



BILLIAR LAB NEWS

UNIVERSITY OF PITTSBURGH - SPRING 2017 - VOLUME 28

Important Dates:

Simmons Research Tuesday 8:00am & Thursday 8:30am F1275 PUH

April 4th- Christine Leeper
 April 11th- Anthony Lewis
 April 13th- Eileen Bauer "Pulmonary Hypertension and the Immune System"
 April 18th- Jennifer Miller-Ocuin
 April 25th- Sara Berkey

Billiar Lab Meeting Wednesday 12-1pm F1275 PUH

April 12th- Zhao Lei
 April 26th- Shuqing Jin

New Faces:

Please welcome the following new people into our labs!

Jinghua Ren - Visiting Scholar – Tsung Lab

Good Luck:

We'd like to extend our best wishes and good luck in future endeavors to those individuals who have left or are soon leaving the labs.

Li Xu
 Lingyan Zhu

UNIVERSITY OF PITTSBURGH TRAVEL POLICY

The PantherExpress Travel & Expense Management Program is designed to provide service and savings for University travelers. The program comprises a suite of products and services aimed at delivering exceptional travel-related services, streamlining the expense reporting process, and reducing travel costs. Products and services include Concur, Anthony Travel, and the University Travel Card.

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ROSENGART BLUE LIGHT SPECIAL

Featured on the homepage of Pitt Med, Dr. Rosengart explains how he has found a way to “quiet the immune system” using blue light. Rosengart and colleagues showed that mice exposed to 24 hours of blue light prior to surgery (surgery is considered a “sterile injury”) showed fewer signs of damaging inflammation and necrosis afterward. What's more, the benefits disappeared in mice with optic-nerve degeneration, showing that eyes are more than gateways to the soul—they're portals we can use to manipulate our own biology.

Read the full article here!

<http://www.pittmed.health.pitt.edu/story/blue-light-special>

LAB MOVE

Due to the loss of our leased lab space from pulmonary effective June 30, 2017, the lab must repurpose space to accommodate the displaced personnel and equipment.

Kathy can now be found in her new office, NW 642.

NW611 MUH will be the future lab of Drs. Neal and Zuckerbraun.

NW609 MUH will be the future lab of Dr. Rosengart.

Dr. Qingde and his lab relocate to the BST Lab W901 and Dr. Wang's office will be W943 BST.

WESTERN BLOT

(front page)

Sladjana Stratimirovic
Zuckerbraun Lab

Western blot analysis of MAVS (Mitochondrial Antiviral Signaling Protein) expression in cell lysate harvested from experiment primary hepatocytes + different time point in hypoxia condition (1,3,6,12,24 hours) .
MAVS increased with longer time point hypoxia condition in hypoxia chamber.

STAFF HIGHLIGHT

My name is Ashley Hurey, I am 22 years old and I was born and raised in Pittsburgh, PA. I recently graduated last May of 2016 from West Virginia Wesleyan College where I got my undergraduate B.S. degree in Biochemistry with minors in both Biology and Human Biology. I was a four year student athlete as the starting third baseman for the Wesleyan Bobcats while our team made three appearances in the Sweet 16 Division II National Championships. Along with that, I was a member of Alpha Xi Delta's Beta Sigma Chapter on campus where I held multiple positions on their executive board. Coming out of college and jumping into such an integral job and work setting at the University of Pittsburgh's Surgical Research Department has not only helped me gain experience, but also my confidence. Now, my past experiences ensure me that I will be a valued asset to any medical, research or developmental team. Eventually I would like the ability to further my education, but until then I feel extremely confident in how far I've come in understanding the crucial aspects of this quickly advancing field. I have always desired a job in the medical industrial and believe I am on the right path to my long and dedicated career of helping others and making a difference in research and the lives of others.



JOVE PUBLICATION

Dr. Matthew Neal's laboratory abstract was accepted into JOVE (Journal of Visualized Experiments). The article "Uncontrolled Hemorrhagic Shock Modeled Via Liver Laceration in Mice with Real Time Hemodynamic Monitoring," can be found on www.jove.com. Lab members Mitchell Dyer, Shannon Haldeman, Andres Gutierrez, and Lauryn Kohut worked in collaboration with Anirban Sen Gupta to develop a murine model of controlled hemorrhage via liver laceration that results in a consistent blood loss, hemodynamic alterations, and survival. Stay tuned for the video that coincides with the article!

BILLIAR LAB MOUSE TRANSFERS

As of March 22, 2017 all mouse transfer requests involving protocol changes must be done in CAMS and is initiated by the requesting PI/lab. Therefore, in order to access CAMS the animal user must be on an approved IACUC protocol.

As of March 23, 2017, DO NOT submit your transfer requests via the General Surgery and Vascular Lab website. Instead submit your protocol to protocol mouse transfers in CAMS.

The detailed CAMS process and more information including training can be found on the website www.dlar.pitt.edu.

COLONY STATUS: As of March 7, 2017

Established Colonies: Knockouts, Transgenic, and Double Knockouts

Caspase 1 KO/Caspase 11 KO	RAGE KO	TLR-9 KO
Caspase 11 KO	Sting tg	CGAS KO
IL33 KO	ST2 KO (B6)	TSLPR KO
Myd88 KO	TLR4KO/Caspase 11 KO	TLR-4 KO
Myd88 WT	TLR4ko/Rage KO	Gasdermin D KO
Nalp 3 KO	TLR9cpg1	

Established Colonies: Cell Specific Knockouts and Controls

HC HMGB1 KO	ROSA/TLR-4 flox	MRP8 cre HMGB1 KO
HC TACE KO	iHMGB1 KO	TLR4 flox
HC TACE WT	Lyz cre HMGB1 KO	TLR-9 flox
HC TLR4 KO	Lyz cre TLR4 KO	Pf4 cre HMGB1 KO
HMGB1 flox	Lyz cre TLR9 KO	Pf4 cre TLR4 KO
ROSA mt/mg	ROSA Pf4cre HMGB1 KO Reporter	DC TLR-9 KO
ROSA/TLR-9 flox	TACE flox	
Caspase 11 flox	HC Caspase 11 KO	

Colonies in Development

IL-25KO	TSLPR KO/ ST2 KO/IL25 KO
TLR-4KO/Caspase 11 KO/C3 KO	TLR-9 flox x CD19 cre
ST2 KO (rec'd 3/2/16-HBF needs backcrossed to Bl/6 N6; SPF set up 3/15/16)	B-cell TLR-9 KO
TSLPR KO/ ST2 KO	

Cryopreserved Stains *at Jackson Labs unless otherwise noted

AIM2 KO	HMGB1 +/-	TLR-4 flox (Hackam)
CD36 KO	IFNabR KO	TLR-9 CP (eggs, in house)
EGR1 KO	Ja281 -/-	
eNos tg	TLR2 KO	

Stud Colonies

HMG1 flox x Albumin Cre	Caspase 11 flox x Alb cre	TLR-9 flox X CD11c
HMGB1 flox x ER cre	TLR4 KO x Albumin Cre	
HMGB1 flox X Lyz cre	TLR 4 KO X Lyz Cre	
HMGB1 flox x Pf4 cre	TLR 9 flox X Lyz Cre	

Strains Available from Collaborators

GDF-15 KO (Yoram Vodovotz)	IRF-1 KO (David Geller)	PKR KO (Chen)
GTPCH (Alex Chen)	Lys(M) GFD Knock-in, (Allan Tsung), heterozygous (Geller)	Rab27a KO (Geller)
HMGB1 EC KO (Chen)		
HPH-1 KO (Chen)	PAD4-/- (Tsung)	

