

Henry Ford + MSU Cancer Research Symposium

Maximum Impact: Working Together to Eliminate Cancer in Our Patients and Community

AGENDA

November 7-8, 2024

Cambria Hotel

600 W Lafayette Blvd., Detroit

For any questions, please contact Manpreet Kaur, mkaur1@hfhs.org

THURSDAY, NOVEMBER 7, 2024

4:30 – 8:00 pm **NETWORKING: THE LAFAYETTE ROOM**

4:30 – 6:00 Networking over drinks and hors d'oeuvres

6:00 – 6:15 Introduction and Opening Remarks
Norman Hubbard, MBA, Adnan Munkarah, M.D. and Steven Kalkanis, M.D.

6:15 – 6:30 Progress and Updates
Benjamin Movsas, M.D., Jeffrey MacKeigan, Ph.D., and Derek Raghavan, M.D.

6:30 – 7:30 Cancer Center Next Steps and Panel Discussion
Benjamin Movsas, M.D., Jeffrey MacKeigan, Ph.D., and Derek Raghavan, M.D.

7:30 – 8:00 Networking over drinks and hors d'oeuvres

FRIDAY, NOVEMBER 8, 2024

7:30 – 8:30 am Registration and Breakfast

SESSION 1A THE LAFAYETTE ROOM

8:30 – 9:30 am **PATIENT ENGAGEMENT IN CANCER RESEARCH**
Session Chairs: Sara Santarossa, Ph.D.

- 8:30-8:40 **Overview of and Opportunities for Patient Engagement in Cancer Research**
Sara Santarossa, Ph.D., Henry Ford Health
- 8:40-8:50 **Patient Engagement in Basic Cancer Research**
Ramandeep Rattan, Ph.D., Henry Ford Health
- 8:50-9:00 **Patient Engagement in Provider Initiated Cancer Research**
Samantha Tam, M.D., Henry Ford Health
- 9:00-9:10 **Patient Engagement in Health Services Research**
Eric Adjei Boakye, Ph.D., Henry Ford Health
- 9:10-9:20 **Patient and Community Engagement Research**
Kent D. Key, Ph.D., Michigan State University
- 9:20-9:30 **Patient Engagement in the PERC Patient Advisor Program**
Linda Stechison, Henry Ford Health PERC Patient Advisor

SESSION 1B SALA BALLROOM

- 8:30 – 9:30 am **CANCER IMAGING AND IMAGE- GUIDED THERAPIES INCLUDING NANOTECHNOLOGIES**
Session Chair: *Anna Moore, Ph.D.*
- 8:30-8:45 **Strategies for Alpha-particle Radiation Therapy of Cancer**
Kurt Zinn, Ph.D., Michigan State University
- 8:45-9:00 **Leveraging Nanoparticle Protein Corona Proteomics for Enhanced Disease Detection**
Morteza Mahmoudi, Ph.D., Michigan State University
- 9:00-9:15 **Breast Cancer Imaging and Adjunct Screening Updates**
Sabala Mandava, M.D., Henry Ford Health
- 9:15-9:30 **Theranostics: current status of treatment with Lu-177 Dotatate and Lu-177 PSMA 617**
Kevin O'Brien, M.D., Henry Ford Health

BREAK

9:30 – 9:45 am

SESSION 2A SALA BALLROOM

- 9:45 – 10:45 am **CARDIO-ONCOLOGY: MAXIMUM IMPACT FOR DIVERSE PATIENTS ACROSS THE CANCER CONTINUUM**
Session Chair: *Christine Neslund-Dudas, Ph.D.*
- 9:45-9:57 **The Cardiologist's Perspective on Cardio-Oncology**

Yelena Selektor, M.D., Henry Ford Health

9:57-10:09 **The Oncologist's Perspective on Cardio-Oncology**
Clara Hwang, M.D., Henry Ford Health

10:09-10:21 **The Henry Ford ExCITE Program- Translating Exercise Oncology Research into Practice**
Dennis Kerrigan, Ph.D., Henry Ford Health

10:21-10:33 **The Potential of FDA Approved Agents to Mitigate Radiation Induced Heart Injury**
Stephen Brown, Ph.D., Henry Ford Health

10:33-10:45 **Cardio-Oncology at HF+MSU: Where do we go from here?**
Madhulata Reddy, M.D., Henry Ford Health

SESSION 2B THE LAFAYETTE ROOM

9:45 – 10:45 am **GYNECOLOGIC CANCER RISK AND PREVENTION**
Session Chairs: Ronald Chandler, Ph.D. and Miriana Hijaz, M.D.

