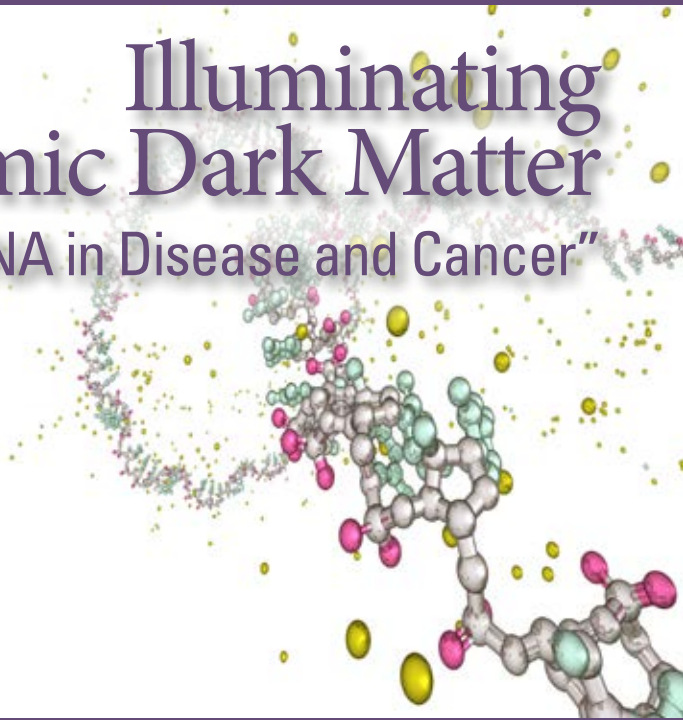


# Symposia on Cancer Research 2014

## Illuminating Genomic Dark Matter

"ncRNA in Disease and Cancer"



### Symposium Chairpersons:

George A. Calin, MD, PhD  
Gabriel Lopez-Berestein, MD  
Helen Piwnica-Worms, PhD  
Anil K. Sood, MD

## October 9-10, 2014

The University of Texas MD Anderson Cancer Center  
R. Lee Clark Clinic  
Floor 11  
1515 Holcombe Boulevard  
Houston, Texas

For more information,  
please call the Department of CME/Conference Management  
at 713-792-2223  
or visit our website at [www.mdanderson.org/scr](http://www.mdanderson.org/scr)

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# Goal

It has become apparent that non-protein-coding regions of the human genome play critical roles in numerous aspects of human biology from early development to multiple diseases including cancer. MicroRNA alterations are involved in the initiation and progression of human cancer. The multiple roles of non-coding RNAs (ncRNAs) are being deciphered rapidly. In this symposium, we will highlight new fundamental and translational discoveries in this rapidly emerging field, including the use of ncRNAs in cancer detection, initiation, biology, and therapeutics. This will be accomplished by convening scientists, clinicians, and trainees to share their insights and by fostering interdisciplinary interactions. Keynote speakers are Carlo M. Croce, MD (Ohio State University James Cancer Hospital) and Jeffrey M. Rosen, PhD (Baylor College of Medicine). In addition, John S. Mattick, PhD (Garvan Institute of Medical Research) will receive the Ernst W. Bertner Memorial Award and Frank Slack, PhD (Yale University) will receive the Heath Memorial Award. There will also be a poster session for participants to represent their findings. The symposium begins Thursday morning and will end Friday afternoon.

# Target Audience

The program will be of broad interest to scientists, scientists-in-training, physicians, physicians-in-training, students, nurses, and fellows interested in hearing the newest advances in the area of genomic medicine.

# Educational Objectives

After attending the symposium, participants should be able to

- Apply discoveries about the roles of small and long non-coding RNAs in cancer initiation and development to improve cancer treatments;
- Discuss and research the complex functional networks of coding and non-coding genes and their significance to cancer;
- Decipher the roles of non-coding RNAs as cancer biomarkers and therapeutic targets, contributing to novel drugs and treatment strategies.

# Educational Methods

- Lectures
- Question-and-Answer Sessions
- Panel Discussions
- Posters

## Call for Posters

**Abstracts may be submitted for the Poster Session but must be received no later than August 1, 2014. Please submit to [Research2014@mdanderson.org](mailto:Research2014@mdanderson.org).**

Please indicate the category for your poster – Basic Understanding of Dark Matter; ncRNA Biomarkers and Diagnostics; RNA Therapeutics; Cancer and MicroRNAs; ncRNA Theranostics. The top abstract in each category will be chosen to give an 8 minute/2 minute Q & A oral presentation.

