

NATIONAL GRADUATE STUDENT RESEARCH CONFERENCE

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OCTOBER 8TH – 10TH, 2012

NATIONAL INSTITUTES OF HEALTH
BETHESDA, MARYLAND



EXPERIENCE THE NATIONAL INSTITUTES OF HEALTH

7TH NIH
NATIONAL GRADUATE STUDENT
RESEARCH CONFERENCE

OCTOBER 8TH – 10TH, 2012

NATCHER CONFERENCE CENTER | BETHESDA, MARYLAND

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AGENDA

Monday, October 8, 2012: Hyatt Regency Bethesda

- 3:00 – 7:00 PM** **Check In and Registration**
Cabinet/Judiciary Foyer
- 5:15 – 5:30 PM** **Welcome and Opening Remarks**
Jackie A. Lavigne, PhD, MPH, Co-Chair, NGSRC Organizing Committee
Cabinet/Judiciary Rooms
- 5:30 – 6:45 PM** **NIH 101**
What is the NIH, how is it organized, and how does it work?
Sharon L. Milgram, PhD, Director, NIH Office of Intramural Training & Education
Cabinet/Judiciary Rooms
- 7:00 – 9:00 PM** **DineArounds***

Tuesday, October 9, 2012: Hyatt Regency Bethesda

- 8:00 – 9:00 AM** **Information Session with the NIH Institute/Center Training Directors**
Cabinet/Judiciary Rooms
- 9:15 – 10:00 AM** **Travel to NIH Campus; Poster Setup for Poster Session I**
Natcher Conference Center (Bldg. 45), Upper Level Atrium

Tuesday, October 9, 2012: NIH Campus

- 10:00 AM – 12:15 PM** **NIH Research Festival Plenary Session**
Masur Auditorium (Bldg. 10)
- 1:00 – 2:00 PM** **Poster Session I – NGSRC Participants Poster Session**
Natcher Conference Center (Bldg. 45), Upper Level Atrium
- 2:00 – 3:00 PM** **Poster Session II – NGSRC Participants Poster Session**
Natcher Conference Center (Bldg. 45), Upper Level Atrium

3:00 – 4:00 PM **NIH Research Festival Concurrent Scientific Sessions**
Natcher Conference Center (Bldg. 45)

4:15 – 5:45 PM **Resources for Trainees and Former Trainee Panel**
Lister Hill Auditorium, (Bldg. 38)

Michael M. Gottesman, MD (Opening Remarks)
Deputy Director for Intramural Research, NIH

Lori M. Conlan, PhD, Director, Offices of Postdoctoral Services and Career Services, Office of Intramural Training & Education
(Presenter and Panel Moderator)

PANEL MEMBERS:

Zain Bengali, PhD
Research Scientist, Intrexon Corporation

Nihal Altan-Bonnet, PhD
Assistant Professor, Rutgers University

Michael B. Cook, PhD
Investigator, Division of Cancer Epidemiology and Genetics,
National Cancer Institute, NIH

Chu-Ling Yu, ScD, MPH
Research Scientist, Oncology/Epidemiology, Mid-Atlantic Permanente
Research Institute, Kaiser Permanente Mid-Atlantic States

6:00 PM **FelCom Networking Event**, Dinner on Your Own**

Wednesday, October 10, 2012: Hyatt Regency Bethesda

8:00 – 9:30 AM **Career Workshop I: Planning for Career Satisfaction and Success**
Sharon L. Milgram, PhD, Director, NIH Office of Intramural Training & Education
Cabinet/Judiciary Rooms

9:30 – 10:30 AM **Travel to NIH Campus**

Wednesday, October 10, 2012: NIH Campus

10:30 – 11:30 AM **Career Workshop II: Networking**
Sharon L. Milgram, PhD, Director, NIH Office of Intramural Training & Education
Lister Hill Auditorium (Bldg. 38)

