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Depar men of Cell Biolog and Biochemis r
3601 4th S S op 6540
L bblock, TX 79430
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Fa : (806) 743-2990
E-mail: ang_om.d.bh_ia@_hsc.ed

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Ad iser: Dr. De endra S ar p
Indian Ve erinar Research Ins i e, I a nagar, U ar Pradesh, India

2001-2004 **1 0<5/(1 ":"-69?:(.#(@A.#.5"A(06-69.#"9>(1 68.5.#6(**
Ad iser: Dr. D.S. Tir mala Rao
Achar a N.G. Ranga Agric l ral Uni ersi , Andhra Pradesh, India

1996-2001 **) 0 1 /(06-69.#"9>(<5.6#56(**
Mara h ada Agric l ral Uni ersi , Parbhani, Maharash ra, India

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Febr ar 2023 **7 : :&5."-6(29&46::&9((Ten red), Te as Tech Uni ersi Heal h Sciences Cen er, L bblock, TX 79430**
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2022-2023 **7 : :&5."-6(29&46::&9((Ten re Track), Te as Tech Uni ersi Heal h Sciences Cen er, L bblock, TX 79430**

2017-2022 **7 : .:-"#-(29&46::&9(**

- 2009-2011 **2&:-8&5-&9"A(C6AA&D(** i h Dr. Rajgopal Go indarajan, Uni ersi of Georgia, School of Pharmac , A hens, GA 30602
- 2008-2009 **B6:6"95+(7 :.:.-#-(** i h Dr. De endra S ar p, Cen ral Zoo A hori , Minis r of En ironmen , Indian Ve erinar Research Ins i e, I a nagar, U ar Pradesh, India

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- 2021-presen Member of he TTUHSC Cancer Cen er, Te as Tech Uni ersi Heal h Sciences Cen er, School of Medicine, L bbock, TX
- 2020-presen Member of he Biochemis r , Cell lar, and Molec lar Biolog program, Grad a e School of Biomedical Sciences, Te as Tech Uni ersi Heal h Sciences Cen er, L bbock, TX

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	GBTC 5340	Biolog of Cancer	The Biolog of Pancrea ic Cancer	2020- 2021
	GBTC 5020	Bio echnolog Lab Me hods	Transpor Assa	2020- presen

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Bradle Schniers (2018-2022): Bradle grad a ed i h a Ph.D. in Biochemis r and Cell and Molec lar Biolog (BCMB), TTUHSC in Ma 2022. He is firs a hor on o original papers p blished in *Biochemical Journal* and is also a co-a hor in an original paper p blished in *Asian Journal of Pharmaceutical Sciences*. He presen ed his ork a he AACR Ann al mee ing 2019, in A lan a GA as ell as a he TTUHSC Ann al S den Research Week 2019, 2020, and 2021. A he Ann al S den Research Week 2019, his abs rac as selec ed for he *Student Select Talk* and on he hird pri e for his pos er presen a ion. He as also a arded he

He also on he firs pri e in he Bioss AB s grea es s ain con es for IHC and is c rren l orking as a Vaccine Research Scien is a Bimeda Biologicals a San Angelo, Te as.

Ksenija Korac (2019-2022): Ksenija grad a ed i h a Ph.D. in Biochemis r and Cell and Molec lar Biolog (BCMB), TTUHSC in Ma 2023. In her research, Ksenija foc sed on SLC6A14, an amino acid ranspor er and indoleamine dio genase 1 (IDO1), a r p ophan ca aboli ing en me as dr g arge s for pancrea ic cancer. She finds ha Carbidopa, an FDA-appro ed dr g for Parkinson s disease, inhibi s bo h SLC6A14 and IDO1 a he ranscrip ional le el in pancrea ic cancer cells leading o a en a ion of mor gro h in enograf mo se models. She presen ed her ork a he TTUHSC Ann al

Mosharaf Mahmud-Sed: Mosharaf is a 3rd year PhD graduate in molecular laborator. He started working here in January of 2022 and officially joined my group in May 2022. Mosharaf works on pancreatic cancer wherein he focuses on understanding the inhibition of SLC6A14, an amino acid transporter and a major promoter of endocytosis and macropinocytosis, both of which are nutrient scavenging mechanisms and hereby partially compensate for the loss of SLC6A14 function. If this is true, Mosharaf's research will show that the inhibition both SLC6A14 and endocytosis/macropinocytosis will lead to a therapeutic outcome in pancreatic cancer.