Should you have difficulty with the submission, call the Department of CME/Conference Management at 713.745.5000 for guidance. Participants will be notified of their posters' acceptance by mail or e-mail by August 15, 2014. Please indicate the person to whom correspondence should be sent if other than the first author and include an address, telephone number, fax number, and e-mail address (if available) when submitting the abstract. Registration for the symposium must be submitted at the same time as the abstract. Please register at [www.mdanderson.org/conferences](http://www.mdanderson.org/conferences).

## Young Investigator Travel Fellowship Awards

A limited number of travel fellowships will be available to graduate and medical students, postdoctoral fellows, and physicians in training. Only those applicants who submit abstracts will be considered for an award, which is intended to offset some of the expenses incurred by the recipient in connection with attending the symposium. Anyone wishing to apply for a travel fellowship should check the appropriate box on the registration form and attach a letter of recommendation. This letter should be on official letterhead, be signed by the dean or department head, and contain the following information about the applicant (due by August 1, 2014):

1. academic status
2. research activities in the subject area of the meeting
3. citations of recent articles in this subject area published in peer-reviewed journals

# PROGRAM

## Thursday, October 9, 2014

7:00 a.m.

*Registration/Coffee*

8:15

**Symposium Opening and Welcome**

8:30

**Keynote Lecture**

**Novel Function of microRNAs**

Carlo M. Croce, MD

Ohio State University James Cancer Hospital

Columbus, Ohio

## SESSION I: BASIC UNDERSTANDING OF DARK MATTER

*Session Co-Chairs: Valerie LeBleu, PhD and Anil K. Sood, MD*

9:00

**Introduction**

Anil K. Sood, MD

9:35

**The Primary Target of let-7 MicroRNA**

Amy E. Pasquinelli, PhD

University of California, San Diego

La Jolla, California

10:05

*Break*

10:25

**A Novel Epigenetic Mechanism Mediated by Piwi and piRNAs**

Haifan Lin, PhD

Yale Stem Cell Center

New Haven, Connecticut

10:55

**Biogenesis and Mechanism of Action of Enhancer RNAs**

Ramin Shiekhattar, PhD

The Wistar Institute

Philadelphia, Pennsylvania

11:25

**Trainee Talk**

11:40

*Lunch/Poster Session*

# PROGRAM

**Thursday, October 9, 2014** *(continued)*

## **SESSION II: ncRNA BIOMARKERS AND DIAGNOSTICS**

*Session Co-Chairs: Xiongbin Lu, PhD and Helen Piwnica-Worms, PhD*

12:45 p.m.

### **Introduction**

Helen Piwnica-Worms, PhD

12:50

### **The Role of microRNA Binding Site Variants in Cancer Risk and Biology**

Joanne Weidhaas, MD, PhD  
University of California  
Los Angeles, California

1:20

### **Master microRNA Regulatory Networks in Ovarian Cancer**

Wei Zhang, PhD  
MD Anderson  
Houston, Texas

1:50

### **Epigenetic and Genetic Disruption of ncRNAs in Human Cancer**

Manel Esteller, PhD  
ICREA - Research Hospital Duran  
Catalonia, Spain

2:20

### **Trainee Talk**

2:35

*Break*

## **SESSION III: RNA THERAPEUTICS**

*Session Co-chairs: Giulio Draetta, MD, PhD and Gabriel Lopez-Berestein, MD*

3:00

### **Introduction**

Gabriel Lopez-Berestein, MD

3:05

### **RNAi Therapeutics: Tackling a Billion Year Old Problem with siRNN Prodrugs**

Steven F. Dowdy, PhD  
USCD School of Medicine  
La Jolla, California

3:35

### **X-aptamers in Personalized Nanomedicine for Cancer Therapeutics**

David G. Gorenstein, PhD  
UT Health Science Center at Houston  
Houston, Texas

# PROGRAM

4:05 **Regulation of Breast Cancer Metastasis and Radioresistance by microRNAs And Their Targets: Implications for New Therapeutic Strategies**

Li Ma, PhD  
MD Anderson  
Houston, Texas

4:35 **Trainee Talk**

4:50 **Ernst W. Bertner Memorial Award Lectures and Presentations**

**Introduction**

**The Central Role of Regulatory RNA in Human Development and Disease**

John S. Mattick, PhD  
Garvan Institute of Medical Research  
Sydney, Australia

5:50-6:50 *Poster Reception*

## Friday, October 10, 2014

8:30 a.m.

