

News from the University of Kansas Medical Center

DEPARTMENT OF PATHOLOGY & LABORATORY MEDICINE



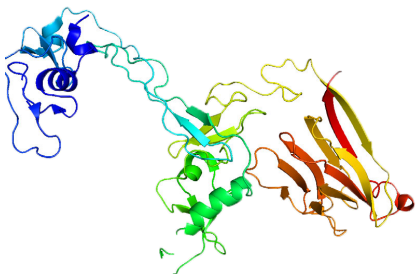
WINTER ISSUE 2021

22 February 2021

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Read the Chair's message
online:
[kumc.edu/school-of-
medicine/pathology](http://kumc.edu/school-of-medicine/pathology)



COVID-19 RESPONSE

We surpassed 150,000 KU performed COVID tests just before the new year!

ADAMTS13 TESTING

The Department will soon be conducting in-house ADAMTS13 testing, through the expertise of Dr. Zheng's Special Coagulation Laboratory, a CLIA-certified laboratory. Testing of plasma DMTS13 is important for diagnosis and management of thrombotic thrombocytopenic purpura (TTP). With Dr. Zheng's arrival, KUMC has become the national center for the diagnosis and management of this rare, but potentially fatal disorder.

FACULTY RECRUITING

Faculty recruiting efforts are ongoing to meet increasing demands of our departmental mission by actively recruiting in areas of need. We're happy to report that we will be onboarding three additional new clinical faculty in July.

Daffolyn Rachael Fels Elliott, MD PhD is joining us on July 1, from the University of Michigan where she is completing a Thoracic Pathology Fellowship. She also completed a Gastrointestinal/Liver Pathology Fellowship at the University of California, San Francisco, CA.

Devin Shrock, M.D. is finishing a Cytopathology Fellowship at the University of Iowa Hospitals and Clinics where she completed her Surgical Pathology Fellowship last year. She will join us on July 12.

Jasmeet S. Assi, M.D. is joining us on August 23, from the University of Pennsylvania where he is completing a Breast Pathology Fellowship. He also completed a Cytopathology Fellowship at MD Anderson Cancer Center, Houston, TX.

We continue to recruit for faculty positions in anatomic and clinical pathology, molecular pathology and translational research. We hope to have more announcements in the months to come.

CONGRATULATIONS

In recognition of their crucial contributions during Covid-19 challenges, **Rachael Liesman, PhD** and **Marissa Larson** were awarded tickets to Super Bowl LV, Tampa Bay, Florida.

FACULTY NEWS

ACKNOWLEDGEMENTS

WEI CUI, M.D.

Associate Professor, has been selected to serve a three-year term on the Education Committee of the International Clinical Cytometry Society (ICSS).

cytometry.org/web/education.php

KATIE L. DENNIS, M.D.

Associate Professor, has been named Interim Director, Cytopathology Fellowship.

This important role trains two academically oriented cytopathologists each year in advanced diagnostic cytopathology and the performance of FNAs.

We appreciate Dr. Dennis' willingness to take on this new role, in addition to her directorship of the residency program and clinical duties.

FANG FAN, M.D., PH.D.

Dr. Fan resigned her position, effective January 31, 2021 to join the faculty at City of Hope Cancer Center in Duarte, California. We thank Dr. Fan for her long-term contribution as Interim Chair of the Department of Pathology and Laboratory Medicine and Director of Cytology Fellowship. We wish her the best in her new position.

NIKA C. GLOYESKE, M.D.

Clinical Assistant Professor, has been named Section Director of Breast Pathology under the Division of Anatomic Pathology.

Dr. Gloyeske received her residency training in the combined program of Anatomic and Clinical Pathology at University of Kansas Medical Center, followed by a Breast and OB/GYN Fellowship at University of Pittsburgh Medical Center.

Dr. Gloyeske has been practicing in surgical pathology, specializing in breast and GYN pathology for more than seven years and is an emerging leader in the field as a clinician and educator. She will continue to advance our departmental mission of clinical excellence, medical education and clinical research, as well as community outreach.

RACHAEL F. LIESMAN, PH.D.

Clinical Assistant Professor and Director of Microbiology, was recently interviewed for an article by DARK Daily.

“[DARK Daily](#) is a concise e-news/management briefing on timely topics in clinical laboratory and anatomic pathology group management”

Dr. Liesman shared lessons learned from assessing pooled testing for Covid-19 patients and why it was deemed “less than ideal” for our microbiology laboratory. See the complete article here - darkdaily.com/university-of-kansas-health-system-laboratory-shares-lessons-from-assessing-pooled-testing-for-covid-19-patients/

MAURA F. O'NEIL, M.D.

