CAMB 692

Week 1  Fri  Jan 14.  Organizational meeting

Week 2.  **Getting Started**
Mon  Jan 17:  Martin Luther King Day
Fri  Jan 21:  Topic assignment

Section I

Week 3.  **Signaling Networks and Raf Inhibitors**
Mon  Jan 24:  Review Articles
Fri  Jan 28:  Research Articles

*With: Mark Lemmon, Ravi Radhakrishnan, Casim Sarkar*

Reviews:

Papers:

Week 4.  **Signaling through Phosphatases**
Mon  Jan 31:  Review Articles
Fri  Feb 4:  Research Articles

*With: Mark Lemmon, Matt Lazzara, Kendra Bence*

Reviews:

Papers:

Week 5.  **Signaling by Receptor Tyrosine Kinases**
Mon  Feb 7:  Review Articles
Fri  Feb 11:  Research Articles
With: Mark Lemmon, Morrie Birnbaum (Fri)

Reviews:

Papers:

Week 6. Signaling by Phosphoinositides
Mon Feb 14: Review Articles
Fri Feb 18: Research Articles

With: Mark Lemmon, Morrie Birnbaum, Charles Abrams (Fri),

Reviews:
2. Michell RH. First came the link between phosphoinositides and Ca2+ signalling, and then a deluge of other phosphoinositide functions. Cell Calcium. 2009 Jun;45(6):521-6.

Papers (preliminary):

Section II

Week 7. Cytokine receptors
Mon Feb 21: Review Articles
Fri Feb 25: Research Articles

With Gary Koretzky, John O’Shea (NIAMS, NIH, Fri)

Week 8. T Cell Receptor Signaling
Mon Feb 28: Review Articles
Fri Mar 4: Research Articles

With Gary Koretzky

Reviews:

Papers:
2. Irving BA, Weiss A. The cytoplasmic domain of the T cell receptor z chain is sufficient to couple to receptor-associated signal transduction pathways. Cell 1991;64:891-901.

Week 9. Intracellular Receptors
Mon Mar 7: Review Articles
Fri Mar 11: Research Articles

With Gary Koretzky, Mike May
Section III

General background reviews

Week 10. Adhesion Receptor Signaling
Mon Mar 14: Review Articles
Fri Mar 18: Research Articles
With: RICK ASSOIAN, Paul Janmey, Rebecca Wells

Reviews:

Papers:

Week 11. Cell mechanics and mechanosensing
Mon Mar 21: Review Articles
Fri Mar 25: Research Articles
With: PAUL JANMEY, Rick Assoian, Rebecca Wells

Reviews:

Papers:

Week 12. Interactions between soluble factors, matrix and mechanics
Mon Mar 28: Review Articles
Fri Apr 1: Research Articles
With: REBECCA WELLS, Paul Janney, Rick Assoian

Reviews:

Papers:

Section IV
Week 13. **mTOR**
Mon Apr 4: Review Articles
Fri Apr 8: Research Articles
*With Morrie Birnbaum...*

Week 14. **Calcium Signaling**
Mon Apr 11: Review Articles
Fri Apr 15: Research Articles
*With Morrie Birnbaum, Kevin Foskett*

Week 15. **Metabolism**
Mon Apr 18: Review Articles
Fri Apr 22: Research Articles
*With Morrie Birnbaum*

Week 16. **TBA**
Mon Apr 25: Review Articles
Fri Apr 29: Research Articles
*With TBA*