Friday, September 30

10:00 am  Smithville Bus leaves Smithville
11:30 am  Houston Bus leaves MD Anderson
12:00 pm  Smithville Bus arrives Camp Allen
1:00 pm  Houston Bus arrives Camp Allen

12:00 – 2:00 pm  MEETING REGISTRATION, POSTER SET-UP and HOTEL CHECK-IN. Note: Room check-in not guaranteed until 3pm. (Conference Center Lobby, Main Entrance of Bishop Gregg Complex, #9 on map)

12:30 – 1:45 pm  LUNCH (Dining Room, #9 on map)
2:00 – 2:10 pm  WELCOME (All Saints 1A&B, #10 on map)
2:10 – 3:10 pm  KEYNOTE ADDRESS (All Saints 1A&B)
  - Thomas “Trey” Westbrook, PhD, Associate Professor, Department of Molecular & Human Genetics and Department of Biochemistry & Molecular Biology, Baylor College of Medicine, Houston
    “Tackling Triple-Negative Breast Cancer: New Mechanisms and Medicines”


3:45 – 4:30 pm  BREAK and ROOM CHECK-IN
4:30 – 5:30 pm  PLATFORM SESSION #1 (All Saints 1A&B)
  - Pushan Dasgupta (Draetta lab): “WISP1 is a Novel Overexpressed Driver of Glioblastoma Multiforme”
  - Rhea Kang (Cole lab): “In vivo analysis of homologous recombination outcomes reveal temporally and spatially distinct homologous recombination pathways in a mammalian system”
  - Yilei Zhang (Gan lab): “BAP1 Couples Ferroptosis, a Non-apoptotic Cell Death, to its Tumor Suppression”
  - Youn-Sang Jung (Park lab): “Tumor Initiation by Deregulation of CRAD-Controlled Cytoskeleton Dynamics”

5:30 – 6:00 pm  GROUP PHOTO and Break Before Dinner (Outside, on hill between the two main buildings)
6:00 – 7:15 pm  DINNER (Dining Room)
7:30 – 8:00 pm  IN-A-NUTSHELL for Poster Session #1 (All Saints 1A&B):  Drs. Richard Behringer and Nicholas Navin
8:00 – 9:30 pm  POSTER SESSION #1 (All Saints 1A&B)
  Research Areas: Cancer Genetics & Genomics and Developmental Biology
9:30 – 11:00 pm  EVENING HOSPITALITY with BOARD GAMES (Tellepsen, next to dining room)

Saturday, October 1

7:30 – 8:45 am  BREAKFAST (Dining Room)
9:00 – 10:00 am  KEYNOTE ADDRESS (All Saints 1A&B)
  - William Sellers, MD, VP/Global Head of Oncology, Novartis Institutes for BioMedical Research (retired), Cambridge, MA
    “Linking the Discovery of Cancer Vulnerabilities to Therapeutic Development”
10:15 – 11:20 am  PLATFORM SESSION #2 (All Saints 1A&B)
  - Courtney Brock (Eisenhoffer lab): “Apoptotic Cells Promote Stem Cell Proliferation and Epidermal Regeneration in Developing Zebrafish”
  - Solomon Hailu (Bartholomew lab): “Insight into an aberrant SWI/SNF complex”
  - Yun Zhang, PhD (Lozano lab): “p53 Missense Mutations Exhibit Differences in Driving Breast Tumorigenesis in Somatic Mouse Models”
  - Atanu Paul (Wang lab): Grady Saunders Student Talk: “Role of Linkage-Specific Ubiquitination in the DNA Damage Response Pathway”
Saturday, continued

11:30 – 12:15 pm  BREAKOUT SESSION #1 – See attached handout for information about each workshop
1. Moving Between Academic and Industry Positions (All Saints 2)
2. Genetic Screens and High-Throughput Technologies (All Saints 3)
3. Live Imaging and Microscopy (All Saints 4)
4. Visa and International Affairs (All Saints 5)

12:15 – 1:30 pm  LUNCH  (Dining Room)

