

REMINDERS

SEMINAR/JOURNAL CLUB/THESIS DEFENSE

The Fall 2011-12 Seminar Series can be found on-line at <http://www.pathology.wisc.edu/Seminars/>

Submit Newsletter Material to:

Joanne Thornton
Education Coordinator
Dept of Pathology & Lab Med
3170-10K/L
1685 Highland Avenue, 53705
Madison, WI 53706
(608) 262-2665
jmthornt@wisc.edu

CMP Graduate Program

Committee Memberships/**New**
Members
2011-12

Steering Committee

Zsuzsa Fabry, PhD (Chair) (i)
Dr. Riccardo Lloyd MD, PhD(c)
Anna Huttenlocher, MD (i)
Donna Peters, PhD (st)
Matyas Sandor, PhD (i)
Erik Ranheim MD, PhD ©
Emery Bresnick, PhD (st)
Bo Liu PhD, PhD (st)
Adel Talaat, MVSc, PhD (i)
Ex officio: Joanne Thornton,
Graduate Program Coordinator
Student PhD Candidates:
Anna Ritter, Holly Hung,
Ben Clarkson,

ANNOUNCEMENTS!

Andreas Friedl, MD, Appointed New Chair of the Department of Pathology and Laboratory Medicine

A faculty member since 1997, Dr. Friedl assumed the chair position July 1. He succeeds Michael Hart, MD, who had served in the position for 16 years. Dr. Friedl is a professor in the department and director of surgical pathology at UWMC and is a member of the UW Carbone Cancer Center's Tumor Microenvironment Program. He also directs a clinically oriented research effort to develop techniques for measuring the effects of anti-cancer agents on tissue samples.

New Co-Director for Cellular and Molecular Pathology Graduate Training Program

The Cellular and Molecular Pathology Graduate Training Program proudly announces that RICARDO V. LLOYD, MD, PhD is the new Co-Chair of the CMP program. Dr. Lloyd joined the Department of Pathology and Laboratory Medicine in 2010 and he is currently the Director of the UWCCC BioBank at UW-Madison. Dr. Lloyd has been involved in teaching medical students endocrine pathology for the past 26 years at the University of Michigan and Mayo Clinic. Dr. Lloyd has been a member of numerous Graduate Student Dissertation Committees at the Mayo Foundation and trained close to 70 students in his laboratory prior to joining the CMP program. Dr. Lloyd's primary area of research is in the study of endocrine tumor development and progression. Dr. Lloyd's reference list includes 464 publications, 20 book chapters and 8 books. Dr. Lloyd's laboratory is currently studying adult stem cells in the normal human thyroid and tumor stem cells in thyroid malignancies. Please join us to thank him for accepting this

CMP TRAINER NEWS!

(As reported in the SMPH Research Digest)

Professor Igor Slukvin's Success with Stem Cells

By coaxing healthy and diseased human bone marrow to become embryonic-like stem cells, the ground has been laid for observing the onset of the blood cancer leukemia in the laboratory dish. This is the first successful reprogramming of blood cells obtained from a patient with leukemia. The study was aimed at generating all-purpose stem cells from bone marrow and umbilical cord blood. Diseased cells were turned back into pluripotent stem cells, which provide a new model for the study of cancer cells

Admission and Recruitment Committee

Caroline Alexander, PhD (c)
Bo Liu, PhD (st)
Shelby O'Connor, PhD(i)
Matyas Sandor, PhD (i)
David O'Connor, PhD (i)
Dan Loeb (c)

Student PhD Candidates:
Admission:

Jeff Harding, Utibe Bickham, Caitlin McNair

Recruitment:

Stephanie Lawry, Chelsea Hope, Mike Khan, Zulmarie Perez, Maggie Maes, Joe Ollar

Pathology Seminar Series

Erik Ranheim (Chair) ©
Zsuzsa Fabry (i)
Matyas Sandor (i)
Student PhD Candidates
Stephanie Morgan
Ex officio: Joanne Thornton

First Year Advising & Orientation

Donna Peters, PhD (Chair) (st)
Chris Seroogy, MD (i)

Curriculum

Deric Wheeler (Chair) ©
Zsuzsa Fabry, PhD (i)
Erik Ranheim, MD, PhD ©
Craig Atwood, PhD (n)
Donna Peters, PhD(st)
Student PhD Candidates
Melba Marie Tejera
Melissa Wilking
Ex officio: Joanne Thornton

Ethics

Zsuzsa Fabry, PhD (Chair) (i)
Bo Liu (st)
Student PhD Candidate
Student: Melissa Wilking
Ex officio: Joanne Thornton

Diversity

Adel Talaat (Chair) (i)
Riccardo Lloyd, MD, PhD
Zsuzsa Fabry, PhD(j)
Student PhD Candidate: Melba Marie Tejera
Ex officio: Joanne Thornton

CMP External Review Committee

Professor Gail Robertson
Physiology (Chair)
Professor Ronald Kali
Ophthalmology & Visual Sciences
Center for Neuroscience

Professor Herbert Chen Earns Dean's Research Mentorship Awards

These awards recognize individuals who devote exemplary effort to encouraging and developing medical student researchers outside of the classroom.

