



Accolades and Newsworthy Notes

December 11, 2015

Dr. Gerold Bepler announced **Ulka Vaishampayan, M.D.**, as the new division chief for Solid Tumor Oncology within the Department of Oncology at Wayne State University School of Medicine. Dr. Vaishampayan was also officially appointed as the director for the Eisenberg Center for Translational Therapeutics after serving as interim director for nearly two years.

As our Program member and colleague, Dr. Vaishampayan, is highly respected for her clinical and research expertise. She has headed up the Karmanos Genitourinary Multidisciplinary Team since 2005 and treats patients at Karmanos' main campus and the Weisberg Center Treatment Center. She has held a number of national committee appointments, including chair of the GU Group of the National Cancer Institute Phase II Clinical Trial Consortium, co-chair of the California Consortium GU Clinical Trials and is a member of the American Society of Clinical Oncology.

Congratulations Dr. Vaishampayan !

Recent presentations, abstracts and posters

Our Program members Drs. **Wei Zen Wei** and **Deb Skarfar** guide new scientists to accolades !



February 2016

Congratulations to Heather Gibson, PhD, in training with Dr. Wei Zen Wen. Heather won the first place award for the Best Oral Presentation at the 2016 Translational Research Cancer Centers Consortium hosted by Penn State Hershey. Heather's work was titled Genetic mapping analysis in diversity outbred mice to identify regulators of cancer vaccine response. Cheers and Congratulations !

2016 – Wayne State annual award

Deb Skarfar is noted as the mentor to Shivali Patel whose poster won second place at the Wayne State Medical Student Research Symposium under the Basic Science Poster category.

Their work is titled "Elevated estradiol compromises trophoblast survival in first trimester human trophoblast cells"

Here's a link: <http://studentaffairs.med.wayne.edu/symposium.php>

New Funding \$\$\$\$



*Perhaps you have already heard the news that our Program member Dr. **Guangzhao Mao** is a collaborator on a donation funding awarded to Dr. Malathy Shekhar (MT Program). The team uses tiny gold nanoparticles to enter porous melanoma cells and damage Rad6.*

Here's a link to the story

<http://prognosis.med.wayne.edu/article/cancer-biology-professor-engineering-collaborator-receive-17000-to-research-nanotechnology-and-melanoma>

Dr. **Nallasivam Palanisamy**, our Program member, and our colleague at Henry Ford Health System and the University of Michigan, received terrific news from the Department of Defense. His proposal titled "Comprehensive molecular profiling of prostate cancer in African American population – unraveling molecular heterogeneity" was awarded under the DOD established investigator grant mechanism. Dr. Palanisamy is currently negotiating the contract with the DOD.



Hot off the Press – SELECTION OF PUBLICATIONS

Kim S, Jang H, Wu D, **Abrams J**

J Biom Biostat. 2015 Dec;6(5). pii: 271. Epub 2015 Dec 30.

A Bayesian nonlinear mixed-effects disease progression model PMID: 26798562

Ndombera FT, VanHecke GC, Nagi S, **Ahn YH**

Bioorg Med Chem Lett. 2016 Jan 22. [Epub ahead of print]

Carbohydrate-based inducers of cellular stress for targeting cancer cells PMID: 26832785

Nakajima K, Kho DH, Yanagawa T, Harazono Y, Hogan V, Chen W, **Ali-Fehmi R**, Mehra R, **Raz A**

Cancer Res. 2016 Feb 2. [Epub ahead of print]

Galectin-3 cleavage alters bone remodeling: Different outcomes in breast and prostate cancer skeletal metastasis

PMID: 26837763

Kohan-Ghadr HR, Kadam L, Jain C, **Armant DR**, Drewlo S

Cell Adh Migr. 2016 Jan 8:0. [Epub ahead of print]

Potential role of epigenetic mechanisms in regulation of trophoblast differentiation, migration, and invasion in the human placenta PMID: 26745760