1:45 – 3:00 pm  PLATFORM SESSION #3  (All Saints 1A&B)
   §  Jiameng Dan, PhD (Taiping Chen lab): “Zscan4 Facilitates Telomere Elongation by Inducing DNA Demethylation in Totipotent Mouse Embryonic Stem Cells”
   §  Anna Casasent (Navin Lab): “Multiclonal Invasion in DCIS Identified by Geographic Single-0Cell DNA Sequencing”
   §  Li Wang (Dent lab): “Gcn5 is Essential for Epiblast Morphogenesis during mESC Differentiation”
   §  Kenneth Trimmer (Arur lab): “Plasticity of Germ Line Stem Cells in C. elegans Under Stress”
   §  Chi-Chao Hsu, PhD (Shi lab): “Dual Roles of Gas41 in Embryonic Stem Cell Self-renewal and Differentiation”

3:00 – 5:30 pm  RECREATION BREAK  (See folder handout for information about specific activities)

3:30 – 5:00 pm  SPECIAL G&D and EMC FACULTY MEETING  (GREGG 2B, down the hall from the dining room)

5:30 – 6:45 pm  DINNER  (Dining Room)

7:00 – 7:30 pm  IN-A-NUTSHELL for Poster Session #2  (All Saints 1A&B): Drs. Shawn Bratton, Francesca Cole and Xiaobing Shi

7:30 – 9:00 pm  POSTER SESSION #2  (All Saints 1A&B)
   Research Areas:  Cell Biology, DNA Repair, and Epigenetics

9:00 – 10:00 pm  ENTERTAINMENT PROGRAM  (All Saints 1A&B)

10:00 pm  LATE NIGHT HOSPITALITY  (Hotel Suite B302)

Sunday, October 2

7:30 – 8:45 am  BREAKFAST  (Dining Room)

8:45 – 9:15 am  ROOM CHECK-OUT  (Must be checked-out of room by 11:00 am)

9:15 – 10:15 am  PLATFORM SESSION #4  (All Saints 1A&B)
   §  Renier Velez-Cruz, PhD (Johnson lab): “A new function for the oldest tumor suppressor: RB stimulates DNA end resection and homologous recombination”
   §  Neeraj Aryal (Lozano lab): “Phosphorylation of Dicer Results in Nuclear Translocation of a Truncated Protein that Alters Metabolism and Accelerates Aging”
   §  Ruli Gao, PhD (Navin lab): “High-Throughput Nanogrid Single-Nucleus RNA Sequencing of Breast Cancers”
   §  Alexandra Espejo, PhD (Bedford lab): “Phosphorylation at the C-terminus triggers a binding switch between 14-3-3 proteins and PDZ domains”

10:25 – 11:10 am  BREAKOUT SESSION #2  – See attached handout for information about each workshop
1. CRISPR/Cas9  (All Saints 2)
2. Next Generation Sequencing  (All Saints 3)
3. Obtaining Grants and Fellowships  (All Saints 4)
4. Life and Death in Academia  (All Saints 5)

11:15 am  CLOSING REMARKS  (All Saints 1A&B)

