



A newsletter providing information for the faculty, staff and trainees of the Department of Pathology & Immunology

# PATHOLOGY & IMMUNOLOGY | NEWS



**ADMINISTRATION KEEPS IT RUNNING**  
Page 2

**CLINICAL LABS POWER PATIENT CARE**  
Page 3

**RESEARCH LABS DRIVE INNOVATION**  
Page 6

**PHOTO CONTEST**  
Page 9

**RECOGNIZING OUR FACULTY AND STAFF**  
Page 11

**FITBIT RAFFLE WINNERS**  
Page 14

## CELEBRATING LABORATORY PROFESSIONALS WEEK | APRIL 23-29, 2017

Medical Laboratory Professionals Week is observed nationally this week. Originating in 1975 under the auspices of the American Society for Medical Technology, now called the American Society of Clinical Laboratory Science (ASCLS), this event recognizes the contributions of the scientific and technical personnel in medical/clinical laboratories.

The Department of Pathology & Immunology would like to take this opportunity to recognize the efforts and dedication of *all* individuals who contribute to the success of the Department's missions. It is the combination of outstanding basic research with exceptional clinical care supported by a committed

administrative staff that makes the Department so successful.

From individuals who are new to the team to those who have been with us for more than 50 years, the Department boasts an amazing group of people. Thank you!



**Laboratory Professionals  
GET RESULTS**

Medical Laboratory Professionals Week  
APRIL 23-29, 2017 • #LABWEEK



AMP and Neuropathology administrative assistants Jordana Stewart, Kathy Nesser, Billie Charleton, Lisa Taylor, Tammy Robinson, Blerina Cuka and Julie Gutierrez

## ADMINISTRATION KEEPS IT RUNNING

The Department of Pathology & Immunology is comprised of a dynamic group of administrators, clinical laboratories and research laboratories that support the overall missions of the Department.

### BUSINESS OFFICE

**Executive Director:** *Judy Elleson, MBA*

The Business Office is organized to provide comprehensive administrative services to faculty, staff, and trainees in the department.

The staff of the Business Office work closely with each of the division's faculty directors supporting the department's missions. They provide financial oversight, HR services, grants and contracts administrative services, IT/computing services, and revenue cycle management.

In addition, the directors of these services provide strategic planning support to the Chair and Vice Chair for Clinical Affairs.

### ADMINISTRATION

**Supervisor:** *Lisa Taylor-Reinwald, MBA*

The Administrative Support staff works tirelessly to provide high quality administrative assistance to our faculty in order to support the medical school's research, educational, and clinical missions.

Whether it's submitting expense reports, assisting with travel arrangements, preparing clinical cases for conference, or completing any other administrative task, our support staff strives to ease the administrative burden on faculty and provide a link to the business office with one overarching goal: providing excellent service.

### ADMINISTRATION LIFE



Bridget Franklin and Mary Beth Mobley of Immunobiology Administration



Kelly Antolik and Jennifer Schwierjohn of Immunobiology Administration



Robert Schmidt, MD, PhD, Christopher Dunham, Joseph Gaut, MD and Karen Green of the Electron Microscopy Facility.

## CLINICAL LABORATORIES POWER PATIENT CARE

### AMP CORE LABORATORY

**Director:** *Erica Crouch, MD, PhD*

**Lab Manager:** *Tom Fitzgerald, MS*

AMP Core Laboratory is a full-service, CAP/CLIA certified, pathology laboratory that supports testing for the Department's clinical consult service and a variety of clinical outreach activities. It also provides laboratory support for selected clinical trials and translational research projects.

The Lab performs grossing, tissue processing and embedding, and has a large menu of histochemical stains and FDA-approved immunohistochemical tests. It also supports coring of paraffin blocks or micro-dissection of unstained slides to isolate cells for molecular analysis. Testing is supported by WU anatomic pathologists, technicians, and administrative staff.

All specimens are accessioned in Cerner CoPath Plus, and all blocks and slides are bar coded and labeled using the Ventana Vantage work flow solution, which is driven by the CoPath LMS. Routine

histochemical staining and cover-slipping are automated. Immunohistochemical testing uses the Ventana Benchmark Ultra platform. The Lab supports intra-operative diagnosis via telepathology with whole slide imaging using the Ventana iScan Coreo digital slide scanning system. Volume, turnaround time, and quality metrics can be tracked in real time using Microsoft PowerBI.

### CLINICAL CONSULT OFFICE

**Director:** *John Pfeifer, MD*

**Supervisor:** *Jeannie Doerr*

The Clinical Consult Office was created in 2012 to increase consult growth and establish WashU as a reference lab for BJH affiliates as well as outside providers and health systems.

Led by supervisor Jeannie Doerr, the CS Office is the gateway to Washington University Diagnostic Laboratory Services. CS Office staff receive pathology cases and specimens from outside institutions and distribute them to our clinical laboratories for testing and to our pathologists for

### CLINICAL LAB LIFE



Tom Fitzgerald of AMP Core Labs



Kristin Kintz of AMP Core Labs

consultation and diagnosis.

In addition, the CS Office is the primary customer service contact for WU Diagnostic Laboratory Services, providing support and service to outside clients and ensuring excellent patient care. Jeannie and her team work closely with Lab Managers, Medical Directors, and Department Administration to ensure all of the administrative and front office functions of the laboratories are handled properly, including patient registration, insurance precertification, specimen accessioning, and specimen distribution.

### **CLINICAL & TRANSLATIONAL GENOMICS LABORATORY (CaTG)**

**Director:** *Jon Heusel, MD, PhD*

The CaTG represents a proactive integration of two formerly independent clinical laboratories performing high-complexity testing in the dynamic field of clinical genomics—the Cytogenetics & Molecular Pathology Laboratory, and Genomics and Pathology Services (GPS).

