CANCER BIOLOGY PATHWAY Luncheon  
January 12, 2016 – 12 noon – 2:00pm – 7th Floor Conference Room, Southwest Tower

Agenda
Presentations
Ben Ainscough – Mardis Lab
Tianjiao Wang – Welch Lab

Introduction & Spring 2016 Course
Lee Ratner, MD, PhD

Presentations
Sanghyun Kim – Walter Lab
Melanie Sparks – You Lab

Poster session
Angela Halstead, PhD – Arora Lab
Elizabeth Ostrander – Challen Lab
Simona Graziano – Gonzalo Lab
Objectives

• To train **graduate students and postdoctoral fellows** in cancer biology research

• Provide basic scientists training in basic, translational, and clinical cancer research

• Foster **interdisciplinary** collaborative undertakings
Program History

• Initiated with institutional funds in 2002 for graduate students
• Program expanded to postdoctoral students with funding of the T32 application in 2006 and full stipends. Successful recompetition in 2011-12
• 77 trainees thus far
  – 5 students in 2014 & 2 postdocs in 2014
  – 2 students & 1 postdoc in 2015
  – 1 postdoc in 2016 and up to 5 students
• Didactic courses since 1999
• Interdisciplinary - students and fellows participating from many different fields in multiple departments.
Recent Changes in Program

• Face-to-face ethics training required for postdocs (Mar PERCS)
• Visiting speaker/External advisor
• Research presentations by 2nd yr students & postdocs at luncheon
• Poster presentations by 1st yr students & postdocs at luncheon
• Career-development plan
• Statistics
• Career advice speaker at annual luncheon (if time permits)
# Cancer Biology Pre-Doc Trainees

**PreDoc Applicants Admitted in 2014**

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Program</th>
<th>Year</th>
<th>Research Area</th>
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</thead>
<tbody>
<tr>
<td><em>Benjamin Ainscough</em></td>
<td>Genetics</td>
<td>Genetics3rd yr</td>
<td></td>
<td>Computational approaches to detect genetic mutations</td>
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<tr>
<td>^<em>Melanie Sparks</em></td>
<td>Cell</td>
<td>MolCellBio2nd yr</td>
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<td>RNA damage response to cancer therapy</td>
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<tr>
<td>Sanghyun Kim Walter</td>
<td>Medicine</td>
<td>MolCellBio3rd yr</td>
<td></td>
<td>Role of U2AF in splicing Senescent osteoblasts and tumor microenvironment Role of STAG2 in hematopoietic differentiation</td>
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<tr>
<td>Bhavana Murali Stewart</td>
<td>Biology</td>
<td>MolCellBio3rd yr</td>
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<tr>
<td>Tianjiao Wang Welch</td>
<td>Medicine</td>
<td>MolCellBio3rd yr</td>
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**PreDoc Applicants Admitted in 2015**

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<tbody>
<tr>
<td>Simona Graziano Gonzalo</td>
<td>SLU</td>
<td>Biochem 3rd yr</td>
<td></td>
<td>VitD, 53BP1, PARP, &amp; Breast Ca</td>
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<tr>
<td>Elizabeth Ostrander</td>
<td>Medicine</td>
<td>MolCellBio3rd yr</td>
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<td>DNMT3a, Tet2, &amp; AML</td>
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Cancer Biology Post-Doc Trainees

PostDoc Applicants Admitted in 2014

**Jessica Silva-Fisher**  Maher  Medicine  Polycomb IncRNAs in metastatic colon cancer
Casey Wilson  Tomasson  Medicine  Genetics of myeloma
Theodore Keppel  Bose  Medicine  Cterm tail EGFRs structure-function

PostDoc Applicants Admitted in 2015

Angela Halstead  Arora  Medicine  PPAR, RXRA, & bladder cancer

PostDoc Applicants Admitted in 2016

Alex Wagner  Griffith  Genetics  Genome Interpretation Explorer
Journal Clubs Participating in Molecular Oncology Training Program

- Experimental Hematopoiesis Journal Club: D Link
- Cancer Biology Journal Club: J Weber
- Hematology & Oncology Journal Club: E Sadler
- Developmental Biology Journal Club: K Kornfeld
- Student-Run Cell Biology Journal Club: Hanson
- Genetics Journal Club: Johnson
- Molecular Virology Journal Club: Diamond
<table>
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<tr>
<th>Clinical Mentoring Session</th>
<th>Clinical Mentors</th>
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<tr>
<td><strong>Medical Oncology</strong></td>
<td>Lee Ratner MD PhD</td>
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<td>Ramaswamy Govindan MD</td>
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<td><strong>Radiation Oncology</strong></td>
<td>Jeffrey Bradley MD</td>
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<td></td>
<td>Jeff Michalski MD MBA</td>
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<tr>
<td><strong>Stem Cell Transplantation</strong></td>
<td>John DiPersio MD PhD</td>
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<td>Ravi Vij MD</td>
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<td><strong>Gynecologic Oncology</strong></td>
<td>Premal Thaker MD</td>
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<td>Matthew Powell MD</td>
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<td><strong>Surgical Oncology</strong></td>
<td>Jeffrey Moley MD</td>
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<td>Ryan Fields MD</td>
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<td><strong>Oncologic Surgical Pathology</strong></td>
<td>D Novack MD</td>
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<tr>
<td><strong>Oncologic Radiology &amp; Nuclear Medicine</strong></td>
<td>Barry Siegel MD</td>
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<td>Farrokh Dehdashti MD</td>
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Didactic Course

Tuesdays, 12 noon,
All students, postdocs, faculty, staff welcome

Schedule for 2016 Course

1/12  Cancer Biology Luncheon  Introduction to the Pathway, Student Presentations and Poster Session
1/19  Lee Ratner, MD, PhD  Introduction to Molecular Oncology
1/26  Jason Weber PhD  Cell Cycle
2/2  Ron Bose, MD, PhD  Cytoplasmic Signaling

2/9  Amy Barone, MD  Perspective on New Challenges in Oncology Drug Regulation in the Era of Genomics

2/16  Luis Batista, PhD  Immortalization and Cancer
2/23  Vivek Arora, MD, PhD  Nuclear Receptors in Prostate Cancer
3/1  Blair Madison, PhD  Multistep Colon Carcinogenesis
3/8  Terrence Wong, MD, PhD  p53 and Cancer
3/15  Chris Maher, PhD  Long Non-Coding RNAs in Cancer
3/22  Mark Krasnow  Lung Development and Cancer
3/29  Saima Waqar, MD, and Len Maggi, PhD  Genomics of Lung Cancer

4/5  Jian Campian, MD, PhD and Milan Chheda, MD  Neural Stem Cells and Cancer
4/12  Jackie Payton, MD, PhD  Epigenomic Regulation of Cancer
4/19  Student Selected Speaker  TBD
4/26  Student Selected Speaker  TBD

Attendance of all sessions & active discussion esp during presentation classic paper