Associate Professor, has been named Interim Cytopathology Laboratory Director.

We appreciate her willingness to take on this new role on top of her other busy clinical responsibilities.

Dr. O'Neil completed her medical, residency and Cytopathology Fellowship training here at University of Kansas Medical Center.

Learn more about members of our department: kumc.edu/school-of-medicine/pathology



TRAINEE NEWS



Katie L. Dennis, M.D.
Residency Program Director
Associate Professor

The Residency Program is proud to announce the fellowship placements of our current fourth year and third year residents, as well as recruitment efforts.

FELLOWSHIPS

Dr. Keenan Hogan

2021: CYTOPATHOLOGY
UNIVERSITY OF KANSAS

2022: TRANSFUSION MEDICINE
UNIVERSITY OF KANSAS

Dr. Irfan Khan

2021: ONCOLOGIC SURGICAL PATHOLOGY
MEMORIAL SLOAN KETTERING

Dr. Raquele Laury

2021: CYTOPATHOLOGY
UNIVERSITY OF KANSAS

2022/23: SURGICAL PATHOLOGY
& GI PATHOLOGY
MEMORIAL SLOAN KETTERING

Dr. Azhar Saeed

2021: MOLECULAR PATHOLOGY
UNIVERSITY OF MINNESOTA

2022: GI PATHOLOGY
UNIVERSITY OF UTAH

Dr. Rakesh Sethapati

2021: HEMATOPATHOLOGY
CITY OF HOPE

Dr. Anna Heimes Dillon

2022: HEMATOPATHOLOGY
UNIVERSITY OF KANSAS

2023: CYTOPATHOLOGY
UNIVERSITY OF KANSAS

Dr. Linlin Gao

2022: CYTOPATHOLOGY
UNIVERSITY OF KANSAS

2023: HEMATOPATHOLOGY
UNIVERSITY OF KANSAS

Dr. Brent Harbaugh

2022: HEMATOPATHOLOGY
UNIVERSITY OF NEBRASKA

Dr. Andrew Ly

2022: CYTOPATHOLOGY
UNIVERSITY OF KANSAS

Dr. Paul McGowan

2022: FORENSIC PATHOLOGY
UNIVERSITY OF MIAMI

RECRUITMENT

In Fall 2020, the Department's AP/CP Residency Program received more than 500 applications from prospective PGY1 candidates through ERAS - the electronic residency application service. Of that number, about 10 percent were interviewed virtually via Zoom by faculty and chief residents in November and December 2020 and January 2021.

A rank list of all interviewed candidates will be finalized by the end of February 2021 with match results shared with the program on national Match Day - Friday, March 19, 2021.



RESEARCH & SCHOLARLY ACTIVITIES

GRANTS

SUSHANTA K. BANERJEE, PH.D.

CCN5 Therapy for Triple Negative Breast Cancer

VA Medical Center, National Institute of Health
\$332,884 annually; 10/1/19–9/3/23

SNIGDHA BANERJEE, PH.D.

Role of Cyr61/CCN1 in Pancreatic Cancer Progression and Therapy

VA Medical Center, National Institute of Health
\$321,661 annually; 10/1/20–9/1/24

TIMOTHY FIELDS, PH.D.

DFMO Therapy for Polycystic Kidney Disease

National Institute of Health/Resilio Therapeutics, LLC
120,055; 09/1/20–08/13/21

JAY VIVIAN, PH.D.

Platforms for the Identification and Validation of Candidate Small Molecule Treatments for TBCK Syndrome

2020 Million Dollar Bike Ride Pilot Grant
The Orphan Disease Center, \$50,600

KEY PRESENTATION

X. LONG ZHENG, M.D., PH.D.

Von Willebrand Factor: Friend or Foe?

Live Webinar on Jan 26, 2021

- Sponsored by BioMedica, Inc., and CME-accredited.
- 235 attendees from all over the world including Europe, North America and Australia. There were 7 KUMC attendees.
- It was well received and generated about 60 questions, of which 10 were answered due to time constraints.