Bolnick AD, Fritz R, Jain C, Kadam L, Bolnick JM, Kilburn BA, Singh M, Diamond MP, Drewlo S, **Armant DR**

Reprod Sci. 2016 Feb 25. pii: 1933719116632922. [Epub ahead of print]

Trophoblast Retrieval and Isolation From the Cervix for Noninvasive, First Trimester, Fetal Gender Determination in a Carrier of Congenital Adrenal Hyperplasia PMID: 26919977

Oliveira DS, Dzinic S, Bonfil AI, Saliganan AD, **Sheng S**, **Bonfil RD**

Bosn J Basic Med Sci. 2016 Feb 10. [Epub ahead of print]

The mouse prostate: a basic anatomical and histological guideline PMID: 26773172

Parajuli P, Anand R, Mandalaparty C, Suryadevara R, Sriranga PU, Michelhaugh SK, Cazacu S, Finniss S, **Thakur A**, **Lum LG**, Schalk D, **Brodie C**, Mittal S

Oncotarget. 2016 Jan 8. [Epub ahead of print]

Preferential expression of functional IL-17R in glioma stem cells: potential role in self-renewal PMID: 26755664

Wong EH, **Revankar SG**

Infect Dis Clin North Am. 2016 Mar;30(1):165-78. doi: 10.1016/j.idc.2015.10.007.

Dematiaceous Molds PMID: 26897066

Saka B, Balci S, Basturk O, Bagci P, Postlewait LM, Maithele S, Knight J, El-Rayes B, Kooby D, Sarmiento J, Muraki T, Oliva I, **Bandyopadhyay S**, Akkas G, Goodman M, Reid MD, Krasinskas A, Everett R, Adsay V

Ann Surg Oncol. 2016 Jan 29. [Epub ahead of print]

Pancreatic Ductal Adenocarcinoma is Spread to the Peripancreatic Soft Tissue in the Majority of Resected Cases, Rendering the AJCC T-Stage Protocol (7th Edition) Inapplicable and Insignificant: A Size-Based Staging System (pT1: ≤ 2 , pT2: $>2-\leq 4$, pT3: >4 cm) is More Valid and Clinically Relevant PMID: 26832882

Cornely OA, Duarte RF, Haider S, **Chandrasekar P**, Helfgott D, Jiménez JL, Candoni A, Raad I, Laverdiere M, Langston A, Kartsonis N, Van Iersel M, Connelly N, Waskin H J Antimicrob Chemother. 2015 Nov 26. [Epub ahead of print]

Phase 3 pharmacokinetics and safety study of a posaconazole tablet formulation in patients at risk for invasive fungal disease.

PMID: 26612870

Kovacevic L, Lu H, **Caruso JA**, Lakshmanan Y

Urology. 2016 Feb 15. [Epub ahead of print]

Renal Tubular Dysfunction in Pediatric Urolithiasis: Proteomic Evidence PMID: 26892647



Ho WS, Feldman MJ, Maric D, Amable L, Hall MD, **Feldman GM**, Ray-Chaudhury A, Lizak MJ, Vera JC, Robison RA, Zhuang Z, Heiss JD
Oncotarget. 2016 Jan 21. [Epub ahead of print]

PP2A inhibition with LB100 enhances cisplatin cytotoxicity and overcomes cisplatin resistance in medulloblastoma cells

PMID: 26799670

Denninger AR, Breglio A, Maheras KJ, LeDuc G, Cristiglio V, Demé B, **Gow A**, Kirschner DA

Biophys J. 2015 Oct 6;109(7):1387-97. doi: 10.1016/j.bpj.2015.08.012.

