

## THE PATHWAY

#### DECEMBER 2016

Volume 7, Issue 4

#### Archives Journal (January 2017):

#### Pathology Informatics Essentials for Residents: A Flexible Informatics Curriculum Linked to Accreditation Council for Graduate Medical Education Milestones

(http://www.archivesofpathology.org/doi/abs/10.5858/arpa.2016-0199-OA?code=coap-site)

#### RESULTS

The PIER prototype (Release 0) was introduced at the July 2014 APC Annual Meeting. PIER Release 1 was made available to all residency programs on the APC Web site in September 2014 and was concurrently alpha tested by 12 residency programs (Table 2) during that academic year. Preliminary alpha test findings indicate that PIER is effective. Release 2 is currently in development and scheduled for release in the summer of 2016. PIER's content relevance is intended to be maintained via new releases, updating the subject matter and instructional process tools for program directors and faculty to provide continuously improved informatics training to their residents while continuing to meet ACGME Informatics Milestone requirements.

#### Table 2. Pathology Informatics Essentials for

#### **Residents (PIER) Alpha Test Residency Programs**

Baystate Medical Center, Springfield, Massachusetts

Cleveland Clinic, Cleveland, Ohio

The George Washington University, Washington, DC

#### Medical University of South Carolina, Charleston

University of Buffalo, Buffalo, New York

University of Kentucky, Lexington

University of Miami, Miami, Florida

University of New Mexico, Albuquerque

University of Pittsburgh, Pittsburgh, Pennsylvania

University of Southern California, Los Angeles, California

University of Toledo, Toledo, Ohio

University of Vermont, Burlington



Steven L. Carroll, M.D., Ph.D., FASCP, FCAP

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This newsletter is made possible from the generous contributions of MUSC's Pathology and Laboratory Medicine Faculty and Staff. The success of this publication is dependent upon this support. Thank you for your interest, time and information. For inquiries, suggestions or submission information please contact Lori Roten (roten@musc.edu).

# CONGRATULATIONS!



#### GOLDEN APPLE AWARDS

#### Year 1 nominees (from Pathology):

- Dr. Sally Self
- Dr. Jerry Squires
- Dr. Debra Hazen-Martin

#### Year 2 WINNER: Dr. Nicholas Batalis

#### Year 2 nominees (from Pathology):

- Dr. Nick Batalis
- Dr. Erin Presnell
- Dr. Jerry Squires

- Dr. Adriana Olar
  passed her Molecular
  Pathology Certification
  Exam on 9/15/16
- Dr. Angelina Indira Phillips passed her Forensic
   Pathology Certification
   Exam on 9/19/16
- Dr. James Madory passed his Clinical Informatics Certification Exam on 10/14/16

#### Dr. Nicholas Batalis was the COM2 Block 9 Faculty Excellence Award Winner!



Dr. Daniel Skipper

Resident, PGY-4

received a 2nd place award for the Duel in Dermatopathology (an oral abstract competition) at the ASDP 2016 meeting

Dr. Erin Presnell was the Clinical Teaching for Block 3 Faculty Excellence Award Winner!