Tanima Sharker: Tanima is a second year PhD graduate in molecular laborator. She started working here in January of 2023 and officially joined in April 2023. Tanima's project involves generation of pancreatic cancer organoids and is

Biochemistry . He is currently working as a Postdoctoral Fellow at NCI, Bethesda MD.

Timothee Brown, 2017-2020: Dissertation Committee Member, Cell Biology and Biochemistry . He is currently continuing his Radiology Residency at TTUHSC.

Jonathan Koppel, 2018-2021: Dissertation Committee Member, Cell Biology and Biochemistry . He is currently continuing his MD program at TTUHSC.

José Enrique, 2018-2022: Dissertation Committee Member, Immunology and Molecular Microbiology . He is currently working as a Postdoctoral fellow at Netherlands.

Kelin Bass, 2019-present: Dissertation Committee Member, Cell Biology and Biochemistry .

Samanika Dala, 2021-present: Dissertation Committee Member, Cell Biology and Biochemistry .

Marilin Mache, 2022-present: Dissertation Committee Member, Cell Biology and Biochemistry .

Tasmin Om, 2022-present: Dissertation Committee Member, Cell Biology and Biochemistry .

Geeha Priya Boligala, 2022-present: Dissertation Committee Member, Cell Biology and Biochemistry .

Ganesh Acharya, 2023-: Dissertation Committee Member, Cell Biology and Biochemistry .

Nh On, 2018-2019: Nh as a TTU CISER Scholar ho joined m labora or for an ndergrad e research. I also men ored her for her Research Credi (BIOL 4300). In her research, Nh sed me formin, hich is an FDA-appro ed dr g for T pe 2 diabe es o arge SLC6A14 in pancrea ic cancer. She made significant progress in her projec and e are c rren l ge ing he man scrip read o s bmi o *Biochemical Journal* i h her as he firs a hor. She presen ed her ork a he 10th Te as Tech Ann al Biological Sciences S mposi m a Te as Tech Uni ersi , L bbock TX. April 26-27, 2019 and also a he TTU Undergrad a e Research Conference. She is also a co-a hor in an original aricle p blished in *Asian Journal of Pharmaceutical Sciences*. She is c rren l orking as a Research Technician II a UT So h es ern Medical Cen er a Dallas, TX and is also appl ing o medical schools for he MD program.

Andre Ibrahim, 2021-2022: Andre is an ndergrad a e Cell and Molec lar Biolog s den from Te as Tech Uni ersi Honors College. He s ar ed orking in m labora or from March, 2021. His aim in he research ork as o el cida e he molec lar mechanism of ranscrip ional inhibi ion of SLC6A14 follo ing me formin rea men in pancrea ic cancer cells i h a special foc s on cer ain miRNAs ha are he predic ed arge s for SLC6A14.

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Elise Shen, 2015: Elise as an MD s den ho had regis ered for he Medical S den S mmer Research Program (MSSRP). Since her projec as foc sed on pros a e cancer, I as responsible for eaching her cell c l re echniq es, RNA isolat ion, cDNA s n hesis, Real- im PCR, and da a anal sis. I also helped her i h imm nofl orescence and phase con ras microscop and also g ided her o prepare he pos er for he TTUHSC Ann al S den Research Week 2016.

Nia K ikanda hil, 2016: Nia as an MD s den ho had regis ered for he Medical S den S mmer Research Program (MSSRP). Since her projec as foc sed on pros a e cancer, I as responsible for eaching her cell c l re echniq es, especiall handling of cancer cell lines, molec lar biolog echniq es like RNA isolat ion, cDNA s n hesis, Real- im PCR, imm nofl orescence and also da a anal sis. She is c rren l p rs ing her Anes hesiolog Residen a UT Heal h, San An onio, TX.

