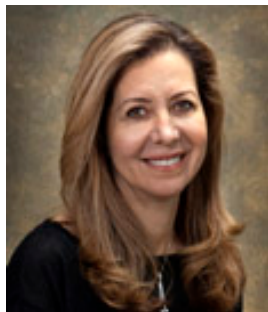




## Accolades and Newsworthy Notes



**Dr. Ali-Fehmi**



**Dr. Kang Chen**



**Dr. Karin List**

### Wayne State University School of Medicine 2016 faculty awards

Congratulations to our Program members, Dr. **Karin List** (Pharmacology) and Dr. **Kang Chen** (Obstetrics and Gynecology) and Dr. **Rouba Ali-Fehmi** (Pathology and Obstetrics & Gynecology) !

Drs. List and Chen each received the coveted Research Excellence Award from Wayne State University School of Medicine. This award marks high achievement and research excellence with demonstrated independence, a strong record of productivity and a solid continuing record of career accomplishments with sustained extramural support. Dr. Ali-Fehmi received a College Teaching Award for her excellence in instructional guidance.

These accolades, bestowed upon our members by the School of Medicine, are superb examples of our Program's academic accomplishments.

### Bioactive Lipids in Cancer, Inflammation and Related Diseases

Program member, Dr. **Kenneth Honn**, distinguished professor, and executive committee and board member of the conference organizing committee, along with colleagues, announced the 2017, 15<sup>th</sup> international conference to be held in Puerto Vallarta, Mexico. For abstract submission and conference details, link here: <http://bioactivelipidsconf.wayne.edu/index.php>

### A new patented compound

Dr. **Cecilia Speyer** announced her success in patenting a compound developed within the WSU incubator and FDA Roadmap projects. She is continuing animal studies using this immunoconjugate (IgA attached to a folate) for triple negative breast cancer.

### BrainStorm 2016 Symposium

Program member Dr. **Alexander Gow**, Charles H. Gershenson distinguished fellow, associate director and professor of the WSU center for molecular medicine and genetics and professor of pediatrics and neurology and colleagues announced the 2016 Brainstorm 2016, a Brain Research Symposium" held on **September 29, 2016**. The keynote speaker was Kamil Ugurbil, PhD, director of the Center for Magnetic Resonance Research at the University of Minnesota. The symposium promotes communication and collaboration in neuroscience and brain research, facilitates neuroscience education in both undergraduate and graduate students and improves awareness of brain research at WSU. <https://www.med.wayne.edu/news/2016/09/13/brain-storm-2016-brings-together-researchers-in-neurosciences/>

### A nifty educational visual publication and a star is born !

Dr. Mary Kosir's group has been visualized in the Journal of Visual Experiments. Authors are Daniel Xie, Donghong Ju (Jed), **Cecilia Speyer**, David Gorski and **Mary Kosir**. The video instructional manuscript describes a tube formation assay to quantify the effects of a given compound or condition on angiogenesis by using endothelial cell tube formation in a controlled environment. Many of us know Jed, the lead star in the video, as she regularly attends our Program meetings. Jed is so natural in the clip found here. <http://www.jove.com/video/54074>

### Pathology Lecture Series

Several of our TBM Program members are deeply involved with the Pathology Department. This group, including, Drs. **Shijie Sheng**, **Hyeong-Reh Kim**, **Wael Sakr** and colleagues welcomed Heidi L. Ford, Professor, Department of Pharmacy.

### Biological Sciences Seminar Series

On October 24, Dr. **Karen A. Beningo** hosted Dr. Edna Cukieman from Fox Chase Cancer Center. Dr. Cukieman shared her expertise partly gained from her work at the NIH in a talk titled 'Pancreatic cancer associated desmoplasia, a tale of two integrins'. Dr. Cukieman is noted for the development of a cell derived extracellular matrix in which she characterized and defined classes of focal adhesions.