## **HOSPITAL SERVICE AWARD RECIPIENTS - 2016**

Display Name	Home Unit Name	Adj Svc Date	Yrs Hired State	Title
PEYTON, MELISSA ROXANNE	CYTOPATHOLOGY	8/21/2005	10	CYTOTECHNOLOGIST
GREENE, LATOSHIA DENISE	VENIPUNCTURE	6/13/2006	10	PHLEBOTOMY TECHNICIAN II
WILLIS, DEBORAH LYNN	VENIPUNCTURE	10/17/2005	10	PHLEBOTOMY TECHNICIAN II
ROBINSON, LINDA GAIL	BUSINESS & ADMINISTRATIVE OPERATION	1/8/2006	10	SUPPLY SPECIALIST III
ANDREWS, PAUL S	FAST FLOW & SATELLITE LABS	5/28/2006	10	MEDICAL TECHNOLOGIST
DOSS, JOSEPH M	FAST FLOW & SATELLITE LABS	4/2/2006	10	MEDICAL TECHNOLOGIST
FLUHARTY, CHAD THOMAS	FAST FLOW & SATELLITE LABS	10/16/2005	10	MEDICAL LAB TECHNICIAN ADVANCED
CARTER, STEPHANIE NICHOLE	CYTOGENETICS	8/7/2005	10	MEDICAL TECHNOLOGIST ADVANCED
CLAYTON, MONICA ELIZABETH	TRANSFUSION MEDICINE	8/7/2005	10	MEDICAL TECHNOLOGIST ADVANCED
HUMPHREY, MARSHA L	ART OR LAB	7/24/2005	10	MEDICAL TECHNOLOGIST
WAHL, CYNTHIA	REFERENCE & SPECIMEN REFERRAL	2/26/1996	20	MEDICAL TECHNOLOGIST ADVANCED
BROWN, VANESSA L.	LAB OUTREACH AND COURIER SERVICE	10/17/1995	20	MEDICAL TECHNOLOGIST
DRAYTON, NANCY	FAST FLOW & SATELLITE LABS	8/22/1985	30	MEDICAL TECHNOLOGIST ADVANCED
WIGGINS, CARYLEE	SPECIAL HEMATOLOGY & FLOW CYTOME- TRY	5/30/1986	30	MEDICAL TECHNOLOGIST
ANDREWS, DORINDA M.	SPECIAL CHEMISTRY AND IMMUNOLOGY	10/5/1985	30	MEDICAL TECHNOLOGIST ADVANCED
BONAPARTE, DENISE B.	BUSINESS & ADMINISTRATIVE OPERATIO	10/3/1975	40	FISCAL TECHNICIAN II
SACK, NANCY L.	LAB OUTREACH AND COURIER SERVICE	11/25/1975	40	MEDICAL TECHNOLOGIST
COUSIN, PATRICIA ANN	DIAGNOSTIC MICROBIOLOGY	5/19/1976	40	MEDICAL LAB TECHNICIAN ADVANCED

## **UNIVERSITY SERVICE AWARD RECIPIENTS - 2016**

Display Name	Home Unit Name		Yrs Hired State	Title
YUSHENG, ZHU	CLINICAL PATHOLOGY			CLINICAL CHEMISTRY LAB DIRECTOR
DONEGAN, SALLY	BUSINESS OFFICE		20	GRANTS ADMINISTRATOR
LEWIN, DAVID	ANATOMIC PATHOLOGY	10/17/2005		VICE-CHAIR FOR MEDICAL AFFAIRS, PATHOLOGY RESIDENCY PROGRAM ASSOCIATE DIRECTOR

## GRADUATE STUDIES UPDATE

#### NOVEMBER, 2016

#### Student Update

- Student Research Day
  - Jamie Mills (Ethier's lab) 2<sup>nd</sup> Place Poster Ryan Kelly (LaRue's lab) – 2<sup>nd</sup> Place Oral VA LaShardai Brown (Lang's lab) – 2<sup>nd</sup> Place Poster Lourdes Nogueira (Findlay's lab) – 2<sup>nd</sup> Place Oral
- Qualifying exam this past summer

3 students (2 pass; 1 fail)

• MS students all proposed this semester

2 pass; 1 fail

• New MS students currently rotating (3 of 5 total MS students)

Clare Burton (Findlay)

Jaime Randise (Turner)

Narges Anbardar (Turner)