Supporting the Department's clinical mission, the CaTG allows for a new way to manage the avenue toward Precision Medicine, seeking to maximize economics, expertise and innovation.

The CaTG will also become an important translational research unit, collaborating with existing, well established partners in human genomics, as well as emerging groups in informatics, genetics, and functional genomics at this institution. The

lab will partner with institutional efforts to bring forward highly curated genomics knowledge bases and the clinical decision support mechanisms needed to realize the potential of healthcare informed by large data sets and tailored to the unique needs of the individual patient.

### **(FORMER) CYTOGENETICS & MOLECULAR PATHOLOGY**

**Associate Directors:** *Ina Amarillo, PhD and Yoshiko Mito, PhD*

**Lab Manager:** *Jane Bauer*

Cytogenetics & Molecular Pathology is a CAP/CLIA certified laboratory that provides quality care with expert genomic services from “chromosome to base pair”. The lab's professional team is fully equipped with a state-of-the-art facility to fully assist with prenatal, constitutional and cancer.

The lab is supported by over 30 highly trained individuals and includes Washington University faculty, cytogenetic technologists, medical secretaries, laboratory assistants and administrative staff.

Beyond traditional clinical services, the team is a major collaborator of international, multi-center clinical trials such as those with the Childhood Oncology Group, Cancer and Leukemia Group B, Genetic Testing Reference Material Program at the Center for Disease Control and Prevention, Clinical and Laboratory Standards Institute and DECIPHER (Database of Chromosomal Imbalance and Phenotype in Humans using Ensembl Resources).



Lisa Snipes of AMP Core Labs



Marina Platik of AMP Core Labs



Deann Winkler, Tracey Hammontree and Kevin Boyer of the Clinical Consult Office



Dave Britton and Jasmine Prater of the Clinical Consult Office

## **(FORMER) GENOMICS AND PATHOLOGY SERVICES (GPS)**

**CMO:** *Jon Heusel, MD, PhD*

GPS provides physicians with clinically validated next-generation sequencing for cancer, somatic overgrowth and a variety of constitutional diseases. Due to extensive technological capabilities the lab also offers customized tests for clinical trials and clinical research.

GPS' clinical genomic tests improve patient care by enabling a personalized approach to medicine. Next-generation sequencing tests return actionable genomic intelligence across multiple key disease-relevant genes.

Sequencing results are interpreted by board-certified pathologists and clinical geneticists. Variants are categorized by medical significance in a concise clinical report. These results help ordering physicians stratify disease subtypes and identify optimal patient treatment strategies.

## **DERMATOPATHOLOGY CENTER**

**Director:** *Ilana Rosman, MD*

**Lab Manager:** *Amanda Kelley*

The Dermatopathology Center is a collaboration between the Department of Pathology & Immunology and the Department of Medicine, Dermatology Division.

The lab is committed to expert interpretation of routine and complex skin, hair and nail biopsy specimens. The physicians at the Dermatopathology Center deliver patient-focused care by

providing timely and definitive diagnoses.

The comprehensive array of diagnostic services performed in-house include primary diagnosis, molecular diagnostics, BRAF testing for melanoma, ELISA testing for bullous pemphigoid and pemphigus, direct immunofluorescence (DIF) for blistering, vasculitic and connective tissue diseases and staged excisions ("slow Mohs").

## **ELECTRON MICROSCOPY FACILITY**

**Director:** *Robert Schmidt, MD, PhD*

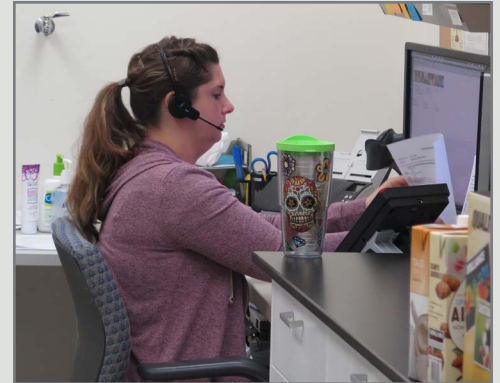
**Lab Manager:** *Karen Green*

The CAP/CLIA certified Electron Microscopy Facility provides a variety of electron microscopy services for clinical and research use. These include tissue processing and embedding, preparation of one micron thick toluidine blue stained sections and routine transmission electron microscopy for cell culture and tissue specimens.

Both the JEOL 1200EX and JEOL JEM1400 electron microscopes in the facility have high resolution CCD based cameras for high quality digital imaging. The clinical digital images of renal biopsies are collected and uploaded into password protected on line clinical reports. Research images will be available for downloading by individual investigators as part of a password protected on line system.



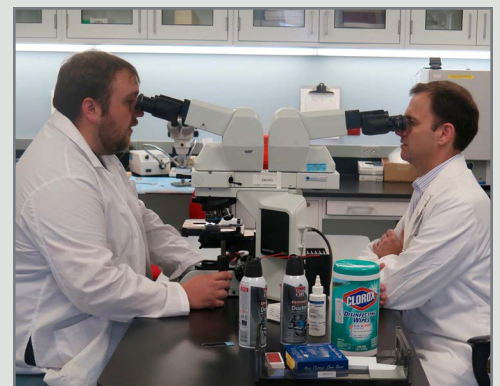
Sherry Ellis of the Clinical Consult Office



