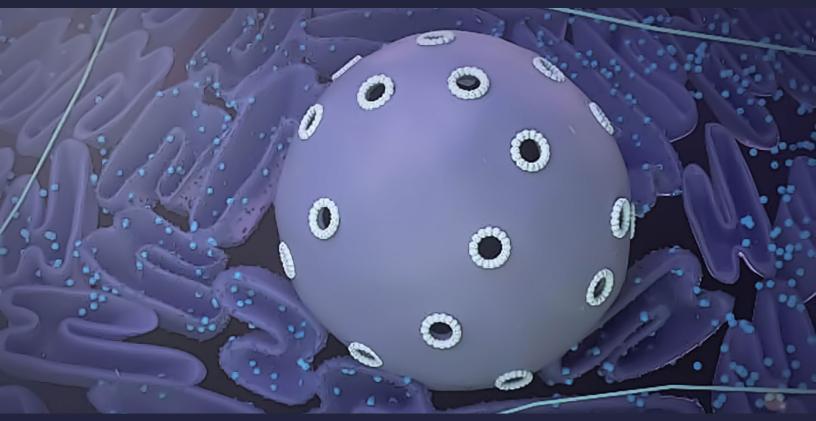
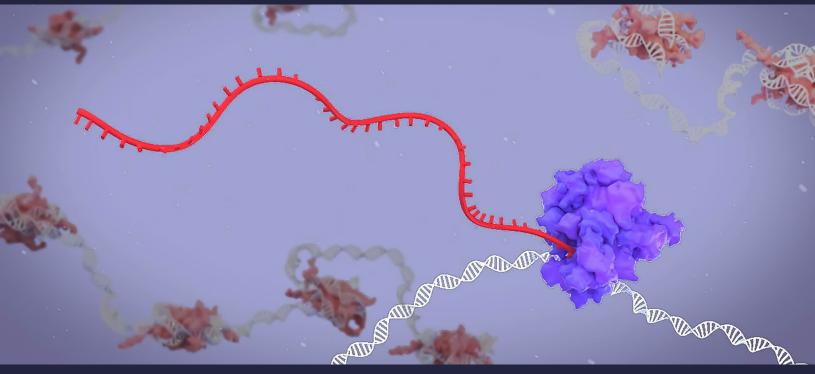
# BIOCHEMISTRY AND MOLECULAR GENETICS



Chair Newsletter 2022



# **M Northwestern** Medicine<sup>®</sup>

Feinberg School of Medicine

# Newsletter 2022

# CONTENTS

3	Letter from the Chair
4	Department News
5-7	New Hires and Faculty
8-10	Grants and Awards
10-20	Publications
21-22	Upcoming Events

ON THE COVER. Cover design by Brianna Monroe, MS.



#### LETTER FROM THE CHAIR

# "Never give up, never give up, never give up." -Attributed to Winston Churchill October 29, 1941

This quote may seem cliché, and its significance brushed over due to its widely and oft referenced use. However, it is one of my favorites. The actual quote from Winston Churchill's speech is: "Never give in. Never give in. Never, never, never, never--in nothing, great or small, large or petty--never give in, except to convictions of honour and good sense. Never yield to force. Never yield to the apparently overwhelming might of the enemy." We may not call disappointments in science, or the sense that there are forces acting against us, enemies, but hurdles, setbacks, and disappointments to our progress do exist and the commitment to never give up and to keep working diligently and taking the steps towards improving should ultimately lead to positive results. Disappointments in science can be numerous such as failed experiments, rejected papers, poor scores on grants, and therefore, lack of funding or recognition to do what you want to do to move forward. It is important to take a step back to look at the big picture, the long-term goals, and re-evaluate how to modify your plans, build collaborations, seek mentorship, give mentorship, and to increase your knowledge to improve your and your colleagues' chances of addressing a roadblock. Never give up! I am very proud of the great progress being made in the Biochemistry and Molecular Genetics Department at Northwestern Medicine and without a doubt it didn't come to fruition without having a few setbacks before achieving success. We are very lucky to have great colleagues, a great department, institute, and university. I encourage all of you whether a staff, technician, student, postdoc, clinical fellow, or PI to reach out to each other in times of need and to help and inspire others to never give up. We must believe that tomorrow will be a better day than today.