**KEYNOTE LECTURE**

**Long Noncoding RNAs in Mammary Gland Development and Breast Cancer**

Jeffrey M. Rosen, PhD  
Baylor College of Medicine  
Houston, Texas

## **SESSION IV: CANCER AND MicroRNAs**

*Session Co-chairs: Michelle Barton, PhD and George A. Calin, MD, PhD*

9:20 **Introduction**

George A. Calin, MD, PhD

9:25 **Novel microRNA Functions in Mammalian Physiology and Cancer**

Joshua T. Mendell, MD, PhD  
The University of Texas Southwestern Medical Center  
Dallas, Texas

9:55 **Unraveling the Complex Regulation of non-coding RNAs by p53 in Cancer and Metastasis**

Elsa R. Flores, PhD  
MD Anderson  
Houston, Texas

# PROGRAM

**Friday, October 10, 2014** *(continued)*

10:25

**Role of Exosomal microRNAs Within the Tumor Microenvironment**

Muller Fabbri, MD, PhD  
Children's Hospital Los Angeles  
Los Angeles, California

10:55

**A Role for lncRNAs in Cancer Inflammatory Responses**

**by B. Greenbaum and A. Levine**  
Arnold Levine, PhD

11:30

*Lunch and Poster Session*

## **SESSION V: ncRNA THERANOSTICS**

*Session Co-Chairs: Sharon R. Dent, PhD and Mien-Chie Hung, PhD*

12:25 p.m.

**Introduction**

Mien-Chie Hung, PhD

12:30

**Cancer Exosomes and Extracellular microRNA Biogenesis**

Sonia A. Melo, PhD  
MD Anderson  
Houston, Texas

1:00

**Engineered Microvesicles as Targeted Delivery Agents for Therapeutic microRNAs**

Thomas D. Schmittgen, PhD  
The Ohio State University  
Columbus, Ohio

1:30

**Novel lncRNA-protein and lncRNA-lipid Interactions Wire Up Cancer Signaling**

Liuqing Yang, PhD  
MD Anderson  
Houston, Texas

2:00

**Trainee Talk**

2:15

**Wilson Stone Award Presentation and Lecture**

Introduction

3:00

**Heath Award Lecture and Presentation**

Introduction

**Micro RNA-based Therapeutics in Cancer**

Frank J. Slack, PhD  
Yale University  
New Haven, Connecticut

4:00

*Adjourn*



Agendas are subject to change because we are always striving to improve the quality of your educational experience. MD Anderson may substitute faculty with comparable expertise on rare occasions necessitated by illness, scheduling conflicts, and so forth.

Photographing, audiotaping and videotaping are prohibited.

Please let us know what specific topics, issues or questions you wish to see addressed or emphasized in this activity. Fax or e-mail CME/Conference Management. All responses will be forwarded to the Program Chairs for consideration.

## Registration Information

On-site registration opens at 7:00 a.m., Thursday, October 9, 2014. The opening session will begin at 8:15 a.m. on October 9, and the symposium will adjourn at 4:00 p.m. on Friday, October 10, 2014. Advance registration is encouraged as space and materials are limited. Please see registration form for applicable fees. The deadline for advance registration is September 26, 2014.

### There are three ways to register:

1. Mail to:  
Department of CME/Conference Management – Unit 1781, The University of Texas MD Anderson Cancer Center, P. O. Box 301407, Houston, Texas 77230-1407.
2. Fax to 713-794-1724
3. On-line at [www.mdanderson.org/conferences](http://www.mdanderson.org/conferences)

### We accept the following forms of payment:

1. Check (payable through U.S. banks only)
2. Money Order
3. Credit Cards (MasterCard, VISA, and American Express)
4. Cash (on-site registration only)

When registering on-line a receipt/confirmation letter will be automatically e-mailed to the e-mail address you listed on the registration form. If you register by fax or mail, a receipt/confirmation letter will be sent to you within ten working days of receipt of your fee.