Professor Emery Bresnick Earns MERIT Award from National Institutes of Health

Dr. Bresnick has earned a coveted MERIT Award by the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), a division of the NIH. The NIH gives MERIT Awards to investigators who have demonstrated "superior competence and outstanding productivity in their research endeavors." His research focuses on how stem cells and progenitor cells give rise to red blood cells and how hemoglobin production is controlled-in both normal and disease states, including sickle-cell anemia and thalassemia.

Professor Anna Huttenlocher has become MSTP Director

Dr. Huttenlocher, associate director for the SMPH Medical Scientist Training Program (MSTP), became the MSTP director on July 1, 2012, taking over from Deane Mosher, MD.

Professor Allen-Hoffmann's & Professor Slukvin's Ventures Mentioned as UW Ideas Moved to Industry

Dr. Slukvin was part of a group of investigators who created Cellular Dynamics International (CDI) creator of iCell Cardiomyocytes, which have the metabolic and electrophysiological properties of pure heart cells, and soon expects to be offering other products-including nerve and liver cells. Dr. Allen-Hoffmann started Stratatech, which commercializes unique skin substitute products. Both are recognized as important start-up companies with links to the School of Medicine and Public Health, and representative of the growing trend to encourage researchers to move ideas/discoveries to the marketplace.

CMP STUDENT NEWS!

Congratulations to our 2011 Graduates!

- Lara Vojnov, PhD, April 4, 2011
- Marina Durward, PhD, April 20, 2011
- Aparna Vidyasagar, PhD, August 23, 2011
- Shruti Goel, PhD, September 6, 2011
- Amanda Nosie, MS, October 14, 2011
- Mauricio Martins, defense for PhD, November 29, 2011

NEWS: CMP GRADUATES

2011 Graduate, Lara Vojnov, PhD, is currently in Monrovia, the capitol of Liberia, working for the Clinton Health Access Initiative. Lara is currently a consultant helping the Liberian government. Her particular focus is with a few of the National AIDS Control Program's HIV studies and general Monitoring and Evaluation Program.

2011 Graduate, Shruti Goel, PhD, has begun a postdoctoral at the University of Medicine and Dentistry New Jersey (UMDNJ) with Dr. Elizabeth Moran.

2011 Graduate, Marina Druward, PhD, has joined Vatrix Medical, Inc. in Minneapolis MN. Marnia's work focuses on cardiovascular devices and diagnostic technology.

CMP WELCOME WEEK NEWS!



Annual Research Retreat & Poster Session a Success!

On Tuesday, August 23rd CMP students and trainers participated in CMP's annual Research Retreat/Poster Session in the HSLC Atrium from 2-4pm. Many thanks to all of those who participated.

The event was, as always, a wonderful way to catch up on progress made by CMP students in their Labs!

"Theatre in the Woods" (APT) Welcome!

This year trainers and students attended the American Players Theatre Production of "The Circle" on Friday, September 16th.

At 6pm a slow steady drizzle tried to dampen spirits; an impossible feat. By 8pm the skies became clear, making for an entertaining evening under the stars!



Pease join us in welcoming our 2011 Incoming CMP Students!

Hyunjun Kang

Hyunjun received his Bachelor's in Life Science from Konkuk University in Korea in 2004. He went on to complete a Masters in Molecular Immunology at CHA University in Korea in 2009. Hyunjun is a member of Dr. Igor Slukvin's lab.

Mike Khan

Mike comes to us from Carnegie Mellon University after receiving his Bachelor's in Biological Sciences with a minor in Chemistry. From 2008-2010, Mike conducted research in Dr. Gordon Rule's laboratory where he studied the purification of activation-induced cytidine deaminase for structural and biophysical studies. During 2010-2011, Mike worked in Dr. Aaron Mitchell's Biological Science laboratory, where he elucidated the virulence of *Candida albicans*, a major invasive fungal pathogen of humans.

Danny Lebert

Danny graduated with a Bachelor's in Biology/Physiology and a minor in Chemistry from Northern Michigan University in 2007. He then went on to receive his Masters in Biology from Northern Michigan University. Danny has been conducting research since 2003 and most recently worked for Dr. R. Rovin and Dr. R. Winn's laboratory on brain tumor focused research. His research resulted in the isolation of murine neural stem cells and tumor derived exosomes whose link to cancer is beginning to be characterized.

Margaret Maes

Maggie received her Bachelor's in Genetics from the University of Wisconsin-Madison in May 2008. As an associate research assistant in the Department of Pediatrics, she researched the role of c-Jun N-terminal Kinase in the regulating the translation of Amyloid Precursor Protein in dendritic spines in Fragile-X syndrome.