Prisca P ng e, 2018: Prisca as an MD s den ho joined m lab in J ne 2018 for he Medical S den S mmer Research Program (MSSRP). Her research foc s as o charac eri e he e pression profile of PEPT1/SLC15A1 in pancrea ic cancer cells. I a gh her o c l re pancrea ic cancer cell lines, o prepare cell l sa es from hese cell lines, es ima e pro ein concen ra ion sing BCA assa , prepare SDS-PAGE gels, o r n Wes ern blo ing, and also o de elop and anal se hem. She is c rren l p rs ing her Intern al Medicine Residen a Ba lor College of Medicine, Ho son, TX.

J sin Malin, 2021: J sin is an MD s den ho joined m lab for he Medical S den S mmer Research Program (MSSRP). In his projec , he foc sed on he role of pancrea ic s ella e cells (PSCs) in pancrea ic cancer progression and gro h. As his s mmer research men or, m responsibili as o g ide him b gi ing a horo gh e plana ion of he projec

he as orking on, designing e perimen s and ro bleshoo ing and also help in anal ing he da a. He is c rren l con in ing his MD program here a TTUHSC.

Richard Zh , 2022: Richard is a firs ear MD s den ho joined m lab for he Medical S den S mmer Research Program (MSSRP). In his projec , Richard foc sed on s d ing he her blockade of SLC6A14 ind ces macropinoc osis in pancrea ic cancer cells and if es, he her arge ing bo h SLC6A14 and macropinoc osis ill lead o a be er herape ic o come in pancrea ic cancer. As his MSSRP men or, m responsibili incl ded gi ing a horo gh e plana ion of he projec ha he as orking on, designing e perimen s and ro bleshoo ing and also help in anal ing he da a. He is c rren l con in ing his MD program here a TTUHSC.

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2023-	Adhoc member, Tenure and Promotion committee
2022-2024	Teach Tech University Health Sciences Center Faculty Appointment Committee
2022-2023	Teach Tech University Health Sciences Center Graduate Council Member
2019-2023	Teach Technicians Health Sciences Center Institutional Animal Care and Use Committee (TTUHSC IACUC) scientific imaging member
2019-present	Cell Biology and Biochemistry, Faculty Recruitment Committee (Kala Wei La Endowed Professor)
2018-present	GSBS Biotech Student Selection Committee Member, TTUHSC-SOM Committee Member
2022-present	GSBS PhD Student Selection Committee Member, TTUHSC-SOM Committee Member

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2022-2023	School of Medicine, Lessons, Life and Leadership faculty development course September 16, 2022, TTUHSC, Lubbock, TX
2022-2023	School of Medicine, Lessons, Life and Leadership faculty development course December 2, 2022, TTUHSC, Lubbock, TX
2022-2023	School of Medicine, Lessons, Life and Leadership faculty development course January 10, 2023, TTUHSC, Lubbock, TX
2019-2020	School of Medicine, Lessons, Life and Leadership faculty development course January 8, 2020, TTUHSC, Lubbock, TX
2019-2020	School of Medicine, Lessons, Life and Leadership Seminar Series (L3) Faculty development course January 27, 2020, TTUHSC, Lubbock, TX
2019-2020	Lessons, Life and Leadership Seminar Series for Women Faculty in Academic Medicine, TTUHSC, Lubbock, TX

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11. Gopal, E., Babu, E., Ramachandran, S., *+, -. " /(!I()IV(Prasad, P. D., and Ganapath, V. (2015) Species-specific influence of lithium on the activity of SLC13A5 (NaCT): lithium-induced activation is specific for the transporter in primary es. *J Pharmacol*

- and their functions in physiology and cancer. *Biochim Biophys Acta*(YbaQ)(2531- 2539).
22. Coo hankandas am , V., Cao, S., X , Y., Prasad, P. D., Singh, P. K., Re nolds, C. P., Yang, S., Og ra, J., Ganapa h , V., and * * + ,-."/(!I()I((2016) Amino acid