## Working toward our research strategic plan

In alignment with the Institute research strategic plan, Dr. Sheng announced the formation of the Epigenetics Workgroup. This newly formed research group will address epigenetics and small molecular imaging. Scientific themes emerged from a brainstorming session with fundamental cell metabolism as a driving force. The unique aspects of cell metabolism will include the role of mitochondria and protein modifications that govern genetics. Initial participants are: Drs. **Shijie Sheng**, Juri Gelovani, Fei Chen, Yubin Ge, **Benjamin Kidder**, Mary Kay Pflum, **Lori Pile**, Zhihui Qin, Douglas Ruden, Zengquan Yang, Zhe Yang, and Xiaohong (Mary) Zhang. Please keep a lookout for future news regarding this initiative.

## Wayne State University Campus News

President **M. Roy Wilson** was featured in the Detroit Free Press on October 16. President Wilson walks about campus and enlightens readers on diversity and recruitment efforts, especially our successes at the SOM, campus housing, litter (a good thing) and MORE. Remember, say nice things about Detroit and read the story and see our campus photos here:

<http://www.freep.com/story/news/education/2016/10/16/wayne-state-university-president-wilson/91994290/>

## Women in Medicine and Science (WIMS)

Co Chair, Dr. **Li Li** and our Program members, Drs. **Izabela Podgorski**, **Nabanita Datta**, **Shijie Sheng** (Leader) and several faculty peers launched a new initiative at Wayne State University titled 'Women in Medicine and Science Advisory Committee'. This group aims to create an interactive culture on our campus which focuses on peer mentoring for camaraderie, personal growth and career development. The brown bag vignette, held on October 21 featured the topic 'What to do when your voice isn't heard' followed by discussion. The quorum is held on the 3<sup>rd</sup> Friday of each month at 1140 Scott Hall. All Faculty are welcomed. Contact any one of our participating Program members, noted above, for additional information. The acronym is so clever ! If you say it really fast It almost sounds like 'women's' ! Cheers. Look for future

## New Funding \$\$\$\$ Wayne State University Library

Dr. Sheng reminded attendees that WSU Library recently announced funding to underwrite publication charges for materials published in fee based peer reviewed openly access venues. Applicants can request **up to \$1000**. Details and restrictions can be found on the WSU library home page. <https://library.wayne.edu/blog/blog/2016/10/03/faculty-want-to-make-your-work-open-access-apply-for-funding-from-the-libraries/>

## Upcoming or recent local, national and international presentations

### Oh Canada ! Our Windsor colleagues are fighting cancer across the river

Dr. **Dora Cavallo-Medved** encouraged participation at the 3<sup>rd</sup> biennial international cancer research conference held on November 19 in Windsor. This group welcomed guest speaker Dr. Shoukat Dedhar from the University of British Columbia. Dr. Dedhar's is distinguished for work on cancer metastasis and the role of the tumor microenvironment. Details can be found here: <http://windsorcancerresearch.com/>

On November 12, the Michigan Society of Pathologists held their 2016 Fall conference at the Dearborn Inn. Many of our membership were noted as moderators on the 2016 Fall agenda including Drs. **Ulka Vaishampayan**, **Michael Cher**, and **Wael Sakr**. If you are interested in joining this professional group, details can be found here: <http://www.michpath.org/>

## Hot off the Press – SELECTION OF PUBLICATIONS

### A Double Dip for Dr. Avi Raz ! Two papers published on the same date !

**Oncotarget. 2016 Oct 12**

#### Positive associations between galectin-3 and PSA levels in prostate cancer patients: a prospective clinical study-I

Nakajima K, Heilbrun LK, Hogan V, Smith D, Heath E, **Raz A**

**PMID: 27741512**

**Oncotarget. 2016 Oct 12**

#### The influence of PSA autoantibodies in prostate cancer patients: a prospective clinical study-II

Nakajima K, Heilbrun LK, Smith D, Hogan V, **Raz A**, Heath E

**PMID: 27741522**

**Oncotarget. 2016 Jul 29**

#### Repurposing phenformin for the targeting of glioma stem cells and the treatment of glioblastoma

Jiang W, Finniss S, Cazacu S, Xiang C, Brodie Z, Mikkelsen T, Poisson L, Shackelford DB, **Brodie C**

**PMID: 27486821**

**Clin Transplant. 2016 Sep 1.**

#### Adverse Effects of Voriconazole: Over a Decade of Use

Levine MT, **Chandrasekar PH**

**PMID: 27581783**



Cell Rep. 2016 Sep 20;16(12):3232-46.

