

Past Seminars

Fall 2011

- Oct 7
12:00 p.m. Rabih Rafouyel (Advisor: R. Mosser) - Regulation of heat-induced cell death by pro-apoptotic Bcl-2 family proteins
12:45 p.m. Priya Dhanoa (Advisor: R. Mullen) - Distinct pathways mediate the sorting of tail-anchored proteins to the plastid outer envelope
- Oct 14
12:00 p.m. Anna Quach (Advisor: A. Bendall) - Testing the functional equivalence of Dlx5 & Dlx6 proteins
12:45 p.m. Mahsa Vazin (Advisor: R. Nazar) - Transcript termination by RNA polymerase I in the fission yeast, *Schizosaccharomyces pombe*
- Oct 21
12:00 p.m. Agata Zienowicz (Advisor: D. Mangroo) - Investigating the function of NOL11 in the mammalian nuclear tRNA export process
12:45 p.m. David Marom (Advisor: D. Mangroo) - Investigation of nucleolar import mechanism of tyrosyl-tRNA synthetase in *S. cerevisiae*
- Oct 28
12:00 p.m. Melora Mackey (Advisor: J. Robb) - Localization of *Verticillium* resistance in tomatoes using tissue-specific promoters
12:45 p.m. David Sychantha (Advisor: A. Clarke) - X-ray crystallographic determination of peptidoglycan O-acetyltransferase B2 from *Bacillus cereus*
- Nov 4
12:00 p.m. Sergio Jaramillo-Tatis (Advisor: G. Harauz) - Characterization of the Golgi-Interacting Protein and its interactions with BG21 and the 21.5 kDa isoform of MBP
12:45 p.m. Jennifer Knapp (Advisor: M. Baker) - Investigating the role of Rad51 in ectopic homologous recombination in mouse hybridoma cells
- Nov 11
12:00 p.m. Brittany Hunt (Advisor: C. Whitfield) - Characterization of WbbF, a putative glycan synthase involved in the assembly of O:54 antigen from *Salmonella enterica* sv Borreze
12:45 p.m. Madhulika Sareen (Advisor: J. Mathur) - Understanding the Arp2/3 complex mediation in F-actin dependent ER organization
- Nov 18
12:00 p.m. Kyla Cochrane (Advisor: E. Allen-Vercoe) - Is *Fusobacterium nucleatum* an enabling pathogen? Investigating a role for *Fusobacterium nucleatum* in synergistic infections
12:45 p.m. Naheda Sahtout (Advisor: J. Wood) - The importance of the cytoplasmic carboxyl terminal sequence of ProP for ProP function, localization and interaction

Winter 2011

- Feb. 4, 2011
12:00 pm - Vatsal Desai (Baker) - The role of homology length on 3' extension during mammalian homologous recombination
12:45 pm - Yang Liu (Krell) - Determination of the role me53 plays in both early and late phases in baculovirus life cycle
- Feb. 11, 2011
12:00 pm - Scott Mazurkewich (Seah) - Examination of the interactions defining the catalytic mechanism, substrate specificity and stereo-control within the CHA/HMG aldolase from *Pseudomonas putida* F1
12:45 pm - David Bertin (Lu) - Modeling aging and senescence with the freshwater planarian, *Schmidtea mediterranea*
- Feb. 18, 2011
12:00 pm - Andrea Datu (Bag) - The role of the terminal oligopyrimidine tract in regulation of poly(A)-binding protein expression during recovery from heat shock
- Mar. 4, 2011
12:00 pm - Asad Zia (Clarke) - O-acetylpeptidoglycan esterase 1 (Ape1): a possible target for the development of novel antibiotics
12:45 pm - Qianru Zhou (Emes) - Starch biosynthesis in *Arabidopsis thaliana*
- Mar. 11, 2011
12:00 pm - Anita Agblor (Josephy) - Substrate specificity of human gamma-glutamyl transferase
12:45 pm - James Poon (Josephy) - Isolation, using an affinity purification strategy, and identification of proteins that interact with mercapturic acids
- Mar. 18, 2011

12:00 pm - Tom Keeling (Kimber) - Biochemical characterization of the interactions mediated by CcmL – a key structural protein in the β -carboxysome