Claudin-11 Tight Junctions in Myelin Are a Barrier to Diffusion and Lack Strong Adhesive Properties **PMID: 26445439**

Lee YH, Kim SN, Kwon HJ, **Maddipati KR, Granneman JG**

Am J Physiol Regul Integr Comp Physiol. 2015 Nov 4 [Epub ahead of print]

Adipogenic role of alternatively-activated macrophages in β -adrenergic remodeling of white adipose tissue

PMID: 26538237

Sheng JJ, **Jin JP**

Gene. 2016 Jan 15;576(1 Pt 3):385-94. Epub 2015 Oct 23.

TNNI1, TNNI2 and TNNI3: Evolution, regulation, and protein structure-function relationships **PMID: 26526134**

Maurer SF, Fromme T, **Grossman LI**, Hüttemann M, Klingenspor M

Sci Rep. 2015 Dec 4;5:17704.

The brown and brite adipocyte marker Cox7a1 is not required for non-shivering thermogenesis in mice **PMID: 26635001**

...This paper preceded Dr Grossman's membership

Horsch M, Aguilar-Pimentel JA, Bönisch C, Côme C, Kolster-Fog C, Jensen KT, Lund AH, Lee I, **Grossman LI**, Sinkler C, Hüttemann M, Bohn E, Fuchs H, Ollert M, Gailus-Durner V, de Angelis MH, Beckers J

PLoS One. 2015 Aug 11;10(8):e0134503. eCollection 2015.

Cox4i2, Ifit2, and Prdm11 Mutant Mice: Effective Selection of Genes Predisposing to an Altered Airway Inflammatory Response from a Large Compendium of Mutant Mouse Lines **PMID: 26263558**

Abernathy LM, Fountain MD, Rothstein SE, David JM, Yunker CK, Rakowski J, Lonardo F, Joiner MC, **Hillman GG**

J Thorac Oncol. 2015 Dec;10(12):1703-12.

Soy Isoflavones Promote Radioprotection of Normal Lung Tissue by Inhibition of Radiation-Induced Activation of Macrophages and Neutrophils **PMID: 26709479**

Mustapha Kandouz is one of numerous authors on a new work titled

Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition).

Autophagy. 2016 Jan 2;12(1):1-222. **PMID: 26799652**

Fountain MD, Abernathy LM, **Lonardo F**, Rothstein SE, Dominello MM, Yunker CK, Chen W, Gadgeel S, Joiner MC, **Hillman GG**

Front Oncol. 2015 Oct 21;5:238. eCollection 2015.

Radiation-Induced Esophagitis is Mitigated by Soy Isoflavones **PMID: 26557504**

Zhang T, Pereyra AS, Wang ZM, Birbrair A, Reisz JA, Files DC, Purcell L, Feng X, Messi ML, Feng H, Chalovich J, **Jin JP**, Furdui C, Delbono O

Aging Cell. 2016 Feb 19. [Epub ahead of print]

Calpain inhibition rescues troponin T3 fragmentation, increases Cav1.1, and enhances skeletal muscle force in aging sedentary mice **PMID: 26892246**

Romero R, Chaemsaitong P, Docheva N, Korzeniewski SJ, Kusanovic JP, Yoon BH, Kim JS, Chaiyasit N, Ahmed AI, Qureshi F, **Jacques SM**, Kim CJ, Hassan SS, Chaiworapongsa T, Yeo L, Kim YM

J Perinat Med. 2016 Jan 1;44(1):33-51.

Clinical chorioamnionitis at term VI: acute chorioamnionitis and funisitis according to the presence or absence of microorganisms and inflammation in the amniotic cavity **PMID: 26352071**



Mishra M, Flaga J, **Kowluru RA**

J Cell Physiol. 2015 Nov 24.

Molecular Mechanism of Transcriptional Regulation of Matrix Metalloproteinase-9 in Diabetic Retinopathy PMID: 26599598

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Cancer. 2015 Sep 15;121(18):3261-71. Epub 2015 Jun 2.

