

12th Early Detection Research Network (EDRN) Scientific Workshop
20th Year of EDRN: Making Cancer Detection Possible
(virtual via Zoom)
March 23-25, 2021

Tuesday, March 23, 2021 (9:45 a.m. – 6:10 p.m. Eastern Time)

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| 9:45 a.m. – 10:00 a.m. | Admittance to Workshop via Zoom/General Announcements |
| 10:00 a.m. – 10:05 a.m. | Welcome and Opening of March 2021 EDRN Scientific Workshop <ul style="list-style-type: none">○ Joshua LaBaer, MD, PhD, Arizona State University/The Biodesign Institute○ Arul Chinnaiyan, MD, PhD, University of Michigan○ Sudhir Srivastava, PhD, MPH, National Cancer Institute |
| 10:05 a.m. – 10:15 a.m. | Opening Remarks
Ned Sharpless, MD, Director, National Cancer Institute |
| 10:15 a.m. – 10:40 a.m. | Life-Time Experience with Cancer Diagnostics
Robert Bast, MD, The University of Texas MD Anderson Cancer Center |
| <i>10:40 a.m. – 10:45 a.m.</i> | <i>Q&A</i> |
| 10:45 a.m. – 1:15 p.m. | <u>Session 1: Integrated Approaches to Biomarker Research</u> |
| <i>10:45 a.m. – 10:50 a.m.</i> | <u>Introduction to the Session</u>
<i>Moderators:</i> <ul style="list-style-type: none">○ Denise Aberle, MD, University of California, Los Angeles○ Hui Zhang, PhD, Johns Hopkins University School of Medicine |
| <i>10:50 a.m. – 11:10 a.m.</i> | <u>Precision Medicine of Lung Cancer: Metabolome and Microbiome</u>
Curt Harris, MD, National Cancer Institute |
| <i>11:10 a.m. – 11:15 a.m.</i> | <i>Q&A</i> |
| <i>11:15 a.m. – 11:35 a.m.</i> | <u>TBD</u>
Arul Chinnaiyan, MD, PhD, University of Michigan |
| <i>11:35 a.m. – 11:40 a.m.</i> | <i>Q&A</i> |
| 11:40 a.m. – 11:50 a.m. | Break |
| <i>11:50 a.m. – 12:10 p.m.</i> | <u>TBD</u>
James Herman, MD, University of Pittsburgh School of Medicine |
| <i>12:10 p.m. – 12:15 p.m.</i> | <i>Q&A</i> |
| <i>12:15 p.m. – 12:35 p.m.</i> | <u>The Immunogenicity of Post-Translational Protein Modifications</u>
Karen Anderson, MD, PhD, Arizona State University/The Biodesign Institute |
| <i>12:35 p.m. – 12:40 p.m.</i> | <i>Q&A</i> |
| <i>12:40 p.m. – 1:10 p.m.</i> | <u>TBD</u>
Ash Alizadeh, MD, PhD, Stanford Comprehensive Cancer Center |
| <i>1:10 p.m. – 1:15 p.m.</i> | <i>Q&A</i> |
| 1:15 p.m. – 1:35 p.m. | Break |
| 1:35 p.m. – 3:45 p.m. | <u>Session 2: Integrated Approaches to Biomarker Research II</u> |
| <i>1:35 p.m. – 1:40 p.m.</i> | <u>Introduction to the Session</u>
<i>Moderators:</i> <ul style="list-style-type: none">○ Surinder Batra, PhD, University of Nebraska Medical Center○ Zhen Zhang, PhD, Johns Hopkins University |

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Session 2: Integrated Approaches to Biomarker Research II (Continued)

1:40 p.m. – 2:00 p.m.	<u>Decoding the Cancer Mucinome</u> Carolyn Bertozzi, PhD, Stanford School of Humanities and Sciences
2:00 p.m. – 2:05 p.m.	Q&A
2:05 p.m. – 2:25 p.m.	<u>TBD</u> Matthew Schabath, PhD, H. Lee Moffit Cancer Center and Research Institute
2:25 p.m. – 2:30 p.m.	Q&A
2:30 p.m. – 2:50 p.m.	<u>Multi-Disciplinary Strategies for Cancer Early Detection</u> Victoria Seewaldt, MD, City of Hope
2:50 p.m. – 2:55 p.m.	Q&A
2:55 p.m. – 3:15 p.m.	<u>TBD</u> Anirban Maitra, MBBS, The University of Texas MD Anderson Cancer Center
3:15 p.m. – 3:20 p.m.	Q&A
3:20 p.m. – 3:40 p.m.	<u>A Unique Approach Combining Avatar Mice and Mass Spectrometry to Identify Blood Biomarkers for Early Detection of Breast Cancer</u> Amanda Paulovich, MD, PhD, Fred Hutchinson Cancer Research Center
3:40 p.m. – 3:45 p.m.	Q&A
3:45 p.m. – 4:00 p.m.	Break
4:00 p.m. – 6:10 p.m.	<u>Session 3: Research Excellence through Alliance of Consortia</u>
4:00 p.m. – 4:05 p.m.	<u>Introduction to the Session</u> <i>Moderator:</i> Barbara Kenner, PhD, Kenner Family Research Fund
4:05 p.m. – 4:25 p.m.	<u>Pancreatic Cancer Detection Consortium</u> Michael Goggins, MD, Johns Hopkins University School of Medicine
4:25 p.m. – 4:30 p.m.	Q&A
4:30 p.m. – 4:50 p.m.	<u>Consortium for the Study of Chronic Pancreatitis, Diabetes, and Pancreatic Cancer</u> Stephen Pandol, MD, Cedars-Sinai Medical Center
4:50 p.m. – 4:55 p.m.	Q&A
4:55 p.m. – 5:15 p.m.	<u>Translational Liver Consortium</u> Hashem El-Serag, MD, MPH, Baylor College of Medicine
5:15 p.m. – 5:20 p.m.	Q&A
5:20 p.m. – 5:40 p.m.	<u>Exosomes - Rigor and Reproducibility</u> David Lyden, MD, PhD, Weill Cornell Medicine
5:40 p.m. – 5:45 p.m.	Q&A
5:45 p.m. – 6:05 p.m.	<u>Pre-Cancer Atlas</u> Peter Sorger, PhD, Harvard Medical School
6:05 p.m. – 6:10 p.m.	Q&A
6:10 p.m.	Adjourn for the Day

