Presenters (Mentor):

JAMES BULLARD (Geyer)
ALEXANDER CRIDER (Dey)
ATISH DEY (Soll)
JOHNATHAN FAGG (Rubenstein)
BHAVATHARINI KASINATHAN (Smolikove)
IRTAZA KHALID (Price)
RYAN MARLING (Weeks)
ALLYSON MAYER (Brenner)
CLAYTON OAKLEY (Davidson)
STEPHEN SIEMONSMA (Elcock)
DAVID SIMOENS (Wallrath)
KYLE STROUSE (Weeks)
JOHANNA URIBE (DeMali)

Wednesday, May 1, 2013
1:30-5:00 pm
1117 MERF
(Medical Education Research Facility)
1:30 MARC WOLD, PHD  
Professor of Biochemistry  
Opening Remarks

1:35 BHAVATHARINI (RINI) KASINATHAN  
Mentor: Sarit Smolikove (Biology)  
The relationship between proteolysis and the akirin pathway in synaptonemal complex disassembly during C. elegans meiosis

1:50 ALEXANDER CRIDER  
Mentor: Mishtu Dey (Chemistry)  
A novel DMSP lyase

2:05 JAMES BULLARD  
Mentor: Pamela Geyer  
Diversity in function: understanding how a polydactyl zinc-finger protein confers multiple functional outputs

2:20 ATISH DEY  
Mentor: David Soll (Biology)  
Identification of genes involved in candida albicans biofilm synthesis under the control of BCR1

2:35 JOHANNA URIBE  
Mentor: Kris DeMali  
Vinculin phosphorylation regulates epithelial phenotypes

2:50 IRTAZA KHALID  
Mentor: David Price  
Deregulation of P-TEFb through microsatellite instability-induced mutations in LARP7 as a potential cause of cancer

3:05 Break

3:20 CLAYTON OAKLEY  
Mentor: Beverly Davidson (Internal Medicine)  
The validation of several candidate genes predicted to have gained microRNA binding sites through transposable elements

3:35 DAVID SIMOENS  
Mentor: Lori Wallrath  
A Drosophila model for lamin-associated heart disease

3:50 STEPHEN SIEMONSMA  
Mentor: Adrian Elcock  
Course-grained BD simulations of type III secretion system needle in salmonella

4:05 ALLYSON MAYER  
Mentor: Charles Brenner  
Computational and experimental determination of protein acetylation as a function of nutrition

4:20 RYAN MARLING  
Mentor: Dan Weeks  
The role of cardiac NK2 genes in early heart development of Xenopus laevis

4:35 JOHNATHAN FAGG  
Mentor: Peter Rubenstein  
Molecular effects of two Baraitser Winter causing mutations

4:50 KYLE STROUSE  
Mentor: Dan Weeks  
Expression of the MiR183 cluster: is there a differential expression of these micro-RNAs in early development?

Reception to follow in Heath Conference Room, 4-403 BSB