\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

# Ali Shilatifard Professor and Chairman



BMG Newsletter 2022

# DEPARTMENTAL NEWS

We would like to extend our thanks and congratulations to the following BMG members who received promotions this year or are moving on in their careers:



Jaehyuk Choi, MD, PhD- Jack W. Graffin Professor Promoted to Associate Professor of Dermatology and Biochemistry and Molecular Genetics



**Dan Foltz, PhD** Promoted to Professor of Biochemistry and Molecular Genetics with Tenure



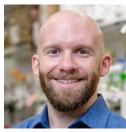
Marc Morgan, PhD- Shilatifard Lab Promoted to Research Associate Professor of Biochemistry and Molecular Genetics



**Ben Singer, MD**- *Lawrence Hicks Professor of Pulmonary Medicine* Promoted to Associate Professor of Medicine (Pulmonary and Critical Care) and Biochemistry and Molecular Genetics with Tenure



Feng Yue, PhD - Director, Institute for Augmented Intelligence in Medicine - Center for Advanced Molecular Analysis Duane and Susan Burnham Professor of Molecular Medicine Promoted to Professor of Biochemistry and Molecular Genetics with Tenure



**Roger Smith,** *MSTP Student* - Mendillo Lab Thesis Defense: Elucidating the Role of Heat Shock Factor 2 (HSF2) in Cancer

# **NEW HIRES**

#### Ben-Sahra Lab



HINA ANJUM Volunteer at NU



**HUNTER LEE** Undergraduate Student



MUSHTAQ NENGROO Postdoctoral

Foltz Lab

Fellow



MICHAEL TORNO Research Lab

Manager

Gao Lab



OLIVIA VIDAL-CRUCHEZ

Postdoctoral Fellow

Eichner Lab



IRENA GUSHTEROVA

DGP Graduate Student



AMBRYN MEEHAN

Research Technician



ANDREA TIGGES

Research Technician



DR. HSIAO-YUN LIN

Lab Manager

#### Lauberth Lab



DR. PEDRO AVILA-LOPEZ

Postdoctoral Fellow

#### Lauberth Lab Cont.



DR. SAIKAT CHAKRABORTY

Postdoctoral Fellow



**PRACHI PATEL** Research Technician



**TAHLIA SMITH** Research Technician

# Mendillo Lab



**IBRAHIM AHMAD** Undergraduate Student



**SAMMY ALHAYEK** Research Technician

# NEW HIRES CONT.

#### Mendillo Lab Cont.



SEAN FLANNERY MBP Student



**AUSTIN KLEIN** DGP Graduate Student



MUSHTAQ NENGROO Postdoctoral Fellow

#### Shilatifard Lab



DAN BALLARIN Undergraduate Intern (Summer)



**YUE HE** DGP Graduate Student

#### Shilatifard Lab Cont.



**LEILA IRAVANI** MBP Student



**LINDA** JACKSON Administrative Assistant



**JORDAN JOHN** Medical Student



JENNIFER KAVINA

Undergraduate Intern (Summer)



ISABELLA MROCZEK Undergraduate Intern

#### Shilatifard Lab Cont.



MAEVE MURDOCK Undergraduate Intern (Summer)



DR. SAEID PARAST Postdoctoral Fellow



**CASSY PHILLIPS, MS** Research Technician



WILL THAKUR Undergraduate Intern

Singer Lab



**IRIS LIU** DGP Graduate Student

## NEW HIRES CONT.

#### Yue Lab



**ZOE CHEN** Research Technician



YANG CHENG Master Student



DR. ALOK SWAROOP Fellow (Hematology & Medical Oncology)



**QIXUAN WANG** DGP Graduate Student

#### Yue Lab Cont.



**JOSIAH WONG** DGP Graduate Student



DR. MARK YOUNGBLOOD Neurological Surgery resident

#### **NEW FACULTY HIRE**

#### Yue Lab



**PING WANG** Research Assistant Professor

AN

MAD A

# **GRANTS AND AWARDS**

IN INTERNATION INTERNATIONATION INTERNATION INTERNATIONALIZIANI INTERNATIONATIONI INTERNATIONI INTERNAT



**Issam Ben-Sahra**, *Assistant Professor*- Ben-Sahra Lab NIH/NIGMS 5R01GM143334-02 (2022) Control of RNA methylation by growth signals through the mTORC1 pathway

Issam Ben-Sahra, Assistant Professor- Ben-Sahra Lab NIH/NIGMS 5R01GM135587-03 (2022) Regulation of de novo purine synthesis by the MAPK/ ERK pathway

Lillian Eichner, Assistant Professor - Eichner Lab received the NCI Transition Career Development Award (K22)

Irena Gushterova, *DGP Graduate Student* - Eichner Lab received a predoctoral fellowship from the Cellular and Molecular Basis for Disease (CMBD) Training Program at Northwestern University

**Dan Foltz**, *Professor* - Foltz Lab NIH/NIGMS 5R01GM143638-02 (2022) Histone chaperone networks for new and evicted histones

Dan Foltz, *Professor* - Foltz Lab NIH/NIGMS 5R01GM111907-09 (2022) Assembly and epigenetic inheritance of the human centromere

