

4th Annual Henry Ford + Michigan State University Health Sciences Cancer Research Symposium

Abstract Guidelines

For your abstract to be considered, please see below:

- Abstracts should not be more than 320 words.
- All Abstracts should contain the following components:
 - Background (brief)
 - Hypothesis (if applicable)
 - Methods (descriptive experimental approach)
 - Results (data, metrics, statistics)
 - Conclusions (1 or 2 sentences)
- All submissions **must choose one of the four cancer research areas** listed below. We recognize that not all abstracts will exactly fit in a category; in that case, please choose the one that best fits.
 - **Cancer Imaging & Early Detection**- The development and utilization of medically applicable techniques to visualize biological, chemical, or physical process and/or processing the resultant images to improve diagnosis and/or treatment of cancer or related conditions. This category also includes research encompassing data from standard and emerging imaging advances in basic and clinical research to advance the knowledge and measurement of physiological and pathophysiological events. Molecular and genome-based technologies that advance the early detection of cancer are also included in this category.
 - **Cancer Biology & Immunology**-This broad category includes research focused on the following: cellular bio-membranes, organelles, cytoskeleton, motility, metabolism, energy conversion, molecular transport, biosynthetic and secretory pathways, protein structure and function. DNA replication, DNA repair, gene expression, cell cycle control, apoptosis, autophagy, senescence. Cell and cell- extracellular matrix interactions, membrane receptors and intracellular signaling. Cellular development, including the properties of stem, progenitor and differentiated cells. Basic and clinical immunology research in human and animal models, including innate and adaptive immune cell development and function, autoimmune diseases, inflammatory diseases. Basic research in cancer genetics is also included in this category.
 - **Experimental and Clinical Therapeutics**- This category encompasses research focused on the development, characterization, or validation of human disease models in laboratory animals or ex-vivo. This category may include research using experimental models to identify novel therapeutic targets, pre-clinical studies to test therapeutic response, and the use of experimental models in precision medicine. Research involving clinical trials in humans is also part of this category.
 - **Cancer Epidemiology, Prevention & Control**- This category includes epidemiologic research that identifies exogenous and endogenous cancer risk factors, biomarkers that predict disease onset and prognosis. Research that utilizes psychosocial and behavioral interventions to improve cancer outcomes, elucidate contextual factors and address cancer disparities. Research that is patient-oriented and wherever possible utilizes patient reported outcomes and other patient-centered tools to improve quality of life. Integrated data analysis of cancer genome, epigenome, transcriptome, proteome and metabolome to understand the genetic basis of cancer can be included in this

category. This category also includes research focused on understanding the risk factors and natural history and progression of human health and disease. Studies may include longitudinal cohort studies, case-control studies and cross-sectional studies. Topics on statistical methodologies or applications of novel statistical methods related to cancer control and prevention are also encouraged.

- Abstracts receiving the top scores in each of the four cancer research areas will be invited to orally present their research during a concurrent session on 8 November 2024.
 - Oral presentation winners will be eligible for a travel award that will cover hotel costs for one night (MSU trainees only) and a stipend for travel costs.
- At least one author will need to be present during the poster presentation time.
- You will be responsible for printing, putting up and removing your posters on the day of the poster session. Poster boards, push pins and other relevant stationary will be provided.
 - Please make sure your poster is **NO LARGER THAN 3' x 4'** (36 inches x 48 inches). If you have a larger size poster that you want to use, it will hang over the board.

DEADLINES:

- To be considered for an oral presentation, abstracts must be submitted no later than Friday, **September 20th, 2024**.
- Abstracts that do NOT want to be considered for oral presentation should submit their abstract no later than Friday, **October 4th, 2024**.
- The symposium poster session planning committee will review all entries and notify oral presentation winners, no later than Friday, **October 4th, 2024**.

Thank you for your submission.

Henry Ford + MSU Cancer Research Symposium Planning Committee

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