Mar. 25, 2011

12:00 pm - Nick Khuu (Mullen) - Understanding the role of CGI-58 during lipolysis in plants: an opportunity to increase oil yield in crops

12:45 pm - Rabih Roufayel (Mosser) - Regulation of heat-induced cell death by pro-apoptotic Bcl-2 family proteins

Apr. 1, 2011

12:00 pm - Maureen Mundia (Baker) - Role of RAD51 IN 3'-Extension: A Key Early Step in the Mammalian Homologous Recombinational DNA Repair Pathway

Apr. 8, 2011

12:00 pm - Sarah Iris Selander (Clarke) - Characterization of proteinaceous inhibitors of lytic transglycosylase Ivyp1 and Ivyp2 from *Pseudomonas aeruginosa*

12:45 pm - Stephen Allard (Dawson) - Altered sarcomere protein-protein interactions in heart disease: The role of actin mutations

Fall 2010

Dec 3, 2010

12:00 pm - Atik M. Rahman (Nassuth) - Role of ICE proteins in grapes

12:45 pm - Mike Schenkel (Mathur) - Investigating the cellular dynamics of actin-bundling protein FIMBRIN in *Arabidopsis thaliana*

Nov 26, 2010

12:00 pm - Mike Ianni (Josephy)- Single-codon modification of the C-terminal helix of human glutathione transferase T1-1

12:45 pm - no seminar

Nov 19, 2010

12:00 pm - Michael Toh (Allen-Vercoe) - Development of the zebrafish (*Danio rerio*) embryo model to assess neurologic effects of the GI microflora

12:45 pm - Marissa Dahari (Dawson) - Structural and functional consequences of point mutations in α -cardiac actin leading to the development of cardiomyopathies

Nov 12, 2010

12:00 pm - Kathleen Shroeter (Allen-Vercoe/Khursigara) - Steps towards the establishment of probiotics in the distal colon

12:45 pm - Elyse Roach (Khursigara) - Dissecting protein complexes within the *Escherichia coli* divisome using correlative microscopy

Nov 5, 2010

12:00 pm - Danve Castroverde (Robb/Nazar) - Characterization of the *Verticillium* wilt resistance genes (Ve genes) in tomato

12:45 pm - Ashley Hillier (van der Merwe) - Investigating the impact of the Etp1 complex on alcoholic fermentations and the turnover of Hexose transporters

Oct 29, 2010

12:00 pm - Alexandra Elliott (Krell) - Comparing influenza virus hemagglutinin (HA) expression in three different baculovirus expression systems

12:45 pm - Yfke Pasman (Kaushik) - Bovine antibody genetics and its application in herapeutics, prophylaxis and immunodiagnosis

Oct 22, 2010

12:00 pm - Maureen Mundia (Baker) - Genetic requirements for strand invasion and 3'-extension during mammalian homologous recombination

12:45 pm - Steven Ching (Mullen) - Reinvestigating the subcellular localization of *Arabidopsis thaliana* glyoxylate reductase 1

Oct 15, 2010

12:00 pm - Arjun Chatterji (Yankulov) - "Anti-Silencing at Telomeres"

12:45 pm - Wan Kong Yip (Lu) - "The Role of Zhangfei/CREBZF in the Mammalian Unfolded Protein Response"

Winter 2010

Mar 26, 2010

Angus Ross (van der Merwe) - Members of the Vid30 complex and their roles in hexose transporter turnover in wine fermentations

Ehsan Fayaz (Harauz) - Polymorphism of myelin basic protein – a fluorescence spectroscopy, dynamic light and x-ray scattering study

Mar 19, 2010

Patty Chisamore-Robert (Yankulov) - Uncovering the functional differences between silencer and replicator ARS of *Saccharomyces cerevisiae* through analysis of the B1 element

Whitney Lum (Van Raay) - Investigation of Axin2 in zebrafish (*Danio rerio*) development and its role in canonical Wnt signaling

Mar 12, 2010

Zach LeBlanc (Colasanti) - Functional characterization of AtIDD1, a putative transcription factor in *Arabidopsis thaliana*