PUBLICATIONS & ABSTRACTS

SNIGDHA BANERJEE, PH.D. & SUSHANTA K. BANERJEE, PH.D.

pH-Sensitive Nanodrug Carriers for Codelivery of ERK Inhibitor and Gemcitabine Enhance the Inhibition of Tumor Growth in Pancreatic Cancer

Ray P, et al. *Mol Pharm.* 2021 Jan 4;18(1):87-100. Nov 24. PMID: 33231464

TODD BRADLEY, M.D.

A Prognostic Gene Signature for Predicting Survival Outcome in Diffuse Large B-cell Lymphoma

Khanal S, Bradley T., *Cancer Genet.* 2021 Jan 13;252-253:87-95. Epub ahead of print. PMID: 33486462

XIUXU CHEN, M.D., PH.D., WEI CUI, M.D. & DA ZHANG, M.D., MSC

Increased Immature T-cells Detected by Flow Cytometry in Post Chemotherapeutic Patients with Acute Myeloid Leukemia, A Case Report and Small Series Study

Chen X, et al. *Am J Blood Res.* 2020 Dec 15;10(6):351-354. PMID: 33489444; PMCID: PMC7811906

WEI CUI, M.D.

Function and Role of p53 in Hematologic Malignancies (Chapter 1.). P53: Structure, Functions and Role in Disease

Monte Stevens (Editor), *Nova Science Publishers*, 2020 Nov 6.

MARK CUNNINGHAM, M.D., FRED V. PLAPP, M.D., PH.D.

Acquired Factor V Inhibitor in the Setting of Coronavirus Disease 2019 Infection

Bennett J, et al. *Blood Coagul Fibrinolysis.* 2021 Jan 12. Epub ahead of print. PMID: 33443928

FANG FAN, M.D., PH.D.

The Utility of Intraoperative Retroareolar Margin Frozen Section Assessment and the Management of Atypical Epithelial Proliferative Lesions at the Retroareolar Margin in Nipple-sparing Mastectomies

Hogan KO, et al. *Ann Diagn Pathol.* 2021 Jan 4;51:151697. Epub ahead of print. PMID: 33444902



LINLIN GAO, MBBS, AZHAR SAEED M.D., SHIVANI GOLEM, PH.D., DA ZHANG, M.D., JANET WOODROOF, M.D., JOSEPH MCGUIRK, D.O. & WEI CUI, M.D.

High-level MYC Expression Associates with Poor Survival in Patients with Acute Myeloid Leukemia and Collaborates with Overexpressed p53 in Leukemic Transformation in Patients with Myelodysplastic Syndrome

Gao, et al. *Int J Lab Hematol.* 2021 Feb;43(1):99-109. Epub 2020 Aug 19. PMID: 32812335

ANDREW K. GODWIN, PH.D.

Downregulation of miR-506 Facilitates EGFR-TKI Resistance Through Induction of Sonic Hedgehog Signaling in Non-Small Lung Cancer Cell Line

Haque, I., et al. *International Journal of Molecular Sciences.* December 6, 2020, 21(23),9307

Assessing Prognosis after Neoadjuvant Therapy: A Comparison Between Anatomic ypAJCC Staging, Residual Cancer Burden Class and Neo-Bioscore

van der Noordaa M, et al. *San Antonio Breast Cancer Symposium*, December 11, 2020 (virtual).

Classification of Triple Negative Breast Cancer (TNBC) by DNA Damage Immune Response (DDIR) Signature and Homologous Recombination Deficiency (HRD) Status: Analysis of SWOG S9313 Adjuvant Trial

Stecklein SR, et al. *San Antonio Breast Cancer Symposium*, December 10, 2020 (virtual).

Evaluating Serum Thymidine Kinase 1 in Hormone Receptor Positive Metastatic Breast Cancer Patients Receiving First Line Endocrine Therapy in the SWOG S0226 Trial

Paoletti C, et al. *San Antonio Breast Cancer Symposium*, December 9, 2020 (virtual)

Impact of Low Versus Negative Estrogen/Progesterone Receptor Status on Clinico-Pathologic Characteristics and Survival Outcomes in HER2 Negative Breast Cancer

Yoder R, et al. *San Antonio Breast Cancer Symposium*, December 9, 2020 (virtual).

Integrated Exosomes Profiling for Minimally Invasive Diagnosis and Monitoring of Cancer (R33)

Zeng Y, et al. *NCI Innovative Molecular Analysis Technologies.* Annual PI Meeting, December 2nd-4th, 2020 (virtual)

Mouse-intraductal (MIND): The First In Vivo Model to Recapitulate the Full Spectrum of Human DCIS Pathology

Behbod F, et al. *San Antonio Breast Cancer Symposium*, December 10, 2020 (virtual).