11:20 am  MEETING ENDS

11:45 am  Buses Depart

1:00 pm  Bus Arrives Houston

1:30 pm  Bus Arrives Smithville
# 2016 G&D and EMC Retreat

## Break-Out Sessions

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<th>Session #1</th>
<th>Saturday, October 1</th>
<th>11:30 - 12:15 p.m.</th>
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| #1 Moving Between Academic and Industry Positions (Room ASC-2) | William Sellers, MD, VP/Global Head of Oncology, Novartis Institutes for BioMedical Research (retired)*  
Taiping Chen, PhD, Associate Professor, Department of Epigenetics and Molecular Carcinogenesis, MD Anderson | Many scientists find themselves trying to decide between careers in Academia vs. Industry. Our panelists have experience in both, so this session provides a unique opportunity to discuss the pros and cons of both environments and gain insights into which might be the best fit for you. |
| #2 Genetic Screens and High-Throughput Technologies (Room ASC-3) | Trey Westbrook, PhD, Associate Professor, Baylor College of Medicine*  
Giulio Draetta, MD, PhD, Professor, Genomic Medicine and Director, Institute for Applied Cancer Science, MD Anderson | Genetic screens provide the opportunity to identify functionally important genes for a particular phenotype. These phenotypes can be as simple as cell viability or more complex, such as tumor growth in a mouse. When performed effectively, genetic screens have the potential to provide important functional insights. Possible discussion topics in this session include screening platforms, experimental design, analysis and interpretation, as well as experimental follow-up after screening. |
| #3 Live Imaging and Microscopy (Room ASC-4) | George Eisenhoffer, PhD, Assistant Professor, Genetics, MD Anderson  
Adriana Paulucci-Holtzhausen, PhD, Microscope Core Manager, Genetics, MD Anderson | Live imaging is powerful platform to allow scientists to obtain valuable insights into cellular structure and dynamics, as well as biological functions. This session is aimed to highlight the many applications for this technology in research, and how it may be useful for your own studies. |
| #4 Visas and International Affairs (Room ASC-5) | Rose Mary Valencia, Executive Director, Visa and Immigration Services Admin. Department, Academic & VISA Administration (AVA), MD Anderson | There are a number of unique challenges faced by international trainees. Join the executive director of the VISA office at MD Anderson to discuss a range of topics, including: specifics about the different types of VISAs, applying for a green card, and available resources. |

<table>
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<th>Session #2</th>
<th>Sunday, October 2</th>
<th>10:25 - 11:10 a.m.</th>
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| #1 CRISPR/Cas9 (Room ASC-2) | Xiaobing Shi, PhD, Associate Professor, Epigenetics and Molecular Carcinogenesis, MD Anderson  
Taiping Chen, PhD, Associate Professor, Department of Epigenetics and Molecular Carcinogenesis, MD Anderson  
Jan Parker-Thornburg, Associate Professor, Department of Genetics, MD Anderson  
Neeraj Aryal, G&D Student (Lozano Lab), Genetics, MD Anderson | CRISPR/Cas9 is a transformative technology that has made editing genomes faster, cheaper and more efficient than the existing methods. This technology is being widely used to create genetically engineered animal models, as well as cell lines. It has also been applied to genome-wide screening (similar to shRNA), with several libraries available. This session will focus on the breadth of applications of this technology, as well as how to effectively apply it to your own studies. |
| #2 Next Generation Sequencing (Room ASC-3) | Nicholas Navin, PhD, Associate Professor, Genetics, MD Anderson  
Chieh-Yuan Li, G&D Student and Former R&D Scientist, Thermo Fisher Scientific, South San Francisco | Next generation sequencing has revolutionized our understanding of genomes, transcriptomes, and epigenomes, and is being widely applied throughout biomedical research. Possible discussion topics in this session include important experimental considerations, analysis and interpretation of the data, as well as experimental follow-up after sequencing. |
| #3 Obtaining Grants and Fellowships (Room ASC-4) | Michelle Barton, PhD, Dean, UT Graduate School of Biomedical Sciences; Professor, Epigenetics and Molecular Carcinogenesis, MD Anderson  
Francesca Cole, PhD, Assistant Professor, Epigenetics and Molecular Carcinogenesis, MD Anderson  
Amanda Wasylischen, PhD, Postdoctoral Fellow (Lozano Lab), Genetics, MD Anderson | Want to write a winning grant? Want to receive a graduate fellowship or career development award? This panel discussion will provide valuable advice about the dos and don’ts of the process. |
| #4 Life and Death in Academia (Room ASC-5) | Junjie Chen, PhD, Professor and Chair, Experimental Radiation Oncology, MD Anderson  
Kevin McBride, PhD, Assistant Professor, Epigenetics and Molecular Carcinogenesis, MD Anderson  
Seol Hee Im, PhD, Postdoctoral Fellow (Galko Lab), Genetics, MD Anderson | From finding the best postdoctoral fellowship to getting your first faculty position to starting up your own lab and research program, this panel discussion will cover a range of topics focused on how to be successful in Academia. |

*See keynote speaker sheet for biographical information.*