PhD defense dates for the spring - TBA

#### Council News

- First year curriculum rolled out this semester
  - Feedback from students was mainly positive
- PhD first year rotations end Nov 18<sup>th</sup>; 2<sup>nd</sup> rotation starts after Thanksgiving First time each student from a rotation gives either (drawn from a hat)
  - 15 min talk
  - 3 min "no slides" FameLab presentation
  - Submits written paper
  - Presentations will be held this Friday from 13:30pm in CHP A 206
- Faculty Exposure was 'ready, willing & able' faculty only in 4 mixed poster session for 1<sup>st</sup> rotation choice
  - Lunches are underway with 15 min talks spread between departments for 2<sup>nd</sup> and are scheduled for 3<sup>rd</sup> rotations
  - Pros/cons of having a PATH program exposure in the spring?
- Proposal Format
  - 6 page NIH format for students proposing after January 1<sup>st</sup> 2017. Includes a literature review of ~3000 words to be submitted to the committee prior to the meeting date
    - Timing is submission of written material by April 15<sup>th</sup>, defend by June of the year following the qualifying exam (Year 3)
- Qualifying Exam
  - New date is by June of Year 2.
- Student defense
  - Examination student complaints
    - low attendance;
      - lack of faculty/student interest and
      - committee members not reading thesis beforehand or asking questions
  - Solutions
    - More robust; recorded?; external reviewer?; length >2-3hours
  - celebrations
    - Chair provides champagne; PI provides cake;
      - department is invited



#### Plastic, Glass, Metal

Only rigid plastics are recyclable - Recycling logo not required - Place caps back on containers - Unbroken glass containers - Steel, tin, and aluminum containers and empty, non-hazardous aerosol cans are accepted

Plastic bags cannot be recycled on campus but can be brought to most grocery stores

No Styrofoam, foods or liquids!

#### Paper -

Only dispose of confidential information in secure containers



#### (secure container)

Magazines, newspapers, and office paper - All paper on campus is shredded - For large amounts call 2-4119 for a cleanout bin

recycle@musc.edu

#### E-Waste, Toner, Batteries

E-Waste

E-waste, or electronic waste, includes TV's, computers, and other electronic items · Please call 2-4119 for a special collection of any E-waste containing confidential information · State property should go to surplus · Accumulate E-waste in a box and call (843) 792-4119 for disposal or drop off your E-waste at a drop off location: Children's Research Institute Loading Dock, Colbert Library Lobby, Main Hospital by the cafe, and Harborview Lobby

#### Toner

Toner can be recycled at numerous locations around campus - Call 2-4066 to find a toner box near you or request your own - Visit our website to start your own program through Officemax: musc.edu/gogreen and look under 'WasteManagement'

#### Batteries

Call 2-4119 to request a battery bin (pictured below) Batteries can be recycled at drop off locations: Colbert Library Lobby and Main Hospital by the cafe



#### Cardboard

Please flatten cardboard & paperboard and place next to your trash/landfill bin · Cardboard is baled and recycled separately by housekeeping · Empty glove boxes, paper towel rolls, corrugated and non-corrugated cardboard, clean food boxes (cereal boxes, microwave meal boxes)

#### — Trash / Landfill —

The landfill bin is for items that cannot be recycled or composted · Examples are Styrofoam containers, gloves, to-go coffee cups (unless specified as compostable),

and plastic bags

#### Compost ·

To further reduce landfilled waste at MUSC, we are piloting our first public compost bin located in the Urban Farm at 29½ Bee St.

The compost bin is for food scraps, compostable containers, and paper products

#### ······ Contact ·····

Request recycling services through the helpdesk (843) 792-4119

For more information visit musc.edu/gogreen

Printed on 100 % Post-Consumer Content, FSC Certified, Processed Chlorine free

(843) 792 4066



## RESEARCH DIVISION UPDATE

Statistics for the Division of Research from July through December. Twenty four grant proposals were submitted requesting \$5,818,686 in total first year costs. Also, during this period three grant was awarded totaling \$277,726. Congratulations and many thanks to everyone involved in obtaining these awards.