Lunch on Your Own

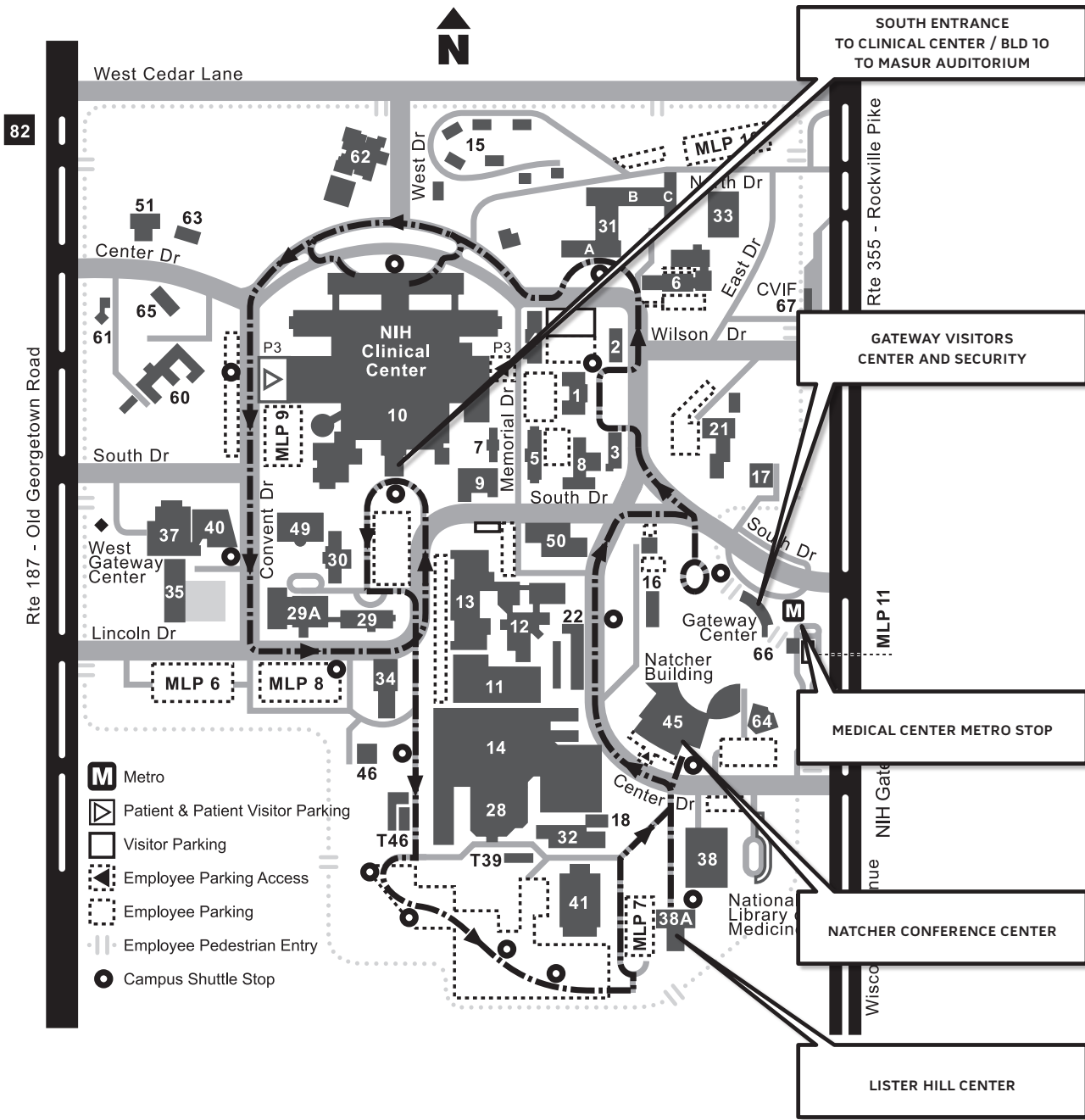
1:00 – 2:00 PM **Career Workshop III: What Next? Succeeding in Your Postdoc Job Hunt**
Jackie A. Lavigne, PhD, MPH, Co-Chair, NGSRC Organizing Committee
Lister Hill Auditorium (Bldg. 38)

Attend NIH Research Festival; Meetings with NIH Scientists

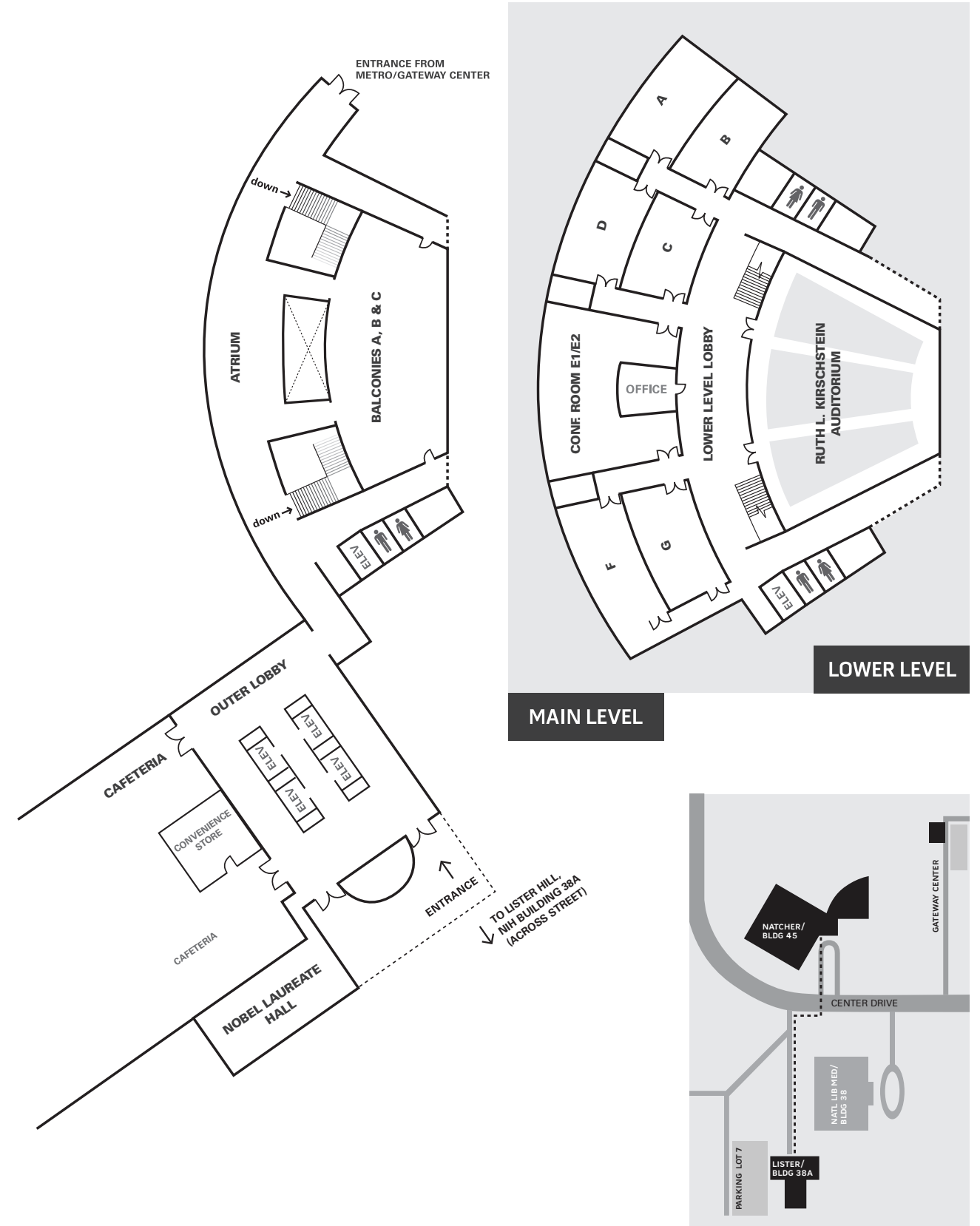
**Reservations will be made for groups of 10 at a selection of Bethesda restaurants. Conference participants can sign up at registration to “dine” at the restaurant that interests them most. Each group will be “hosted” by a current NIH postdoc. Participants will cover the cost of their own dinners.*

