

2013/2014 Undergraduate 59-410 Research Project Defence
April 28 & 29, 2014, Essex Hall, room 186

Day 1 Schedule (April 28, 2014)

Time	Student Name	Presentation/Thesis title	Supervisor	Reader
9:00-9:20 am	Osman Raza	Synthesis and Characterization of 1,3,2-Dithiazolyl Radicals	Dr. Jeremy Rawson	Dr. MacDonald
9:20-9:40 am	Diana Cuckovic	Rotaxanes as Organic Crystals; Dynamic Potential	Dr. Steve Loeb	Dr. Rawson
9:40-10:00 am	Anthony Sandre	The applications of ³⁵ Cl SSNMR to pharmaceuticals: detection of polymorphs and impurity phases	Dr. Robert W. Schurko	Dr. Rawson
10:00-10:20 am	Danny Mansour	Light-emitting Electrochemical Cells Incorporating Poly(ethylene oxide) Grafted Butyl Rubber in Iridium Complex Emissive Layers	Dr. Tricia Carmichael	Dr. Loeb
10:20-10:40 am Coffee break				
10:40-11:00 am	Josh Del Papa	Validation of a novel biochemical technique for fish gut content analysis	Dr. Aaron Fisk	Dr. Vacratsis
11:00-11:20 am	Thomas Koltko	Optimization of Antibodies to study Translational Regulatory Proteins in Toxoplasma Gondii	Dr. Sirinart Ananvoranich	Dr. Vacratsis
11:20-11:40 am	Justin Roberto	The elucidation of the phosphatase responsible for dephosphorylation of MTMR2 at serine 58	Dr. Panayiotis Vacratsis	Dr. Ananvoranich
11:40-12:00 pm	Emilie Glanz	Identification of the kinase responsible for C-terminal phosphorylation of myotubularin related protein 2	Dr. Panayiotis Vacratsis	Dr. Mutus
12:00-12:20 pm	Jackson Thomas McAiney	Functional Characterization of the I4399M variant of Apolipoprotein(a)	Dr. Marlys Koschinsky	Dr. Mutus
12:20 - 2:00 pm Lunch break				
2:00-2:20 pm	Sera Sayegh	The Effect of 17K Apolipoprotein(A) on the Promoter Activity of Interleukin-8 in THP-1 Macrophages	Dr. Marlys Koschinsky	Dr. Ananvoranich
2:20-2:40 pm	Emilyn Anderi	Benzimidazole Based Anion Transporters: Incorporation of [2]Rotaxanes into Membrane Transport Studies	Dr. Steve Loeb	Dr. MacDonald
2:40-3:00 pm	Justin Binder	Synthesis and Study into the Tunable Photophysical Properties of a Series of Acyclic N-Heterocyclic Carbene Stabilized P1 Cations	Dr. Charles MacDonald	Dr. Rawson
3:00-3:20 pm	Mitchel Chartrand	The Attempted Synthesis of the Tenuifolin Derivative: 3, 9-Dimethoxy-7-(methoxymethyl)-5H-dibenzo[a,c][7]annulen-10-ol	Dr. James Green	Dr. Rawson
3:20-3:40 pm Coffee break				
3:40-4:00 pm	Stefan Zalanca	Optical Properties of Gold and Silver Nano particles in L-Tryptophan via Surface Enhanced Raman Spectroscopy	Dr. Ricardo Aroca	Dr. Mutus
4:00-4:20 pm	Samantha Pacter	Induction of Cell Death in Osteosarcoma Cells by Synthetic Analogues of Curcumin and Synergism with Piperlongumine	Dr. Siyaram Pandey	Dr. Boffa
4:20-4:40 pm	Naiha Sharma	Isolation of Endogenous Neutral Sphingomyelinase and how it functions in the human body	Dr. Bulent Mutus	Dr. Boffa
4:40-5:00 pm	Katie Pacuta	The role of TAFII in Breast Cancer Metastasis: Generation of a Lentiviral Expression System of Thrombomodulin Mutants	Dr. Michael Boffa	Dr. Pandey

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Day 2 schedule (April 29)

Time	Student Name	Presentation/Thesis title	Supervisor	Reader
9:00-9:20 am	Christine To	Dynamic Interlocked Metal Organic Frameworks: Synthesis of an Unsymmetrical Rotaxane and Dynamic MORF Studies	Dr. Steve Loeb	Dr. MacDonald
9:20-9:40 am	Liz Mansour	Synthesis, Characterization and Metal Coordination Complexes of 1,2,4-Benzothiadiazines	Dr. Jeremy Rawson	Dr. Loeb
9:40-10:00 am	Wilson Luo	Coordination Chemistry of Bispidine-based Ligands	Dr. Zhou Wang	Dr. Loeb
10:00-10:20 am	Michael Bernier	Synthesis of a Precursor to a Dehydrocyclononatetraenyl Cation	Dr. James Green	Dr. Rawson
10:20-10:40 am Coffee break				
10:40-11:00 am	Matthew Gemin	Investigation of Tyrosine Phosphorylation on the Human Orthologue of YVH1	Dr. Panayiotis Vaccratsis	Dr. Pandey
11:00-11:20 am	Ross Lepera	Delayed Death and Loss of the Apicoplast by Quinoline Based Drugs in Toxoplasma gondii	Dr. Sirinart Ananvoranich	Dr. Pandey
11:20-11:40 am	Kayven Beemer	Adsorption of BTEX Group Compounds onto Phenolic Polymers Created by Soybean Peroxidase	Dr. Keith Taylor	Dr. Mutus
11:40-12:00 pm	Farzana Afrin	Binding of Protein Disulfide Isomerase to Cells Under Oxidative Stress	Dr. Bulent Mutus	Dr. Boffa
12:00-12:20 pm	Daniel Mannina	Regulation of Transcription Factor KLF7 by Phosphorylation Dependent Ubiquitination	Dr. Panayiotis Vaccratsis	Dr. Boffa
12:20 - 2:00 pm Lunch break				
2:00-2:20 pm	Joshua Clarke	Synthesis and Characterization of Arene-Perfluoroarene 1,2,3,5-Dithiadiazolyl Radicals	Dr. Jeremy Rawson	Dr. Loeb
2:20-2:40 pm	Kevin Wong	Conversion of a Bis-suit[1]ane to a [2]Rotaxane	Dr. Steve Loeb	Dr. Rawson
2:40-3:00 pm	Martin Tang	Synthesis and Photophysical Studies of Cyclic N-Heterocyclic Carbene Adducts of PI Cations	Dr. Charles MacDonald	Dr. Loeb
3:00-3:20 pm	Adrian Niec	Utilizing Chemical Mechanical Polishing to Overcome Solvent Effects on Gold Substrates in the Study of Molecular Electronics	Dr. Tricia Carmichael	Dr. MacDonald
3:20-3:40 pm Coffee break				
3:40-4:00 pm	Serxho Selmani	Towards The Synthesis of Tetraazaporphyrin Rings With Two Different Side Chains for the Preparation of Cross-Linked Langmuir-Blodgett Films	Dr. Holger Eichorn	Dr. Carmichael
4:00-4:20 pm	Petra Hrabar	Scalable Method For Preparing Silver Nanowire/Optical Adhesive Coatings for use in Thin Film Heaters	Dr. Tricia Carmichael	Dr. Green