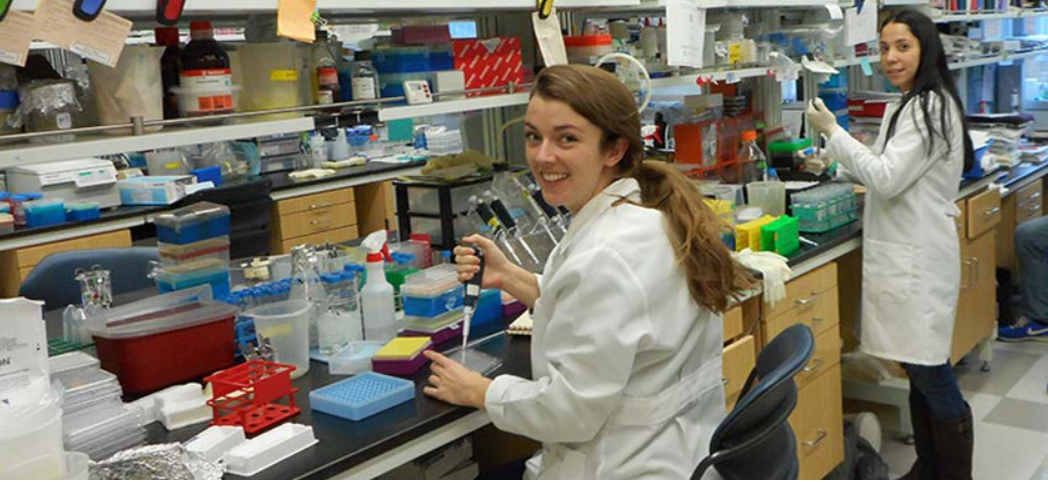
Megan Heroux of the Clinical Consult Office



Emily Brophy, Brandy Gee and Mary Niedringhaus of CoPath Support



Christopher Dunham and Joseph Gaut, MD of the EM Facility



Both from the Colonna Lab, Hanna Miller (sitting) works on the role of dendritic cell subsets in allergic skin inflammation and Luisa Cervantes Barragan, PhD (standing) studies intestinal intra-epithelial T cells and their interaction with the microbiome.

## RESEARCH LABORATORIES DRIVE INNOVATION

### DIGITAL IMAGING CENTER

The Digital Imaging Center is a joint resource of the Department of Pathology & Immunology and BJH. This Center specializes in digital imaging for clinical, teaching and research applications and is keeping up with advances in this fast moving area.

In addition to resources for traditional and digital photography, poster and other image printing, the Digital Imaging Center currently provides resources for high quality whole slide scanning including for teaching, archival, or deidentified sharing off site. We are also in the process of acquiring and utilizing image analysis software for use with scanned slides.

### FACS FACILITY

**Director:** *Marina Cella, MD*

**Lab Manager:** *Erica Lantelme, PhD*

The FACS Facility provides investigators with instrumentation and support for cell sorting as well as acquisition

and analysis of flow cytometry data.

Specific services include high speed cell sorting, assistance with experimental design, instruction and training on the instruments and consultations on sample preparation and data analysis.

### HYBRIDOMA CENTER

**Director:** *Kathleen Sheehan, PhD*

The Hybridoma Center provides monoclonal antibody technology to the University research community. With over 35 years of experience, the Hybridoma Center assists investigators in the generation of custom monoclonal antibody-producing B cell hybridomas.

The lab also provides custom monoclonal antibody development for parties outside of the university.

### TRANSGENIC MOUSE CORE

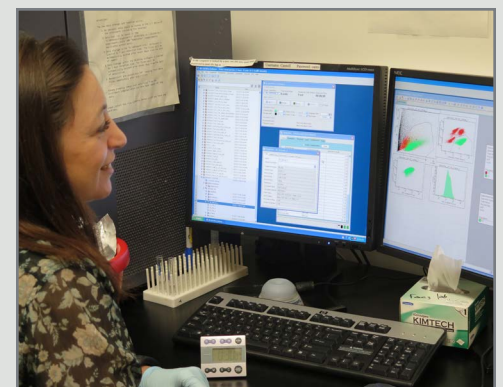
**Director:** *J. Mike White*

The Transgenic, Knockout and Micro-Injection Core offers a wide array of mouse embryo

### RESEARCH LAB LIFE



Erica Lantelme of the FACS Facility



Vicky Lampropoulou of the Aryomov Lab

manipulation techniques.

The lab provides investigators resources to generate mutant mouse models through a variety of techniques, cryopreserve mouse lines, cryopreservation/storage of mouse sperm, perform embryo rederivation, thaw embryos and perform IVE. C57BL/6 inbred is the standard

strain for both pronuclear and ES micro-injection, but Albino B6 host embryos for injection of B6 ES cell lines such as those from KOMP, EUCOMM TIGM and other cell suppliers are also available. Hybrids and additional inbred strains may be used for transgenic production.



