

News from the University of Kansas Medical Center

DEPARTMENT OF PATHOLOGY & LABORATORY MEDICINE



SPRING 2021

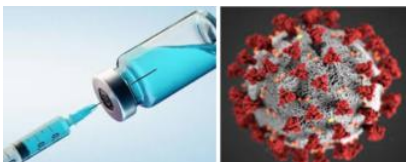
15 May 2021

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Read the Chair's message
online:

[kumc.edu/school-of-medicine/
pathology](http://kumc.edu/school-of-medicine/pathology)



FACULTY NEWS

Please join us in congratulating Dr. Wei Cui on her promotion to Professor, effective July 1, 2021!

TRAINEE NEWS

WE MATCHED! The AP/CP Residency Program matched all four, PGY1 residency spots for the 2021/2022 academic year (July 1, 2021). Our new trainees are:



MARYAM ABDO, MBCHB

Tanta University Faculty
of Medicine, Egypt



SARAH CAIN, D.O.

Pacific Northwest University
of Health Sciences College of
Osteopathic Medicine



ISSA AL-KHAROUF, M.D.

University of Debrecen
Medical School and Health
Science Centre, Hungary



MOLLY WALKENHORST, D.O.

A.T. Still University of Health
Sciences Kirksville College of
Osteopathic Medicine

LEADERSHIP

DEPARTMENT LEADERSHIP

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

Professor

Russell J. Eilers, MD Endowed Chair;
Clinical Service Chief

TIMOTHY A. FIELDS, M.D., PH.D.

Professor

Vice Chair for Research and Faculty
Development; Director, Medical Scientist
Training Program (MSTP)

ANDREW K. GODWIN, PH.D.

Professor

Division Director, Genomic Diagnostics

SOUMEN PAUL, PH.D.

Professor

Director, Pathology Graduate Studies
Program; Director, Center for Perinatal
Research Institute for Reproduction and
Perinatal Research (IRPR)

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

Professor

Executive Vice Chair for Clinical Affairs;
Medical Director, Clinical Laboratories

JANET WOODROOF, M.D.

Clinical Professor

Division Director, Anatomic Pathology;
Director, Quality in Anatomic Pathology

TRAINING PROGRAMS

KATIE L. DENNIS, M.D.

Associate Professor

Director, AP/CP Residency Program;
Director, Cytopathology Fellowship

SARAH KELTING, M.D.

Clinical Assistant Professor

Associate Director,
Cytopathology Fellowship

SHARAD C. MATHUR, M.D.

Volunteer Professor

Associate Director,
AP/CP Residency Program

JAMIE L. PORTER, M.D.

Volunteer Assistant Professor

Associate Director,
AP/CP Residency Program

DA ZHANG, M.D., MSC

Professor

Director, Hematopathology
Fellowship

RASHNA MADAN, MBBS

Professor

Director, Surgical Pathology Fellowship;
Director, Post-Sophomore Fellowship

Learn more about members of our department:
[kumc.edu/school-of-medicine/pathology/
faculty-and-staff.html](http://kumc.edu/school-of-medicine/pathology/faculty-and-staff.html)



RESEARCH & SCHOLARLY ACTIVITIES

GRANTS

NIKKI CHENG, PH.D.

Progression of DCIS to Invasive Breast Cancer Through CCR2 Chemokine Signaling

NIH, National Cancer Institute
\$419,545 (FY 21)
Project dates: 9/1/13-5/31/25

ANDREW K. GODWIN, PH.D.

Extracellular Vesicle Proteomic Fingerprinting of Ovarian Cancer for Early Detection with a Nanoengineered Microsystem

NIH, National Cancer Institute
\$655,455 (FY 21)
Project dates: 4/1/21-3/31/26

In Vivo Drug Efficacy for the Combination of VIC-1911 and Olaparib in Ovarian Cancer Models

VITRAC Therapeutics, LLC
\$72,846 (FY 21)
Project dates: 2/1/21-4/30/21

MICHAEL J. SOARES, PH.D.