***NIH Fellows Committee (Felcom) Networking Event organized by FelCom Social Committee*

NIH CAMPUS MAP



NATCHER CONFERENCE CENTER FLOOR PLAN



NIH INSTITUTES & CENTERS

- The Office of the Director (OD)
- Center for Information Technology (CIT)
- *Center for Scientific Review (CSR)*
- *John E. Fogarty International Center for Advanced Study in the Health Sciences (FIC)*
- National Center for Advancing Translational Sciences (NCATS)
- *National Center for Complementary and Alternative Medicine (NCCAM)*
- National Cancer Institute (NCI)
- National Eye Institute (NEI)
- National Heart, Lung, and Blood Institute (NHLBI)
- National Human Genome Research Institute (NHGRI)
- National Institute on Aging (NIA)
- National Institute on Alcohol Abuse and Alcoholism (NIAAA)
- National Institute of Allergy and Infectious Diseases (NIAID)
- National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)
- National Institute of Biomedical Imaging and Bioengineering (NIBIB)
- *Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD)*
- National Institute on Deafness and Other Communication Disorders (NIDCD)
- National Institute of Dental and Craniofacial Research (NIDCR)
- National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
- National Institute on Drug Abuse (NIDA)
- National Institute of Environmental Health Sciences (NIEHS)
- *National Institute of General Medical Sciences (NIGMS)*
- National Institute of Mental Health (NIMH)
- National Institute on Minority Health and Health Disparities (NIMHD)
- National Institute of Neurological Disorders and Stroke (NINDS)
- National Institute of Nursing Research (NINR)
- National Library of Medicine (NLM)
- NIH Clinical Center (CC)

NOTE: Institutes shown completely in italics do not participate in the Intramural Research Program.

BIOGRAPHICAL SKETCHES

Zain Bengali, PhD

Dr. Bengali is a research scientist at Intrexon. He received his PhD from Northwestern University in 2006 under the supervision of Dr. Lonnie Shea; there he studied tissue engineering and gene therapy. He continued his training as a postdoc at NIAID under Dr. Moss's mentoring from 2007 to 2011. At NIH, he investigated poxvirus entry including those used as vaccine vectors. Zain demonstrated a keen interest in transferring his research to applied science. He developed assays to measure the efficacy of transfection and to quantify virus binding to host cells. He also patented a method of DNA delivery into cells from tissue-engineering scaffolds. Away from the bench, Zain moderated the Industry Group Leader session at the NIH Career Symposium. For his own enrichment, he attended a course on biomedical business development for scientists. Zain mentored several graduate students, and he is an ad-hoc reviewer for *Virology*, *Biotechnology and Bioengineering* and the *Journal of Nanobiotechnology*. In 2011, Zain accepted a Research Scientist position at Intrexon Corporation in Germantown, Maryland. There, he leads therapeutic design for three divisions: human therapeutics, animal health, and cellular engineering. His primary responsibilities have been away from the bench, but he is returning to lead projects in anemia and metabolic disease.

