Accolades and Newsworthy Notes

YOUR BEST CHANCE
Karmanos Cancer Institute has launched a new advertisement campaign starting on April 17. Our marketing team sends their special thanks to those of you who participated in the campaign. The ads will appear on television, radio, digital social media and a dramatic 8 page insert in the Detroit Free Press on April 23.

Click here and keep a lookout for some familiar faces from our Program membership.

https://www.youtube.com/watch?v=FDf19HrUDN0&index=2&list=PLCZIeQvSw9_EwAZITrqZ0ToBGsUtGs8ws

Cancer Warriors academic quest for excellence

The Leonard N. Simons Award for exemplary research and scholarly achievement was granted to Mr. John Diedrich, a scholar mentoring with Dr. Izabela Podgorski. The award was presented on March 31 at the 7th annual cancer biology research symposium. John's work was titled "Bone marrow adipocyte-derived lipids alters the metabolic phenotype of metastatic prostate cancer cells through activation of HIF-1α". John is shown here (with his trophy) along with Mary Lou Zieve, daughter of Leonard N. Simons, and Dr. Podgorski. Cheers!

In addition, many of our Program faculty members and their protégé participated in this annual event. Specific nods go to our members who served as Judges including Drs. Benjamin Kidder, Sreenivasa Chinni, Kang Chen, Daniel Bonfil, Karin List, Izabela Podgorski, and Youming Xie.

In the spirited pursuit of academics and scientific training

Dr. Kang Chen shared news that Wayne State announced Mr. Michael Pawlitz, a master’s scholar in his lab, received first place in the university wide graduate and post doc symposium. Mr. Pawlitz’ work was titled “Interleukin 33 induced expression of PIBF1 by decidual B cells protect against preterm labor”.

Dr. Shijie Sheng acknowledged her undergraduate student, Ms. Maria Matta, who received an award at the Wayne State University Undergraduate Research and Creative Projects Conference. Maria has gone on to present her work at other conferences and has been approached by academic recruiters in research and medical programs.

Drs. Rafi Fridman, Sijana Dzinic, Margardia Bernardo and colleagues have designed a new curriculum focusing on the key hallmarks of cancer. This new biology class will be offered to undergraduates and pre-med students at Wayne State. Their plan includes laboratory approaches using cell lines and animal models.

Dr. Margarida Bernardo notes their new publication titled ‘The opportunity of precision medicine for breast cancer with context sensitive tumor suppressor maspin’. Joining Dr. Bernardo (as first author) on the marquee are Sijana H. Dzinic, Maria J Matta, Ivory Dean, Lina Saker and Shijie Sheng. Please remember Dr. Dean was a previous student with us.

http://onlinelibrary.wiley.com/doi/10.1002/jcb.25969/epdf
Pathology Lecture Series

Program Leader and members Drs. Shijie Sheng, Wael Sakr and Rodrigo Fernandez-Valdivia are busy with the Pathology Lecture Series at Wayne State. Look for future posting on the Wayne Calendar of Events. On April 19 the speaker will be Dr. Ivory S. Dean, a former scholar in our cancer biology program.

New Funding $$

.....to borrow a quote and some words of wisdom.....

“I love mathematics and that has helped humans abstractly think deeper about the essence of the universe”

Dr. Jeffrey Tseng, humbly shared news of a new award announced on March 14, 2017. The NIH project is titled: Database and Tools for Functional Inference and Mechanistic Insight into Somatic Cancer Mutations. Our Wayne State collaborators share this NCI, NIH award with Dr. Jie Liang at University of Illinois at Chicago. R01CA204962.

Dr. Tseng mentored under Dr. Jie Liang to develop strategies in computational geometry in addition to algebraic topology and knot theory. Cheers!

Follow these links to the fine work of Drs. Tseng and Liang:

http://pocket.med.wayne.edu/ytseng/
http://gila.bioe.uic.edu/lab/

Our university news

Wayne State – please note the importance of mathematics and add it back to your undergraduate general education requirement!

Our nation “March for Science” initiative

https://www.marchforscience.com/event-details/

National Meeting AACR

The American Association for Cancer Research held it’s annual meeting in Washington DC. This organization is dedicated to prevent and cure cancer through research, education, communication, and collaboration.

Donghong Ju, who frequently participates in our Program meetings, presented a poster co-authored with Dr. Mary Kosir titled “Characterize and identify secreted high molecular weight heparanse from PC3M conditioned medium”; abstract # 946.

Cheers!