Ruli Gao, Assistant Professor- Gao Lab R01 (4/01/2022-3/31/2026; Title: Defining cellular mechanisms of chronic graft failure in transplanted hearts with single cell multi-omics Role: Pl

**Monica Laronda**, *Assistant Professor*- Gao Lab UO1 (7/01/2022-6/30/2026; Title: Reverse Engineering the Extracellular Neighborhood to Support the Functional Tissue Unit: A Use Case to Restore Ovarian Function Role: Co-I

Marc Mendillo, Assistant Professor- Mendillo Lab NIH/NIGMS 1R01GM144617-01 (9/1/22 - 8/31/27) Regulation and interplay of Heat Shock Factors in growth-associated proteotoxic stresses

Marc Mendillo, Assistant Professor- Mendillo Lab American Cancer Society RSG-22-086-01-TBE (4/1/22 - 3/31/26) Role of C16orf72 in Response to Complex and Multifactorial Cancer-Associated Molecular Stresses



Marc Mendillo, Assistant Professor- Mendillo Lab

U.S. Army Medical Research and Materiel Command W81XWH2210018 (1/15/22 - 1/14/24) Leveraging Systematic Chemical-Genetic Profiling as a Path to Expand Precision Medicine in Breast Cancer

#### 

#### GRANTS AND AWARDS, CONT.

Arthur Prindle, Assistant Professor- Prindle Lab NIGMS R35 Grant Funded 2022

Ali Shilatifard, Chair, Director, and Professor- Shilatifard Lab NCI R35 Grant Renewal until 2030

Marta Iwanaszko, *Research Assistant Professor* - Shilatifard Lab NCI R50 funded

Ben Singer, Associate Professor- Singer Lab Genomics Network (GeNe) Pilot Grant (Stanley Manne Children's Research Institute/Lurie Children's Hospital)

**Carla Reyes Flores**, *DGP Graduate Student* - Singer Lab Dr. John N. Nicholson Fellowship, T32 HL076139 Diversity Supplement

Manuel Torres Acosta, MSTP Student - Singer Lab F31 HL162490

Anthony Joudi, MD, *Postdoctoral Fellow*- Singer Lab F32 HL162418

Manuel Torres Acosta, *MSTP Student* - Singer Lab received the Minority Trainee Development Scholarship from the American Thoracic Society

Lu Wang, Assistant Professor- Wang Lab NIGMS Maximizing Investigators' Research Award (MIRA) (R35)

Lu Wang, Assistant Professor- Wang Lab Research Scholar Award from American Cancer Society

Lu Wang, Assistant Professor- Wang Lab Lynn Sage cancer research foundation

**Jindan Yu**, *Professor of Medicine and BMG*- Yu Lab PC210266, Department of Defense, Translational Science Award Title: Enhanced Targeting of CBP/p300 in a Subtype of Metastatic Prostate Cancer

Lourdes Brea, DGP Graduate Student- Yu Lab F31CA271826-01 NIH/NCI, NRSA Fellowship Title: FOXA1 loss-of-function in lethal prostate cancer

# GRANTS AND AWARDS, CONT.



**Feng Yue**, *Professor of Molecular Medicine and BMG*- Yue Lab Molecular and cellular characterization of essential human genes. MPI grant (Mazhar Adli, Paul W. Burridge, Feng Yue)



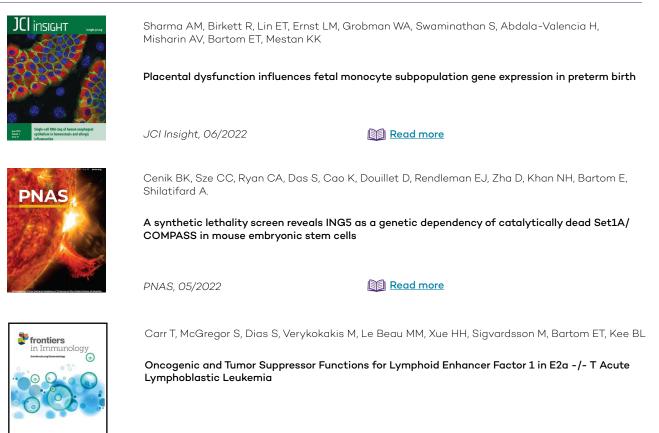
**Feng Yue**, *Professor of Molecular Medicine and BMG*- Yue Lab Yue was appointed as Co-chair for the Steering Committee of the Impact of Genomic Variation on Function Consortium (IGVF). This is a \$185 million initiative funded by the NIH to researchers across 30 U.S. research sites.