Nihal Altan-Bonnet, PhD

Dr. Altan-Bonnet is an Assistant Professor at Rutgers University. She received her PhD from The Rockefeller University where her thesis work utilized live-cell microscopy techniques to investigate and develop a new model for how multidrug resistance comes about in human cancer cells. Dr. Altan-Bonnet carried out her postdoctoral studies at National Institutes of Health in the laboratory of Dr. Jennifer Lippincott-Schwartz. There she continued to utilize cutting-edge imaging for investigating cellular membrane dynamics during the cell cycle, in particular the fate of secretory pathway organelles. Since setting up her lab in 2006 at Rutgers University, Dr. Altan-Bonnet strives to determine the common mechanisms by which many different viruses generate specialized replication factories, identify their shared properties which facilitate viral RNA replication, and from these pinpoint panviral host molecules to which to target therapeutics in order to combat multiple viral infections. To address these fundamental questions of virus-host dynamics she has implemented a multifaceted approach of applying high-resolution imaging methods and molecular spectroscopy to virus and host components including proteins, lipids, and nucleic acids; initiated and completed high throughput genetic screens for host components required for viral replication; and applied molecular and biochemical analytical tools to probe protein-protein and protein-lipid interactions.

Michael B. Cook, PhD

Dr. Cook has been a Tenure-track Investigator in the Hormonal and Reproductive Epidemiology Branch of the Division of Cancer Epidemiology and Genetics at the National Cancer Institute since July 2011. Prior to this, he was a postdoctoral fellow in the Branch from February 2007, becoming a Research Fellow in early 2009. Dr. Cook attained a PhD in Epidemiology from the University of Leeds, England, after completing a bachelor's degree in Genetics at the University of Nottingham, England. His research interests include the epidemiology of prostate and esophageal malignancies, with a strong emphasis on hormonal exposures and adiposity. In one of his major research projects, he is assessing whether estrogen metabolites are related to aggressive prostate cancer in younger men. In addition, he is the principal investigator of the Ghana Prostate Cancer Study, in which he is assessing environmental and genetic exposures in relation to prostate cancer in Ghanaian men. His esophageal work includes studies to understand the causes of sex differences in esophageal adenocarcinoma incidence by assessing serum hormone levels, childhood and adult measures of adiposity, metabolic syndrome, and gastroesophageal reflux.

Lori M. Conlan, PhD

Dr. Conlan trained as a biochemist, receiving her BS in biochemistry from Michigan State University and her PhD in biochemistry and biophysics from Texas A&M University. She was a postdoc at the Wadsworth Center, New York State Department of Health before transitioning from the lab to focus on career issues for the next generation of scientists. Dr. Conlan served as the Director of the Science Alliance, an international career development program for graduate students and postdocs sponsored by the New York Academy of Sciences. She joined the Office of Intramural Training & Education (OITE) at the NIH in 2008 as Director of the Office of Postdoctoral Services where she assists the 4000 NIH postdocs with their personal career choices. She currently is serving as a board member for the National Postdoctoral Association (NPA). Additionally, Dr. Conlan runs the Career Services Center of the OITE.

Michael M. Gottesman, MD

Dr. Gottesman has been Deputy Director for Intramural Research at NIH since 1993. A graduate of Harvard College and Harvard Medical School, Dr. Gottesman completed an internship and residency at the Peter Bent Brigham Hospital in Boston. He was a research associate at NIH from 1971 to 1974. He returned to Harvard Medical School as an assistant professor before returning to NIH in 1976. Dr. Gottesman became Chief of the Laboratory of Cell Biology in the National Cancer Institute in 1990. From 1992 to 1993, he was Acting Director for the National Center for Human Genome Research, and he was Acting Scientific Director of the NCHGR in 1993. His research interests have ranged from how DNA is replicated in bacteria to how cancer cells elude chemotherapy. He has published extensively on these subjects, with over 400 scientific publications to his credit. He has helped to identify the human gene that causes cancer cells to resist many anticancer drugs. He has shown that this gene encodes a protein that pumps anticancer drugs out of drug-resistant human cancers and has used this information to create gene transfer vectors to circumvent drug resistance in cancer. He has been a member of the Institute of Medicine since 2003 and the American Academy of Arts and Sciences since 2009.

Dr. Gottesman has been actively involved in initiating several training and mentoring programs for high school students and teachers, as well as college, medical, and graduate students. As Deputy Director for Intramural Research at NIH, he has initiated an NIH-wide lecture series and reformulated tenure and review processes in the intramural program. He has also instituted training programs for minority and disadvantaged students, loan repayment programs for clinical researchers at NIH, and a research training program for medical students.

Jackie A. Lavigne, PhD, MPH

Dr. Lavigne received her bachelor's degree from Colby College in Waterville, ME. She then earned a PhD in molecular toxicology and an MPH with a concentration in epidemiology and biostatistics from the Johns Hopkins Bloomberg School of Public Health in Baltimore, MD. She completed her postdoctoral training in the National Cancer Institute (NCI)'s Cancer Prevention Fellowship Program (CPFP), conducting research on the role of insulin-like growth factors in diet-related cancer. Subsequently, she joined NCI's Center for Cancer Research as a Scientific Program Specialist, became Associate Director of CPFP in 2006, and has served as the Chief of the Office of Education in the NCI's Division of Cancer Epidemiology and Genetics since 2008. In this role, she oversees the division's fellowship training program, which was awarded the inaugural Alexander D. Langmuir Award for Training Program Excellence and Innovation by the North American Congress of Epidemiology in 2011. She is experienced in mentoring, coaching, and training junior scientists and received the NCI's Outstanding Mentor Award in 2008.