Hot off the Press – SELECTION OF PUBLICATIONS

Nucleic Acids Res. 2017 Apr 10

H3K4 demethylase KDM5B regulates global dynamics of transcription elongation and alternative splicing in embryonic stem cells
He R, Kidder BL
PMID: 28402433
Cilia. 2017 Apr 10:6-7
Mutations in IFT-A satellite core component genes IFT43 and IFT121 produce short rib polydactyly syndrome with distinctive campomelia
PMID: 28400947

Hum Reprod. 2017 Apr 10:1-12
Enhancement of trophoblast differentiation and survival by low molecular weight heparin requires heparin-binding EGF-like growth factor
Bolnick AD, Bolnick JM, Kohan-Ghadr HR, Kilburn BA, Pasalodos OJ, Singhal PK, Dai J, Diamond MP, Armant DR, Drewlo S
PMID: 28402449

J Neurochem. 2017 Apr 6
Dimethyl Fumarate Ameliorates Myoclonus Stemming From Protein Misfolding In Oligodendrocytes
Southwood CM, Garshott DM, Richardson CR, Seraji-Bozorgzad N, Fribery AM, Gow A
PMID: 28382685

Visualizing Science helps us to understand how studies are conducted
Kezhong Zhang co-stars with college Jie-Mei Wang in this instructional video publication. Dr. Jie Mei Wang will be speaking at our Program meeting on June 12. See you there.

J Vis Exp. 2016 Dec 19;(118)
Isolation and Primary Culture of Mouse Aortic Endothelial Cells.
Wang JM, Chen AF, Zhang K
PMID: 28060318

Analysis of Termination of Transcription Using BrUTP-strand-specific Transcription Run-on (TRO) Approach
Dhoondia Z, Tarockoff R, Alhusini N, Medler S, Agarwal N, Ansari A
Abstract This manuscript describes a protocol for detecting transcription termination defect in vivo. The strand-specific
PMID: 28362387

Understanding vision also helps us to understand the cell microenvironment
Role of oxidative stress in epigenetic modification of MMP-9 promoter in the development of diabetic retinopathy
Kowluru RA, Shan Y
PMID: 28124145 and Erratum PMID: 28246894

Erratum to: Role of oxidative stress in epigenetic modification of MMP-9 promoter in the development of diabetic retinopathy
Kowluru RA, Shan Y
PMID: 28246894
BJU Int. 2017 Feb 15
Calculating life expectancy to inform prostate cancer screening and treatment decisions.
Hawken SR, Auffenberg GB, Miller DC, Lane BR, Cher ML, Abdollah F, Cho H, Ghani KR
Michigan Urological Surgery Improvement Collaborative. PMID: 28199761

Cancer Med. 2017 Apr 16
Characterizing the outcomes of metastatic papillary renal cell carcinoma
PMID: 28414866

Laryngoscope. 2017 Mar 8
Definitive chemoradiotherapy with carboplatin for squamous cell carcinoma of the head and neck
Nagasaka M, Zaki M, Issa M, Kim H, Abrams J, Sukari A
PMID: 28271529

Int J Gynecol Pathol. 2017 Mar 8.
The Impact of Androgen Receptor Expression on Endometrial Carcinoma Recurrence and Survival.
PMID: 28277313

Hypochlorite converts cysteinyldopamine into a cytotoxic product: A possible factor in Parkinson's Disease
Mehta NJ, Asmaro K, Hermiz DJ, Njus MM, Saleh AH, Beningo KA, Njus D
PMID: 27682361

Pancreatic Cancer Cell Lysis by Cell-Penetrating Peptide-MAGE-A3-Induced Cytotoxic T Lymphocytes.
Batchu RB, Gruzdyn OV, Qazi AM, Mahmud EM, Mostafa G, Weaver DW, Gruber SA
PMID: 27851862

This work was noted in Mammary Cell News via twitter. Should your interest be peaked, here’s the link to subscribe: https://twitter.com/MammaryCell

J Cell Biochem. 2017 Mar 6
The Opportunity of Precision Medicine for Breast Cancer With Context-Sensitive Tumor Suppressor Maspin.
Bernardo MM, Dzinic SH, Matta MJ, Dean I, Saker L, Sheng S
PMID: 28262971

Anti-tumor activity of selective inhibitor of nuclear export (SINE) compounds, is enhanced in non-Hodgkin lymphoma through combination with mTOR inhibitor and dexamethasone
PMID: 27693556

Nanomedicine. 2017 Feb;13(2):421-429
Design principles for noninvasive, longitudinal and quantitative cell tracking with nanoparticle-based CT imaging.
Meir R, Betzer O, Motiei M, Kronfeld N, Brodie C, Popovtzer R
PMID: 27720990

Molecular Basis of ABHD5 Lipolysis Activation
Sanders MA, Zhang H, Mladenovic L, Tseng YY, Granneman JG
PMID: 28211464
Marked increase in urinary excretion of apolipoproteins in children with nephrolithiasis associated with hypercalciuria.

