Greetings

It has been just over a year since I joined Winthrop University Hospital, now NYU Winthrop Hospital. The research enterprise at NYU Winthrop is thriving.

We now have two regular seminar series. Biomedical Seminars take place the third Wednesday of each month; invited speakers present their latest basic and clinical research. The second series involves research-in-progress and journal club. This occurs on every Friday except for the week when there is Biomedical Seminar. In this series, fellows present their own research and select a recently published paper for discussion. In addition, we have ad hoc grant review meetings to assist in the development and submission of new grants.

We added one new full-time faculty and one adjunct faculty. We also hired several additional team members, including 3 Research Associates, 3 Technicians and 1 Administrative Assistant. These individuals are expected to play key roles in the future success of research and other activities. Some of our colleagues have left for better future prospects and we wish them well.

The last year has seen the biggest influx of NIH grants at NYU Winthrop. Dr. Jacobson received $6 million dollar grants from the NIH related to his studies with DCCT/EDIC that have been going on for about 45 years. These studies relate to treatment of diabetes by informing participants about regularly checking their blood glucose levels. The current grants are to study cognitive changes in type 1 diabetes subjects. Our group received new $1.7 million funding from the NIH to carry out studies about the effects of microRNA-30c deficiency on lipid metabolism. Dr. Pan got R56 grant to continue her circadian studies. The research at the center is also supported by other agencies such as American Heart Association.

We are all aware that this year brought significant changes to NYU Winthrop. Most important event was the affiliation with NYU Langone. With this, we have established a very active collaboration with Dr. Ira J. Goldberg, Chief of the NYU Langone Division of Endocrinology, Diabetes and Metabolism. This involves online sharing of seminars and several formal and informal meetings, retreats etc. Similar collaborations are being established with the NYU Obesity Center. Towards this goal, an Obesity Retreat was held at NYU Winthrop where several investigators led by Dr. Brian Elbel from NYU Langone took part. We anticipate that these activities will enhance collaborative research between NYU Langone and NYU Winthrop. We anticipate that 2018 will be as exciting and we are looking forward to a phenomenal growth at NYU Winthrop.

Mahmood Hussain, Ph.D., Director
**Nazeeh Hanna, MD**
President: American Society for Reproductive Immunology
J. Christian Herr Award for excellence in reproductive immunology research presented by the American Society for Reproductive Immunology, Chicago IL, September 2017
Chair Program Committee, the International American Society of Reproductive Immunology annual meeting, Chicago, IL, September 2017

**Mahmood Hussain, Ph.D.**
Chair, FASEB 2017 on “Molecular, physiological and therapeutic studies of intestinal lipid transport metabolism”, Snowmass, CO

**Xiaoyue Pan, Ph.D.**
“Global and liver-specific Bmal1 appears to regulate intestinal lipid absorption.”
http://professional.heart.org/professional/EducationMeetings/MeetingsLiveCME/ATVBPVD/UCM_316942_Science-News-ATVBPVD.jsp

**Lou Ragolia, Ph.D.**
U.S. Patent #9797903 Awarded on 10/24/17 “Non-invasive biomarker to identify subject at risk of preterm delivery”. Methods for diagnosis to allow prediction of the likelihood of preterm birth based upon the concentration of lipocalin-type prostaglandin D2 synthase (L-PGDS) in cervical vaginal secretions. In addition, specific prostaglandin D2 receptor antagonists may represent novel tocolytic therapeutics.

**Allison Reiss, MD**
Chair, Eastern Section, American Federation for Medical Research (AFMR). See link: http://www.afmr.org/Eastern/
Alzheimer’s Disease Resource

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**Grants**

**Mahmood Hussain, Ph.D.**
NIH NIDDK R56 DK046900-18; Molecular mechanisms of chylomicron assembly; Annual Direct cost: $93,096; Project Period: April 01, 2015 – March 31, 2018; Total award: $121,086 (transferred from SUNY Downstate)
VA Merit BX001728-01A1; Regulation of plasma lipids and atherosclerosis by miR-30c; Annual Direct Cost: $187,500; Duration/Total Award: July 01, 2013 – Mar 31, 2017/$806,000; (administered through Brooklyn VA)
NIH NIDDK R13 DK113773-01; FASEB SRC on molecular, physiological and therapeutic studies of intestinal lipid transport and metabolism; Annual Direct cost: $13,000; Project Period: July 01, 2017 – June 30, 2018; (administered through FASEB)
NIH NHLBI 1RO1 HL 137202-01A1; Effect of miR-30c deficiency on plasma cholesterol and atherosclerosis; Annual Direct cost: $250,000; Project Period: June 01, 2017 – March 31, 2021; Total award: $1,536,000 (new grant administered though NYU Winthrop)

**Alan M. Jacobson, MD**
NIH NIDDK DP3DK114821-01; Effects of biomedical risk factors on neuro-cognition using MRI; Long term follow-up of the diabetes control and complications trial/epidemiology of diabetes interventions and complications study cohort; $3,824,120; 7/5/2017 – 3/31/2022;
NIH NIDDK 2U01DK094176-06; Director, Cognitive Reading Center; Epidemiology of diabetes interventions and complications (EDIC); Annual Direct Costs: $265,029; Duration: 2017 – 2022; Total award: $2,035,410

**Xiaoyue Pan, Ph.D.**
American Heart Association, Grant-in-Aid 16GRNT30960027; Role of macrophage Bmal1 in cholesterol efflux and atherosclerosis. Annual Direct Costs: $77,000; Duration/Total Award: July 01, 2016 – June 30, 2018/$154,000;
NIH NHLBI R56HL 137912-01, Circadian regulation of atherosclerosis;
**Morgan Peltier, Ph.D.**

NIH NIEHS RO1ES023116; Flame retardants and adverse pregnancy outcomes (FRAPO); Annual Direct Cost: $500,000; Duration/Total Award: Oct 01, 2013 – May 31, 2018/$2,418,024; Project Period: 10/01/2013 – 05/31/2018; Co-PIs: Morgan R. Peltier/Darios Gatahun (Kaiser-Permenante, Southern California); Total award: $720,559.

