



**FIFTH ANNUAL**  
**WOMEN'S**  
CANCER  RESEARCH CENTER

**RETREAT**

**November 13 & 14, 2015**

# WELCOME

Dear Women's Cancer Research Center Members and Guests,

Thank you so much for joining us for the Fifth Annual WCRC Retreat. We have put together a stimulating program in the area of women's cancer research covering basic, clinical, and translational areas of investigations. This year, the Keynote Address will be given by Dr. Jeffery Rosen, Charles C. Bell Professor, Department of Molecular and Cellular Biology, Baylor College of Medicine, who is an expert in developmental and hormonal regulation of mammary gland gene expression and breast cancer.

We appreciate your attendance and participation in this Retreat, and are looking forward to an exciting two days!



Adrian V. Lee, PhD  
Director, WCRC



Robert Edwards, MD  
Co-Director, WCRC

**5<sup>th</sup> ANNUAL WOMENS CANCER RESEARCH CENTER RETREAT AGENDA**  
**NEMACOLIN WOODLANDS RESORT**  
**NOVEMBER 13-14, 2015**

**FRIDAY, NOVEMBER 13, 2015**

**POSTERS, REGISTRATION AND LUNCH**

9:00am Poster Boards available for posting  
10:00am Registration begins  
11:00am Buffet Lunch

**WELCOME AND OVERVIEW**

12:00pm **Welcome and Introduction** – Steffi Oesterreich, PhD

**SESSION 1: Pilot Project Presentations**

**CHAIR: Adam Brufsky, M.D.**

12:05pm **Priscilla McAuliffe, M.D., PhD “In Situ Breast Disease”**  
12:20pm **Roni Lahr (Berman lab) “LARP1 interacts directly with 5’UTRs encoding translation machinery”**  
12:35pm **Carola Neumann M.D. “A Role for the Peroxidase PRDX1 in Mammary Fibroblast Activation”**  
12:50pm **Jill Gadzinski, M.D. (Eisman/Comerci lab) “Evaluation of Silicon Phthalocyanine 4  
Photodynamic Therapy in Human Cervical Cancer Cells”**  
1:05pm **Xin Huang, PhD “Secreted alpha-1 antitrypsin as a potential target for preventing ovarian  
metastasis”**  
  
1:25pm **“Speed dating” 4 speakers [3min talk, <1min transition x4 = 15min]**  
**Moderator: David Boone**  
1. Alison Nagle, BS  
2. Li Zhu, PhD  
3. Zhijie Ding, PhD  
4. Tala Achkar, MD

**SESSION 2: Stem cells, their niches and early disease – progenitor/stem cells, plasticity, models, drug response, EAO, DCIS/LCIS**

**CHAIR: Robert Edwards, M.D.**

1:45pm **Mei Zhang, PhD “Intratumoral heterogeneity in human breast cancer”**  
2:00pm **Kyle Orwig, PhD “Preserving the Fertility of Women, Men, Girls and Boys Facing Gonadotoxic  
Therapies for Cancer and Other Conditions”**  
2:15pm **Shannon Grabosh, M.D. “Chemo-induced biology of PD-L1 and in vivo combination immune  
therapy for ovarian cancer”**  
2:30pm **Vera Donnenberg, PhD “Proteomic Changes Associated with Neoplastic Transformation, EMT  
and Invasion”**  
2:45pm **Susan Farabaugh, PhD “Oncogene Induced Changes in Mammary Differentiation and Cell  
Fate in Breast Tumorigenesis”**  
  
3:00pm **Coffee Break**

3:20pm **WCRC OVERVIEW** – Adrian Lee, PhD, Robert Edwards, M.D.

