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ACADEMIC APPOINTMENTS

- Basic Life Research Scientist, Chemical Engineering

LINKS

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Publications

PUBLICATIONS

- **Cell-Type Resolved Protein Atlas of Brain Lysosomes Identifies SLC45A1-Associated Disease as a Lysosomal Disorder.** *bioRxiv : the preprint server for biology*
  Ghoochani, A., Heiby, J. C., Rawat, E. S., Medoh, U. N., Di Fraia, D., Dong, W., Gastou, M., Nyame, K., Laqtom, N. N., Gomez-Ospina, N., Ori, A., Abu-Remaileh, M.
  2024

- **Ferroptosis inducers are a novel therapeutic approach for advanced prostate cancer.** *Cancer research*
  Ghoochani, A. n., Hsu, E. C., Aslan, M. n., Rice, M. A., Nguyen, H. M., Brooks, J. D., Corey, E. n., Paulmurugan, R. n., Stoyanova, T. n.
  2021

- **MIF-CD74 signaling impedes microglial M1 polarization and facilitates brain tumorigenesis** *ONCOGENE*
  Ghoochani, A., Schwarz, M. A., Yakubov, E., Engelhorn, T., Doerfler, A., Buchfelder, M., Bucala, R., Savaskan, N. E., Eyupoglu, I. Y.
  2016; 35 (48): 6246-6261

- **A versatile ex vivo technique for assaying tumor angiogenesis and microglia in the brain** *ONCOTARGET*
  Ghoochani, A., Yakubov, E., Sehm, T., Fan, Z., Hock, S., Buchfelder, M., Eyuepoglu, I. Y., Savaskan, N. E.
  2016; 7 (2): 1838-1853

- **Editorial: Ferroptosis in malignant brain tumors.** *Frontiers in oncology*
  Yakubov, E., Ghoochani, A., Savaskan, N.
  2023; 13: 1276971

- **The Batten disease gene product CLN5 is the lysosomal bis(monoacylglycero)phosphate synthase.** *Science (New York, N.Y.)*
  Medoh, U. N., Hims, A., Chen, J. Y., Ghoochani, A., Nyame, K., Dong, W., Abu-Remaileh, M.
  2023; 381 (6663): 1182-1189

- **An SPNS1-dependent lysosomal lipid transport pathway that enables cell survival under choline limitation.** *Science advances*
  Scharenberg, S. G., Dong, W., Ghoochani, A., Nyame, K., Levin-Konigsberg, R., Krishnan, A. R., Rawat, E. S., Spees, K., Bassik, M. C., Abu-Remaileh, M.
  2023; 9 (16): eadf8966

- **SU086, an inhibitor of HSP90, impairs glycolysis and represents a treatment strategy for advanced prostate cancer.** *Cell reports. Medicine*

Rice, M. A., Kumar, V., Tailor, D., Garcia-Marques, F. J., Hsu, E., Liu, S., Bermudez, A., Kanchustambham, V., Shankar, V., Inde, Z., Alabi, B. R., Muruganantham, A., Shen, et al

2022; 3 (2): 100502

- **Identifying a novel glycolytic inhibitor for treatment of aggressive prostate cancer.**

  Stoyanova, T., Rice, M. A., Kumar, V., Tailor, D., Garcia-Marques, F., Bermudez, A., Kanchustambham, V., Shankar, V., Inde, Z., Pandrala, M., Nolley, R., Ghoochani, A., Liu, et al

  AMER ASSOC CANCER RESEARCH.2021

- **Novel Aza-podophyllotoxin derivative induces oxidative phosphorylation and cell death via AMPK activation in triple-negative breast cancer.** *British journal of cancer*

  Tailor, D. n., Going, C. C., Resendez, A. n., Kumar, V. n., Nambiar, D. K., Li, Y. n., Dheeraj, A. n., LaGory, E. L., Ghoochani, A. n., Birk, A. M., Stoyanova, T. n., Ye, J. n., Giaccia, et al

  2020

- **Trop2 is a driver of metastatic prostate cancer with neuroendocrine phenotype via PARP1.** *Proceedings of the National Academy of Sciences of the United States of America*

  Hsu, E. C., Rice, M. A., Bermudez, A. n., Marques, F. J., Aslan, M. n., Liu, S. n., Ghoochani, A. n., Zhang, C. A., Chen, Y. S., Zlitni, A. n., Kumar, S. n., Nolley, R. n., Habte, et al

  2020

- **Treatment with the Neurotrophic Protein S100B Increases Synaptogenesis Following Traumatic Brain Injury.** *Journal of neurotrauma*

  Baecker, J., Wartchow, K., Sehm, T., Ghoochani, A., Buchfelder, M., Kleindienst, A. M.