9:45-10:00 **Outcomes Associated with Levonorgestrel- Releasing Intrauterine Device Use for Treatment of Endometrial Intraepithelial Neoplasia or Clinically Early-Stage, Low-Grade Endometrial Adenocarcinoma**
Alicia Speak, D.O., Henry Ford Health

10:00-10:15 **Novel Therapeutics for Combatting Microtubule Associated Chemo-Resistance**
James Lord, Ph.D. student, Michigan State University

10:15-10:30 **The Predictive Value of CA-125 of radiographic Evidence of Metastasis in Aggressive Subtypes of Endometrial Cancer**
Madison Miller, M.D., Henry Ford Health

10:30-10:45 **Precision Control and Monitoring of Cancer Chemotherapy Using a Magnetic Particle Imaging-Based Nanoplatfom**
Yapei Zhang, Ph.D., Postdoctoral Fellow, Michigan State University

BREAK

10:45 – 11:00 am

SESSION 3A THE LAFAYETTE ROOM

11:00 – 12:00 pm **ORAL PRESENTATION AWARDEES**
Session Chairs: Kelly Hirko, Ph.D. and Ling Huang, Ph.D.

11:00-11:15 **First Use of Cesium-131 Embedded Collagen Tiles for Brachytherapy in the Spine: Combined Surgical Resection and Brachytherapy for Recurrent Rectosigmoid Adenocarcinoma Metastasis to the Sacrum**

Anisse Chaker, M.D., Henry Ford Health

11:15-11:30 **Leveraging Multifaceted Patient Data and Patient-Reported Outcomes for Prediction of Survival**

Sandhya Kilari, Graduate Student, Michigan State University

11:30-11:45 **VPS72 Controls Regulatory T Cell Adaptation and Stability in the Tumor Microenvironment**

Kalpana Subedi, Ph.D., Henry Ford Health

11:45-12:00 **Noninvasive Classification of Central Nervous System Tumors Using cfDNA Methylation Profiling: Development and Validation of a Multiclass Random Forest Model**

Bogdan Done, Ph.D., Henry Ford Health

SESSION 3B SALA BALLROOM

11:00 – 12:00 pm **ADVANCING GENOMIC LANDSCAPES: INNOVATIONS IN SPATIAL TRANSCRIPTOMICS**

Session Chair: Nallasivam Palanisamy, Ph.D.

11:00-11:15 **Introduction**

Howard Crawford, Ph.D., Henry Ford Health

11:15-11:30 **Human Pancreatic Cancer Single Cell Atlas Reveals Association of CXCL10+ Fibroblasts and Basal Subtype Tumor Cells**

Nina Steele, Ph.D., Henry Ford Health

11:30-11:45 **Spatial Transcriptomics in Skin Cancer and Inflammatory Diseases**

Jesse Veenstra, M.D., Henry Ford Health

11:45-12:00 **Elucidating Cellular Heterogeneity in Prostate Cancer Using Stereo sequencing**

Nallasivam Palanisamy, Ph.D., Henry Ford Health

SESSION 4 BALLA ULTRA LOUNGE

12:00 – 1:30 pm **POSTER SESSION AND LUNCH**

SESSION 5 SALA BALLROOM

1:30 – 2:30 pm **KEYNOTE**

Session Chair: Anna Moore, Ph.D.

Oncofertility: Bench to Bedside to Babies

Teresa Woodruff, Ph.D., Michigan State University

BREAK

2:30 – 3:00 pm **Group Photo**

SESSION 6 SALA BALLROOM

3:00 – 4:30 pm **EMERGING RESEARCHERS AT MICHIGAN STATE UNIVERSITY AND HENRY FORD HEALTH**

Session Chairs: Benjamin Rybicki, Ph.D. and Dohun Pyeon, Ph.D.

- 3:00-3:15 **Stress Keratin 17 Contributes to Immunosuppression in Cancers**
Wei Wang, Ph.D., Michigan State University
- 3:15-3:30 **Oncogenic Roles of Extrachromosomal DNA in Cancers**
Eunhee Yi, Ph.D., Michigan State University
- 3:30-3:45 **Systemwide Characterization of the ERK Program That Drives Pancreatic Cancer**
Jennifer Klomp, Ph.D., Michigan State University
- 3:45-4:00 **Defining the KRAS-Regulated Transcriptome in KRAS-Mutant Pancreatic Cancer**
Jeffrey Klomp, Ph.D., Michigan State University
- 4:00-4:15 **Knowledge of Head and Neck Cancers among Arab Americans in Michigan**
Eric Adjei Boakye, Ph.D., Henry Ford Health
- 4:15-4:30 **Breaking the Epithelial Barrier in Cancer**
Cristina de Guzman Strong, Ph.D., Henry Ford Health

SALA BALLROOM

4:30 – 4:45 pm **Closing Remarks and Lions Ticket Raffle**