Jaya Bhushan of the Vig Lab

## FACULTY RESEARCH LABS

Allen Lab

Egawa Lab

Schreiber Lab

Amarasinghe Lab

Fremont Lab

Stappenbeck Lab

Bhattacharya Lab

Gordon Lab

Swamidass Lab

Burnham Lab

Klechevsky Lab

Teitelbaum Lab

Choi Lab

Ladenson Lab

Unanue Lab

Collona Lab

Mosammaparast Lab

Vig Lab

Conrad Lab

Murphy Lab

Virgin Lab

Corbo Lab

Otlz Lab

Watson Lab

Dantas Lab

Payton Lab

Zinzelmeyer Lab

Eby Lab

Randolph Lab

Edelson Lab

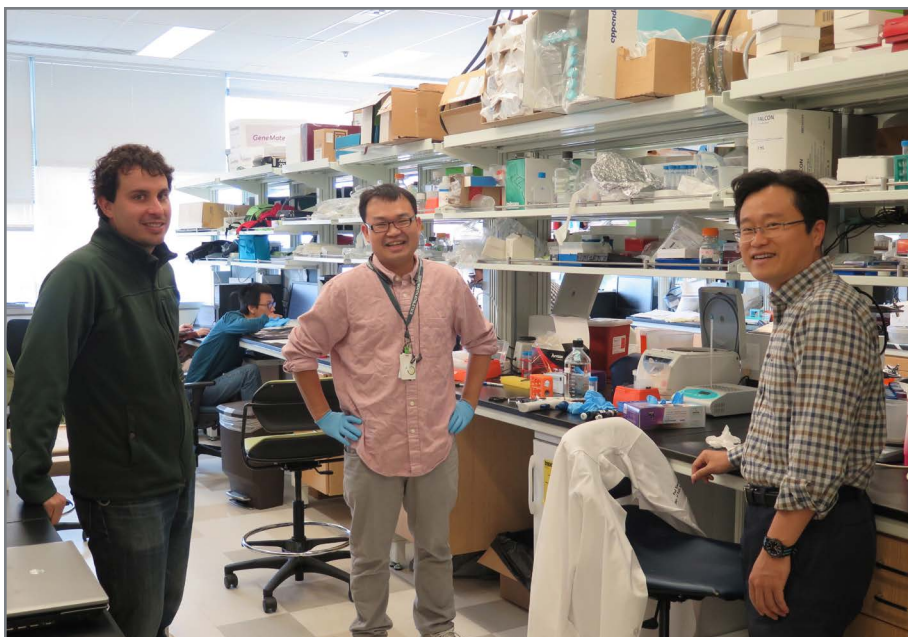
Scott Lab



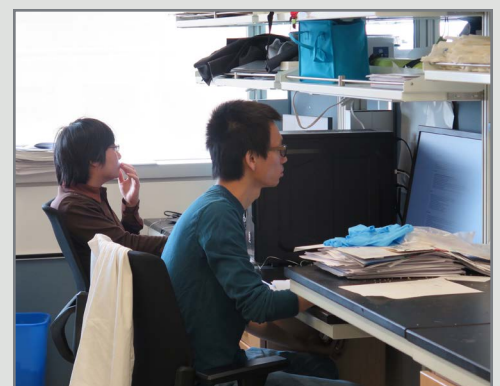
Savaikar Madhusudan of the Vig Lab



Nicholas Jarjour of the Edelson Lab



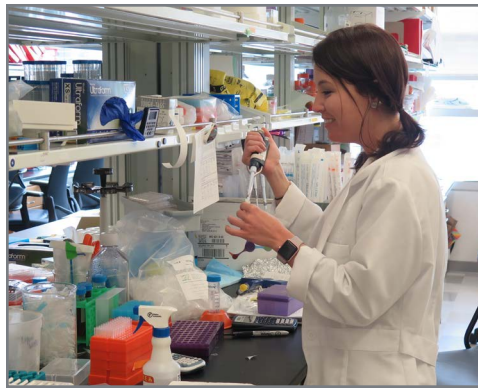
Jesse Williams, Nan Zhang, Li-Hao "Paul" Huang and Jaehoon Choi of the Randolph Lab



Osamu Baba and Nan Zhang of the Randolph Lab



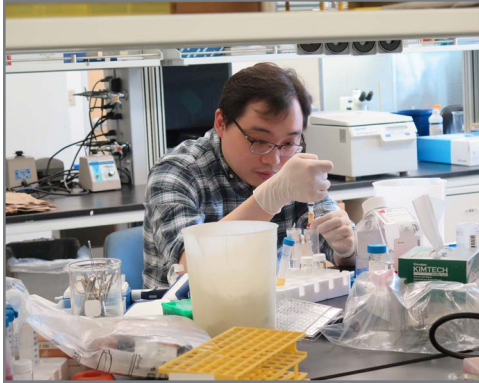
Heather Kohlmiller, Daniele Runci and Elise Alspach of the Schreiber Lab



Danielle Lussier of the Schreiber Lab



Stephen Ferris of the Unanue Lab



Xiaoxiao Wan of the Unanue Lab



Javier Carrero of the Unanue Lab



Parmeshwar Amatya, Wenjie Wang and Britney Johnson of the Amarasinghe Lab



Sarah Pyrom and Jackie Payton of the Payton Lab



Caitlyn Purman and two students from the Oltz Lab



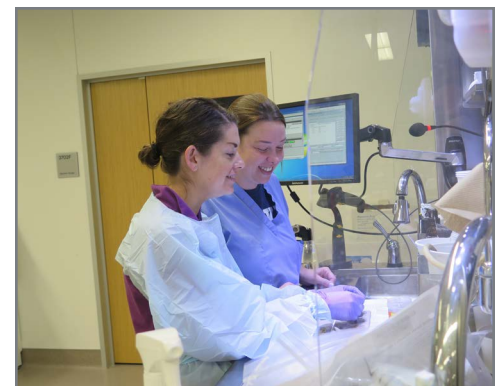
Arijita Jash of the Bhattacharya Lab



Ken Murphy is so committed to his work, he NEVER leaves the office



Taylor of the Virgin Lab



Colleen Newhouse and Laura Garvey of Anatomic and Molecular Pathology





**PHOTO CONTEST WINNER**

Cytogenetics & Molecular Pathology superheroes get results to treat patients

Pictured: Mo Yu Kwong, Megan Hillen, Steve Lamp, Joan Reid-Milburn, Amanda Hausman, Kate Stehl, Janice Muckerman, Donna Lehmann, Jane Bauer, Monica Carrillo, Mike Evenson, Shelia Rackers, Gina Oppelt, Julie Branson, Jennifer Birk

**PHOTO CONTEST AND LAB HIGHLIGHTS**

Labs got funny and creative for the opportunity to win a pizza party by submitting photos of their group to showcase their personality and mission. Thank you to all who participated and congratulations to the winning lab!