#### Bradley Schulte, Ph.D., Vice Chair of Research

	GRANT APPLICATIONS SUBMITTED - 7/1/2016-12/31/2016						
Principal Investigator	Investigator Proposed Start Date Title		Total 1st YR Dollars				
Cheung, Hiu	7/1/2017	Targeting GAB2 oncogene in high-grade serous ovarian cancer	\$371,478				
Ethier, Stephen	9/1/2017	Oncogenic Signaling in Basal Type Breast Cancer	\$371,416				
Fan, Hongkuan	10/11/2016	Studies of Mechanism of the beneficial effects of sNAG and sNAG- miRNA complexes in murine sepsis induced by Cecal Ligation Punc- ture	\$42,350				
Findlay, Victoria	7/1/2017	The functional role of microRNA-204 in lactation outcomes	\$368,879				
Guest, Stephen	9/1/2017	Novel BH3 mimetic-based therapeutic strategies for the treatment of breast cancer	\$369,570				
Lang, Hainan	7/1/2017	Auditory Nerve Denegeration & Repair	\$371,341				
LaRue, Amanda	8/1/2017	Targeting Novel DDR2-Expressing Cellular Subsets in Pulmonary Fibrosis	\$215,020				
Mehrotra, Meenal	7/1/2017	Role of Hematopoietic Stem Cell-dervied Osteoblasts in Osteosar- coma Progression	\$74,750				
Puligilla, Chandrakala	9/1/2017	Molecular Regulation of Sensory Epithelial Cell Patterning in the Mouse inner ear	\$371,416				
Sha, Suhua	9/1/2017	Nucleobase Amino Sugars with Reduced Ototoxicity	\$74,750				
Smits, Bart	7/1/2017	Targeting of p27+ luminal progenitors for breast cancer prevention	\$450,000				
Smits, Bart	7/1/2017	Targeting of p27+ luminal progenitors for breast cancer prevention	\$150,000				
Spyropoulos, Demetri	4/1/2017	The Obesogenic Potential of DOSS: a Novel Approach to Managing Neonatal Obesity	\$373,750				
Spyropoulos, Demetri	7/1/2017	Impact of the Emerging Obesogen Colace on Breast Milk Composi- tion and Infant Obesity	\$373,750				
Turner, David	4/1/2017	PC160245: The Molecular Implications of Lifestyle Associated Me- tabolites (AGEs) to Prostate Cancer Disparity	\$290,609				
Turner, David	6/1/2017	Identifying A Novel And Modifiable Prognostic Biomaker in Breast Cancer	\$23,189				
Turner, David	7/1/2017	Establishing Health Eating at Diagnosis: A Dietary Intervention for Women Receiving Chemotherapy for Triple Negative Breast Cancer	\$8,807				
Turner, David	6/1/2017	AGE Metabolites as a unifying biological mechanism linking lifestyle, metabolism and cancer disparity	\$363,850				
Turner, David	6/1/2017	Pharmacological inhibition of lifestyle-linked metabolites in breast cancer	\$188,595				
Wang, Qi	1/1/2017	In vivo tracking of dormancy and remerge of HER2 positive breast cancer cells	\$35,000				
Wang, Qi	8/1/2017	Targeting CDK7 in therapeutically recalcitrant HER2+ Breast Cancer	\$150,000				
Wang, Gavin	4/1/2017	Therapy-Induced Cancer Stem Cell Enrichment	\$373,750				
Wang, Gavin	4/1/2017	Targeting MYC for Breast Cancer Treatment	\$371,416				
Xiong, Ying	1/1/2017	Role of Pim Protein kinase in gastric cancer growth and metastasis	\$35,000				
Total Proposals	24		\$5,818,686				
		GRANTS AWARDED - 7/1/2016-12/31/2016					
Carroll, Steven	6/1/2016	Stereologic of the Cellular Composition of Neurofibromas	\$96,507				
Fan, Hongkuan	10/11/2016	Studies of the mechanism of the beneficial effects of sNAH and sNAGmiRNA complexes in murine sepsis induced by Cecal Ligation Puncture	\$42,350				
Turner, David	7/1/2016	The Generation of Clinically Annotated and Molecularly Character- ized PDX Animal Nodes from Racially and Ethically Diverse Prostate Cancer Tissue	\$138,869				
Totals Awarded	3		\$277,726				

## FAREWELL DROP-IN OCTOBER 21, 2016



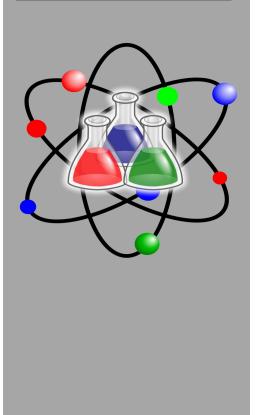
Yusheng Zhu, Ph.D., DABCC, FACB









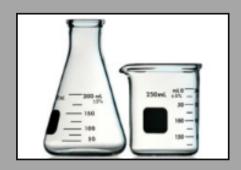


## FAREWELL DROP-IN

**DECEMBER 15, 2016** 



Omar Moussa, Ph.D.