Feng Yue, Professor of Molecular Medicine and BMG- Yue Lab NIGMS R35 Grant 2022

#### 

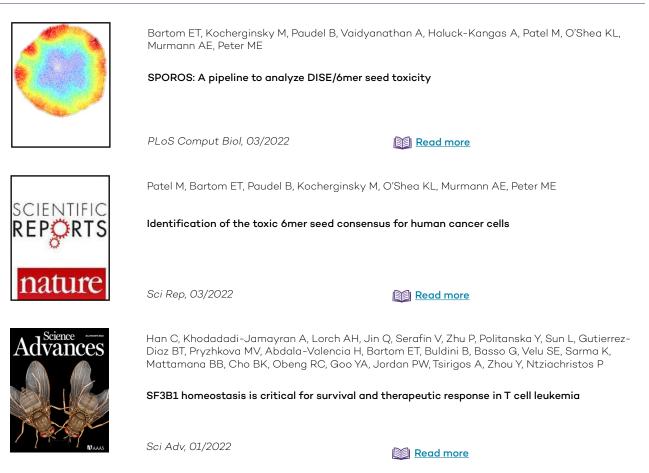
## PUBLICATIONS

# BARTOM LABORATORY

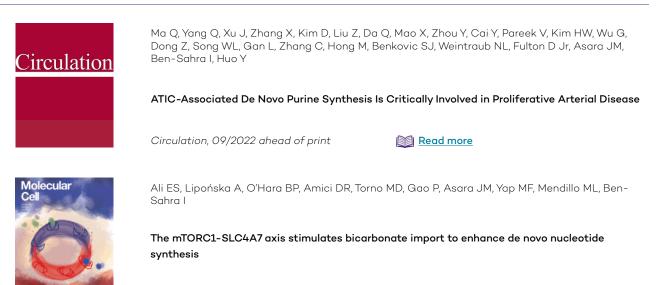


Front Immunol, 03/2022

# BARTOM LABORATORY



# **BEN-SAHRA LABORATORY**



Mol Cell, 09/2022



# **BEN-SAHRA LABORATORY**



Khan MW, Terry AR, Priyadarshini M, Ilievski V, Farooq Z, Guzman G, Cordoba-Chacon J, Ben-Sahra I, Wicksteed B, Layden BT

The hexokinase "HKDC1" interaction with the mitochondria is essential for liver cancer progression.

Cell Death & Disease, 07/2022



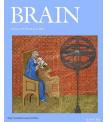
Amici DR, Ansel DJ, Metz KA, Smith RS, Phoumyvong CM, Gayatri S, Chamera T, Edwards SL, O'Hara BP, Srivastava S, Brockway S, Takagishi SR, Cho BK, Goo YA, Kelleher NL, Ben-Sahra I, Foltz DR, Li J, Mendillo ML

C16orf72/HAPSTR1 is a molecular rheostat in an integrated network of stress response pathways

PNAS, 07/2022



Read more



Calhoun JD, Aziz MC, Happ HC, Gunti J, Gleason C, Mohamed N, Zeng K, Hiller M, Bryant E, Mithal DS, Bellinski I, Kinsley L, Grimmel M, Schwaibold EMC, Smith-Hicks C, Chassevent A, Scala M, Accogli A, Torella A, Striano P, Capra V, Bird LM, Ben-Sahra I, Ekhilevich N, Hershkovitz T, Weiss K, Millichap J, Gerard EE, Carvill GL

mTORC1 functional assay reveals SZT2 loss-of-function variants and a founder in-frame deletion

Brain, 06/2022

Read more

Che Journal of<br/>Clinical InvestigationKouzu H, Tatekoshi Y, Chang HC, Shapiro JS, McGee WA, De Jesus A, Ben-Sahra I, Arany Z, Leor J,<br/>Chen C, Blackshear PJ, Ardehali HZFP36L2 suppresses mTORc1 through a P53-dependent pathway to prevent peri-partum<br/>cardiomyopathy in mice

J Clin Invest, 05/2022

Read more



Soflaee MH, Kesavan R, Sahu U, Tasdogan A, Villa E, Djabari Z, Cai F, Tran DH, Vu HS, Ali ES, Rion H, O'Hara BP, Kelekar S, Hallett JH, Martin M, Mathews TP, Gao P, Asara JM, Manning BD\*, Ben-Sahra I\*, Hoxhaj G\*

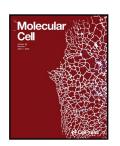
Purine nucleotide depletion prompts cell migration by stimulating the serine synthesis pathway