Estrogen and colorectal cancer incidence and mortality PMID: 26036212

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Biol Blood Marrow Transplant. 2016 Jan 28. [Epub ahead of print]

Targeting Clonogenic Myeloma Precursor Cells (CMPC) Decreases CMPC and Induces Transferable Anti-Myeloma Immunity
PMID: 26827660

Thakur A, Lum LG

Expert Opin Biol Ther. 2016 Feb 5. [Epub ahead of print]

"NextGen" Biologics: Bispecific Antibodies and Emerging Clinical Results PMID: 26848610

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Curr Drug Targets. 2015 Dec 9. [Epub ahead of print]

Dysregulated Chemokine Signaling in Cystic Fibrosis Lung Disease: A Potential Therapeutic Target PMID: 26648071

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

Allergy. 2016 Mar 7. doi: 10.1111/all.12871. [Epub ahead of print]

TGF- β 1-induced transcription factor networks in Langerhans cell development and maintenance. PMID: 26948524

Waibel JS, **Mi QS**, Ozog D, Qu L, Zhou L, Rudnick A, Al-Niaimi F, Woodward J, Campos V, Mordon S

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Laser-assisted delivery of vitamin C, vitamin E, and ferulic acid formula serum decreases fractional laser postoperative recovery by increased beta fibroblast growth factor expression PMID: 26612341

Yeon Paek S, Han L, Weiland M, Lu CJ, McKinnon K, Zhou L, Lim HW, Elder JT, **Mi QS**

IUBMB Life. 2015 Nov 24. [Epub ahead of print]

Emerging biomarkers in psoriatic arthritis PMID: 26602058

Fahs F, Bi X, Yu FS, Zhou L, **Mi QS**

IUBMB Life. 2015 Nov 23. [Epub ahead of print]

New insights into microRNAs in skin wound healing PMID: 26596866

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J Immunol. 2016 Feb 1;196(3):1044-59. Epub 2016 Jan 6.

Invariant NKT Cell Activation Induces Late Preterm Birth That Is Attenuated by Rosiglitazone PMID: 26740111

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Prostate. 2016 Jan 6. doi: 10.1002/pros.23135. [Epub ahead of print]

The interaction between androgen receptor and PDGF-D in the radiation response of prostate carcinoma.
PMID: 26732854

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Small. 2015 Dec 16. [Epub ahead of print] **Size-Dependent Toxicity of Gold Nanoparticles on Human Embryonic Stem Cells and Their Neural Derivatives** PMID: 26676601



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World J Gastrointest Pathophysiol. 2015 Nov 15;6(4):86-9. **Role of cancer stem cells in age-related rise in colorectal cancer**
PMID: 26600965

Al Sorkhy M, Fifield BA, Myers D, **Porter LA**

Cell Cycle. 2016 Jan 2;15(1):128-36.

Direct interactions with both p27 and Cdk2 regulate Spy1-mediated proliferation in vivo and in vitro **PMID: 26771716**

Li A, White JK, Arora K, Herroon MK, Martin PD, Schlegel HB, **Podgorski I**, Turro C, Kodanko JJ

Inorg Chem. 2015 Dec 15. [Epub ahead of print]

Selective Release of Aromatic Heterocycles from Ruthenium Tris(2-pyridylmethyl)amine with Visible Light **PMID: 26670781**

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Urol Oncol. 2015 Dec 22. [Epub ahead of print]

SPINK1 expression in relation to PTEN and ERG in matched primary and lymph node metastatic prostate cancer: Implications for biomarker development **PMID: 26725250**

Muthu M, Somagoni J, Cheriyian VT, Munie S, Levi E, Ashour AE, Yassin AE, Alafeefy AM, Sochacki P, Polin LA, **Reddy KB**, Larsen SD, Singh M, Rishi AK

J Biomed Nanotechnol. 2015 Sep;11(9):1608-27

Identification and Testing of Novel CARP-1 Functional Mimetic Compounds as Inhibitors of Non-Small Cell Lung and Triple Negative Breast Cancers **PMID: 26485930**