Kovacevic L, Lu H, Caruso JA, Govil-Dalela T, Thomas R, Lakshmanan Y

PMID: 28188435

Activated thrombin-activatable fibrinolysis inhibitor attenuates the angiogenic potential of endothelial cells: potential relevance to the breast tumour microenvironment

Bazzi ZA, Balun J, Cavallo-Medved D, Porter LA, Boffa MB

PMID: 28124276

Classification-based quantitative analysis of stable isotope labeling by amino acids in cell culture (SILAC) data.

Kim S, Carruthers N, Lee J, Chinni S, Stemmer P

PMID: 28110720

Lipid droplet biology and evolution illuminated by the characterization of a novel perilipin in teleost fish


PMID: 28244868

Adrenal Histologic Stress-related Changes in Third Trimester Stillbirth

Jacques SM, Qureshi F

PMID: 28326964

SMYD5 regulates H4K20me3-marked heterochromatin to safeguard ES cell self-renewal and prevent spurious differentiation

Kidder BL, Hu G, Cui K, Zhao K

PMID: 28250819

Parathyroid Hormone-Related Peptide: A Novel Endocrine Cardioprotective "Conditioning Mimetic"

Datta T, Przyklenk K, Datta NS

PMID: 28403647

Structural basis of PDZ-mediated chemokine receptor CXCR2 scaffolding by guanine nucleotide exchange factor PDZ-RhoGEF


PMID: 28179147

Fumonisin B1 Inhibits Endoplasmic Reticulum Stress Associated-apoptosis After FoscanPDT Combined with C6-Pyridinium Ceramide or Fenretinide

Boppana NB, Kraveka JM, Rahmaniyan M, Li LI, Bielawska A, Bielawski J, Pierce JS, Delor JS, Zhang K, Korbelik M5, Separovic D

PMID: 28179290

HDAC4 is expressed on multiple T cell lineages but dispensable for their development and function


PMID: 28177888
Nanoconjugate-bound adenosine A1 receptor antagonist enhances recovery of breathing following acute cervical spinal cord injury
PMID: 28220308

Illuminating cytochrome P450 binding: Ru(ii)-caged inhibitors of CYP17A1
PMID: 28304025

The potential roles of radionanomedicine and radioexosomic in prostate cancer research and treatment.
Bakht MK, Oh SW, Hwang DW, Lee YS, Youn H, Porter LA, Cheon GJ, Kwak C, Lee DS, Kang KW
PMID: 28215159

The opportunity of precision medicine for breast cancer with context sensitive tumor suppressor maspin.

Second author, Dr. Omid Tehrani, is a past scholar in our cancer biology program and also completed his fellowship in our oncology fellowship program. Cheers to this collaboration.
Nivolumab treatment for advanced renal cell carcinoma: Considerations for clinical practice
Joseph RW, Chatta G, Vaishampayan U
PMID: 28259541

JAMA Oncol. 2017 Mar 30
Abiraterone Acetate for Metastatic Prostate Cancer in Patients With Suboptimal Biochemical Response to Hormone Induction
Flaig TW, Plets M, Hussain MH, Agarwal N, Mitsiades N, Deshpande HA, Vaishampayan UN, Thompson IM Jr
PMID: 28358937

Oncologist. 2017 Mar 17
Academic Cancer Center Phase I Program Development
PMID: 28314841

Curr Opin Oncol. 2017 Mar 18
Changing face of metastatic prostate cancer: the law of diminishing returns holds true
Vaishampayan UN
PMID: 28323658

Clin Genitourin Cancer. 2017 Feb 27
Clinical Outcomes of Perioperative Chemotherapy in Patients With Locally Advanced Penile Squamous-Cell Carcinoma: Results of a Multicenter Analysis
PMID: 28325636

AMA Oncol. 2016 Dec 22
Association Between Benign Breast Disease in African American and White American Women and Subsequent Triple-Negative Breast Cancer
PMID: 28006062

Dr. Modi is a currently a fellow in our oncology fellowship program.

Support Care Cancer. 2017 Apr 2
Fluoroquinolone prophylaxis in autologous hematopoietic stem cell transplant recipients
PMID: 28365897