**IL-4 Induces Metallothionein 3- and SLC30A4-Dependent Increase in Intracellular Zn(2+) that Promotes Pathogen Persistence in Macrophages**

Subramanian Vignesh K, Landero Figueroa JA, Porollo A, Divanovic S, **Caruso JA**, Deepe GS Jr

**PMID: 27653687**

World J Surg Oncol. 2016 Oct 19;14(1):269.

**Safety and efficacy of the keystone and rhomboid flaps for immediate reconstruction after wide local excision of non-head and neck melanomas**

Taleb M, **Choi L**, Kim S

**PMID: 27756412**

Cancer. 2016 Oct;122(19):3005-14.

**Does FLT3 mutation impact survival after hematopoietic stem cell transplantation for acute myeloid leukemia? A Center for International Blood and Marrow Transplant Research (CIBMTR) analysis**

**Deol A**, Sengsayadeth S, Ahn KW, Wang HL, Aljurf M, Antin JH, Battiwalla M, Bornhauser M, Cahn JY et al.

**PMID: 27315441**

FEBS Lett. 2016 Aug 8.

**Characterization of tunnel mutants reveals a catalytic step in ammonia delivery by an aminoacyl-tRNA amidotransferase.**

Zhao L, Rathnayake UM, Dewage SW, Wood WN, Veltri AJ, Cisneros GA, **Hendrickson TL**

**PMID: 27500385**

Am J Physiol Lung Cell Mol Physiol. 2016 Sep 9

**Human lung fibroblasts produce pro-resolving peroxisome proliferator-activated receptor-gamma ligands in a cyclooxygenase-2 dependent manner**

Lacy SH, Woeller CF, Thatcher TH, Maddipati KR, **Honn KV**, Sime PJ, Phipps RP

**PMID: 27612965**

Arch Pathol Lab Med. 2016 Jul;140(7):698-713.

**Sampling and Definitions of Placental Lesions: Amsterdam Placental Workshop Group Consensus Statement**

Khong TY, Mooney EE, Ariel I, Balmus NC, Boyd TK, Brundler MA, Derricott H, Evans MJ, Faye-Petersen OM, Gillan JE, Heazell AE, Heller DS, **Jacques SM**, et al.

**PMID: 27223167**

Metabolism. 2016 Oct;65(10):1570-81

**Hyperlipidemia and the development of diabetic retinopathy: Comparison between type 1 and type 2 animal models**

**Kowluru RA**, Mishra M, Kowluru A, Kumar B

**PMID: 27621192**

Cell Physiol Biochem. 2016 Nov 2;39(6):2110-2120

**Metabolic Stress Induces Caspase-3 Mediated Degradation and Inactivation of Farnesyl and Geranylgeranyl Transferase Activities in Pancreatic  $\beta$ -Cells**

Veluthakal R, Arora DK, Goalstone ML, **Kowluru RA**, Kowluru A

**PMID: 27802439**

J Biol Chem. 2016 Jul 29;291(31):16001-10

**Characterization of Eicosanoids Produced by Adipocyte Lipolysis: IMPLICATION OF CYCLOOXYGENASE-2 IN ADIPOSE INFLAMMATION**

Gartung A, Zhao J, Chen S, Mottillo E, VanHecke GC, Ahn YH, Maddipati KR, Sorokin A, **Granneman J, Lee MJ**

**PMID: 27246851**

Oncotarget. 2016 Aug 12

**Matriptase regulates c-Met mediated proliferation and invasion in inflammatory breast cancer**

Zoratti GL, Tanabe LM, Hyland TE, Duhaime MJ, Colombo É, Leduc R, Marsault E, Johnson MD, Lin CY, Boerner J, Lang JE, **List K**