  2019

- **Loss of Notch1 Activity Inhibits Prostate Cancer Growth and Metastasis and Sensitizes Prostate Cancer Cells to Antiandrogen Therapies** *MOLECULAR CANCER THERAPEUTICS*

  Rice, M. A., Hsu, E., Aslan, M., Ghoochani, A., Su, A., Stoyanova, T.

  2019; 18 (7): 1230–42

- **Loss of Notch1 activity inhibits prostate cancer growth and metastasis and sensitizes prostate cancer cells to anti-androgen therapies.** *Molecular cancer therapeutics*

  Rice, M. A., Hsu, E. C., Aslan, M. n., Ghoochani, A. n., Su, A. n., Stoyanova, T. n.

  2019

- **Ameliorating the Effect of Pioglitazone on LPS-Induced Inflammation of Human Oligodendrocyte Progenitor Cells.** *Cellular and molecular neurobiology*

  Peymani, M., Ghaedi, K., Hashemi, M., Ghoochani, A., Kiani-Esfahani, A., Nasr-Esfahani, M. H., Baharvand, H.

  2017

- **Plasticity Related Gene 3 (PRG3) overcomes myelin-associated growth inhibition and promotes functional recovery after spinal cord injury** *AGING-US*

  Broggini, T., Schnell, L., Ghoochani, A., Mateos, J. M., Buchfelder, M., Wiendieck, K., Schaefer, M. K., Eyupoglu, I. Y., Savaskan, N. E.

  2016; 8 (10): 2463-?

- **Cabazitaxel operates anti-metastatic and cytotoxic via apoptosis induction and stalls brain tumor angiogenesis.** *Oncotarget*

  Ghoochani, A., Hatipoglu Majernik, G., Sehm, T., Wach, S., Buchfelder, M., Taubert, H., Eyupoglu, I. Y., Savaskan, N.

  2016; 7 (25): 38306-38318

- **Sulfasalazine impacts on ferroptotic cell death and alleviates the tumor microenvironment and glioma-induced brain edema** *ONCOTARGET*

  Sehm, T., Fan, Z., Ghoochani, A., Rauh, M., Engelhorn, T., Minakaki, G., Doerfler, A., Klucken, J., Buchfelder, M., Eyuepoglu, I. Y., Savaskan, N.

  2016; 7 (24): 36021-36033

- **Hidden association of Cowden syndrome, PTEN mutation and meningioma frequency.** *Oncoscience*

  Yakubov, E., Ghoochani, A., Buslei, R., Buchfelder, M., Eyüpoglu, I. Y., Savaskan, N.

  2016; 3 (5-6): 149-155

- **The Synergistic Enhancement of Cloning Efficiency in Individualized Human Pluripotent Stem Cells by Peroxisome Proliferative-activated Receptor-? (PPAR?) Activation and Rho-associated Kinase (ROCK) Inhibition.** *journal of biological chemistry*

  Kajabadi, N., Ghoochani, A., Peymani, M., Ghaedi, K., Kiani-Esfahani, A., Hashemi, M., Nasr-Esfahani, M. H., Baharvand, H.

2015; 290 (43): 26303-26313

- **Sunitinib impedes brain tumor progression and reduces tumor-induced neurodegeneration in the microenvironment** *CANCER SCIENCE*
  Hatipoglu, G., Hock, S. W., Weiss, R., Fan, Z., Sehm, T., Ghoochani, A., Buchfelder, M., Savaskan, N. E., Eyuepoglu, I. Y.
  2015; 106 (2): 160-170

- **Dual effects of peroxisome proliferator-activated receptor gamma on embryonic stem cell self-renewal in presence and absence of leukemia inhibitory factor** *EUROPEAN JOURNAL OF CELL BIOLOGY*
  Peymani, M., Ghoochani, A., Ghaedi, K., Karamali, F., Karbalaie, K., Kiani-Esfahani, A., Rabiee, F., Nasr-Esfahani, M. H., Baharvand, H.
  2013; 92 (4-5): 160-168

- **The influence of peroxisome proliferator-activated receptor gamma(1) during differentiation of mouse embryonic stem cells to neural cells** *DIFFERENTIATION*
  Ghoochani, A., Shabani, K., Peymani, M., Ghaedi, K., Karamali, F., Karbalaei, K., Tanhaie, S., Salamian, A., Esmaeili, A., Valian-Borujeni, S., Hashemi, M., Nasr-Esfahani, M. H., Baharvand, et al
  2012; 83 (1): 60-67