Overall Survival Based on MSI and BRAF Mutation status for Stage II/II Colorectal Cancer

Karki S, et al. *ASCO Gastrointestinal Cancers Symposium*, January 15th-17th

Site of Recurrence After Neoadjuvant Therapy: A Multi-center Pooled Analysis

Shad S, et al. *San Antonio Breast Cancer Symposium*, December 11, 2020 (virtual)

Therapeutically Relevant Classification of Triple Negative Breast Cancer (TNBC) by DNA Damage Immune Response (DDIR) Gene Signature and Homologous Recombination Deficiency (HRD) Status, Analysis of the SWOG S9313 Adjuvant Trial

Stecklein S R, et al. *San Antonio Breast Cancer Symposium*, December 8th-12th, 2020, San Antonio, Texas (accepted for oral slide presentation)

KHURSHEED IQBAL, PH.D., PATRICK E. FIELDS, PH.D. & MICHAEL SOARES, PH.D

Protective Role of IL33 Signaling in Negative Pregnancy Outcomes Associated with Lipopolysaccharide Exposure

Kozai K, et al. *FASEB J.* 2021 Feb;35(2):e21272. PMID: 33423320

KHURSHEED IQBAL, PH.D., & MICHAEL SOARES, PH.D

Catechol-O-methyltransferase and Pregnancy Outcome: An Appraisal in Rat

Iqbal K, et al. *Reprod Sci.* 2021 Feb;28(2):462-469. pub 2020 Oct 13. PMID: 33048315.

SATB1 Promotion of Trophoblast Stem Cell Renewal Through Regulation of Threonine Dehydrogenase

Kubota, et al. *Int J Lab Hematol.* 2021 Feb;43(1):99-109. Epub 2020 Aug 19. PMID: 32812335

ROY A. JENSEN, M.D.

Preclinical Evaluation of Gilteritinib on NPM1-ALK Driven Anaplastic Large Cell Lymphoma Cells

Kuravi S, et al. *Molecular cancer research: MCR, molcanres.*0738.2020. Jan 29, 2021. Epub ahead of print. PMID: 33514657

SHARAD C. MATHUR, M.D.

Forkhead Box F1 Induces Columnar Phenotype and Epithelial-to-mesenchymal Transition in Esophageal Squamous Cells to Initiate Barrett's Like Metaplasia

De A, et al. *Lab Invest.* 2021 Jan 25. Epub ahead of print. PMID: 33495575



JAY E. MENITOVE, M.D.

Seroprevalence of Heartland Virus Antibodies in Blood Donors, Northwestern Missouri, USA

Lindsey NP, et al. *Emerging Infectious Diseases* 2019; 25:358-60.

Transfusion Medicine (Chapter 36). Concise Guide to Hematology, 2nd Edition

Storch EK, et al. *Lazarus HM and Schmaier AH* (editors) Springer, 2019 pp 463-86.

Red Cell Transfusion Therapy in Anemia (Chapter 2). In Marques MB, Schwartz Y, Wu Y (eds.) Transfusion Therapy: Clinical Principles and Practice (4th Edition)

Burns CD, et al. *AABB Press*, Bethesda MD, 2019 pp 29-64.

Review of Current Transfusion Therapy and Blood Banking Practices

Storch E, et al. *Blood Reviews* 2019; 38:100593

Strategic Issues Currently Cacing the US Blood System

Fredrick J, et al. *Transfusion* 2020; 60:1093-96

Inflection Points (Editorial)

Menitove J, Kaufman R. *Transfusion* 2020; 60: 2463

MAURA F. O'NEIL, M.D.

Suppression of Pancreatic Cancer Liver Metastasis by Secretion-deficient ITIH5

Young E, et al. *Br J Cancer*. 2021 Jan;124(1):166-175. Epub 2020 Oct 7. PMID: 33024269; PMCID: PMC7782545

M.A. KARIM RUMI, MBBS, PH.D.

ER β Regulated Ovarian Kisspeptin Plays an Important Role in Oocyte Maturation

Chakravarthi VP, et al. *Molecular and Cellular Endocrinology*. MCE-D-20-00488R1 (February 02, 2021, accepted for publication).

MICHAEL WASHBURN, PH.D.