Sharon L. Milgram, PhD

Dr. Milgram received a BS degree in physical therapy from Temple University in 1984 and a PhD in cell biology from Emory University in 1991. She completed a postdoctoral fellowship at the Johns Hopkins University before joining the faculty at the University of North Carolina at Chapel Hill in 1994. At UNC Dr. Milgram rose to the rank of Full Professor with Tenure in the Department of Cell and Developmental Biology. Her research focuses on cell signaling and protein trafficking in polarized cells; it has been published in journals including *Journal of Cell Biology*, *Journal of Clinical Investigation*, the *Proceedings of the National Academy of Sciences*, and the *Journal of Biological Chemistry*. Her research was supported by grants from the NIH, the Cystic Fibrosis Foundation and the American Heart Association. Dr. Milgram held a number of administrative positions at UNC including Associate Director of the Medical Scientist Training Program (MSTP), Director of the Interdisciplinary Biomedical Sciences Graduate Program, and Director of the Summer Undergraduate Research Experience. She founded and advised the UNC Office of Postdoctoral Services and served on the advisory committee of the Sigma Xi National Postdoctoral Survey. Dr. Milgram served as principle investigator on a number of nationally-funded training grants including an NSF-funded program for undergraduate students, and NIH grants to support predoctoral students in Cell and Molecular Biology as well as an Initiative to Maximize Student Diversity grant spanning the Schools of Medicine and Public Health at UNC. In 2007 Dr. Milgram joined the NIH Office of the Director as the Director of the Office of Intramural Training & Education.

Chu-Ling Yu, ScD, MPH

Dr. Yu is a Research Scientist in Oncology/Epidemiology at the Mid-Atlantic Permanente Research Institute, Kaiser Permanente Mid-Atlantic States. From 2007 to 2011, she was a Research Fellow in the Division of Cancer Epidemiology and Genetics of the National Cancer Institute, where she studied radiotherapy-related comorbidities in long-term childhood cancer survivors. Dr. Yu received her BS in Agricultural Chemistry from National Taiwan University, her MPH from Yale University, and her ScD in Environmental Health with an emphasis on Environmental Epidemiology from Harvard University School of Public Health.

POSTER SESSION OVERVIEW

Poster Session 1:

- Cancer
- Genetics/Genomics
- HIV/AIDS
- Immunology
- Microbiology and Viruses
- Proteomics
- Regulation of Gene Expression
- Signaling

Poster Session 2:

- Biomedical Engineering/Imaging
- Biophysics
- Chemistry
- Complementary/Alternative Medicine
- Epidemiology/Biostatistics
- Membranes
- Mitosis/Chromosomes/Cell Cycle
- Modeling/Computational Biology/Informatics
- Molecular Techniques
- Neurobiology – Cognition and Behavior
- Neurobiology – Electrophysiology
- Neurobiology – Receptors, Channels, Transporters
- Neurological Diseases
- Physiology
- Protein Structure/Function
- Regenerative Medicine/Tissue Engineering
- Social/Behavioral Science
- Stem Cells
- Structural Biology
- Toxicology/Environmental Health

NOTE: Shaded text indicates Conference invitees who were, at the last minute, unable to attend.

POSTER SESSION 1

TUESDAY, OCTOBER 9, 2012

12:00 – 1:00 PM

CANCER

- 1.1 **Kathleen DelGiorno**, Tumor-associated Pancreatic Metaplasia Assumes a Biliary Duct Gland Phenotype
- 1.2 **Jennifer Emond**, Changes in Carbohydrate Intake and Breast Cancer Recurrence: A Focus on Starch and IGF-1R Expression
- 1.3 **Colins Eno**, Distinct Roles of Mitochondria- and ER-localized Bcl-xL in Apoptosis Resistance and Ca²⁺ Homeostasis
- 1.4 **Devikala Gurusamy**, Myeloid-specific Ron Receptor Expression Promotes Tumor Growth in a Murine Model of Prostate Cancer
- 1.5 **Jeong Yeon Kang**, Cardioprotective and Antitumor Effects of Novel Selenium-based Compounds Encapsulated in Liposomes
- 1.6 **Shelby Kenney**, Selective Inhibition of Rac1 and Cdc42 in Ovarian Cancer Using the R-enantiomer of Ketorolac
- 1.7 **Lela Lackey**, APOBEC3B is Nuclear and Capable of Genomic DNA Deamination
- 1.8 **Megha Rajaram**, Functional Genomic Identification of Multiple Targets for Inhibiting Tumor-promoting Fibroblasts
- 1.9 **Divya Sahu**, Secreted Heat Shock Protein-90 alpha in Wound Healing and Cancer
- 1.10 **Jeffrey Schmidt**, PI3-kinase/Akt1 Regulation by Stat5: Linking Mammary Gland Development to Cancer
- 1.11 **Avinash Srivatsan**, Development of Theranostic Agents for Tumor Imaging and Photodynamic Therapy (PDT)
- 1.12 **Molly Taylor**, TGF-beta-mediated Upregulation of miR-181a Promotes Breast Cancer Metastasis
- 1.13 **Laura Tollini**, Mdm2 Mediated Degradation Is Not Required for p53 Regulation under Unstressed Conditions in vivo
- 1.14 **Mark Zimmerman**, Targeted Deletion of Mouse Ptp4a3 (PRL-3) Impairs Endothelial Cell Motility and VEGF Signaling
- 1.15 **Mary Zimmerman**, Unphosphorylated STAT1 Suppresses Apoptosis to Promote Sarcoma Development