Antonio Facciolo (Mutharia) - Defining the exoproteome of *Mycobacterium avium* subspecies paratuberculosis for diagnostic candidates

Mar 5, 2010

Trevor Morey (Mosser) - Noxa phosphorylation and its role in the regulation of the interaction and degradation of Noxa/Mcl-1 complexes

Ema Suvajac (Greenwood) - Characterization of a novel Type I metacaspase in tomato and its implications in programmed cell death

Feb 26, 2010

Adam McCluggage (Lu) - The role of dimerization in Luman-mediated signal transduction during the unfolded protein response (UPR)

Minghua Zeng (Lu) - Regulation of CREBZF and its role in integrated stress response

Feb 12, 2010

Colin Stringer (Jones) - Investigating the role of Nck association with actin mediators in cell morphology and podocyte function

Feb 5, 2010

Veronique Taylor (Lam) - Structural characterization of the O antigen ligase Waal in *Pseudomonas aeruginosa* PAO1

Dec 11, 2009

Usha Rayirath (Emes/Tetlow) - Effects of Protein Phosphorylation on the Regulation of Starch Biosynthesis in Maize (*Zea mays* L.)

Geordie Wright (Wood) - Identification of Osmolytes and Osmolyte Transporters that Confer Resistance to a Variety of Stresses on *Escherichia coli*

Jenna Denyes (Krell/Kropinski) - The Genomic, Proteomic and Molecular Characterization of *Serratia marcescens* Bacteriophage Eta(η)

Dec 4, 2009

Derek Ho (Merrill) - A Combination of FRET and a Novel Selective Labelling Approach in Characterizing the Membrane-Bound Topology of the Colicin E1 Channel

Iulia Cealic (Baker) - The role of tumor suppressor BRCA2 in Homologous Recombination-based repair of Double Strand DNA breaks

Nov 27, 2009

Daniel Jeffrey (Yankulov) - Regulation of Telomeric Position Variegation by CDC7 and CAC1 in Yeast

Nov 20, 2009

Melanie Wills (Jones) - Great adaptations: Shc family adaptor proteins in the cell signal transduction cascades of health and disease

Stephanie Hughes (Graether) - The role of intrinsic disorder in cryoprotection by the K2 dehydrin from *Vitis riparia*

Nov 13, 2009

Lynn Richardson (Mullen) - The *Arabidopsis* ESCRT machinery and the role of ESCRT in tomato bushy stunt virus-induced peroxisomal multivesicular body biogenesis

Julie McDonald (Allen-Vercoe) - Effect of norepinephrine on the human gut microbiota and its influence on Inflammatory Bowel Disease

Mike Norris (Krell) - Transcriptional and post-transcriptional regulation of *chiA* and *v-cath* expression from *Autographa californica* multiple nucleopolyhedrovirus (AcMNPV) infection (rescheduled from Oct 30)

Nov 6, 2009

Kelly Keithlin (Jones) - Investigating the role of the 16 kDa subunit of the V-ATPase in integrin signaling within a 3D breast cancer model

Chris Ostrowski (Stevenson) - Attenuated virulence in a fish pathogen: signature tagged mutants of *Yersinia ruckeri*

Oct 30, 2009

Chris Langley (Seah) - Investigation of the catalytic mechanism and biosensing potential of phosphotriesterases

Oct 23, 2009

Zach Turgeon (Merrill) - Mono-ADP-ribosyltransferase (mART) toxins as targets for antivirulence therapy

Steve Hawley (Jones) - Shc adaptor proteins: how proper expression and signaling are essential for mammalian development and health

Oct 16, 2009

Kashif Mahmood (Rothstein) - Investigating the roles of NAC transcription factors in plant senescence and nitrogen remobilization

Mark Burrell (Emes)

Fushan Liu (Emes)

Kim Gibson (Mullen/Greenwood)

Apr 17, 2009

12:00 Adam Mark - Characterization of *Escherichia coli* membrane-bound lytic transglycosylase F (MltF)

12:45 Rajbir Gill - The role of the ACS (ARS Consensus Sequence) in telomeric silencing in *Saccharomyces cerevisiae*