#### **NEW HIRES**:

Ruosha Lai
 Visiting Postdoc
 Start Date: 10/3/16
 in Dr. Sha's Lab

#### **SEPARATED:**

- Hui Li
  Visiting Scholar
  Left Dr. Lang's Lab
  on 11/3/16
- Aimin Yang RG/RSI Left Dr. Gavin Wang's Lab on 11/18/16
- Danzell Smith
  Graduate Assistant
  Left Dr. Turner's Lab
  on 12/1/16
- Mauhamad Baarine
  Postdoc
  Left Dr. Singh's Lab
  on 12/31/16
- Theresa Cantu Graduate Assistant Left Dr. Spyropoulos' Lab on 12/31/16
- Alex Temkin
  Graduate Assistant
  Left Dr. Spyropoulos'
  Lab on 12/31/16



CONGRATULATIONS! Dr. Julie Hirschhorn & her husband! Henry Hirschhorn Born on August 31, 2016 8 lbs. 5 oz. & 21 inches long









#### Article on Somatic Variant Interpretation Guidelines Published in The Journal of Molecular Diagnostics Vol., 19, No.1 January 2017

Click link to view: https://www.clinicalkey.com/#!/content/playContent/1-s2.0-S1525157816302239

J Mol Diagn. 2017 Jan;19(1):4-23. doi: 10.1016/j.jmoldx.2016.10.002.

Standards and Guidelines for the Interpretation and Reporting of Sequence Variants in Cancer: A Joint Consensus Recommendation of the Association for Molecular Pathology, American Society of Clinical Oncology, and College of American Pathologists.

Li MM1, Datto M2, Duncavage EJ3, Kulkarni S4, Lindeman NI5, Roy S6, Tsimberidou AM7, Vnencak-Jones CL8, **Wolff DJ9**, Younes A10, Nikiforova MN6.

#### Abstract

Widespread clinical laboratory implementation of next-generation sequencing-based cancer testing has highlighted the importance and potential benefits of standardizing the interpretation and reporting of molecular results among laboratories. A multidisciplinary working group tasked to assess the current status of next-generation sequencing-based cancer testing and establish standardized consensus classification, annotation, interpretation, and reporting conventions for somatic sequence variants was convened by the Association for Molecular Pathology with liaison representation from the American College of Medical Genetics and Genomics, American Society of Clinical Oncology, and College of American Pathologists. On the basis of the results of professional surveys, literature review, and the Working Group's subject matter expert consensus, a four-tiered system to categorize somatic sequence variations based on their clinical significances is proposed: tier I, variants with strong clinical significance; tier II, variants with potential clinical significance; tier III, variants of unknown clinical significance; and tier IV, variants deemed benign or likely benign. Cancer genomics is a rapidly evolving field; therefore, the clinical significance of any variant in therapy, diagnosis, or prognosis should be reevaluated on an ongoing basis. Reporting of genomic variants should follow standard nomenclature, with testing method and limitations clearly described. Clinical recommendations should be concise and correlate with histological and clinical findings.

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PMID: 27993330

DOI: 10.1016/j.jmoldx.2016.10.002

[PubMed - in process]



• USCAP 2017 March 4-10, 2017, San Antonio, Texas

• Next All Hands Meeting March 15, 2017 in HCC Room 120

• Pathology Spring Symposia April 4-8, 2017, Kiawah Island

## UPCOMING MEETINGS

#### MUSC Department of Pathology & Laboratory Medicine Mission Statement:

To serve patients, health care providers, research scientists, scholars, and society by providing excellence and innovation in diagnostic services and educational resources in a respectful, professional and culturally diverse atmosphere.

#### Vision:

To become a preeminent leader in academic anatomic and clinical pathology while translating basic science discovery to improved clinical care.

### www.musc.edu/pathology