Wednesday, March 24, 2021 (10:00 a.m. – 5:45 p.m. Eastern Time)

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- 10:00 a.m. – 10:05 a.m.** **Welcome**
- Joshua LaBaer, MD, PhD, Arizona State University/The Biodesign Institute
 - Arul Chinnaiyan, MD, PhD, University of Michigan
 - Sudhir Srivastava, PhD, MPH, National Cancer Institute
- 10:05 a.m. – 10:30 a.m.** **Cancer Biomarkers and Disparity in Underserved Populations**
Olufunmilayo Olopade, MD, FACP, University of Chicago Medicine
- 10:30 a.m. – 1:15 p.m.** **Session 4: Academic-Industry Partnership Forum**
Invited members will discuss the opportunity and future research trends in cancer diagnostics, market forecast and high priority.
- 10:30 a.m. – 10:35 a.m.* **Introduction to the Session**
 Moderator: Ernest Hawk, MD, MPH, The University of Texas MD Anderson Cancer Center
- 10:35 a.m. – 10:50 a.m.* **TBD**
 Josh Ofman, MD, MSHS, GRAIL
- 10:50 a.m. – 11:05 a.m.* **TBD**
 Peter Keeling, Diaceutics
- 11:05 a.m. – 11:20 a.m.* **TBD**
 Kathryn Lang, MBBS, Guardant Health
- 11:20 a.m. – 11:35 a.m.* **Break**
- 11:35 a.m. – 11:50 a.m.* **TBD**
 Isaac Kinde, MD, PhD, Thrive Detect
- 11:50 a.m. – 12:05 p.m.* **TBD**
 Graham Lidgard, PhD, Exact Sciences
- 12:05 p.m. – 1:15 p.m.* **Panel Discussion**
 Panelists:
- Eric Fung MD, PhD, GRAIL
 - Daniel Chan PhD, Johns Hopkins University
 - Johan Skog, Ph.D., Exosome Diagnostics
 - Reena Philip, Ph.D., Food and Drug Administration
- 1:15 p.m. – 1:30 p.m.** **Break**
- 1:30 p.m. – 3:30 p.m.** **Session 5: Public Health Consideration of Biomarker Research**
 Moderators:
- Philip Castle, PhD, MPH, National Cancer Institute tentative
 - Ruth Etzioni, PhD, Fred Hutchinson Cancer Research Center
- Speakers will summarize the highlights of the topics that were discussed by the EDRN Steering Committee in October 2020
- 1:30 p.m. – 1:50 p.m.* **What Target Sensitivity and Specificity Might Confer Clinical Utility?**
- Steve Skates, PhD, Massachusetts General Hospital/Harvard
 - Robert Schoen, MD, University of Pittsburgh Cancer Institute
- 1:50 p.m. – 2:00 p.m.* **Q&A**

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Session 5: Public Health Consideration of Biomarker Research (Continued)