**PMID: 27528224**

Oncotarget. 2016 Aug 15

**Conditional ablation of HDAC3 in islet beta cells results in glucose intolerance and enhanced susceptibility to STZ-induced diabetes**

Chen WB, Gao L, Wang J, Wang YG, Dong Z, Zhao J, **Mi QS**, Zhou L

**PMID: 27542279**



Exp Dermatol. 2016 Aug 31

**miRNA miR-17-92 cluster is differentially regulated in the imiquimod-treated skin but is not required for imiquimod-induced psoriasis-like dermatitis in mice**

Wu D, Bi X, Qu L, Han L, Yin C, Deng J, Dong Z, **Mi QS**, Zhou L

PMID: [27579777](#)

Oncotarget. 2016 Sep 20

**TIM-4 is expressed on invariant NKT cells but dispensable for their development and function**

Zhang X, Gu J, Zhou L, **Mi QS**

PMID: [27662666](#)

J Radiat Oncol. 2016 Sep;5(3):279-286

**Differential effects of patient-related factors on the outcome of radiation therapy for rectal cancer**

Kato I, Dyson G, Snyder M, **Kim HR**, Severson RK

PMID: [27746859](#)

J Trauma Acute Care Surg. 2016 Oct;81(4):666-73

**Classification and team response to nonroutine events occurring during pediatric trauma resuscitation**

Webman RB, Fritzeen JL, Yang J, Ye GF, Mullan PC, **Qureshi FG**, Parker SH, Sarcevic A, Marsic I, Burd RS

PMID: [27648769](#)

Mol Pharmacol. 2016 Aug 26

**Transcriptional Regulation of Human Cytosolic Sulfotransferase 1C3 by Peroxisome Proliferator-Activated Receptor  $\gamma$  in LS180 Human Colorectal Adenocarcinoma Cells**

Dubaisi S, Fang H, Kocarek TA, **Runge-Morris M**

PMID: [27565680](#)

PLoS One. 2016 Aug 18;11(8):e0161539

**Gene Signature of High White Blood Cell Count in B-Precursor Acute Lymphoblastic Leukemia**

Edwards H, Rubenstein M, Dombkowski AA, Caldwell JT, Chu R, Xavier AC, Thummel R, **Neely M**, Matherly LH, Ge Y, Taub JW

PMID: [27536776](#)

**Animal Models of Streptococcus pyogenes Infection**

Watson ME Jr., **Neely MN**, Caparon MG. Editors

In: Ferretti JJ, Stevens DL, Fischetti VA, editors

Source Streptococcus pyogenes: Basic Biology to Clinical Manifestations [Internet]. Oklahoma City (OK): University of Oklahoma Health Sciences Center; 2016

PMID: [26866224](#)

Gynecol Oncol. 2016 Aug 16

**Is age a prognostic biomarker for survival among women with locally advanced cervical cancer treated with chemoradiation? An NRG Oncology/Gynecologic Oncology Group ancillary data analysis**

Moore KN, Java JJ, Slaughter KN, Rose PG, Lanciano R, DiSilvestro PA, Thigpen JT, Lee YC, Tewari KS, Chino J, **Seward SM**, Miller DS, Salani R, Moore DH, Stehman FB

PMID: [27542967](#)

J Vis Exp. 2016 Aug 14;(114)

**Strategic Endothelial Cell Tube Formation Assay: Comparing Extracellular Matrix and Growth Factor Reduced Extracellular Matrix**

Xie D, Ju D, **Speyer C**, Gorski D, **Kosir MA**

PMID: [27585062](#)

Brain. 2016 Sep 19

**Unbiased screen identifies aripiprazole as a modulator of abundance of the polyglutamine disease protein, ataxin-3**

Costa MD, Ashraf NS, Fischer S, Yang Y, Schapka E, Joshi G, McQuade TJ, Dharia RM, Dulchavsky M, Ouyang M, Cook D, Sun D, Larsen MJ, Gestwicki JE, **Todi SV**, Ivanova MI, Paulson HL