**BURHNAM LAB**

The Burnham Lab is a group of microbiologists that studies the transmission and epidemiology of multi-drug resistant pathogens, especially bacteria that cause infections in the hospital setting such as Clostridium difficile and Staphylococcus aureus. We utilize a variety of methods, including conventional culture, MALDI-TOF MS, and molecular methods. In addition, we develop and evaluate new diagnostic methods to detect microbes causing infection in clinical samples. We evaluate the microbiome of various body compartments, and evaluate the

role of microbes in health and disease.

**CONRAD LAB**

The Conrad lab is a diverse blend of scientists from different disciplines and geographic origins. Our mission is to make fundamental contributions to all steps of the translational cycle of human genetics: discovery of genetic variation, functional characterization of this variation, diagnosis and therapy. Our focus is reproductive disorders and neuropsychiatric disease. We are scientists that write computer programs and analyze data, scientists that create beautiful and informative images using microscopy, scientists who breed and characterize mice, scientists who talk to patients and physicians to accelerate the use of genetics in medicine. We come from across the globe: China, Estonia, Portugal, Germany, South Korea, India, the United



The Burnham Lab enjoys microbiology so much, even when they are goofing off they play a microbiome related game!

Pictured: Tiffany Hink, William Lainhart, Melanie Yarbrough, Meghan Wallace, Angela Shupe, Carey-Ann Burnham



The Conrad Lab Finds the Min.

Pictured: Nicole Rockweiler, Wu-Lin Charng, Min Jung, Amy Wilfert, Me, Brian Leon-Ricardo, Chengran Yang, Ana Lima, Avinash Ramu

States, and we are extremely happy to call Washington University our scientific home.

## CORBO LAB

The Corbo Lab works at the interface of neurobiology and genomics to understand the mysteries of the brain and retina. Research in the lab has three main goals: 1) To elucidate the cis-regulatory architecture of the retina and utilize this knowledge to treat blindness, 2) to understand the molecular and genetic basis of color vision, focusing on how animals both see and produce colors, and 3) to decipher the role of cis-regulatory variation in the human cognition and neuropsychiatric disease.

## CYTOGENETICS & MOLECULAR PATHOLOGY

With access to state-of-the-art technologies for chromosome analysis, karyotyping, chromosomal microarray analysis, and FISH testing, the Cytogenetics & Molecular Pathology Lab offers full laboratory services for prenatal, POC, constitutional and cancer testing. The lab is supported by a dynamic group of over 30 highly trained individuals including faculty, cytogenetic technologists, medical secretaries, laboratory assistants and administrative staff.

## DANTAS LAB

The Dantas lab applies cutting-edge metagenomic analyses to track the dynamics and spread of antibiotic resistance in human- and environmentally-associated microbial communities. We also harness the outstanding and under explored genetic

material in these communities to accelerate microbial synthetic biology for medical and industrial applications.

## PAYTON LAB

The Payton lab focuses on the role of aberrant epigenomic patterns in cancer-specific gene dysregulation. We take an integrative approach to understanding the complex interplay of genomic and epigenomic mutations and their impact on gene regulation, employing translational, bioinformatic, and basic biological approaches to understand the progression of hematopoietic cells from healthy to malignant.

## STAPPENBECK LAB

The Stappenbeck lab studies how the cells that form mucosal surfaces of the intestine and lung function during health and disease. We are particularly interested in how these cells interact with bacteria (or the products bacteria produce) to alter disease and wound repair processes. Lab members use a wide variety of techniques and model systems in their research. Some specialize in growing mouse or human mucosal cells or culturing bacteria; others specialize in modeling host-bacteria interactions in mice or analyzing human tissue samples. All of us are very thankful for our lab manager, Nikki, who specializes in keeping our lab running smoothly! Despite a wide range of scientific interests, the Stappenbeck lab members are focused on working as a team to tackle complex scientific questions.



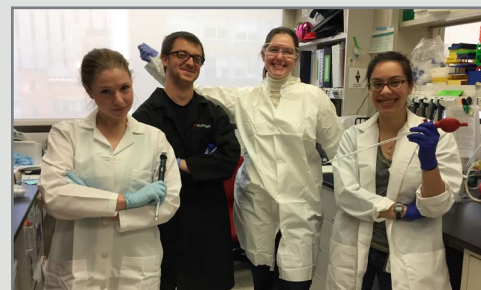
Corbo Lab

Pictured: Leo Volkov, Dan Murphy, Susan Shen, Back row left to right. Jeong Sook Kim-Han, Joe Corbo, Cindy Montana, Connie Myers, Jenny Enright, Matt Toomey, Drew Hughes



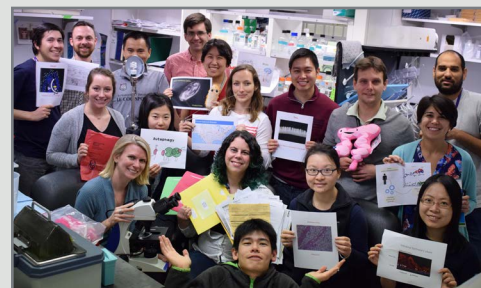
Dantas Lab

Pictured: Aki Kau, Nathan Crook, Aimee Moore, Gretchen Walljasper, Christopher Bulow, Boahemaa Adu-Oppong, Terence Crofts, Manish Boolchandani, Drew Gasparrini, Gautam Dantas, Bert Berla, Amy Langdon, Robert Potter, Alaric D'Souza, Tayte Campbell, Bin Wang, Nick Goldner, and Aura Ferreira



The Payton lab is like a family, complete with real "sibling" rivalry and feigned "maternal" disapproval

Pictured: Lab manager Jennifer Schmidt, Graduate students Jared Andrews, Sarah Pyfrom, and Nina Beri