Apr 3, 2009

12:00 pm Nilufar Mohseni - Determination of the Role of Hyperthermia and Hsp70 on Bcl-2 Family Proteins
12:45 pm Zaheer Ahmed - The Regulation of Starch Biosynthesis in Cereal Endosperm Using Barley as a Model Plant

Mar 27, 2009

12:00 pm Lily Nasanovsky - Elucidation of the regulation and organization of the vitamin E biosynthetic pathway in higher plants
12:45 pm Jason Carere - Investigation of aldolase/dehydrogenase complexes that exhibit substrate channeling

Mar 13, 2009

12:00 pm Adin Shniffer - Purification and Characterization of Putative Mono-ADP-Ribosyltransferase Virulence Factors
12:45 pm Erin Veldman - Purification and Characterization of Cysteine S-Conjugate N-Acetyltransferase

Feb 27, 2009

12:00 pm Melissa Chow - Cardiac actin variants related to cardiomyopathies
12:45 pm Krin Mann - Potential interaction of Grapevine rupestris stem pitting-associated virus triple gene block proteins

Feb 13, 2009

12:00 pm Sally Burtenshaw - Potential Roles of Zhangfei (ZF/CREBZF) in the Unfolded Protein Response (UPR) and Implications in Neurological Disease

Feb 6, 2009

12:00 pm Bozena Samborska - Investigating the architecture of the arboxysomal shell in *Thermosynechococcus elongatus* BP-1

Jan 30, 2009

12:00 pm Megan Phillips - Identification of the role of Membrane-bound lytic transglycosylase F in *E. coli*

Jan 16, 2009

12:00 pm Miguel De Avila - Myelin basic protein interactions with SH3 domains
12:45 pm Patrick Moynihan - Moving towards a complete understanding of O-acetylation of peptidoglycan in *Neisseria gonorrhoeae*

Dec 5, 2008

12:00 pm Renuka Subasinghe
"The Role of Starch Synthase IV and Starch Phosphorylase in Starch Biosynthesis in Maize"

Nov 28, 2008

12:00 pm Shruti Patel - "Structure and Function of Type I Antifreeze Protein"
12:45 pm Laura Bond - "Transcript Termination by RNA Polymerase I in the Fission Yeast"

Nov 21, 2008

12:00 pm Robert Johns - "Genetic analysis of strain differences in the fish pathogen *Yersinia ruckeri*"
12:45 pm Yfke Pasma - "Species barrier in prion diseases"

Nov 7, 2008

12:00 pm Laura Greenfield - "Functional Characterization of Mannosyltransferases Involved in the ABC-Transporter-Dependent Synthesis of O-polysaccharide in *Escherichia coli* Serotypes O8 and O9a"
12:45 pm R. Scott Hilborn - "Analyzing the Regulation of Floral Induction by the zinc finger protein INDETERMINATE1 in maize"

Oct. 31, 2008

12:00 pm Meagan Mojeski - "The Role of the Appendix in the Human Body"

Oct 24, 2008

12:00 pm Salim Islam - "CRISPR: a novel prokaryotic anti-phage defence system mediated by eukaryote-like RNAi gene silencing"

Oct 17, 2008

12:00 pm Karla Williams - "Viral and Non-Viral Vectors for Gene Therapy and Molecular Medicine"

Oct 10, 2008

12:00 pm Laura Sande - "Interactions between the *Bacteroides fragilis* surface and the intestine of its animal host mediate symbiosis and host health"
12:45 pm Michelle Pinto - "Development of Therapy for Human Immunodeficiency Virus infection through Zinc Finger Nuclease modification of CD4+ T Cells"

Oct 3, 2008

12:00 pm Colin MacDougall - "Tetraspanins as potential vaccine candidates against blood-dwelling trematodes of the genus *Schistosoma*"

Sept 26, 2008

12:00 pm Derek Ho - "Recent Advances in the Study of Induced Pluripotent Stem Cells"

12:45 pm Perrin Baker - "Designer Proteins: Towards the Engineering of Novel Protein Functions"

Sept 19, 2008

12:00 pm Lisa Willis - "O-GlcNAc: An essential post-translational modification that modifies protein activity"

12:45 pm Laura Rice - "Glucosylating toxins of Clostridium difficile"