33. Ris ic, B., Sikder, M. O. F., *+,-."/(!I() I/(and Ganapa h , V. (2020) Pharmacologic ind cers of he ric acid e por er ABCG2 as po en ial dr gs for rea men of go ar hri is. *Asian J Pharm Sci*(YR) 173-180.
34. ^*+,-."/(!I() I/(Og ra, J., Grippo, P. J., Torres, C., Sa o, T., Wach el, M., Ramachandran, S., Bab , E., Si aprakasam, S., Rajasekaran, D., et al. (2020) Chronic e pos re o e cess iron promo es EMT and cancer ia p53 loss in pancrea ic cancer. *Asian J Pharm Sci*(YR) 237-251.
35. Sikder, M. O. F., Si aprakasam, S., Bro n, T. P., Thangaraj , M., *+,-."/(!I() I/(and Ganapa h , V. (2020) SLC6A14, a Na⁺/Cl--co pled amino acid ranspor er, f nc ions as a mor promo er in colon and is a arge for Wn signaling. *Biochem J(c)]* 1409-1425.
36. Hig chi, K., Sa o, T., *+,-."/(!I() I/(and Ganapa h , V. (2020) In ol emen of a Na⁺-co pled oligopep ide ranspor s s em for β-am loid pep ide (Aβ 1-42) in brain cells. *Pharm Res(Q)]* 98.
37. Cai, A., Zheng, H., Chen, Z., Lin, X., Li, C., Yao, Q., *+,-."/(!I() I/(Ganapa h , V., Chen, R., and Ko , L. (2020) S nergism be een SLC6A14 blockade and gemci abine in pancrea ic cancer: a 1H-NMR-based me abolomic s d in pancrea ic cancer cells. *Biochem J(c)]* 1923-1937.
38. Ko , L., Yao, Q., Zhang, H., Ch , M., *+,-."/(!I() I/(Chen, R., and Ganapa h , V. (2020) Transpor er- arge ed nano-si ed ehicles for e

44. *+,-."/(!()I(Ma he , M., Si aprakasam, S., Ramachandran, S., and Ganapa h , V. (2022) Uncon en ional f nc ions of amino acid ranspor ers: Role in macropinoc osis (SLC38A5/SLC38A3) and die -ind ced obesi /me abolic s ndrome

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1. Zh , R., Rajasekaran, D. and *+,-."/(!)I SLC6A14 blockade induces micropinocytosis as a compensatory mechanism for amino acid acquisition in pancreatic cancer cells. 35th Annual Science Research Week 2023, Texas Tech University Health Sciences Center, Lubbock TX. February 28-March 3, 2023.
 2. Mahmud Sard, M., Rajasekaran, D., Sniegowski, T. and *+,-."/(!)I Sliding the compensatory mechanism associated with SLC6A14 blockade in pancreatic cancer. 35th Annual Science Research Week 2023, Texas Tech University Health Sciences Center, Lubbock TX. February 28-March 3, 2023.
 3. Sniegowski, T., Ganapathy, V. and *+,-."/(!)I Investigating the more prominent role of SLC38A5 in pancreatic ductal adenocarcinoma. 35th Annual Science Research Week 2023, Texas Tech University Health Sciences Center, Lubbock TX. February 28-March 3, 2023.
 4. Korac, K., Rajasekaran, D., and *+,-."/(!)I Carbidopa, an inhibitor of aryl hydrocarbon receptor, suppresses IDO1 expression in pancreatic cancer and decreases morphology. [abstract]. In: Proceedings of the AACR Special Conference: Precision Prevention, Early Detection, and Intervention of Cancer; 2022 No 17-19; Austin, TX. Philadelphia (PA): AACR; Cancer Prev Res 2023;16(1 Suppl): Abstract nr P052.
 5. Korac, K., Rajasekaran, D., and *+,-."/(!)I Carbidopa, an inhibitor of aryl hydrocarbon receptor, suppresses IDO1 expression in pancreatic cancer and decreases morphology. In: Fifth Annual Abilene Interdisciplinary Symposium on Cancer and Biomedical Research; September 9, 2022.
 6. Sniegowski, T., Ganapathy, V., and *+,-."/(!)I SLC38A5 characterization and its more prominent role in pancreatic ductal adenocarcinoma. [abstract]. In: Proceedings of the AACR Special Conference: Precision Prevention, Early Detection, and Intervention of Cancer; 2022 No 17-19; Austin, TX. Philadelphia (PA): AACR; Cancer Prev Res 2023;16(1 Suppl): Abstract nr P005.
 7. Sniegowski, T., Ganapathy, V., and *+,-."/(!)I SLC38A5 characterization and its more prominent role in pancreatic ductal adenocarcinoma. In: Fifth Annual Abilene Interdisciplinary Symposium on Cancer and Biomedical Research; September 9, 2022.
 8. Sniegowski, T. and *+,-."/(!)I(T more prominent role of SLC38A5 in pancreatic ductal adenocarcinoma. 34th