GENETICS/GENOMICS

- 1.16 **Tyler Beck**, FREM1 Deficiency Causes Congenital Diaphragmatic Hernia in Humans and Mice
- 1.17 **Jeehae Han**, A Functional Genomics Approach to Elucidate the Role of Genome Maintenance in Human Longevity
- 1.18 **William Lai**, The Role of Chromatin in Regulating Genomic Functional Elements
- 1.19 **Bo Li**, Neural Tube Defects in Vacuolated Lens (vl) are Regulated by Cdx1 and Retinoic Acid (RA) Signaling
- 1.20 **Allyson Merrell**, Whole or Hole? Development of a Functional Diaphragm Muscle
- 1.21 **Jenna Oberstaller**, Applied Genomics: Species-specific Malaria Diagnostic Targets More Sensitive than the Molecular Gold Standard
- 1.22 **Vinay Patil**, Cardiolipin Is Required for Mitochondrial Iron-sulfur Cluster (Fe-S) Biogenesis
- 1.23 **Melvys Valledor**, Human Stem Cell Recombineering
- 1.24 **Dan Webster**, ANCR and BANCR: Discovery of lncRNAs Mediating Epidermal Differentiation and Melanoma Migration
- 1.25 **Marsha Wheeler**, Transcriptomic Profiling of the Medial Neurosecretory Cells of the Honey Bee Brain

HIV/AIDS

- 1.26 **Nirjal Bhattarai**, Mechanisms by which GB Virus C Modulates T Cell Activation in HIV-infected Subjects
- 1.27 **Eric Refsland**, Defining the HIV-restrictive APOBEC3 Repertoire in CD4+ T Cells with Gene Targeting and Knockdown

IMMUNOLOGY

- 1.28 **Timothy Break**, The Impact of Extracellular Superoxide Dismutase on Immune Cell Function and *Listeria monocytogenes* Infection
- 1.29 **Kwan Chow**, MK5, a MAPK-activated Protein Kinase, Regulates Foxo1-mediated Activation of Rag Transcription
- 1.30 **Fatema Chowdhury**, Role of IL-12 Induced MAP3K8 in Effector Function of CD8+ T Lymphocytes
- 1.31 **Xiaolin Hu**, Function of the Fas Receptor in Apoptosis and Cancer Immune Surveillance
- 1.32 **Sema Kurtulus**, Bcl-2 Allows Effector and Memory CD8+ T Cells to Tolerate Higher Expression of Bim

- 1.33 **Chihwen Ouyang**, The Role of LAT in Granule-mediated Cytotoxicity and Immunological Memory Response of CD8 T cells
- 1.34 **Duy Pham**, Twist1 Impairs Inflammatory Cytokine Production in T Helper 17 Cells
- 1.35 **Han-Yu Shih**, T cell Receptor alpha Gene Recombination Is Supported by a Tcra Enhancer- and CTCF-dependent Chromatin Hub
- 1.36 **Margaret Walker**, Meningeal Mast Cells: Modulators of Effector T cell Function in a Murine Model of Multiple Sclerosis
- 1.37 **Kayla Weiss**, Differential Disease Severity and Immune Responses following Infection with Various Strains of RSV
- 1.38 **Britta Wood**, Investigating CD4+ T-cell Maintenance in Cats Co-infected with Feline Immunodeficiency Virus

MICROBIOLOGY AND VIRUSES

- 1.39 **Chelsea Boyd**, Environmental Signals Converge on LapG, a Cysteine Protease, to Regulate LapA at the Cell Surface
- 1.40 **Sara Cassidy**, Membrane Damage By Pore-forming Toxins Triggers a Caspase-7 Dependent Cytoprotective Response
- 1.41 **Kari Debbink**, GII.4 Norovirus Epitope Mapping and Vaccine Design
- 1.42 **Geoffrey Gonzalez**, Transcriptomics and Proteomics Unveil Inhibitors of Salmonella Biofilm Formation on Cholesterol Gallstones
- 1.43 **Kelly Miller**, Characterization of Type Three Secretion System-positive *V. cholerae* Induced Mammalian Cell Death
- 1.44 **Lauren Neighbours**, Myd88-dependent TLR7 Signaling is Required for Protection from Severe Ross River Virus-induced Disease
- 1.45 **Dionne Robinson**, Sex Steroid Hormones Modulate Influenza Pathogenesis in Female C57BL/6 Mice
- 1.46 **Jonathan Snyder**, Functional Characterization of the Alphavirus TF Protein