Ahmed RS, Liu G, Renzetti A, Farshi P, Yang H, Soave C, **Saed G**, El-Ghoneimy AA, El-Banna HA, Foldes R, Chan TH, Dou QP

J Cell Biochem. 2016 Mar 7. [Epub ahead of print]

Biological and Mechanistic Characterization of Novel Prodrugs of Green Tea Polyphenol Epigallocatechin Gallate Analogs in Human Leiomyoma Cell Lines **PMID: 26950525**

Fertil Steril. 2016 Feb 23. pii: S0015-0282(16)00093-5. [Epub ahead of print]

Adhesion phenotype manifests an altered metabolic profile favoring glycolysis.

Fletcher NM, Awonuga AO, Abusamaan MS, Saed MG, Diamond MP, **Saed GM** **PMID: 26920255**

Cloutier SC, Wang S, Ma WK, Al Husini N, Dhoondia Z, **Ansari A**, Pascuzzi PE, Tran EJ

Mol Cell. 2016 Feb 4;61(3):393-404. Epub 2016 Jan 28.

Regulated Formation of lncRNA-DNA Hybrids Enables Faster Transcriptional Induction and Environmental Adaptation
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Ullah MF, Ahmad A, Bhat SH, Khan HY, Zubair H, **Sarkar FH**, Hadi SM

Biomaterials. 2016 Feb 12. [Epub ahead of print]

Simulating hypoxia-induced acidic environment in cancer cells facilitates mobilization and redox-cycling of genomic copper by daidzein leading to pro-oxidant cell death: implications for the sensitization of resistant hypoxic cancer cells to therapeutic challenges **PMID: 26872803**

Mahal K, Ahmad A, Sethi S, Resch M, Ficner R, **Sarkar FH**, Schobert R, Biersack B

Cell Oncol (Dordr). 2015 Dec;38(6):463-78. Epub 2015 Sep 10.

Role of JNK and NF- κ B in mediating the effect of combretastatin A-4 and brimamin on endothelial and carcinoma cells
PMID: 26358135

Suresh R, Ali S, Ahmad A, Philip PA, **Sarkar FH**

Adv Exp Med Biol. 2016;890:57-74.

The Role of Cancer Stem Cells in Recurrent and Drug-Resistant Lung Cancer **PMID: 26703799**

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Mol Nutr Food Res. 2016 Jan 22. [Epub ahead of print]

The bounty of nature for changing the cancer landscape **PMID: 26799714**



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Mol Cell Endocrinol. 2015 Dec 15;418. Epub 2015 Jul 13.

Modulation of nuclear receptor activity by the F domain. PMID: 26184856

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Methods. 2016 Feb 4. pii: S1046-2023(16)30017-2. doi: 10.1016/j.ymeth.2016.01.019. [Epub ahead of print]

Rapid high mass resolution mass spectrometry using matrix-assisted ionization PMID: 26835606

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J Biol Chem. 2016 Feb 25. pii: jbc.M115.703504. [Epub ahead of print]

USP5 is dispensable for mono-ubiquitin maintenance in Drosophila PMID: 26917723

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Lancet Oncol. 2016 Jan 12. [Epub ahead of print] **Everolimus versus sunitinib for patients with metastatic non-clear cell renal cell carcinoma (ASPEN): a multicentre, open-label, randomised phase 2 trial PMID: 26794930**

Venkatareddy M, Verma R, Kalinowski A, Patel SR, **Shisheva A**, Garg P

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Distinct Requirements for Vacuolar Protein Sorting 34 Downstream Effector Phosphatidylinositol 3-Phosphate 5-Kinase in Podocytes Versus Proximal Tubular Cells PMID: 26825532

Public link to abstracts on Pub Med TBM Program, Q1, 2016:

<http://www.ncbi.nlm.nih.gov/sites/myncbi/1FYGjcDKXgCAs/collections/49294255/public/>