10. Schniers, B.K. and *+,-."/(!)l(PEPT1 is essential for the growth of pancreatic cancer cells: A viable drug target. 34th Annual San Antonio Research Week 2022.
11. Sniegoski T, and *+,-."(!)l((2021). Expression profile and functional characterization of SLC38A5 in pancreatic ductal adenocarcinoma. 33rd Annual San Antonio Research Week 2021, Texas Tech University Health Sciences Center, Lubbock TX. March 9-12, 2021.
12. Korac K, and *+,-."(!)l((2021). Carbidopa as a novel and targeted single agent chemo-immunotherapy for pancreatic cancer. 33rd Annual San Antonio Research Week 2021, Texas Tech University Health Sciences Center, Lubbock TX. March 9-12, 2021.
13. Schniers BK, and

29. *+,-."(!), Singh N, Ganapathy V. (2012). Deletion of Slc5a8 in mice promotes metabolic syndrome, colonic inflammation, and colon cancer: A phenomenon dependent on dietary fiber content. [abstract]. In: Proceedings of the 103rd Annual Meeting of the American Association for Cancer Research; 2012 Mar 31-Apr 4;

n cleoside ranspor ers reg la es gemci abine ranspor in h man pancrea ic cancer cells. UGA conference on dr g disco er , No ember 5, 2009.

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1. Uni ersi of Georgia conference on Dr g Disco er , No ember 2009, A hens GA
2. AAPS Ann al mee ing and e pos ion, No ember 2009, Los Angeles, California
3. American Associa ion of Pharmace ical Sciences (AAPS) Ann al mee ing and e pos ion /FIP pharmace ical sciences orld congress, No ember 2010, Ne Orleans, Lo isiana
4. American Associa ion of Pharmace ical Sciences (AAPS) orkshop on dr g ranspor ers in ADME: From he bench o bedside, March 2011, Be hesda, MD
5. American Associa ion for Cancer Research (AACR) Ann al Mee ing April 2012, Chicago, IL
6. American Associa ion for Cancer Research (AACR) Ann al Mee ing April 2012, Washing on, DC
7. American Associa ion for Cancer Research (AACR) Ann al Mee ing April 2014, San Diego, California
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Presentation.

4. Cell cycle dependent expression of nucleoside transporters regulates gemcitabine transport in human pancreatic cancer cells. Medical College of Georgia, Department of Biochemistry and Molecular Biology, Augusta GA. December 5, 2010. Host: Dr. V. Ganapath. *Invited talk*, December 5, 2010.
5. SLC6A14 for pancreatic cancer for chemotherapy and drug delivery. Department of Cell Biology and Biochemistry, Texas Tech University Health Sciences Center, Lubbock, TX, February 8, 2016.
6. SLC6A14 as a biomarker for pancreatic cancer. Department of Immunology and Molecular Microbiology, Texas Tech University Health Sciences Center, Lubbock, TX, February 8, 2016. Host: Dr. Robert Bright.