Stappenbeck Lab

Pictured: Chin-Wen "RC" Lai, Ashley Steed, Nicole Malvin, Shanshan Xiong, Yi Wang, Victoria Goodwin, Haerin Jung, Naomi Sonnek, Takahiro Ohara, Gerard Kaiko, Kelli VanDussen, Steven Ekman, Tom Mauer, Qiuhue Liu, Brian Muegge, Christina Hickey, Umang Jain



Dr. Steven Teitelbaum, MD and Karen Green receive their service awards from Executive Director, Judy Elleson, MBA

## RECOGNIZING OUR FACULTY AND STAFF

### P&I STAFF

#### 40+ years

*Karen Green  
Jessie Hardges*

#### 35-39 years

*Byron Henderson*

#### 30-34 years

*Orlando Crisp  
David Donermeyer  
Susan Johnson  
Jennifer Lackner*

#### 25-29 years

*Jennifer Adams  
Jataun Alberty  
Corazon Arthur  
Katherine Frederick  
Karl Hock  
Vivian Hogan  
Michael Isaacs  
Jean Loehr  
Debra Weber*

#### 20-24 years

*Stephen Horvath  
Darren Kreamalmeyer  
Rhonda Porche-Sorbet  
Lisa Snipes  
Donna Thompson  
James White*

*Xiaopei Zhu*

#### 15-19 years

*Nancy Brada  
Jeannie Doerr  
JoAnne Humphries  
Rosa Montileone  
Sharon Smith  
Melvin Stewart  
Christopher Swan  
Lisa Taylor-Reinwald  
Autumn Watson  
Ann Winn  
Mary Wohltmann*

#### 10-14 years

*Stephanie Amen  
Pamela Anderson  
Elease Barnes  
Amy Brink  
Emily Brophy  
Virginia Colombo  
Lindsay Droit  
Sherry Ellis  
Vicky Fuehne  
Laura Kyro  
Bonnie Meltzer  
Connie Myers  
Betty Norton  
Jordana Stewart  
Kimberely Unger  
Xin Zhang*

#### 5-9 years

*Patricia Alldredge  
Edward Anderson III  
Sharon Austin  
Jane Bauer  
Jonathan Bihr  
Tara Bradstreet  
Matthew Breuer  
David Britton  
Bonita Brooks  
Monica Carrillo  
Jiye Cheng  
Sandra Crocker  
Adish Dani  
Su Deng  
Michaela Dino  
Andrew Drury  
Dijana Durakovic  
Michael Evenson  
Angela Felton  
Tonya Fields  
Barbara Fowler  
Erika Fuess  
Bijoy George  
Kimberly Green  
Jennifer Green-  
baum-DiRuscio  
Snehl Gupta  
Janaki Guruge  
Julie Gutierrez  
Janis Hardin  
Jessica Hoisington-Lopez  
Lynda Imber  
Benjamin Joseph*

### JOHN KISSANE, MD | FACULTY IN AMP | 63 YEARS

John Kissane, MD has been instrumental in the training and mentoring of pediatric pathologists throughout his tenure with the Department of Pathology & Immunology. John Kissane graduated cum laude from WUSM in 1952. The following two years were spent as a resident in pathology at Barnes Hospital and as a research fellow. After the completion of a two-year tour in the United States Army, he returned to St Louis and joined the pathology faculty in 1958 as an assistant professor.

Dr. Kissane has fulfilled many roles within the Department of Pathology & Immunology, and has established himself as a preeminent clinician and researcher. He has served as director of the autopsy service at a time when 600 to 700 autopsies per year were performed in the department. Dr. Kissane also was responsible for the pediatric and adult renal biopsies which came through surgical pathology. He was actively involved in the second-year pathology course as a lecturer in a number of organ systems, in addition to his supervisory role in the student laboratories.

Dr. Kissane is a pioneer in the field of pediatric pathology; his interest in pediatric pathology emerged while he was a resident and was on exhibit in his first published paper on the topic of maturation of neuroblastic tumors, which he coauthored with Lauren V. Ackerman in 1955. Throughout his active years, Dr. Kissane continued his interest and developed his insights into various aspects of renal diseases in children with studies on cystic disease and hereditary nephropathies. Dr. Kissane also was involved in a number of studies on various aspects of childhood neoplasia, including Ewing sarcoma, renal tumors, small cell osteosarcoma, pancreatic tumors, rhabdomyosarcoma, and histiocytic disorders.

THANK YOU for your service and commitment to the Department!