The full symposium registration fee includes the tuition, breaks, lunches, and reception. The student registration fee includes all of the above except lunches. Students wishing to participate in the lunches must pay an additional fee of \$24.00

**Students:** A reduced registration fee has been established for full-time students and physicians in training (interns, residents, and fellows). All students claiming this reduced fee are required to submit a letter of introduction from the chairperson of their department with their registration form.

**MD Anderson Alumni:** Alumni is defined as any faculty member (research or clinical) who has worked at MD Anderson and has retired or resigned, or any educational trainee who has trained at MD Anderson.

**Refund/Cancellation Policy:** The registration fee, minus a \$50 administrative handling fee, is refundable if a written request is received on or before **September 26, 2014**. No refunds will be granted after that date. The request for a registration refund must include the tax identification number of the company or institution if registration was paid by a company or institution check. For additional information, contact CME/Conference Management at 713-792-2223 or toll free at 866-849-5866.

The Department of CME/Conference Management reserves the right to cancel activities prior to the scheduled date, if low enrollment or other circumstances make it necessary. Each registrant will be notified by mail, e-mail, or the contact numbers as given on the registration form. In case of activity cancellation, liability of the Department of CME/Conference Management is limited to the registration fee. CME/Conference Management will refund the full registration fee.

The Department of CME/Conference Management reserves the right to limit the number of participants in a program and is not responsible for any expenses incurred by an individual whose registration is not confirmed and for whom space is not available.

For additional information, contact the Department of CME/Conference Management at 713-792-2223 or 866-849-5866.

## Special Assistance

Contact the Department of CME/Conference Management at 713-792-2223 or 866-849-5866 if you have any special dietary or ADA accommodation needs.

## Accommodations

A block of rooms has been reserved for symposium attendees at the Hotel ZaZa, 5701 Main Street, Houston, Texas.

- Early hotel reservation is suggested.
- The hotel phone number is 713-526-1991.
- When you make reservations be sure to mention **MD Anderson's Research Symposium** to be assured of receiving the special meeting rate of \$209.00 single or double occupancy.
- Please add 17% Texas state and local taxes.
- Reservations and deposits received after September 9, 2014, will be confirmed if space is available and at current hotel published guest room rates.

## Ground Transportation

- Houston is served by two airports, George Bush Intercontinental (IAH) and William P. Hobby (HOU).
- Taxicabs are available at an estimated cost of \$40-60, to or from William P. Hobby Airport or George Bush Intercontinental Airport.
- Super Shuttle operates a shuttle bus between George Bush Intercontinental Airport and the Hotel ZaZa for \$23 one-way and \$42 round-trip. For more information, call 713-523-8888 or toll-free at 800-258-3826 or on-line at [www.supershuttle.com](http://www.supershuttle.com).
- Super Shuttle operates a shuttle bus between William P. Hobby Airport and the Hotel ZaZa for \$18 one-way and \$32 round-trip. For more information, call 713-523-8888 or toll-free at 800-258-3826 or on-line at [www.supershuttle.com](http://www.supershuttle.com).

Please let us know what specific topics, issues or questions you wish to see addressed or emphasized in this activity. Fax or e-mail CME/Conference Management. All responses will be forwarded to the Program Chairs for consideration.

# SYMPOSIUM REGISTRATION-0630/X110838

## Symposia on Cancer Research 2014

### Illuminating Genomic Dark Matter "ncRNA in Disease and Cancer" – October 9-10, 2014

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#### Full Symposium Registration Fee

- Before September 26, 2014 .....\$300.00  
 After September 26, 2014 .....\$375.00

#### One Day Registration Fee Fri Sat

- Before September 26, 2014 .....\$105.00  
 After September 26, 2014 .....\$135.00

#### MD Anderson Alumni

- Before September 26, 2014 .....\$275.00  
 After September 26, 2014 .....\$280.00

#### Student Registration Fee

- Before September 26, 2014 .....\$100.00.....Lunch Fee  \$24  
 After September 26, 2014 .....\$125.00.....Lunch Fee  \$30

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 Before September 26, 2014 .....Lunch Fee  \$24  
 After September 26, 2014 .....Lunch Fee  \$30

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