- 2:00 p.m. – 2:20 p.m. Modeling, Biomarkers, and Implementation Science
- Ziding Feng, PhD, Fred Hutchinson Cancer Research Center
 - Ruth Etzioni, PhD, Fred Hutchinson Cancer Research Center
- 2:20 p.m. – 2:30 p.m. Q&A
- 2:30 p.m. – 3:05 p.m. Health Disparity and Biomarker Research
- Christopher Li, MD, PhD, Fred Hutchinson Cancer Research Center
 - Martin Sanda, MD, Emory University
 - Pierre Massion, MD, Vanderbilt-Ingram Cancer Center, Vanderbilt University Medical Center
 - Guest Speaker: Melissa Davis, PhD, Weill Cornell College of Medicine
- 3:05 p.m. – 3:15 p.m. Q&A
- 3:15 p.m. – 3:35 p.m. Study Designs for Clinical Utility Trials
- Yingye Zheng, PhD, Fred Hutchinson Cancer Research Center
 - Steve Skates, PhD, Massachusetts General Hospital/Harvard
- 3:35 p.m. – 3:45 p.m. Q&A
- 3:45 p.m. – 4:00 p.m. Break**
- 4:00 p.m. – 5:45 p.m. Session 6: EDRN Early Stage Investigators Presentations**
- Moderators:*
- Karin Rodland, PhD, Pacific Northwest National Laboratory
 - Louise Showe, PhD, The Wistar Institute
- 4:00 p.m. – 4:12 p.m. Development of Combinatorial Biomarker Panel for Pancreatic Cancer Diagnosis
Sukhwinder Kaur, PhD, University of Nebraska Medical Center
- 4:12 p.m. – 4:15 p.m. Q&A
- 4:15 p.m. – 4:27p.m. Building a Radiogenomic Portrait of Pancreatic Intraductal Papillary Mucinous Neoplasm
Jennifer Permut, PhD, MS, H. Lee Moffitt Cancer Center and Research Institute
- 4:27 p.m. – 4:30 p.m. Q&A
- 4:30 p.m. – 4:42 p.m. Digital Microfluidic Methylation Assays for the Detection of Early-Stage Ovarian Cancer
Thomas Pisanic, PhD, Johns Hopkins University
- 4:42 p.m. – 4:45 p.m. Q&A
- 4:45 p.m. – 4:57 p.m. Prostate
Indu Kohaar, PhD, Center for Prostate Disease Research
- 4:57 p.m. – 5:00 p.m. Q&A
- 5:00 p.m. – 5:12 p.m. Prostate
Jeff Tosoian, MD, MPH, University of Michigan
- 5:12 p.m. – 5:15 p.m. Q&A
- 5:15 p.m. – 5:27 p.m. GI
John Kisiel, MD, Mayo Clinic College of Medicine
- 5:27 p.m. – 5:30 p.m. Q&A

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Session 6: EDRN Early Stage Investigators Presentations (Continued)

5:30 p.m. – 5:42 p.m. Advancing MS-Based Single-Cell Proteomics
Tao Liu, PhD, Pacific Northwest National Laboratory

5:42 p.m. – 5:45 p.m. Q&A

5:45 p.m. Adjourn for the Day

Thursday, March 25, 2021 (10:00 a.m. – 7:00 p.m. Eastern Time)

10:00 a.m. – 10:05 a.m. Welcome

- Joshua LaBaer, MD, PhD, Arizona State University/The Biodesign Institute
- Arul Chinnaiyan, MD, PhD, University of Michigan
- Sudhir Srivastava, PhD, MPH, National Cancer Institute

10:05 a.m. – 10:30 a.m. Clinical Perspectives on Biomarker Research
Bruce Johnson, MD, Dana-Farber Cancer Institute

10:30 a.m. – 11:50 a.m. Session 7: Regulatory, Reimbursement and Entrepreneurship Biomarker Research
Moderators:

- Sudhir Srivastava, PhD, MPH, National Cancer Institute
- Robert Schoen, MD, University of Pittsburgh Cancer Institute

10:30 a.m. – 10:45 a.m. FDA Collaborative on Next Gen Sequencing and its Relevance to Liquid Biopsy for Early Detection
James Willey, MD, University of Toledo

10:45 a.m. – 10:50 a.m. Q&A

10:50 a.m. – 11:05 a.m. Food and Drug Administration Perspective
Wendy Rubinstein, MD, PhD, Director of Personalized Medicine

11:05 a.m. – 11:10 a.m. Q&A

11:10 a.m. – 11:25 a.m. Center for Medicare and Medicaid Services Perspective

- Melissa Evans, PhD, Director of the Division of Policy and Evidence Review, CMS
- Carl Li, MD, MPH, Medical Officer, CMS

11:25 a.m. – 11:30 a.m. Q&A

11:30 a.m. – 11:45 a.m. SBIR Developmental Center: Research and Development Opportunities
Michael Weingarten, MA, Director, Small Business Innovation Research, National Cancer Institute

11:45 a.m. – 11:50 a.m. Q&A

11:50 a.m. – 12:10 p.m. Break

12:10 p.m. – 3:10 p.m. Poster/Interactive Session & Lightning Talks from Posters (5 minute Presentations)
NCI Program Directors:

- Lynn Sorbara, PhD, National Cancer Institute
- Natalie Abrams, PhD, National Cancer Institute

12:10 p.m. – 1:10 p.m. Poster Highlights Session

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Poster/Interactive Session & Lightning Talks from Posters (5 minute Presentations)

<i>1:10 p.m. – 3:10 p.m.</i>	Poster Viewing Session
3:10 p.m. – 5:00 p.m.	Break
5:00 p.m. – 7:00 p.m.	Poster/Interactive Session & Lightning Talks from Japan Investigators (AMED P-CREATE)
<i>5:00 p.m. – 6:00 p.m.</i>	Poster Highlights Session
<i>6:00 p.m. – 7:00 p.m.</i>	Poster Viewing Session
7:00 p.m.	Adjourn Scientific Workshop

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