Maria Karlsson

Aki Kau

Jason Kenney

Jason Kerr

Suhas Khot

Brian Koebbe

Shashi Kumar

Mo Kwong

Jeffrey Lacey

Stephen Lamp

Donna Lehmann

Nicole Malvin

Eric Martin

Shirley McKinney

Nathan McNulty

Martin Meier

Yong Miao

Janice Muckerman

Colleen Newhouse

Mary Niedringhaus

David O'Donnell

Susan Pagano

Anne Paredes

Sanket Patel

Shelia Rackers

Joan Reid

Lori Scantlan

Jennifer Schmidt

Elizabeth Schwarzkopf

Julie Shafferkoetter

Terry Sherlinski

Kate Stehl

Douglas Tihen

Mary Uhlmansiek

Anthony Vomund

Sabrina Wagoner

Bin Wang

Mingqiang Xie

**< 5 years**

Rosalia Alcoser

Vanessa Alexander

Jared Amann-Stewart

Parmeshwar Amatya

Jeanne Anderson

Rebecca Andrews

Kelly Antolik

Fnu Anu Vadakkum-

cheril

Kylie Austin

Osamu Baba

John Ball

Alexander Barrow

Michael Baxter

Diane Bender

Nicholas Benschhoff

Kendra Bockius

Amanda Booher

Tiana Bowdry

Heather Bowman

Kevin Boyer

Julie Branson

Dorjan Brinja

Della Brooks

Aviva Buck-Yael

Amie Burke

Alan Catalano

Kimberly Caves

Luisa Cervantes Barragan

Nisha Chatterjee

Aisha Clark

Joi Clark

Kia Coleman

Zevin Condiotte

Meagan Corliss

Lauren Coryea

Blerina Cuka

Daisy Daleo

Keith Dandurand

Rajashree Dasgupta

Bonnie Dee

German Demidov

Chandni Desai

Brandi DeVore

Jennifer Dickinson

Rebecca Dodson

Susan Doetzel

Christopher Dunham

Ashley Edwards

Judy Elleson

Andrew Elvington

Joseph Essmyer

Jessica File

Thomas Fitzgerald

Erin Franklin

Bridget Franklin

Joan Fritz

Laura Garvey

Brandy Gee

Kevin Glass

Mary Gohsman

Javier Gonzalez

Tracy Goodman

Carrie Goodson

Jeanne Grigsby

Tracey Hammontree

Linda Hankins

Ryan Hardy

Amanda Hausman

Megan Heroux

Elizabeth Herries

Megan Hillen

Melanie Holmgren

Cinda Houska

Lee-Yang Hsieh

June Huang

Cassandra Huff

Barry Hykes Jr

Haerin Jung

Sebastian Karlsson

Atul Kaushal

Madhurima Kaushal

Lauren Keck

Amanda Kelley

Krista Kennerly

Justin Kern

Divya Khandekar

Jeong Kim-Han

Kristin Kintz

Artem Kiselev

Tina Knepper-Smith

Heather Kohlmiller

Daniel Korenfeld

Karen Krchma

Katherine Kyle

Julie Lackey

Erica Lantelme

Xiaoyan Liu

Alexandra Livingstone

Ekaterina Loginicheva

Latisha Love-Gregory

Qun Lu

Olga Malkova

Anna Malova

Chelsea Mannie

Jon Marsh

Tina Marti

Daniel Martin

Brittany Masters

Melissa McKenna

Samantha McNulty

Patrick Meier

Cathrine Miner

**STEVEN TEITELBAUM, MD | AMP  
DIVISION CHIEF | 48 YEARS**



Steven L. Teitelbaum, MD is the Division Chief of Anatomic and Molecular Pathology and is renowned as one of the world's leading experts in bone metabolism. Dr. Teitelbaum received his bachelor's degree from Columbia College in 1960 and his medical degree from Washington University in 1964. After residency, Dr. Teitelbaum returned to Washington University in 1968 as a clinical fellow in pathology. He served as chair of the Department of Pathology of the Jewish Hospital from 1987 to 1996 and of that institution's institutional review board from 1977 to 1997.

The WUMC Alumni Association named a scholarship to honor him as a distinguished alumnus in 1997. He is currently the Wilma and Roswell Messing Professor of Pathology and Immunology. Dr. Teitelbaum's pioneering research focuses on bone cell biology for the purpose of developing new treatments for the prevention and cure of diseases such as osteoporosis. He has published over 300 papers in his career.

He has held leadership positions in many national organizations, including serving as President of the Federation of American Societies for Experimental Biology and of the American Society for Bone and Mineral Research. Among his honors are the William F. Newman Award of the American Society for Bone and Mineral Research, Washington University's Second Century Award, the Rous-Whipple Award from the American Society for Investigative Pathology, the Carl and Gerty Cori Faculty Achievement Award, the Peter H. Raven Lifetime Achievement Award from St. Louis Academy of Science, and the Pieter Gaillard Founders Award from the International Bone and Mineral Society.

In addition to his academic pursuits, Dr. Teitelbaum enjoys spending time with his wife Marilyn and doting on his grandchildren.

THANK YOU for your service and commitment to the Department!

Mary Mobley  
Eric Moll  
Miranda Mudge  
James Murray  
Katherine Nesser  
Melissa Nilson  
Ashley Njaka  
Gina Oppelt  
Keith Page  
Hannah Page  
Romil Patel  
Susan Phillips  
Marina Platik  
Timothy Poole  
Sofia Porter  
Jasmine Prater  
Landon Reading  
Elaine Marie Ritter  
Gregory Robbins  
Tammy Robison  
Nidhi Rohatgi  
Brian Romine  
Tiffany Ross  
Sheila Rozmirsky  
Brian Saunders  
Mary Schaefer  
William Schaiiff  
Eric Schnable  
Jennifer Schwierjohn  
Tatum Seawell  
Alexey Sergushichev  
Justin Serugo  
Angela Shupe  
Melissa Smith  
Jacqueline Snider  
Abigail Sondker  
Naomi Sonnek  
Rebecca Speidel  
Lisa Strauser  
Xiaoqing Sun  
Lauri Thienes  
Felicia Thomas  
Priya Thomas-Abraham  
Matthew Toomey  
Valerie Varady  
Keith Vaughan  
Daniel Vianello  
Tammi Vickery  
Katinka Vigh-Conrad  
Benjamin Vincent  
Meghan Wallace

Kristin Waterson  
Shawn Wenren  
Donna Williams  
Deann Winkeler  
Ryan Winschief  
Wesley Wright  
Jun Wu  
Kanstantsyia Zaba-  
rouskaya  
Nicole Zanolli  
Yu Zhao  
Dequan Zhou  
Michelle Ziegler

### **P&I FACULTY**

#### **60+ years**

John M Kissane

#### **45-49 years**

Louis Dehner  
Michael Kyriakos  
Steven Teitelbaum

#### **40-44 years**

Samir El-Mofty  
Jack Ladenson

#### **35-39 years**

Robert Schmidt

#### **30-34 years**

Paul Allen  
Erika Crouch  
Robert Schreiber  
John Turk  
Emil Unanue

#### **25-29 years**

Morey Blinder  
Charles Eby  
Kenneth Murphy  
Theresa Murphy  
John Pfeifer  
Mitchell Scott  
Kathleen Sheehan  
Herbert "Skip" Virgin IV