PMID: [27645800](#)

Sci Rep. 2016 Aug 23;6:31742

**COX7AR is a Stress-inducible Mitochondrial COX Subunit that Promotes Breast Cancer Malignancy**

**Zhang K**, Wang G, Zhang X, Hüttemann PP, Qiu Y, Liu J, Mitchell A, Lee I, Zhang C, Lee JS, Pecina P, Wu G, Yang ZQ, Hüttemann M, **Grossman LI**

PMID: [27550821](#)



Lab Invest. 2016 Oct;96(10):1040-9

**Dynamic DNA methylation of matrix metalloproteinase-9 in the development of diabetic retinopathy**

Kowluru RA, Shan Y, Mishra M

PMID: [27454437](#)

Oncotarget. 2016 Aug 30

**Bone marrow adipocytes promote the warburg phenotype in metastatic prostate tumors via HIF-1 $\alpha$  activation**

Diedrich JD, Rajagurubandara E, Herroon MK, Mahapatra G, Hüttemann M, **Podgorski I**

PMID: [27588494](#)

Chem Commun (Camb). 2016 Oct 18;52(85):12590-12593

**Caging the uncageable: using metal complex release for photochemical control over irreversible inhibition**

Huisman M, White JK, Lewalski VG, **Podgorski I**, Turro C, Kodanko JJ

Abstract

PMID: [27711349](#)

Biol Blood Marrow Transplant. 2016 Aug;22(8):1424-30

**Intravenous Busulfan-Based Myeloablative Conditioning Regimens Prior to Hematopoietic Cell Transplantation for Hematologic Malignancies**

Pasquini MC, Le-Rademacher J, Zhu X, Artz A, DiPersio J, Fernandez HF, Mineishi S, Kamishohara M, Mehta J, Nakamura Y, **Ratanatharathorn V**, Sobecks R, Burkart J, Bredeson C

PMID: [27154848](#)

Lancet Oncol. 2016 Sep;17(9):1283-94

**Nivolumab for classical Hodgkin's lymphoma after failure of both autologous stem-cell transplantation and brentuximab vedotin: a multicentre, multicohort, single-arm phase 2 trial**

Younes A, Santoro A, Shipp M, Zinzani PL, Timmerman JM, Ansell S, Armand P, Fanale M, **Ratanatharathorn V**, et al.

PMID: [27451390](#)

Am J Hematol. 2016 Sep;91(9):E341-7

**Incidence, etiology, and outcome of pleural effusions in allogeneic hematopoietic stem cell transplantation.**

Modi D, Jang H, Kim S, **Deol A**, Ayash L, Bhutani D, **Lum LG**, **Ratanatharathorn V**, Manasa R, Mellert K, **Uberti JP**

PMID: [27238902](#)

Eur Urol. 2016 Oct 8

**Nomogram-based Prediction of Overall Survival in Patients with Metastatic Urothelial Carcinoma Receiving First-line Platinum-based Chemotherapy: Retrospective International Study of Invasive/Advanced Cancer of the Urothelium (RISC)**

Necchi A, Sonpavde G, Lo Vullo S, Giardiello D, Bamias A, Crabb SJ, Harshman LC, Bellmunt J, De Giorgi U, Sternberg CN, Cerbone L, Ladoire S, Wong YN, Yu EY, Chowdhury S, Niegisch G, Srinivas S, **Vaishampayan UN**, et al

PMID: [27726966](#)

J Nucl Med. 2016 Oct 27

**Sympathetic Innervation of Cold-Activated Brown and White Fat in Lean Young Adults**

Muzik O, Mangner TJ, Leonard WR, Kumar A, **Granneman JG**

PMID: [27789721](#)

Anticancer Res. 2016 Nov;36(11):5593-5606

**Cancer Immunology and Immunotherapy**

Sukari A, Nagasaka M, Al-Hadidi A, **Lum LG**

PMID: [27793882](#)

