation within a week, email Chelsey Lamar (lsamp@umd.edu) to request a processing update. The abstract should be submitted to the USM LSAMP Fall 2019 Research Symposium at the following electronic address: https://go.umd.edu/ABSTRACT. The Abstract deadline is November 9, 2019.

Abstract Submission Website:
https://go.umd.edu/ABSTRACT

Abstract Submission Deadline: November 9, 2019
Requirements: **Poster Presentation**

Posters should be designed and formatted to compete with those from the presenter’s academic area. All posters must indicate the following: Title, presenting author name, co-author name(s), affiliations, city and state as presented in the abstract. Generally, posters should include an Introduction, Materials and Methods, Results, Discussion, Literature cited, and Acknowledgements. Poster Board Displays will be provided which will accommodate Poster Paper Presentations up to a maximum size of 36 inches wide and 48 inches long. Poster Presentations smaller than this maximum size are acceptable. Push pins will be provided.

---

Requirements: **Oral Presentation**

Oral presentations should be designed and formatted to compete with those from the presenter’s academic area. All oral presentations must indicate the following: Title, presenting author name, co-author name(s), affiliations, city and state as presented in the abstract. For oral presentations, please plan to speak 10 minutes with 4 minutes of questions and answers for a total of 14 minutes. Accepted Oral presentations are to be submitted by November 2nd by 11:59pm. Please save and submit your file under the filename: `LastName_FirstName_Oral Presentation.ppt`. Accepted Oral Presenters will receive a separate link via email indicating where they should submit their presentation slides.

---

Abstract Submission Website:  
[https://go.umd.edu/ABSTRACT](https://go.umd.edu/ABSTRACT)

Abstract Submission Deadline: November 9, 2019
LSAMP FALL 2019 SYMPOSIUM CALL FOR ABSTRACTS

REGISTER TODAY FOR THE USM LSAMP FALL 2019 RESEARCH SYMPOSIUM!

https://go.umd.edu/2019FRS

Questions? Please contact:

Chelsey Lamar
LSAMP Program Coordinator
Center for Minorities in Science and Engineering

lsamp@umd.edu

Abstract Submission Website:

https://go.umd.edu/ABSTRACT

Abstract Submission Deadline: November 9, 2019