Trophoblast-Uterine Cell Dynamics at The Maternal-Fetal Interface

NICHD (FY 21) \$276,265
Project dates: 9/22/20-8/31/22

Trophoblast Differentiation

NICHD (FY 21) \$462,534
Project dates: 7/1/86-4/30/22

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

Novel Therapeutics for Acquired Thrombotic Thrombocytopenic Purpura

NIH, National Heart, Lung, and Blood Institute
\$457,707 (FY 21)
Project dates: 4/1/19-3/31/23

BOOK CHAPTER

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

Chapter 129: Hemolytic Uremic Syndrome

10th edition of Williams Hematology
accessmedicine.mhmedical.com/content.aspx?bookid=2962§ionid=252538973

DISSERTATION DEFENSE

DIANA ACEVEDO, PH.D. CANDIDATE

CCL2/CCR2 Chemokine Signaling Modulates Ductal Breast Cancer Progression by Enhancing Glycolysis and c-MET activation - 4/27/21

MITCHELL W. BRAUN, PH.D. CANDIDATE

Tumor Infiltrating Lymphocyte Therapy for RCC: Methods for Ex Vivo Expansion and T-cell Memory Induction - 4/27/21

FELLOWSHIP AWARDS

ESTEBAN DOMINGUEZ, DVM, PH.D. (SOARES LAB)

TFAP2C, Trophoblast Cell Differentiation, and Placentation
2021 Lalor Foundation Postdoctoral Fellowship \$55,000; 6/1/2021-5/31/2022.

KUMC Biomedical Research Training Program (BRTP)
Award Recipient - \$13,000

ANANYA GHOSH, M.SC, PH.D. CANDIDATE (PAUL LAB)

KUMC Biomedical Research Training Program (BRTP)
Award Recipient - \$13,000

PRESENTATIONS

ANDREW K. GODWIN, PH.D.

BIGGSteps Scientific Update – COVID-19 Pandemic and Cancer Risk Assessment
BIGGSteps board virtual meeting. 2021 Feb 8.

Tumor Associated Extracellular Vesicles: Biomarkers for Early Detection and Disease Monitoring
Kansas City VA Life Science Seminar (virtual) and the Douglas H. McGregor Memorial Lecture. 2021 Feb 18.

Advancing Precision Medicine at the University of Kansas
Novartis Oncology/University of Kansas Cancer Center Senior Medical Leadership virtual meeting. 2021 Feb 26.

Tina's Wish Research Roundtable

Tina's Wish for Early Detection of Ovarian Cancer virtual meeting. 2021 Mar 25.



JANET WOODROOF, M.D.

Primary Splenic Hemangiosarcoma: An Unusual Diagnosis with Astounding

Bennett J, et al., Case Presentation. Kansas Journal of Medicine Vol. 14, 2021; Supplement 1. Abstracts from the 2020 Annual Meeting and Virtual Conference. Kansas Chapter of the American College of Physicians

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

Coagulopathies in Patients with Severe COVID-19

American Society for Clinical Laboratory Science Kansas Chapter. Virtual ASCLS KS "Educates" Virtual Meeting. 2021 Apr 22.

Diagnosis and Management of Thrombotic Microangiopathy, What is New?

Autoimmune Renal Disease Forum, Beijing. Virtual Meeting. 2021 Mar 25.

PUBLICATIONS

NAVEEN S. ANDRAWS, M.D., FCAP, RACHEL CHERIAN, M.D., & SHARAD C. MATHUR, M.D.

Interobserver Agreement Among Pathologists in the Differentiation of Sessile Serrated From Hyperplastic Polyps

Vennelaganti S, et al., Gastroenterology. 2021 Jan;160(1):452-454.e1. doi: 10.1053/j.gastro.2020.09.015. Epub 2020 Sep 18. PMID: 32950521.

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

CCN5 Activation by Free or Encapsulated EGCG is Required to Render Triple-negative Breast Cancer Cell Viability and Tumor Progression.

Das A, et al., Pharmacol Res Perspect. 2021 Apr;9(2):e00753. doi: 10.1002/prp2.753. PMID: 33745223; PMCID: PMC7981588.

V. PRAVEEN CHAKRAVARTHI, PH.D., M.A.K. RUMI, PH.D., & MICHAEL W. WOLFE, PH.D.

Granulosa Cell Genes that Regulate Ovarian Follicle Development Beyond the Antral Stage: The Role of Estrogen Receptor β . Molecular and Cellular

Veeraraghavulu, et al., [published online ahead of print, 2021 Mar 4]. Mol Cell Endocrinol. 2021;528:111212. doi:10.1016/j.mce.2021.111212

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

Chakravarthi VP, et al., Mol Cell Endocrinol. 2021 May 1;527:111208. doi: 10.1016/j.mce.2021.111208. Epub 2021 Feb 13. PMID: 33592287.

ELIZABETH J. FRIEDMAN, M.D.