Hepatology. 2016 Nov;64(5):1559-1576

**Nogo-B receptor deficiency increases liver X receptor alpha nuclear translocation and hepatic lipogenesis through an adenosine monophosphate-activated protein kinase alpha-dependent pathway.**

Hu W, Zhang W, Chen Y, Rana U, Teng RJ, Duan Y, Liu Z, Zhao B, Foeckler J, Weiler H, Kallinger RE, Thomas MJ, **Zhang K**, Han J Miao QR

PMID: [27480224](#)

Sci Rep. 2016 Sep 23;6:32382

**Altered Biomarkers in Trophoblast Cells Obtained Noninvasively Prior to Clinical Manifestation of Perinatal Disease**

Bolnick JM, Kohan-Ghadr HR, Fritz R, Bolnick AD, Kilburn BA, Diamond MP, **Armant DR**, Drewlo S

PMID: [27660926](#)



PLoS One. 2016 Oct 4;11(10):e0163913

**Regulation of HBEGF by Micro-RNA for Survival of Developing Human Trophoblast Cells**

Jain CV, Jessmon P, Kilburn BA, Jodar M, Sendler E, Krawetz SA, **Armant DR**

**PMID: 27701455**

Invest Ophthalmol Vis Sci. 2016 Oct 1;57(13):5748-5757

**The Role of DNA Methylation in the Metabolic Memory Phenomenon Associated With the Continued Progression of Diabetic Retinopathy**

Mishra M, **Kowluru RA**

**PMID: 27787562**

Clin Genitourin Cancer. 2016 Oct;14(5):432-437. doi: 10.1016/j.clgc.2016.03.011. Epub 2016 Mar 12

**Phase II Study of Pazopanib and Paclitaxel in Patients With Refractory Urothelial Cancer**

Narayanan S, Lam A, **Vaishampayan U**, Harshman L, Fan A, Pachynski R, Poushnejad S, Haas D, Li S, Srinivas S

**PMID: 27068017**

J Biol Chem. 2016 Oct 28;291(44):23149-23158. Epub 2016 Sep 16

**Toll-like Receptor (TLR) Signaling Interacts with CREBH to Modulate High-density Lipoprotein (HDL) in Response to Bacterial Endotoxin**

Dandekar A, Qiu Y, Kim H, Wang J, Hou X, Zhang X, Zheng Z, Mendez R, Yu FS, Kumar A, Fang D, Sun F, **Zhang K**

**PMID: 27637329**

Diabetes. 2016 Sep 15. pii: db160052. [Epub ahead of print]

**Inositol Requiring Enzyme 1 Facilitates Diabetic Wound Healing through Modulating microRNAs**

Wang JM, Qiu Y, Yang ZQ, **Li L, Zhang K**

**PMID: 27634225**

Proc Natl Acad Sci U S A. 2016 Sep 13;113(37):10394-9. doi: 10.1073/pnas.1606742113. Epub 2016 Aug 29

**Endoplasmic reticulum-resident E3 ubiquitin ligase Hrd1 controls B-cell immunity through degradation of the death receptor CD95/Fas**

Kong S, Yang Y, Xu Y, Wang Y, Zhang Y, Melo-Cardenas J, Xu X, Gao B, Thorp EB, Zhang DD, Zhang B, Song J, **Zhang K**, Zhang J, Zhang J, Li H, Fang D

**PMID: 27573825**

Sci Rep. 2016 Sep 1;6:32246

**Glucagon regulates hepatic lipid metabolism via cAMP and Insig-2 signaling: implication for the pathogenesis of hypertriglyceridemia and hepatic steatosis**

Wang H, Zhao M, Sud N, Christian P, Shen J, Song Y, Pashaj A, **Zhang K**, Carr T, Su Q

**PMID: 27582413**

J Biol Chem. 2016 Oct 28;291(44):23149-23158. Epub 2016 Sep 16

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**PMID: 27637329**

**Public link to abstracts on Pub Med TBM Program, Q4, 2016:**

Please click or cut and paste into your browser

<https://www.ncbi.nlm.nih.gov/sites/myncbi/1FYGjcDKXgCAs/collections/51334746/public/>