



Mohammed Imran Khan

Postdoctoral Scholar, Otolaryngology - Head & Neck Surgery

Bio

PROFESSIONAL EDUCATION

- Postdoctoral scholar, University of Western Ontario, London, Canada , Molecular biology and functional genomics (2021)
- Ph.D., Military Institute of Medicine, Warsaw, Poland , Doctor of Philosophy (Ph.D.) in Medical Sciences – specialization oncology (2017)
- M.Sc., Jamia Millia Islamia University, New Delhi, India , Bioinformatics (2011)
- B.Sc., Jamia Millia Islamia University, New Delhi, India , Biotechnology (2008)

STANFORD ADVISORS

- Elizabeth DiRenzo, Postdoctoral Faculty Sponsor

LINKS

- Google Scholar: <https://scholar.google.com/citations?user=K3hnREYAAAAJ&hl=en>
- ResearchGate: <https://www.researchgate.net/profile/Mohammed-Khan-146>

Publications

PUBLICATIONS

- **All HPV-negative head and neck cancers are not the same: Analysis of the TCGA dataset reveals that anatomical sites have distinct mutation, transcriptome, hypoxia, and tumor microenvironment profiles** *ORAL ONCOLOGY*
Kim, H., Zeng, P. F., Shaikh, M., Mundi, N., Ghasemi, F., Di Gravio, E., Khan, H., MacNeil, D., Khan, M., Patel, K., Mendez, A., Yoo, J., Fung, et al
2021; 116: 105260
- **Analysis of the TCGA Dataset Reveals that Subsites of Laryngeal Squamous Cell Carcinoma Are Molecularly Distinct** *CANCERS*
Sorgini, A., Kim, H., Zeng, P. F., Shaikh, M., Mundi, N., Ghasemi, F., Di Gravio, E., Khan, H., MacNeil, D., Khan, M., Mendez, A., Yoo, J., Fung, et al
2021; 13 (1)
- **3p Arm Loss and Survival in Head and Neck Cancer: An Analysis of TCGA Dataset.** *Cancers*
Kim, H. A., Shaikh, M. H., Lee, M., Zeng, P. Y., Sorgini, A., Akintola, T., Deng, X., Jarycki, L., Khan, H., MacNeil, D., Khan, M. I., Mendez, A., Yoo, et al
2021; 13 (21)
- **Chromosome 3p loss in the progression and prognosis of head and neck cancer** *ORAL ONCOLOGY*
Shaikh, M., Barrett, J. W., Khan, M., Kim, H. J., Zeng, P. F., Mymryk, J. S., Nichols, A. C.
2020; 109: 104944
- **Flavopiridol causes cell cycle inhibition and demonstrates anti-cancer activity in anaplastic thyroid cancer models** *PLOS ONE*
Pinto, N., Prokopec, S. D., Ghasemi, F., Meens, J., Ruicci, K. M., Khan, I. M., Mundi, N., Patel, K., Han, M. W., Yoo, J., Fung, K., MacNeil, D., Mymryk, et al
2020; 15 (9): e0239315
- **Sex disparities in head & neck cancer driver genes: An analysis of the TCGA dataset** *ORAL ONCOLOGY*