Recurrent Multifocal Pleomorphic Sarcoma of the Scalp Responding to the Pembrolizumab

Powers, et al., Poster Presentation. 2020 CTOS Virtual Annual Meeting November 19-21, 2020 (International meeting)

A Comparison of Depth of Necrosis Among Adjuvant Therapies Used for the Treatment of Benign Bone Tumors

Bombardier B, et al., J Surg Oncol. 2021; 123: 1299-1303. <https://doi.org/10.1002/jso.26397>

ANDREW K. GODWIN, PH.D.

Epithelial-stromal Communication via CXCL1-CXCR2 Interaction Stimulates Growth of Ovarian Cancer Cells Through p38 Activation

Park, et al., Cellular Oncology (Dordr). 2021 Feb;44(1):77-92. doi: 10.1007/s13402-020-00554-0. [Epub 2020 Sep] (PMID: 32910411)

Entinostat, a Selective HDAC1/2 Inhibitor, Potentiates the Effects of olaparib in Homologous Recombination Proficient Ovarian Cancer

Gupta VG, et al., Gynecol Oncol. 2021 Apr 15:S0090-8258(21)00325-5. doi: 10.1016/j.ygyno.2021.04.015. Epub ahead of print. PMID: 33867143

Multicenter Study: A Case-only Study to Identify Genetic Modifiers of Breast Cancer Risk for BRCA1/BRCA2 Mutation Carriers

Coignard J, et al., Nat Commun. 2021 Feb 17;12(1):1078. doi: 10.1038/s41467-020-20496-3. PMID: 33597508; PMCID: PMC7890067.

Exploration of Biomarkers From a Pilot Weight Management Study for Men Undergoing Radical Prostatectomy

Dimachkie MD, et al., Urol Oncol. 2021 Feb 6:S1078-1439(21)00011-9. doi: 10.1016/j.urolonc.2021.01.010. Epub ahead of print. PMID: 33563536.

WJMISC-derived Small Extracellular Vesicle Enhance T Cell Suppression Through PD-L1

Li M, et al., J Extracell Vesicles. 2021 Feb;10(4):e12067. doi: 10.1002/jev2.12067. Epub 2021 Feb 8. PMID: 33598108; PMCID: PMC7869022.

Proteogenomic and Metabolomic Characterization of Human Glioblastoma

Wang, LB, et al., Clinical Proteomic Tumor Analysis Consortium (Godwin, A.K.). Cell. 2021 Feb 2:S1535-6108(21)00050-7. doi: 10.1016/j.ccell.2021.01.006. [Online ahead of print] (PMID: 33577785)

An In Vitro Model for Evaluating Autologous T-Cell and Tumor Cell Interactions in Renal Cell Carcinoma

Braun M. & Godwin, A.K., Journal of Clinical and Cellular Immunology, 2021 Feb 4: 12:609

Clinical and Biomarker Results from Phase I/II Study of PI3K Inhibitor Alpelisib Plus Nab-paclitaxel in HER2-Negative Metastatic Breast Cancer

Sharma P, et al., Clinical Cancer Research, 2021 Feb 15;27(4):975-982. doi: 10.1158/1078-0432.CCR-20-3646. [Epub 2020 Nov 18] (PMID: 33208340)

WJMISC-Derived Small Extracellular Vesicle (sEVs) Enhance T Cell Suppression Through Checkpoint PD-L1

Li, M, et al., Journal of Extracellular Vesicle, 2021 Feb 10; 10(4):e12067. doi: 10.1002/jev2.12067. [Epub 2021 Feb 8] (PMID: 33598108) PMCID: PMC7869022



A Case-only Study to Identify Genetic Modifiers of Breast Cancer Risk for BRCA1/BRCA2 Mutation Carriers

Coignard, J, et al., Nature Communications, 2021 Feb 17;12(1):1078. doi: 10.1038/s41467-020-20496-3 (PMID: 33597508)

Isolation and Analysis Methods of Extracellular Vesicles (EVs).

Zhao Z, Wijerathne H, Godwin AK, Soper SA. Extracell Vesicles Circ Nucleic Acids 2021;2:80-103. <https://dx.doi.org/10.20517/evcna.2021.07>

Exosomes, PD-L1 and aGvHD: Perspectives for WJMSC-mediated therapy

Li, M, et al., Journal of Cancer Immunology, in press, 2021.

KHURSHED IQBAL, PH.D., & MICHAEL J. SOARES, PH.D.

SUV39H2 Controls Trophoblast Stem Cell Fate

Wang L. et al., Biochimica et biophysica acta. General subjects, vol. 1865,6 129867. 5 Feb. 2021, doi:10.1016/j.bbagen.2021.129867

KHURSHED IQBAL, PH.D., JAY L. VIVIAN, PH.D., & MICHAEL J. SOARES, PH.D.