3:30pm **KEYNOTE PRESENTATION**

**Jeffery Rosen, PhD** “The Role of the Microenvironment in Tumor Dormancy, Recurrence and Metastasis”

4:30pm **Group Photo**

**SESSION 3: Advanced disease and novel therapeutics – rapid autopsy, metastatic data base, mutations/CNV as drivers, models**

**CHAIR: Kurt Weiss, M.D.**

5:00pm **Margaret Rosenzweig, APN, PhD** “Metastatic Breast Cancer (MBC): Past to Present: Opportunities for Research

5:15pm **Janet Arida** “A Comparison of Monthly Symptoms Report for Older (> 70 years) Versus Younger (<70 years)”

5:30pm **Amir Bahreini** “Identification and Functional Characterization of ESR1 Mutations in Breast Cancer”

5:45pm **Shannon Puhalla, M.D.** “The Promises and Challenges of Rapid Autopsy and Tissue Donation Programs”

6:00pm **Sarah Taylor, M.D.** “Phase 1 Parallel Arm Study of Intravenous (IV) Docetaxel and Intraperitoneal (IP) Oxaliplatin and Intravenous (IV) Oxaliplatin and Intraperitoneal (IP) Docetaxel in Recurrent Ovarian Cancer”

**POSTERS, COCKTAILS AND DINNER**

6:15pm Posters and cocktail reception

7:30pm Buffet dinner and group activities

## Saturday, November 14, 2015

6:30am 5K Run  
7:30am Posters and buffet breakfast

### SESSION 4: BD2K and Computational Sciences – BD2K, systems biology, introduction of new recruits in this area

**CHAIR: Adrian Lee, PhD**

8:30am **George Tseng, PhD** “Comprehensive Evaluation of Fusion Transcript Detection Algorithms and a Meta-Caller to Combine Top Performing Methods in Paired-End RNA-seq Data”  
8:45am **Jianhua Xing, PhD** “Systems Biology to Epithelial-to-mesenchymal Transition”  
9:00am **Da Yang, PhD** “Integrative Genomics and Prediction of BRCAness and Drug Response in Ovarian Cancer”  
9:15am **Tianzhou Ma, PhD** “Immune Gene Signature Pairs Predict Survival in Immune-Reactive Cancer Patients: A Pan-Cancer Analysis”

### SESSION 5: Imaging – clinical imaging: multiplexed imaging, heterogeneity

**CHAIR: Lans Taylor, PhD**

9:35am **Chakra Chennubholta, PhD** “Quantifying Spatial Intra-Tumor Heterogeneity”  
9:50am **Jianquan Xu, PhD** “Super-Resolution Imaging of Genome Organization in Breast Cancer Progression”  
10:05am **Albert Gough, PhD** “Mining Cellular Heterogeneity for Insights into Compound Activity in Drug Discovery and Phenotypic Profiling”  
10:20am **Breast Cancer Research Advocacy Network (bcRAN)**  
Chairs: Carola Neumann, M.D., Priscilla McAuliffe, M.D., PhD  
10:50am **Coffee Break**

### SESSION 6: Physical Sciences – model, ECM and density

**CHAIR: Shilpa Sant, PhD**

11:20am **Adam Feinberg, PhD** “Bottom-up Engineering of the Extracellular Matrix and the Cellular Microenvironment Using Protein Scaffolds”  
11:35am **Alan Wells, M.D.** “An All Human Microphysiological System that Models Metastatic Cancer Dormancy and Emergence”  
11:50am **Majulata Singh, PhD** “Three-Dimensional Models Mimic Hallmarks of Early and Late Stage Breast Tumors”  
12:10pm **‘Speed Dating’ 5 speakers [3min talk, <1min transition x5 = 20min]**  
**Moderator: David Boone**  
1. Nilgun Tasdemir, PhD  
2. Casey Hey, MD  
3. Alessandra Landmann, MD  
4. Jia-Ying Lee, MD  
5. Kevin Levine, BA  
12:30pm **Buffet lunch, awards and “retreat wrap-up”**  
2:00pm **Adjourn**