- Mundi, N., Ghasemi, F., Zeng, P. F., Prokopec, S. D., Patel, K., Kim, H., Di Gravio, E., MacNeil, D., Khan, M., Han, M., Shaikh, M., Mendez, A., Yoo, et al
2020; 104: 104614
- **Renal carcinoma CD105-/CD44-cells display stem-like properties in vitro and form aggressive tumors in vivo** *SCIENTIFIC REPORTS*
Fiedorowicz, M., Khan, M., Strzemecki, D., Orzel, J., Welniak-Kaminska, M., Sobiborowicz, A., Wieteska, M., Rogulski, Z., Cheda, L., Wargocka-Matuszewska, W., Kilian, K., Szczylik, C., Czarnecka, et al
2020; 10 (1): 5379
 - **Choosing The Right Animal Model for Renal Cancer Research** *TRANSLATIONAL ONCOLOGY*
Sobczuk, P., Brodziak, A., Khan, M., Chhabra, S., Fiedorowicz, M., Welniak-Kaminska, M., Synoradzki, K., Bartnik, E., Cudnoch-Jedrzejewska, A., Czarnecka, A. M.
2020; 13 (3): 100745
 - **Spleen tyrosine kinase expression is correlated with human papillomavirus in head and neck cancer** *ORAL ONCOLOGY*
Black, M., Ghasemi, F., Sun, R. X., Stecho, W., Datti, A., Meens, J., Pinto, N., Ruicci, K. M., Khan, M., Han, M., Shaikh, M., Yoo, J., Fung, et al
2020; 101: 104529
 - **Disruption of the RICTOR/mTORC2 complex enhances the response of head and neck squamous cell carcinoma cells to PI3K inhibition** *MOLECULAR ONCOLOGY*
Ruicci, K. M., Plantinga, P., Pinto, N., Khan, M. I., Stecho, W., Dhaliwal, S. S., Yoo, J., Fung, K., MacNeil, D., Mymryk, J. S., Barrett, J. W., Howlett, C. J., Nichols, et al
2019; 13 (10): 2160-2177
 - **Mutational analysis of head and neck squamous cell carcinoma stratified by smoking status** *JCI INSIGHT*
Ghasemi, F., Prokopec, S. D., MacNeil, D., Mundi, N., Gameiro, S. F., Howlett, C., Stecho, W., Plantinga, P., Pinto, N., Ruicci, K. M., Khan, M., Yoo, J., Fung, et al
2019; 4 (1)
 - **The dental arch dimensions in Vietnamese children at 7 years of age, and their variation by gender and ethnicity.** *Journal of oral biology and craniofacial research*
Dung, T. M., Nhu Ngoc, V. T., Khoi, T. D., Chu, D. T., Dung, D. T., Khue, L. N., Anh, L. Q., Nguyen, C. B., Khan, M. I., Gadbaill, A. R., Gondivkar, S. M., Nga, V. T.
2019; 9 (3): 236-240
 - **Genomic and human papillomavirus profiling of an oral cancer cohort identifies TP53 as a predictor of overall survival.** *Cancers of the head & neck*
Mundi, N., Prokopec, S. D., Ghasemi, F., Warner, A., Patel, K., MacNeil, D., Howlett, C., Stecho, W., Plantinga, P., Pinto, N., Ruicci, K. M., Khan, M. I., Han, et al
2019; 4: 5
 - **ERK-TSC2 signalling in constitutively-active HRAS mutant HNSCC cells promotes resistance to PI3K inhibition** *ORAL ONCOLOGY*
Ruicci, K. M., Pinto, N., Khan, M. I., Yoo, J., Fung, K., MacNeil, D., Mymryk, J. S., Barrett, J. W., Nichols, A. C.
2018; 84: 95-103
 - **Effects of cell-cell crosstalk on gene expression patterns in a cell model of renal cell carcinoma lung metastasis.** *International journal of oncology*
Kaminska, K., Czarnecka, A. M., Khan, M. I., Fendler, W., Klemba, A., Krasowski, P., Bartnik, E., Szczylik, C.
2018; 52 (3): 768-786
 - **Effect of Everolimus on Heterogenous Renal Cancer Cells Populations Including Renal Cancer Stem Cells.** *Stem cell reviews and reports*
Kornakiewicz, A., Czarnecka, A. M., Khan, M. I., Krasowski, P., Kotrys, A. V., Szczylik, C.
2018; 14 (3): 385-397
 - **Involvement of the CB2 cannabinoid receptor in cell growth inhibition and G0/G1 cell cycle arrest via the cannabinoid agonist WIN 55,212-2 in renal cell carcinoma.** *BMC cancer*
Khan, M. I., Sobocińska, A. A., Brodaczewska, K. K., Zielniok, K., Gajewska, M., Kieda, C., Czarnecka, A. M., Szczylik, C.
2018; 18 (1): 583
 - **Comparative Gene Expression Profiling of Primary and Metastatic Renal Cell Carcinoma Stem Cell-Like Cancer Cells** *PLOS ONE*
Khan, M. I., Czarnecka, A. M., Lewicki, S., Helbrecht, I., Brodaczewska, K., Koch, I., Zdanowski, R., Krol, M., Szczylik, C.
2016; 11 (11): e0165718
 - **Gene set enrichment analysis and ingenuity pathway analysis of metastatic clear cell renal cell carcinoma cell line** *AMERICAN JOURNAL OF PHYSIOLOGY-RENAL PHYSIOLOGY*

-
- Khan, M. I., Debski, K. J., Dabrowski, M., Czarnecka, A. M., Szczylik, C.
2016; 311 (2): F424-F436
- **The Therapeutic Aspects of the Endocannabinoid System (ECS) for Cancer and their Development: From Nature to Laboratory** *CURRENT PHARMACEUTICAL DESIGN*
Khan, M. I., Sobocinska, A. A., Czarnecka, A. M., Krol, M., Botta, B., Szczylik, C.
2016; 22 (12): 1756-1766
 - **Renal cell cancer tumor initiating cells as molecular regulators of disease progression**
Czarnecka, A. M., Khan, M. I., Bielecka, Z. F., Matak, D., Brodaczevska, K. K., Kornakiewicz, A., Szczylik, C.
OXFORD UNIV PRESS.2015: 6
 - **Current approaches in identification and isolation of human renal cell carcinoma cancer stem cells** *STEM CELL RESEARCH & THERAPY*
Khan, M. I., Czarnecka, A. M., Helbrecht, I., Bartnik, E., Lian, F., Szczylik, C.
2015; 6: 178
 - **Gene expression profiling of Cancer Stem Cells (CSCs) derived from primary and metastatic renal cell carcinoma**
Khan, M. I., Czarnecka, A. M., Krol, M., Helbrecht, I., Sobocinska, A., Koch, I., Lewicki, S., Zdanowski, R., Szczylik, C.
WILEY-BLACKWELL.2015: 373
 - **Vitamin D receptor gene polymorphisms in breast and renal cancer: Current state and future approaches** *INTERNATIONAL JOURNAL OF ONCOLOGY*
Khan, M. I., Bielecka, Z. F., Najm, M. Z., Bartnik, E., Czarnecki, J. S., Czarnecka, A. M., Szczylik, C.
2014; 44 (2): 349-363
 - **The regulation of clear cell renal cancer cells proliferation and tyrosine kinase inhibitors responsiveness by tumor micro-environmental factors.**
Czarnecka, A., Solarek, W., Matak, D., Khan, M., Kornakiewicz, A., Szymanski, L., Czarnecka, K., Lewicki, S., Zdanowski, R., Szczylik, C.
AMER SOC CLINICAL ONCOLOGY.2014
 - **Metastasis-Initiating Cells in Renal Cancer** *CURRENT SIGNAL TRANSDUCTION THERAPY*
Khan, M. I., Czarnecka, A. M., Duchnowska, R., Kukwa, W., Szczylik, C.
2013; 8 (3): 240-246
 - **Hypoxia response regulates clear cell renal cell carcinoma tumor initiating cells**
Czarnecka, A. M., Matak, D., Solarek, W., Khan, M. I., Szczylik, C.
WILEY-BLACKWELL.2013: 12