Nature Communications, 05/2022



# **BEN-SAHRA LABORATORY**

ONONONONONONONONONONONONONONONONONO



De Jesus A, Keyhani-Nejad F, Pusec CM, Goodman L, Geier JA, Stoolman JS, Stanczyk PJ, Nguyen T, Xu K, Suresh KV, Chen Y, Rodriguez AE, Shapiro JS, Chang HC, Chen C, Shah KP, Ben-Sahra I, Layden BT, Chandel NS, Weinberg SE, Ardehali H

#### Hexokinase 1 cellular localization regulates the metabolic fate of glucose

Mol Cell, 04/2022

Read more

# GAO LABORATORY



Abdelfattah N, Kumar P, Wang C, Leu JS, Flynn WF, Gao R, Baskin DS, Pichumani K, Ijare OB, Wood SL, Powell SZ, Haviland DL, Parker Kerrigan BC, Lang FF, Prabhu SS, Huntoon KM, Jiang W, Kim BYS, George J, Yun K

Single-cell analysis of human glioma and immune cells identifies S100A4 as an immunotherapy target

Nature Communications, 02/2022



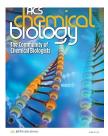
## **KELLEHER LABORATORY**



Su P, McGee JP, Durbin KR, Hollas MAR, Yang M, Neumann EK, Allen JL, Drown BS, Butun FA, Greer JB, Early BP, Fellers RT, Spraggins JM, Laskin J, Camarillo JM, Kafader JO, Kelleher NL

Highly multiplexed, label-free proteoform imaging of tissues by individual ion mass spectrometry

Sci Adv, 08/2022



Schachner LF, Soye BD, Ro S, Kenney GE, Ives AN, Su T, Goo YA, Jewett MC, Rosenzweig AC, Kelleher NL

Revving an Engine of Human Metabolism: Activity Enhancement of Triosephosphate Isomerase via Hemi-Phosphorylation

ACS Chem Biol, 08/2022



Read more



Jooß K, McGee JP, Kelleher NL

Native Mass Spectrometry at the Convergence of Structural Biology and Compositional Proteomics

Acc Chem Res, 07/2022

# **KELLEHER LABORATORY**



Burnum-Johnson KE, Conrads TP, Drake RR, Herr AE, Iyengar R, Kelly RT, Lundberg E, MacCoss MJ, Naba A, Nolan GP, Pevzner PA, Rodland KD, Sechi S, Slavov N, Spraggins JM, Van Eyk JE, Vidal M, Vogel C, Walt DR, Kelleher NL

New Views of Old Proteins: Clarifying the Enigmatic Proteome

Mol Cell Proteomics, 07/2022



Drown BS, Jooß K, Melani RD, Lloyd-Jones C, Camarillo JM, Kelleher NL

Mapping the Proteoform Landscape of Five Human Tissues

J Proteome Res, 05/2022

Read more

Read more



Melani RD, Gerbasi VR, Anderson LC, Sikora JW, Toby TK, Hutton JE, Butcher DS, Negrão F, Seckler HS, Srzentić K, Fornelli L, Camarillo JM, LeDuc RD, Cesnik AJ, Lundberg E, Greer JB, Fellers RT, Robey MT, DeHart CJ, Forte E, Hendrickson CL, Abbatiello SE, Thomas PM, Kokaji AI, Levitsky J, Kelleher NL

The Blood Proteoform Atlas: A reference map of proteoforms in human hematopoietic cells

Science, 01/2022

Read more

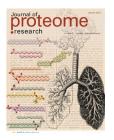


Hollas MAR, Robey MT, Fellers RT, LeDuc RD, Thomas PM, Kelleher NL

The Human Proteoform Atlas: a FAIR community resource for experimentally derived proteoforms

Nucleic Acids Res, 01/2022



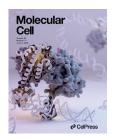


Melani RD, Des Soye BJ, Kafader JO, Forte E, Hollas M, Blagojevic V, Negrão F, McGee JP, Drown B, Lloyd-Jones C, Seckler HS, Camarillo JM, Compton PD, LeDuc RD, Early B, Fellers RT, Cho BK, Mattamana BB, Goo YA, Thomas PM, Ash MK, Bhimalli PP, Al-Harthi L, Sha BE, Schneider JR, Kelleher NL

Next-Generation Serology by Mass Spectrometry: Readout of the SARS-CoV-2 Antibody Repertoire

J Proteome Res, 01/2022

# LAUBERTH LABORATORY



Morgan, M, Shiekhattar, R, Shilatifard A, and Lauberth, SM

It's A DoG-Eat-DoG World - Altered Transcriptional Mechanisms Drive Downstream-of-Gene (DoG) Transcript Production