Kras^{G12D/+}; LSL-p53^{R172H/+}; Pd -1 Cre (KPC) mouse, a spontaneous mouse model of pancreatic cancer in Slc6a14 knockout background. Using the KPC mice in both Slc6a14 wild type and knockout backgrounds, we have recently shown that deletion of Slc6a14 in this mouse strain enhances pancreatic cancer growth, decreases hemangiogenesis and spread of the tumor, reduces angiogenesis, and improves overall survival. All the molecular details, we show lower proliferation index and reduced desmoplastic reaction following Slc6a14 deletion. This work was published in and also formed a journal.

7. Our latest finding includes identification of SLC38A5 as a major promoter in pancreatic cancer. This amino acid transporter is highly expressed in pancreatic cancer. Using CRISPR-Cas9-mediated knockout, we have demonstrated that the loss of SLC38A5 significantly impacts tumor growth in animal models. Moreover, we find that the loss of SLC38A5 impacts oxidative phosphorylation and glucose metabolism in pancreatic cancer cells. This work was published in .

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1. School of Medicine Research Collaboration Fund on January 15, 2024. Grant (Principal Investigator) and (*+,-."(H@&X29.#5.F"\&(0#K6:-.\$"-&9J; Development of novel tools for analyzing cancer-related molecules. Funded; \$10,000 for 1 year.)

2. The CH Foundation; January 2022

December 2022, *+,-."(!\$-&1 ", "&" 3TT61Tf(X) 0.

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1. CPRIT

on 06/25/2015, Ganapathy V (Principal Investigator), *+,-."(!)(H@&X0#K6:-.\$"-&9J Chronic disease related to cancer in pancreatic cancer drives tumor growth. 20% effort, \$573,750. Overall Evaluation Score: 2.3.

4. Department of Defense; DoD Concept A and LC150581, submitted on 06/26/2015, *+,-."(!)(H29.#5.F" A(0#K6:-.\$"-&9J Chronic disease related to cancer promotes heme-dependent suppression of p53. 50% effort, \$153,000. Score: 1.5.
5. National Institutes of Health; NIH R21 CA205490-01, submitted on 06/26/2015, *+,-."(!)(H29.#5.F" A(0#K6:-.\$"-&9J; Ganapathy V (Co-Investigator); Welch M (Co-Investigator) Hemochromatosis in pancreatic cancer suppresses p53 and induces drug resistance. 20% effort, \$275,000. Not Discussed.
6. CPRIT HIHR RP160754, submitted on 10/08/2015, *+,-."(!)(H29.#5.F" A(0#K6:-.\$"-&9J; Ganapathy V (Co-Investigator); Welch M (Co-Investigator), The amino acid transporter SLC6A14 drives pancreatic cancer and represents a novel target for drug development in this difficult-to-treat cancer. 20% effort, \$275,000. Overall Evaluation Score: 6.0.
7. National Institutes of Health; NIH R21 CA201654-01A1, submitted on 11/05/2015, *+,-."(!)(H29.#5.F" A(0#K6:-.\$"-&9J; Babu E (Co-investigator) Structure of transporters involved in gemcitabine resistance in pancreatic cancer. (50% effort, \$275,000. Not Discussed.
8. Department of Defense, DoD Breakthrough Award Funding Level 3 BC151170; submitted on 12/23/2015, Ganapathy V (Principal Investigator), *+,-."(!)(H@&X0#K6:-.\$"-&9J A novel and effective dual-large chemo-immunotherapy agent for breast cancer. 20% effort, \$3,742,005. Overall Evaluation Score: 2.3.
9. National Institutes of Health; NIH 1 R21 TR001724-01, submitted on 01/11/2016, *+,-."(!)(H29.#5.F" A(0#K6:-.\$"-&9J; Babu E (Co-investigator) Carbidopa as a single-agent, dual-large chemo-immunotherapy drug for pancreatic cancer. 40% effort, \$275,000. Impact Score: 40.
10. American Association of Pharmaceutical Scientists; AAPS Foundation Network Investigator Grant, submitted on 03/21/2016, *+,-."(!)(H29.#5.F" A(0#K6:-.\$"-&9J Alpha-methyl-L-DOPA, an FDA-approved drug, as a novel agent for pancreatic cancer. 40% effort, \$40,000. Not Funded.
11. Department of Defense, DoD Breakthrough Award Funding Level 1 BC160532; submitted on 05/05/2016, Ganapathy V (Principal Investigator), *+,-."(!)(H@&X0#K6:-.\$"-&9J