## Retreat Attendees

Tala Achkar, MD, MS  
Guyanna Ackison, BSN  
Courtney Andersen, BS  
Janet Arida, BSN, MA  
Shireen Attaran, BA  
Amir Bahreini, BSc  
Mingfeng Bai, PhD  
Ahmed Basudan, MSc  
Sarah Belcher, BSN, RN, OCN  
Vanessa Benkovich, MBA  
Andrea Berman, PhD  
David Boone, PhD  
Adam Brufsky, MD, PhD  
Grace Campbell, PhD, MSW, BSN  
Chunyu Cao, PhD  
Nianhong Chen, PhD  
Yijing Chen, BS  
Chakra Chennubhotla, PhD  
Amanda Clark, PhD  
John Comerchi, MD  
Madeleine Courtney-Brooks, MD  
Nancy Davidson, MD  
Roger Day, ScD  
Emilia Diego, MD  
Brenda Diergaarde, PhD  
Zhijie Ding, PhD  
Albert Donnenberg, PhD  
Vera Donnenberg, PhD, F.C.P.  
Heidi Donovan, PhD, RN  
Robert Edwards, MD  
Barry Edwards, PhD  
Prasanna Ekambaram, PhD  
Ester Elishaev, MD  
Susan Farabaugh, PhD  
Daniel Farrugia, MD, PhD  
Adam Feinberg, PhD  
Jill Gadzinski, MD  
David Gau, BS  
Albert Gough, PhD  
Sharon Goughnour, MPH  
Shannon Grabosch, MD

Rekha Gyanchandani, PhD  
Emily Harrington, BS  
Ryan Hartmaier, PhD  
Casey Hay, MD  
Mingjing He, DDS  
Ryan Hessenius  
Barbara Hopkins, BS  
Xin Huang, PhD  
Yi Huang, MD, PhD  
Balkenzhe Imankulova, MD  
Rachel Jankowitz, MD  
Shanhang Jia  
Chang Jiang, MS  
Jingyi Jin  
Cameron Jones, BS  
Pawel Kalinski, MD, PhD  
Sid Kar, PhD  
Tiffany Katz, PhD  
Susan Kelly, M.Ed  
Thomas Kensler, PhD  
Roni Lahr, BA  
Alessandra Landmann, MD  
Philip Leduc, PhD  
Adrian Lee, PhD  
Jia-Ying Lee, MD  
Young Ji Lee, PhD, RN  
Vera Levina, PhD  
Kevin Levine, BA  
Faina Linkov, PhD  
Yang Liu, PhD  
Michael Lotze, MD  
Tianzhou Ma, PhD  
Bo Ma, PhD  
Priscilla McAuliffe, MD, PhD  
Patricia McLaughlin, RN  
Alison Nagle, BS  
Carola Neumann, MD  
Daniel Normolle, PhD  
Natasa Obermajer, PhD  
Steffi Oesterreich, PhD  
Alexander Olawaiye, MD

Brian Orr, MD  
Kyung Soo Park, PhD  
Shannon Puhalla, MD  
Mary Roberge, RN, BSN  
Sabina Robinson, PhD  
Jerry Rosen, PhD  
Partha Roy, PhD  
Shilpa Sant, PhD  
Matthew Sikora, PhD  
Jacqueline Simon, BA  
Manjulata Singh, PhD  
Shivendra Singh, PhD  
John Skoko, PhD  
Elizabeth Skrovanek, BSN, RN  
Sreeja Sreekumar, PhD  
Andrew Stern, PhD  
Jin Tao, MD, PhD  
Nilgun Tasdemir, PhD  
D. Lansing Taylor, PhD  
Sarah Taylor, MD  
Du Tian  
George Tseng, ScD  
Eugene Tseytlin, MS  
Anda Vlad, MD, PhD  
Yong Wan, PhD

Rebecca Watters, PhD  
Kurt Weiss, MD  
Alan Wells, MD, DMSc  
Susan Wesmiller, PhD, RN  
ChenShan Woodcock, MS  
Megan Wright, BA  
Shandong Wu, PhD  
Jianhua Xing, PhD  
Jianquan Xu, PhD  
Xi Xu  
Zhongying Xu, PhD  
Da Yang, MD, PhD  
Min Yang, PhD  
Wenqing Yang, MD  
Svetlana Yatsenko, MD  
Jun Yin, PhD  
Dexing Zeng, PhD  
Feitianzhi Zeng  
Mei Zhang, PhD  
Shaojuan Zhang, PhD  
Zhuan Zhou, PhD  
Li Zhu, PhD  
Jinbao Zong, MD, PhD  
Haojing Zou, PhD

**Thank you for joining us!**

A fluorescence microscopy image showing a large, dense cluster of cells in the center, glowing with bright green and yellow light. This central cluster is surrounded by a field of smaller, more sparsely distributed cells that appear as a dark red or maroon color. The overall image has a dark, almost black background, making the glowing cells stand out prominently.

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