ASCL2 Reciprocally Controls Key Trophoblast Lineage Decisions During Hemochorial Placenta Development

Varberg KM, et al., Proceedings of the National Academy of Sciences of the United States of America vol. 118,10 (2021): e2016517118. doi:10.1073/pnas.2016517118

MAURA F. O'NEIL, M.D.

Is Axillary Imaging for Invasive Lobular Carcinoma Accurate in Determining Clinical Node Staging?

Schumacher K, et al., Breast Cancer Res Treat. 2021 Feb;185(3):567-572. doi: 10.1007/s10549-020-06047-w. Epub 2021 Jan 3. PMID: 33389408.

REGINA PLUMMER, D.O.

Update on B-Cell Lymphoproliferative Disorders of the Gastrointestinal Tract

Plummer RM, Linden MA, Beckman AK. Semin Diagn Pathol. 2021 Mar 26:S0740-2570(21)00016-2. doi: 10.1053/j.semmp.2021.03.006. Epub ahead of print. PMID: 33863577.

REGINA PLUMMER, D.O., SARAH KELTING, M.D., RASHNA MADAN, MBBS, MAURA F. O'NEIL, M.D., KATIE L. DENNIS, M.D., & FANG FAN, M.D., PH.D.

Cervical Papanicolaou Tests in the Female-to-Male Transgender Population: Should the Adequacy Criteria be Revised in this Population? An Institutional Experience

Plummer RM, et al., J Am Soc Cytopathol. 2021 Jan 29:S2213-2945(21)00010-7. doi: 10.1016/j.jasc.2021.01.004. Epub ahead of print. PMID: 33736951.

AZHAR SAEED, M.D.

Exceptional Response to Erlotinib Monotherapy in EGFR Exon 19-deleted, KRAS Wild-type, Chemo-refractory Advanced Pancreatic Adenocarcinoma

Park R, et al., Cancer Treat Res Commun. 2021 Feb 17;27:100342. doi: 10.1016/j.ctarc.2021.100342. Epub ahead of print. PMID: 33611092.

V. RAKESH SETHAPATI, MBBS

Rare Periurethral Fetal Rhabdomyoma Presenting as a Vaginal Mass

Wolfe E, et al., Int Urogynecol J. 2021 Mar 12. doi: 10.1007/s00192-021-04744-8. Online ahead of print.

V. RAKESH SETHAPATI, MBBS & PATRICK R. GONZALES, PH.D., WEI CUI, M.D., & SHIVANI GOLEM, PH.D.

De Novo Acute Myeloid Leukemia with Combined CBFβ-MYH1 and BCR-ABL1 Gene Rearrangements: A Case Report and Review of Literature

Sethapati VR, et al., Case Rep Hematol. 2020 Dec 16;2020:8822670. doi: 10.1155/2020/8822670. PMID: 33489389; PMCID: PMC7787850.

JANET WOODROOF, M.D.

A Skin Ulcer in a Returning Traveler Caused by Leishmania Panamensis

Jabr R, Woodroof J, Eid AJ. Int J Infect Dis. 2021 Feb;103:514-515. doi: 10.1016/j.ijid.2020.12.005. Epub 2020 Dec 7. PMID: 33301992.

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

A Human Monoclonal Antibody Against the Distal Carboxyl Terminus of ADAMTS13 Modulates Its Susceptibility to an Inhibitor in Thrombotic Thrombocytopenic Purpura

Halkidis K, Siegel DL, Zheng XL. J Thromb Haemost. 2021 Apr 9. doi: 10.1111/jth.15332. Epub ahead of print. PMID: 33834592.

JULIA ZEITLINGER, PH.D.

TATA and Paused Promoters Active in Differentiated Tissues Have Distinct Expression Characteristics

Ramalingam V et al., Mol Syst Biol. 2021 Feb;17(2):e9866. doi: 10.15252/msb.20209866. PMID: 33543829; PMCID: PMC7863008.

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



UPCOMING EVENTS

INSTITUTE FOR REPRODUCTION AND PERINATAL RESEARCH SEMINAR SERIES

MAY 13 & 14, 2021 | 12:00-1:00 PM

Thursday Lecture (Basic Science): Notch in Pregnancy and Cancer

Friday Lecture (Grand Rounds): Infertility and Preeclampsia: A Spectrum of Endometrial Pathology

Nataki Douglas, MD, PhD, Rutgers University

MAY 20, 2021 | 12:00-1:00 PM

Igniting Immunity Against Therapy-Resistant Leukemia Stem Cells

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

For more information visit:

kumc.edu/school-of-medicine/irpr/events/seminar-series

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

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