Kaitlin Mitchell

Kaitlin recently graduated from the University of Pittsburgh with a Bachelor's in Microbiology, Minors in Chemistry and Music, and a Global Studies Certificate with a concentration in Global Health. Prior to starting the CMP program, her research in the Hatfull laboratory

involved studying cytotoxic mycobacteriophage genes with hopes that the laboratories' findings will lead to the development of anti-tuberculosis drugs. Kaitlin's research interests include microbial pathogens, host-pathogen interactions, medical microbiology, viral pathogenesis, global health, emerging infectious diseases, and microbial ecology and evolution.

Monica Montano

Monica recently received her Bachelor's in Biology with a Cell & Molecular emphasis from Rockhurst University in Missouri. She conducted research in Dr. Lisa Felzien's Laboratory looking for homologous zebra fish hormone receptors in other organisms. Monica's research experience includes various fields including computational and plant biology.

Joe Ollar

Joe received his Bachelor's in Biology with an emphasis on Cell & Molecular Biology from San Diego State. From 2009-2010, Joe worked in Dr. Roland Wolkowicz's Laboratory studying elucidation of novel frame shift proteins produced by Hepatitis C. Most recently, he participated in an Algae bio-fuel project in Dr. John Love's Laboratory, researching the development of an inducible, endogenous lipid recovery system. Joe's current interests lie in studying host-pathogen interactions and their relevance to human diseases.

Zulmarie Perez Horta

Zulmarie graduated from the University of Puerto Rico with her Bachelor's in Chemistry and Biology in 2010. During her academic career, Zulmarie worked in Dr. Abimael Rodriguez's laboratory where she studied the separation, isolation, and characterization of secondary metabolites from Caribbean marine sponges in an attempt to find antitubercular activity, and the novel synthesis of a sterol with promising antitubercular activity.

Aarhi Ravichander

Aarhi received a Bachelor's in biomedical Engineering in 2008 from North Carolina State University, and continued on to receive another Bachelor's in Microbiology in 2010. She has also received Minors in French and Environmental Toxicology. Aarhi's research experience includes green fluorescent protein stability and microbial identification in Dr. Nathaniel Hentz's BTEC Analytical Laboratory, along with bacterial growth and isolation of E. coli clones in Dr. Paul Orndorff's Laboratory.

Jose Rodriguez Molina

Jose comes to us from the University of Puerto Rico with a Bachelor's in Chemistry and Biology. Before joining CMP, Jose had been working in Dr. Garcia Arraras' Laboratory since 2009, researching sea cucumber's extracellular matrix components involved in regeneration. Jose's current interests lie in neurodegenerative disorders.

Pansakorn Tanratana

Pansakorn received his Medical Degree in 2008 from Mahidol University in Thailand, where he later served as a lecturer in the Department of Pharmacology. Pansakorn participated in the Thalassemia Research group where he examined the effects on platelet aggregation of hemin in serum of beta-thalassemia hemoglobin E disease patients and also worked as a part-time general practitioner at a private hospital. His current interests include cancer biology, cell signaling, stem cells, and hematology.

Wei Wang

Wei recently graduated from Huazhong University of Science and Technology in China, where she earned two Bachelor degrees in Bio-information Technology and Computer Science and Technology. Wei's previous research experience includes using molecular cloning to observe the effects of 143microRNA on the growth of lung cancer and testing point mutation relating the hypertension among Chinese hypertension patients. Wei's current research interests lie in pathological conditions and diseases, with a special interest in cancer.

CMP Steering Committee Meetings

Steering Committee meetings are held on the third week of each month. If you have an item that you would like to be discussed, please, submit to: Joanne Thornton (jmthornt@wisc.edu).

Welcome New Trainers to the CMP Program!

.....

Nihal Ahmad, PhD

Professor

Department of Dermatology

Dr. Ahmad's research is focused on two broad and complimentary research areas: 1) cancer biology, and 2) the prevention and experimental therapeutics of cancer. His major focus is to study the molecular mechanisms/signal transduction pathways involved in the development and progression of cancer. His lab is studying the role and functional significance of mitotic regulators in cancer development and progression.

Xinyu Zhao, PhD

Associate Professor

Department of Neuroscience

The research in Dr. Zhao's laboratory focuses on understanding the molecular mechanisms that regulate neural stem cells and neurodevelopment with the goal of applying this knowledge in the treatment of neurological disorders and injuries.

Tim Yoshino, PhD

Professor

Department of Pathobiological Sciences

The overall focus of Dr. Yoshino's current research program is on the cellular and molecular interactions between the human blood fluke, *Schistosoma mansoni*, and its snail intermediate host, *Biomphalaria glabrata* that determine success or failure in establishing infection with in the host. Two related areas of research emphasis are currently being pursued: (i) identifying and characterizing elements of the innate immune system of snails and defining their anti-parasite activities, and (ii) investigating the role of parasite glycans in modulating snails' immune responses.

Herb Chen, MD

Professor,

Department of Surgery

Dr. Chen's laboratory focuses on the role of cellular signaling pathways in the differentiation and growth of neuroendocrine (NE) tumors including carcinoid, pancreatic islet cell, pheochromocytoma, and medullary thyroid cancer.