13. National Institute of Health; NIH 1 R03 CA223271-01; submitted on 02/21/2017, *+,-."(!)(H29.#5.F" A(0#K6:-.\$"-&9Je Carbidopa as an inhibitor of the TrpT/IDO1 complex: Potential for use as an immunotherapy agent? 15% effort, \$100,000. Impact Score: 31.
14. Presidents' Collaborative Research Initiative (PCRI); submitted on 06/23/2017, *+,-."(!)(H29.#5.F" A(0#K6:-.\$"-&9Je Masood ZM (Co-investigator) Snergistic combination of Carbidopa and Metformin in pancreatic cancer to enable abolomics reprogramming. 15% effort, \$48,365.80. Not Funded.
15. Pancreatic Cancer Action Network, Call for Grants, Proposal ID: 569328; submitted on 12/31/2017, *+,-."(!)(H29.#5.F" A(0#K6:-.\$"-&9J SLC6A14 is a novel and effective drug target for pancreatic cancer. 40% effort, \$500,000. Not Funded.
16. CPRIT HIHR RP180799; submitted on 01/29/2018, *+,-."(!)(H29.#5.F" A(0#K6:-.\$"-&9Je Filleur S (Co-Investigator) Hemochromatosis drives progression of cancer: A golden opportunity for cancer prevention in a susceptible population. 30% effort, \$200,000. Overall Evaluation Score: 4.3.
17. CPRIT HIHR RP190572; submitted on 01/25/2019, *+,-."(!)(H29.#5.F" A(0#K6:-.\$"-&9J Pancreatic organoids as models to identify novel and effective blockers of SLC6A14 in pancreatic cancer. 30% effort, \$250,000. Overall Evaluation Score: 4.3.
18. National Institute of Health; NIH 1R01 CA248153-01; submitted on 06/04/2019, *+,-."(!)(H29.#5.F" A(0#K6:-.\$"-&9Je Ganapathy V (Co-Investigator); Wachtel M (Co-Investigator) SLC6A14 as a novel drug target in pancreatic cancer, 9,

24. Department of Defense (DoD), Idea Award CA200293; submitted on 08/27/2020, Ganapath V (Principal Investigator); *+,-."(!)(H@&X0#K6:-.\$"-&9J) Snergism between circadian iron shields like cancer from ferrropexis: Evaluation of SLC13A5 as a novel drug target in a high-moderate score. 15% effort, \$765,000. Score: 2.1.
25. National Institutes of Health; 1 R01 CA262420-01; submitted on 10/05/2020, *+,-."YD H29.#5.F"!A(0#K6:-.\$"-&9Je Yang S (Co-Investigator); Wachtel M (Co-Investigator) SLC6A14 as a niche drug target in pancreatic cancer. 40% effort, \$1,923,903. Impact Score: 43 & Percentile: 42.
26. RP210124-CPRIT-HIHR; submitted on January 2021, *+,-."(!)(H29.#5.F"!A(0#K6:-.\$"-&9J) Prakash K (Co-Investigator) Pancreatic stem cells and Wnt/β-catenin pathway: Adenocarcinoma regulation by SLC6A14 and promote pancreatic carcinogenesis, 20% effort, \$250,000. Overall Evaluation Score: 4.7.
27. National Institutes of Health (NIH), R21, 2020, *+,-."(H@&X0#K6:-.\$"-&9J) A Na-co-transporter for amyloid peptides: Role in brain clearance of Abeta in health and disease, 15% effort. Not Discussed.

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