**Lou Ragolia, Ph.D.**

American Heart Association Grant-in-Aid #15GRNT22420001; “The effects of sleeve gastrectomy on cardiovascular disease associated with diabetes and obesity”; Amount $66,000 per year; 01/01/2015 – 12/31/2017; Total award: $198,000.

**Allison Reiss, MD**

American Heart Association Grant-in-Aid #16GRNT26430041; 2016/01/01-2018/12/31; Methotrexate and cholesterol transport regulation: Impact of treatment regimen in diabetes and metabolic syndrome; $66,000/yr; Total award: $198,000.

#17POST33670787 American Heart Association Association-wide Research Program (AWRP) Post-doctoral Fellowship; PI: Matthew Barberio; 2017/07-2019/06; Role: Co - mentor (with Dr. Robert Freishtat at Children’s National Medical Center); “Obese adipocyte derived exosomes impair cholesterol efflux”; $10,000 per year

**Caterina Tiozzo, MD**

2017 Braverman Reproductive Immunology Research Grant, American Society for Reproductive Biology; miR-519c, a novel player in the endotoxin tolerance game; $15,000

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**Publications**

**John Aloia, MD**


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**Nazeeh Hanna, MD**


Ferrara, L., Kamity, R., Islam, S., Sher, I., Barlev, D., Redstone, F., and Hanna, N. Short-Term Effects of Cold Liquids on the Pharyngeal Swallow in Preterm Infants with Dysphagia: A Pilot Study. Dysphagia, journal ID # DYS-P-D-17-00175, accepted for publication with minor revisions, October 2017)

**Mahmood Hussain, Ph.D.**


Xiaoyue Pan, Ph.D.

Sussman, W. and Pan, X “Regulation of Plasma Glucose by Circadian Clock” Book title: Circadian Clock: Regulations, Genetic and External Factors”; Nova Science Publishers

Lou Ragolia, Ph.D.

Kumar, S.; Palia, T; Hall, CE; and Ragolia, L “DP1 receptor agonist, BW245C inhibits diet-induced obesity in ApoE/-mice” Accepted 2017 Jun 8. Obes Res Clin Pract. S1871-403X(17)30046-7; PMID:28602634


Allison Reiss, MD


Biomedical Seminars


Feb 22, 2017: Aaron Neiman, PhD – Stony Brook University; “What can yeast tell us about neurodegenerative disease?”

March 29, 2017: Gary Schwartz, PhD – Albert Einstein School of Medicine; “Brain control of fat metabolism: Bidirectional crosstalk between adipose tissue and the brain.”

April 26, 2017: Andrew Patterson, PhD – University of Toronto; “The role of genetic factors in diabetic kidney disease.”

May 31, 2017: Edward Fisher, PhD – NYU; “Macrophages in many guises in atherosclerosis”

June 9, 2017: Surendra Sharma, PhD – Hospital of Rhode Island; “Exhausted immune programming of gestational diabetes mellitus”

June 21, 2017: Yanqiao Zhang, MD – Northeast Ohio Medical University; “Transcriptional regulation of lipid and lipoprotein metabolism”


Oct 18, 2017: David Hui, PhD – University of Cincinnati College of Medicine;

“Tissue-specific roles of LRPI in cardiac metabolic disease modulation”

Nov 8, 2017: Mohamed Boutjdir, PhD – SUNY Downstate; “Pathogenesis of novel autoimmune cardiac channelopathies”

Nov 15, 2017: Fajun Yang, PhD – Albert Einstein School of Medicine; “Context-dependent role of cyclin C in lipid metabolism”

Nov 29, 2017: Gary Lewis, PhD: University Health Network Toronto; “Lipid sensing in the pancreatic alpha cell”

Dec 6, 2017: William Holland, PhD – UT Southwestern Medical Center; “Lipid sensing in the pancreatic alpha cell”

Dec 8th, 2017: Antonio Convit, PhD – NYU School of Medicine; “How does obesity-associated metabolic disease affect the brain”

Dec 13, 2017: Mark Brown, PhD – Cleveland Clinic; “Drugging the Gut Microbial Endocrine Organ for Treatment of Cardiometabolic Disorders”

Up Coming Seminars 2018

January 10, 2018: Brahim Chaqour, PhD – SUNY Downstate

January 12, 2018: Melanie Juba & Ladi Akinwumi – LCMS Instrumentation

January 24, 2018: Daniel Ory, MD – Washington University

February 14, 2018: Andisheh Abedini, PhD – NYU School of Medicine

February 21, 2018: Anthony Vella, PhD – UCONN Health

March 14, 2018: Kiran Musunuru, PhD – Harvard Stem Cell Institute

April 4, 2018: Dennis Black, MD – University of Tennessee Health Science Center

April 27, 2018: Ann Marie Schmidt, MD – NYU School of Medicine

May 23, 2018: Andre Marette, PhD – Montreal Diabetes Research Center

June 20, 2018: Rebecca Haeusler, PhD – Columbia University Department of Pathology and Cell Biology