Harnessing Ionic Selectivity in Acetyltransferase Chemoproteomic Probes

Jing Y, et al. *ACS Chem Biol*. 2021Jan 15;16(1):27-34. Epub 2020 Dec 29. PMID: 33373188

Yeast Nuak1 Phosphorylates Histone H3 Threonine 11 in Low Glucose Stress by the Cooperation of AMPK and CK2 Signaling

Oh S, et al. *Elife*. 2020 Dec 29;9:e64588. PMID: 33372657; PMCID: PMC7781599.

The Plasticity of the Pyruvate Dehydrogenase Complex Confers a Labile Structure that is Associated with Its Catalytic Activity

Lee J, et al. *PLoS One*. 2020 Dec 28;15(12):e0243489. PMID: 33370314; PMCID: PMC7769281.

Driving Integrative Structural Modeling with Serial Capture Affinity Purification

Liu X, et al. *Proc Natl Acad Sci U S A*. 2020 Dec 15;117(50):31861-31870. Epub 2020 Nov 30. PMID: 33257578; PMCID: PMC7749342.

Generating Topological Protein Interaction Scores and Data Visualization with TopS

Sardiu ME, et al. *Methods*. 2020 Dec 1;184:13-18. Epub 2019 Aug 30. PMID: 31476375; PMCID: PMC7048650.

Dynamic RNA Acetylation Revealed by Quantitative Cross-evolutionary Mapping

Sas-Chen A, et al. *Nature*. 2020 Jul;583(7817):638-643. Epub 2020 Jun 17. PMID: 32555463.

NRBP1-Containing CRL2/CRL4A Regulates Amyloid β Production by Targeting BRI2 and BRI3 for Degradation

Yasukawa T, et al. *Cell Rep*. 2020 Mar 10;30(10):3478-3491.e6. PMID: 32160551

JANET WOODROOF, M.D.

Colorectal Adenocarcinoma Presenting with Isolated Metastasis to the Cortical Bone and Bone Marrow: A Case Report and Review of the Literature

Ripp J, et al. *Clin Colorectal Cancer*. 2021 Jan 5:S1533-0028(20)30172-9. Epub ahead of print. PMID: 33436305

X. LONG ZHENG, M.D., PH.D.

Cerebral Infarction in Immune Thrombotic Thrombocytopenic Purpura Is Associated with Old Age, Hypertension, Smoking, and Anti-ADAMTS13 Ig, But Not with Mortality

Memon R, Sui J, Lin C, Zheng XL. *TH Open*. 2021 Jan 13;5(1):e1-e7. eCollection 2021 Jan. PMID: 33458563 Free PMC article.

Identification of Biomarkers in Patients with Thrombotic Thrombocytopenic Purpura Presenting with Large and Small Ischemic Stroke

Lin C, et al. *Cerebrovasc Dis Extra*. 2021 Feb 18;11(1):29-36. doi: 10.1159/000513574. Online ahead of print. PMID: 33601375



UPCOMING EVENTS

INSTITUTE FOR REPRODUCTION AND PERINATAL RESEARCH SEMINAR SERIES

MARCH 4, 2021 | TIME TBA | ZOOM

Hormone regulation of breast cancer heterogeneity
*Carol Sartorius, Ph.D., University of Colorado
Anschutz Medical Campus*

MARCH 11, 2021 | TIME TBA | ZOOM

Studying formation of the trophoblast and epiblast
epigenomes using cell culture models
William Pastor, Ph.D., McGill University

APRIL 15, 2021 | TIME TBA | ZOOM

TBA: *Rachel Schiff, Ph.D., Baylor University*

APRIL 22, 2021 | TIME TBA | ZOOM

TBA: *Paola Vermeer, Ph.D., Sanford Health*

MAY 6, 2021 | TIME TBA | ZOOM

TBA: *Terry Magnuson, Ph.D., University of North
Carolina*

MAY 20, 2021 | TIME TBA | ZOOM

TBA: *John M. Perry, Ph.D., Children's Mercy Hospital*

For more information visit:

[kumc.edu/school-of-medicine/irpr/events/
seminar-series](http://kumc.edu/school-of-medicine/irpr/events/seminar-series)

To register and receive Zoom details email Brandi
Miller at bmiller5@kumc.edu.

SEP
3-4
2021

SAVE THE
DATE

ANNUAL DIAGNOSTIC
UPDATES IN PATHOLOGY

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To receive more
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Sonora Thigpen at
sthigpen2@kumc.edu



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