PROTEOMICS

- 1.47 **Robyn Kaake**, Mapping the Human Interactome: Defining Protein-protein Interactions by Crosslinking Mass Spectrometry
- 1.48 **Carlos Morales Betanzos**, Analysis of the Phosphorylation Sites of ShcC and their Implication in Neuroblastoma Tumorigenicity

1.49 **Duc Tran**, Development of Mass Spectrometry-based Platforms for Thermodynamic Analysis of Protein Interaction Networks

1.50 **Michael Zorniak**, Membrane Proteomics of Human Glioblastoma Stem-like Cancer Cells

REGULATION OF GENE EXPRESSION

1.51 **Manasi Mayekar**, Investigating the Mechanism of Recruitment of Paf1 Complex to RNA Polymerase II-transcribed Genes

1.52 **Angene Milton**, The *C. elegans* T-box Gene, *tbx-2*, Is Regulated by NF-Y and by TBX-2 Autoregulation

1.53 **Diana Monsivais**, ER β Regulates Genes with Kinase and GTPase Functions and Enhances Cell Survival in Endometriosis

1.54 **Yocheved Schindler**, Hand2 Plays an Instructive Role In Directing Cardiomyocyte Formation

1.55 **Erica Schoeller**, Insulin and Leptin Rescue Male Fertility in Type 1 Diabetic Mice

1.56 **Beth Zucconi**, Sequence Requirements for Functionally Significant AUF1-RNA Association

SIGNALING

1.57 **Subhasree Basu**, Inactivation of JNK Signals Organelle Free Zone Formation in the Lens through an Autophagic Process

1.58 **Natalie Kofler**, Notch Signaling in Pericytes Regulates Endothelial Cell Function in Angiogenesis

1.59 **Priya Londhe**, Interferon Gamma Modulates Myogenesis and Resets Cell Fate through the Class II Transactivator, CIITA

1.60 **Cara Marie Manlandro**, High-throughput Identification of Interaction Hotspots In Signaling Hub Proteins

POSTER SESSION 2

TUESDAY, OCTOBER 9, 2012

1:00 – 2:00 PM

BIOMEDICAL ENGINEERING/IMAGING

2.1 **Juanjuan Du**, Single Enzyme Nanocapsules for Pharmaceutical, Analytical, and Catalytic Applications

2.2 **Nathalie Pinkerton**, Lung Targeting Microgel Particles with Embedded Nanoparticles for the Treatment of Non-small Cell Lung Cancer

2.3 **Aniruddha Ray**, Fluorescent and Photoacoustic Nanoprobes towards Structural and Functional Imaging in vivo

BIOPHYSICS

2.4 **Radames Cordero**, Structure and Dynamics of the *Cryptococcus neoformans* Polysaccharide Capsule

2.5 **Li-Chun Tu**, Efficient Transport of Large Cargos Requires Multiple Transport Receptors

2.6 **Catherine Volle**, The Trouble with Triples: Elucidating the Behavior of Trinucleotide Repeats in Chromatin

CHEMISTRY

2.7 **Na An**, Single-molecule Studies of Human Telomeric G Quadruplexes and the Effect of Oxidative Damage

2.8 **Katherine Belecki**, Investigation into the Early Steps of Calicheamicin Biosynthesis

COMPLEMENTARY/ALTERNATIVE MEDICINE

2.9 **Jennifer Ahn-Jarvis**, A Phase II Evaluation of Isoflavone Bioavailability after Consumption of Soy Breads in Men with Prostate Cancer

EPIDEMIOLOGY/BIostatISTICS

2.10 **Qu Tian**, Free-Living Physical Activity is Associated with Brain Regions important for Memory in Older Adults

2.11 **Kristen Upson**, Endocrine Disrupting Chemicals and Endometriosis Risk in Reproductive Age Women

2.12 **Zheyu Wang**, Accessing Diagnostic Accuracy with Ordinal Disease Statuses in the Absence of a Gold Standard

MEMBRANES

2.13 **Narjes Tavoosi**, Protein-Phospholipid Interactions in Blood Coagulation

MITOSIS/CHROMOSOMES/CELL CYCLE

- 2.14 **Ryan Janke**, Homologous Recombination Proteins Rad55-Rad57 Interact with Ptc3 Phosphatase.
- 2.15 **Lymor Ringer**, A Novel Cyclin-dependent Kinase Inhibitor, VMY-1-103, Causes p53-mediated Apoptosis in Prostate Cancer Cells

MODELING/COMPUTATIONAL BIOLOGY/INFORMATICS

- 2.16 **Andrew Magis**, RNA Editing and MicroRNA Regulation in the U87MG Glioblastoma Cell Line

MOLECULAR TECHNIQUES

- 2.17 **Kendra Williams**, ERK1 Phosphorylates Histone Deacetylase 6 at Serine1035 in its C-Terminal Region