Mol Cell, 06/2022

Read more

Read more

# MEEKS LABORATORY



Piunti A, Meghani K, Yu Y, Robertson AG, Podojil JR, McLaughlin KA, You Z, Fantini D, Chiang M, Luo Y, Wang L, Heyen N, Qian J, Miller SD, Shilatifard A, Meeks JJ

Immune activation is essential for the antitumor activity of EZH2 inhibition in urothelial carcinoma

Sci Adv, 10/2022



Meghani K, Cooley LF, Choy B, Kocherginsky M, Swaminathan S, Munir SS, Svatek RS, Kuzel T, Meeks JJ First-in-human Intravesical Delivery of Pembrolizumab Identifies Immune Activation in Bladder Cancer Unresponsive to Bacillus Calmette-Guérin *Eur Urol, 08/2022* Robertson AG, Groeneveld CS, Jordan B, Lin X, McLaughlin KA, Das A, Fall LA, Fantini D, Taxter TJ, Mogil LS, Lindskrog SV, Dyrskjøt L, McConkey DJ, Svatek RS, de Reyniès A, Castro MAA, Meeks JJ

Corrigendum to "Identification of Differential Tumor Subtypes of T1 Bladder Cancer"

Eur Urol, 02/2022

Read more

# MENDILLO LABORATORY



Amici DR, Ansel DJ, Metz KA, Smith RS, Phoumyvong CM, Gayatri S, Chamera T, Edwards SL, O'Hara BP, Srivastava S, Brockway S, Takagishi SR, Cho BK, Goo YA, Kelleher NL, Ben-Sahra I, Foltz DR, Li J, Mendillo ML

C16orf72/HAPSTR1 is a molecular rheostat in an integrated network of stress response pathways

PNAS, 07/2022

# MENDILLO LABORATORY



Smith RS, Takagishi SR, Amici DR, Metz K, Gayatri S, Alasady MJ, Wu Y, Brockway S, Taiberg SL, Khalatyan N, Taipale M, Santagata S, Whitesell L, Lindquist S, Savas JN, Mendillo ML

HSF2 cooperates with HSF1 to drive a transcriptional program critical for the malignant state

Sci Adv, 03/2022

Read more

# SHILATIFARD LABORATORY



Piunti A, Meghani K, Yu Y, Robertson AG, Podojil JR, McLaughlin KA, You Z, Fantini D, Chiang M, Luo Y, Wang L, Heyen N, Qian J, Miller SD, Shilatifard A, Meeks JJ

Immune activation is essential for the antitumor activity of EZH2 inhibition in urothelial carcinoma

Sci Adv. 10/2022



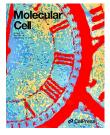
Zhao Z, Rendleman EJ, Szczepanski AP, Morgan MA, Wang L, Shilatifard A

CARM1-mediated methylation of ASXL2 impairs tumor-suppressive function of MLL3/COMPASS

Sci Adv. 10/2022

Read more

Read more



Aoi Y, Shah AP, Ganesan S, Soliman SHA, Cho BK, Goo YA, Kelleher NL, Shilatifard A

SPT6 functions in transcriptional pause/release via PAF1C recruitment

Mol Cell 09/2022

Read more



Shilatifard A.

The dire need for federal support of molecular research, then and now

Sci Adv, 06/2022

# SHILATIFARD LABORATORY

@WWWWWWWWWWWWWWWWWWWWWWWWWWWW

Molecular Cell	Morgan, M, Shiekhattar, R, Shilatifard A, and Lau	uberth, SM	
e <sup>o</sup> CePress	lt's A DoG-Eat-DoG World - Altered Transcript (DoG) Transcript Production	ional Mechanisms Drive Downstream-of-Gene	
	Mol Cell, 06/2022	Read more	
	Cenik BK, Sze CC, Ryan CA, Das S, Cao K, Doui Shilatifard A	llet D, Rendleman EJ, Zha D, Khan NH, Bartom E,	
	A synthetic lethality screen reveals ING5 as a genetic dependency of catalytically dead Set1A/ COMPASS in mouse embryonic stem cells		
	PNAS, 05/2022	Read more	
	Ishi Y, Zhang Y, Zhang A, Sasaki T, Piunti A, Suri A, Watanabe J, Abe K, He X, Katagi H, Bhalla P, Natsumeda M, Zou L, Shilatifard A, Hashizume R		
	Therapeutic Targeting of EZH2 and BET BRD4 in Pediatric Rhabdoid Tumors		
	Mol Cancer Ther, 05/2021	Read more	
Advances	Shilatifard A.		
	On Healthy Scientific Debates		
	Sci Adv, 04/2021	Read more	

# SINGER LABORATORY



Rahimi RA, Cho JL, Jakubzick CV, Khader SA, Lambrecht BN, Lloyd CM, Molofsky AB, Talbot S, Bonham CA, Drake WP, Sperling AI, Singer BD