#### **20-24 years**

Ann Gronowski  
Frances White

#### **15-19 years**

Marina Cella  
Kyunghee Choi  
Marco Colonna  
George Despotis  
Daved Fremont  
Susan Gilfillan  
Christopher Nelson  
Deborah Novack  
Wojciech Swat

#### **10-14 years**

Nigel Cairns  
Joseph Corbo  
John Frater  
Anjum Hassan  
Friederike Kreisel  
Jason Mills  
Jacqueline Payton  
Thaddeus Stappenbeck  
David Wang  
Xiaoli Wang  
Mark Watson

#### **5-9 years**

Philip Ahern  
Gaya Amarasinghe  
Michael Barratt  
Melissa Barrow  
Cory Bernadt  
Deepta Bhattacharya  
Carey-Ann Burnham  
Javier Carrero-Brewer  
Chih-Hao Chang  
Rebecca Chernock  
Catherine Cottrell  
Sonika Dahiya  
Gautam Dantas  
Eric Duncavage  
Brian Edelson  
Takeshi Egawa  
Jeffrey Gordon  
Brenda Grossman  
Scott Handley  
Thomas Hannan  
Ronald Jackups Jr.

## **KAREN GREEN | EM FACILITY TECHNICAL DIRECTOR | 43 YEARS**



Karen Green is the technical director of the Electron Microscopy Facility and has been with the Department of Pathology & Immunology since 1973. When she arrived here, there was a flower shop where the Metrolink is now, Euclid was a real street, and the McDonnell Science Building was a new WUMS edifice.

Karen has been tireless in the pursuit of excellence in the varied jobs she has been called upon to master. She has mentored a large number of graduate students, residents, fellows (and even principal investigators and professors) during her 43 years, most of it spent in the practice of electron microscopy, an old technique now new again. She has never rested on her laurels or feared a challenge, adapting to a rapidly changing clinical and research environment.

Bob Schmidt, MD, PhD, Director of the EM facility says "I couldn't ask for a better employee, colleague and friend".

THANK YOU for your service and commitment to the Department!

*Eynav Klechevsky*

*Daisy Leung*

*Olga Lubman*

*Horacio M Maluf*

*Leslie McIntosh*

*Ilke Nalbantoglu*

*Eugene Oltz*

*Richard Perrin*

*Gwendalyn Randolph*

*Souzan Sanati*

*S. Joshua Swamidass*

*Monika Vig*

*Guoyan Zhao*

*Wei Zou*

**> 5 years**

*Ina Amarillo*

*Neil Anderson*

*Maksym Artomov*

*Dengfeng Cao*

*Danielle Carpenter*

*Patrick Collins*

*Donald Conrad*

*Joseph Gaut*

*Bella Goyal*

*Nicholas Griffin*

*Ian Hagemann*

*Mai He*

*Jonathan Heusel*

*Kiwook Kim*

*Hannah Krigman*

*Yi-Shan Lee*

*Chang Liu*

*Ta-Chiang Liu*

*Yoshiko Mito*

*Nima Mosammaparast*

*Bijal Parikh*

*Jon Ritter*

*Ilana Rosman*

*Marianna Ruzinova*

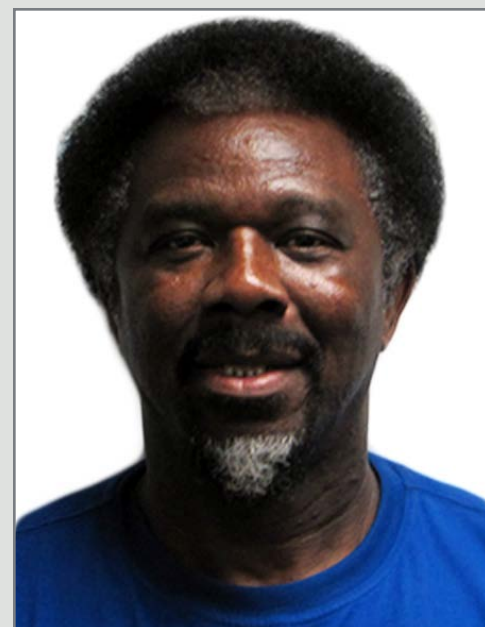
*Jennifer Sehn*

*Kelli VanDussen*

*Craig Wilen*

*Bernd Zinselmeyer*

**JESSIE HARDGES | AUTOPSY SUPERVISOR | 43 YEARS**



Jessie Hardges is our Autopsy Supervisor and has been with the Department of Pathology & Immunology since 1973.

Jessie serves as supervisor and mentor to the autopsy staff, provides expert technical assistance during the autopsy exam, and is a resource to students, trainees, faculty, and staff. During his 43+ years of service Jessie has assisted with the training of over 400 residents, including several of our current faculty members.

Jessie has also been instrumental in implementing several autopsy techniques that have been adopted by other autopsy departments around the country.

Growing up Jessie was a talented athlete and played basketball for Mississippi Valley State University. When he isn't busy assisting our faculty, staff, and trainees, Jessie spends time teaching anatomy to high school students. Jessie has been married to his wife Linda for 38 years and has three children.

THANK YOU for your service and commitment to the Department!

# THANK YOU TO ALL!

## FITBIT RAFFLE WINNERS

**John Ball** | Clinical support specialist, Clinical consult office

**Dijana Durakovic** | Senior lab technician, AMP core lab

**Maria Karlsson** | Research lab manager, Gordon lab

**Sanket Patel** | Research technician, Dantas lab

**Lori Scantlan** | Administrative coordinator, LGM



Congratulations and THANK YOU for all that you do!