

Dr. Huma Shehwana
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Biological Sciences

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Specialization:
Bioinformatics

Education:

PhD - Molecular biology and Genetics (2012 - 2017), Bilkent University, Ankara, Turkey
BS - Bioinformatics (2007-2011), International Islamic University, Islamabad, Pakistan

Experience:

Assistant Professor (2018 – To date), National University of Medical Sciences, Rawalpindi, Pakistan.

Teaching Assistant (2012-2017), Bilkent University, Ankara, Turkey

Research Interests:

Cancer biomarker identification, RNA-seq/microarray data analysis, Biological databases development, Gene expression networks.

Publications:

- **The Transcription Factor *Elf3* Is Essential for a Successful Mesenchymal to Epithelial Transition.**
Sengez, B.; Aygün, I.; **Shehwana, H.**; Toyran, N.; Tercan Avci, S.; Konu, O.; Stemmler, M.P.; Alotaibi, H. *Cells* 2019, 8, 858
- **Opinion Article on Comparative transcriptomics between zebrafish and mammals: a road to discovery of conserved and unique signaling pathways in physiology and disease**
Shehwana H, Konu O
Frontiers in Cell and Developmental Biology
- **Cholinergic Receptor Nicotinic Alpha 5 (CHRNA5) RNAi is associated with cell cycle inhibition, apoptosis, DNA damage response and drug sensitivity in breast cancer**
Koker S.C, Jahja E*, **Shehwana H***, Keskus AG and Konu O
PlosOne 2018, 13, 12

*** Equal contribution**

- **miR-564 acts as a dual inhibitor of PI3K and MAPK signaling networks and inhibits proliferation and invasion in breast cancer.**

Mutlu, M, Saatci O, Ansari SA, Yurdusev E, Shehwana H, Konu Ö, Raza U and Şahin O.

Scientific Reports 2016, 6, 32541

- **Functionally conserved effects of rapamycin exposure on zebrafish**

Sucularli C, Shehwana H, Kuscu C., Dungul D.C, Ozdag H and Konu, O

Molecular Medicine Reports 2016, 13, 4421-4430

- **Enhancer cooperativity as a novel mechanism underlying the transcriptional regulation of E-cadherin during mesenchymal to epithelial transition**

Alotaibi, H, Basilicata M.F, Shehwana H, Kosowan, T, Schreck, I, Braeutigam, C, Konu, O, Brabletz T and Stemmler M.P

Biochimica et Biophysica Acta (BBA)-Gene Regulatory Mechanisms 2015, 1849(6), pp.731-742.