Advancing lung immunology research: an official American Thoracic Society workshop report

Am J Respir Cell Mol Biol, 07/2022

OUNDAND OUNDAND OUNDAND OUNDAND OUNDAND

# SINGER LABORATORY

THE AMERICAN JOURNAL	Singer BD, Chotirmall SH, Leither LM, Meldrum O,	Joudi AM, Seam N, Brown SM, Çoruh B	
OF RESPIRATORY AND CRITICAL CARE MEDICINE	Update in COVID-19 2021		
	Am J Respir Crit Care Med, 04/2022 ahead of pr	int 🔝 Read more	
frontiers	Joudi AM, Reyes Flores CP, Singer BD		
	Epigenetic control of regulatory T cell stability and function: implications for translation		
	Front Immunol, 03/2022	Read more	

# WANG LABORATORY



Piunti A, Meghani K, Yu Y, Robertson AG, Podojil JR, McLaughlin KA, You Z, Fantini D, Chiang M, Luo Y, Wang L, Heyen N, Qian J, Miller SD, Shilatifard A, Meeks JJ

Immune activation is essential for the antitumor activity of EZH2 inhibition in urothelial carcinoma

Sci Adv, 10/2022





Natsumi Tsuboyama, Ru Wang, Aileen Patricia Szczepanski, Huanhuan Chen, Zibo Zhao, Lei Shi, Lu Wang

CARM1-mediated methylation of ASXL2 impairs tumor-suppressive function of MLL3/COMPASS

Sci Adv, 10/2022

Read more

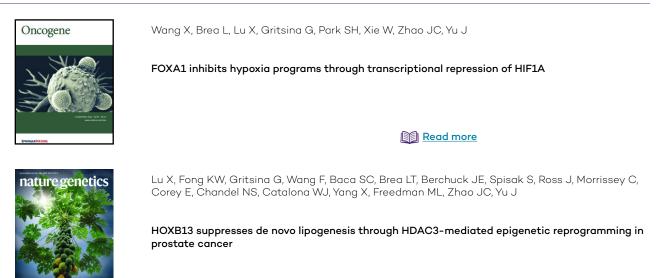


Natsumi Tsuboyama, Ru Wang, Aileen Patricia Szczepanski, Huanhuan Chen, Zibo Zhao, Lei Shi, Lu Wang

Therapeutic targeting of BAP1/ASXL3 sub-complex in ASCL1-dependent small cell lung cancer

Oncogene, 02/2022

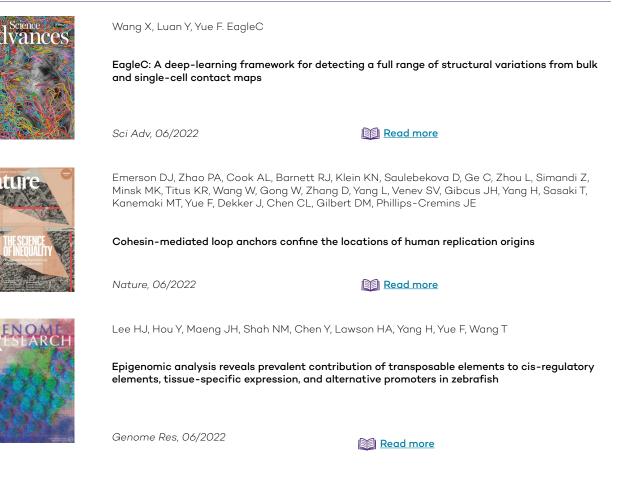
# YU LABORATORY



Nat Genet, 04/2022

Read more

# YUE LABORATORY



# YUE LABORATORY



Sun F, Ou J, Shoffner AR, Luan Y, Yang H, Song L, Safi A, Cao J, Yue F, Crawford GE, Poss KD

Enhancer selection dictates gene expression responses in remote organs during tissue regeneration

Nat Cell Biol, 05/2022





Wei X, Xiang Y, Peters DT, Marius C, Sun T, Shan R, Ou J, Lin X, Yue F, Li W, Southerland KW, Diao Y

HiCAR is a robust and sensitive method to analyze open-chromatin-associated genome organization