NEUROBIOLOGY – COGNITION AND BEHAVIOR

- 2.18 **Elise Cope**, Zinc and Traumatic Brain Injury: Effects on Neurogenesis and Behavioral Outcomes
- 2.19 **Iain DeWitt**, Parametric Response to Phonotactic Regularity in Auditory Word-form Recognition
- 2.20 **Angel Yuet Fong Kam**, Regulation of AMPA Receptor Trafficking by Morphine and its Role in Opiate Addiction
- 2.21 **Prescott Leach**, Thyroid Receptor β Is Critically Involved in the Effects of Nicotine on Hippocampus-dependent Memory
- 2.22 **Sharee Light**, The Cognitive and Facial Electromyographic Correlates of Empathy
- 2.23 **Ashley Martin**, High-energy Diets Produce Hippocampal Inflammation and Hippocampal-dependent Cognitive Impairments
- 2.24 **Monika Mellem**, Gamma- and Theta-band Synchronization Reflect Local and Long-range Lexical-semantic Networks
- 2.25 **Adam Smith**, Social Buffering Requires Oxytocin Action in the Hypothalamic Paraventricular Nucleus in Female Prairie Voles
- 2.26 **Vanessa Troiani**, Processing of Objects Prior to Awareness in Adolescents

NEUROBIOLOGY – ELECTROPHYSIOLOGY

- 2.27 **Shana Augustin**, Cyclic AMP Levels in MSN in the D2 Pathway Play a Key Role in the Directionality of Corticostriatal Plasticity
- 2.28 **Jessica Chancey**, GABAergic Depolarization Promotes Excitatory Synaptogenesis on Adult-generated Neurons
- 2.29 **Maria Costello**, Neural Correlates of Random and Informed Saccadic Choices in the Macaque Frontal Eye Fields and Central Thalamus

- 2.30 **Brandon Martin**, Defective Tonic GABAergic Transmission and E/I Balance in the Amygdala in Fragile-X Syndrome

- 2.31 **Justin Trotter**, Disabled-1 is a Critical Regulator of Adult Synaptic Plasticity and Cognitive Function

NEUROBIOLOGY – RECEPTORS, CHANNELS, TRANSPORTERS

- 2.32 **Kari Johnson**, Positive Allosteric Modulators of Metabotropic Glutamate Receptor 5 Modulate Akt and GSK-3 β Signaling in vivo
- 2.33 **Kevin Ogden**, Mechanism and Sites of Action of NMDA Receptor Positive Allosteric Modulators
- 2.34 **Lauren Orefice**, Somatically and Dendritically Translated BDNF Regulate Spine Morphogenesis via Distinct Pathways
- 2.35 **Nathan Smith**, Calcium Independent Astrocytic Lipid Release

NEUROLOGICAL DISEASES

- 2.36 **Simantini Ghosh**, Sustained IL-1 β Overexpression Regulates Amyloid and Tau Pathology Differentially in 3xTgAD Mice
- 2.37 **Mallory Hacker**, A Caspase Cascade Regulates Degeneration of GABA Neurons in a Model of Coenzyme Q Deficiency
- 2.38 **Esther Kim**, Persistent Molecular and Metabolic Effects of High Glucose in Schwann Cells
- 2.39 **John McMahon**, Impaired Autophagy as a Mechanism of Epileptogenesis
- 2.40 **Haiyan Peng**, The Immunoregulatory and Neuroprotective Effect of Dimethyl Fumarate in Multiple Sclerosis
- 2.41 **Dustin Shilling**, Decreasing InsP3R1 Expression Attenuates Exaggerated [Ca²⁺]_i Release and AD Phenotypes of 3xTg Mice

PHYSIOLOGY

- 2.42 **Jill Bennett**, The Roles of GATA-4 and GATA-6 in Folliculogenesis, Fertility, Ovulation, and Gene Regulation
- 2.43 **Surabhi Bhutani**, Alternate Day Fasting Combined with Exercise: An Effective Treatment for Weight Loss and Cardio-protection
- 2.44 **Paulo Caceres**, Role of the SNARE Proteins VAMP2 and VAMP3 in Regulation of Trafficking of the Renal Cotransporter NKCC2
- 2.45 **Randy Crossland**, Cerebrovascular Consequences of Obstructive Sleep Apnea: Insights from a Novel Rat Model
- 2.46 **Megan Greenwald-Yarnell**, Estrogen action on Arc KNDy Neurons Is Required for Normal Feedback and Controls the Onset of Puberty

- 2.47 **Teresa Ramirez**, Structural Correlates of PPAR Agonist Rescue of Experimental Chronic Alcohol Induced Steatohepatitis

PROTEIN STRUCTURE/FUNCTION

- 2.48 **Athit Kao**, Mapping the Topology of the 19S Proteasome Using Cross-linking Mass Spectrometry and Modeling
- 2.49 **Tatiana Kazdoba**, Examination of the Role of Pten in Ionotropic Glutamate Receptor Expression
- 2.50 **Michelle McClure**, S-Palmitoylation Regulates Trafficking of CFTR from the Endoplasmic Reticulum to the Cell Surface

REGENERATIVE MEDICINE/TISSUE ENGINEERING

- 2.51 **Karen Ring**, Direct Reprogramming of Mouse and Human Fibroblasts into Multipotent Neural Stem Cells with a Single Factor
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