Mol Cell, 03/2022

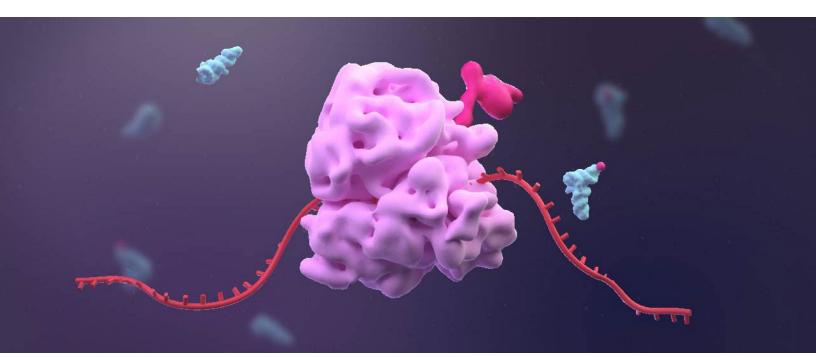
Read more



Yang H, Zhang H, Luan Y, Liu T, Yang W, Roberts KG, Qian MX, Zhang B, Yang W, Perez-Andreu V, Xu J, Iyyanki S, Kuang D, Stasiak LA, Reshmi SC, Gastier-Foster J, Smith C, Pui CH, Evans WE, Hunger SP, Platanias LC, Relling MV, Mullighan CG, Loh ML, Yue F, Yang JJ

Noncoding genetic variation in GATA3 increases acute lymphoblastic leukemia risk through local and global changes in chromatin conformation

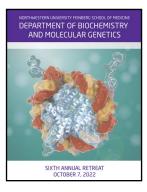
Nat Genet, 02/2022



#### **Upcoming Events**

\_\_\_\_\_

## **BMG RETREAT**



# Friday, October 7, 2022

8:30 a.m. – 3:00 p.m.

Breakfast 8:30 a.m. – 9:15 a.m. Opening Remarks, Poster Session, and Keynote Address 9:15 a.m. – 12:30 p.m. Simpson Querrey Biomedical Research Center 303 E. Superior Street Chicago, Illinois Lunch and Cruise 12:30 p.m. – 3:00 p.m. Anita Dee II DuSable Harbor 200 N. Breakwater Access Chicago, Illinois

# BMG HALLOWEEN



# **Monday, October 31st, 2022** 12:00-2:00 p.m.

7th Floor Common Area Food and Beverages Provided

**Prizes** Best Lab Participation Best Individual Costume

# **BMG HOLIDAY LUNCHEON**



# Friday, December 9, 2022 12:30-2:30 p.m.

Woodwind Restaurant, Birch Room 259 E Erie, 18th Floor

RSVP by Friday, October 28, 2022



#### Upcoming Events Cont.

# SQE SPEAKERS







# Wednesday, October 12, 2022 10:00 a.m. - 11:00 a.m.

# SQE Distinguished Lecturer: Danny Reinberg, PhD

Howard Hughes Medical Institute Terry and Mel Karmazin Professor of Biochemistry and Molecular Pharmacology NYU Langone School of Medicine at Smilow Research Center, NY

"Polycomb, Inheritance, and Disease"

#### Thursday, October 20, 2022 10:00 a.m. - 11:00 a.m.

# **BMG Invited Speaker:** Robert Roeder. PhD

#### Arnold and Mabel Beckman Professor

Head of Laboratory of Biochecmistry and Molecular Biology The Rockefeller University, New York, NY

"Mechanistic Studies of Transcriptional Regulation in Hematopoietic Malignancies"

# Tuesday, October 25, 2022

10:00 a.m. – 11:00 a.m.

# SQE Distinguished Lecturer: Riccardo Dalla-Favera. MD

Uris Professor of Clinical Medicine; Professor, Pathology and Cell Biology; Professor, Genetics & Development; Professor, Microbiology & Immunology Director, Institute for Cancer Genetics, Columbia University, NYC

"Genomics of B Cell Lymphoma: Role of Super-Enhancer Hypermutation"

Tuesday, November 1, 2022 10:00 a.m. - 11:00 a.m.

# SQE Distinguished Lecturer: Phillip Sharp, PhD

Professor The Koch Institute for Cancer Research MIT

"Biochemistry and Cell Biology of Multivalent Condensates in Regulation of Gene Expression"

Simpson Querrey **Biomedical Research** Center Simpson Querrey Auditorium 303 E. Superior Street Chicago, Illinois

Simpson Querrey **Biomedical Research** Center Simpson Querrey Auditorium 303 E. Superior Street Chicago, Illinois

Simpson Querrey **Biomedical Research** Center Simpson Querrey Auditorium 303 E. Superior Street Chicago, Illinois

Simpson Querrey **Biomedical Research** Center Simpson Querrey Auditorium 303 E. Superior Street Chicago, Illinois

Department of Biochemistry and Molecular Genetics

Simpson Querrey Biomedical Research Center

303 East Superior Street Simpson Querrey, 7th Floor Chicago, IL 60611

**M Northwestern** Medicine<sup>®</sup> Feinberg School of Medicine