

Curriculum Vitae

Farina Hanif

PERSONAL INFORMATION

Work Address: Department of Biochemistry, Dow International Medical College,
Dow University of Health Sciences, Ojha Campus, SUPARCO road
Karachi, Pakistan.

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EDUCATION

- **Post-doctorate in Oncology (Nov 2021 – Nov 2022)**
University of Virginia (USA). School of Medicine, Department of Microbiology, Immunology and Cancer Biology.
- **Ph.D. "Molecular Medicine" (2015)**
Department of Molecular Medicine, University of Karachi, Karachi, Pakistan.
- **GRE Type Exam of "Molecular Medicine"**
Cleared with 87 percentile (**1st position**)
- **M.Sc. "Physiology" (2004)**
University of Karachi, Karachi, Pakistan.
- **B. Sc. (Hons) "Physiology, Biochemistry & Chemistry" (2002)**
University of Karachi, Karachi, Pakistan.

TRAINING

- **Post-doctorate (Nov 2021 – Nov 2022), Fulbright Fellow (USA), University of Virginia (USA).** School of Medicine, Department of Microbiology, Immunology and Cancer Biology.

Supervisor: Prof. Dr. Roger Abounader (Neuro-oncology and noncoding RNA lab)
Project 1: Investigating and validating master regulatory miRNAs in gliomas.
Project 2: Transcribed Ultra-conserved Regions (TUCRs): A bioinformatics exploration of the deregulation and function of an understudied class of molecules in gliomas.
- **Post-doctorate (2015 – 2016), The Aga Khan University.** Department of Biological and Biomedical Sciences,

Project: Genetics of non-syndromic autosomal recessive mental retardation.

- **Visiting Researcher (Dec 2013 – Jun 2014), King's College London, University of London, UK.** School of Biomedical and Health Sciences, Department of Biochemistry.

Project: Consequences of point mutations on structural and biophysical properties of melanoma-associated antigen 4 (MAGE-A4) protein in human cancers.

- **Ph.D. (2009-2015), University of Karachi.** Dr. Panjwani Centre for Molecular Medicine and Drug Research

Supervisor: Dr. Shabana Usman Simjee

Thesis Title: In-vitro modulation of human glioblastoma cells (U87) by N-(2- H hydroxyphenyl) acetamide.

POSITIONS HELD

- **Assistant Professor (2020 to date)**
Department of Biochemistry, Dow International Medical College, Dow University of Health Sciences.
- **PhD Program Director; Molecular Medicine (Dec 2023 to date)**
Department of Biochemistry, Dow International Medical College, Dow University of Health Sciences.
- **Visiting Assistant Professor (2021 to 2022)**
Department of Microbiology Immunology and Cancer Biology, University of Virginia
- **Assistant Professor (2016 to 2020)**
Institute of Biomedical Sciences, Dow University of Health Sciences (DUHS).
- **Post-Doctoral Research Fellow (2015 to 2016)**
Department of Biological and Biomedical Sciences. The Aga Khan University.
- **Visiting Researcher/Scholar (2013-2014)**
Department of Biomedical Sciences, King's College London, University of London, UK
- **Research Fellow (2009 to 2015)**
Department of Molecular Medicine, University of Karachi.
- **Research Associate (2007-2009)**
Department of Biological and Biomedical Sciences, The Aga Khan University.
- **Teacher "Biology and Chemistry" (2005-2007)**
The SMS Aga Khan School.

SCHOLARSHIPS

- **Fulbright fellowship** to conduct post-doctoral research at the **University of Virginia, USA** from Nov-2021 to Nov 2022
- Fully funded (Dec 2013 - Jun 2014) scholarship from **Higher Education Commission, Pakistan**, under the “International Research Support Initiative Program” to gain research training and experience at **King’s College London, University of London**.
- **Professor SM. Hamid Ali Scholarship (2011 – 2014)** from International Center for chemical and biological sciences, University of Karachi to pursue Ph.D. at Dr. Panjwani Center for Molecular Medicine and Drug Research.

CURRENT RESEARCH

- Investigating the role of non-coding RNAs in different malignancies.
- Investigating the role of non-coding RNAs in mental health disorders and discovering new therapeutic targets.
- To explore genetic and epigenetic factors associated with the aetiopathogenesis of cancer, schizophrenia, and Alzheimer’s’ Disease using different sequencing modalities.
- Hunting drugs (based on their molecular mechanism of action) that can be repurposed against Alzheimer’s disease and brain cancers using in vivo and in vitro models.

FIELDS OF SPECIALTIES

- Molecular Medicine, neuro-oncology, cancer cell biology and signaling, Molecular Neuroscience and noncoding RNA,

RESEARCH INTERESTS

- To study and find out underlying biochemical, physiological, and molecular mechanisms involve in the aetiology of complex diseases like cancers, Alzheimer’s disease and schizophrenia and further to identify the possible therapeutic targets.
- Understanding the role of Non-coding RNA in pathogenesis of Cancers and their potential use in diagnosis, as therapeutic and as a therapeutic target.
- Interested in uncovering the role of transcribed ultra conserved regions in the pathology of schizophrenia.

- Also interested in finding potential FDA approved drugs that can be repurposed against different malignancies, more specifically gliomas.

RESPONSIBILITIES AS AN ASSISTANT PROFESSOR

- **TEACHING UNDERGRADUATE MEDICAL STUDENTS:**

Biochemistry

Teaching Biochemistry to undergraduate medical students' 1st Year – 3rd year in all the modules. Few topics mentioned for reference.

- Uric acid and Pyrophosphate metabolism in relation to Kidney function
- Hemoglobinopathies and Thalassemia.
- structure and functions of nucleic acid and their relationship in central dogma
- Haematological manifestations of Vit. B12/Folic acid/Vit B6 deficiencies.
- Introduction and classification of Neurotransmitters
- Electrolytes metabolism in relation to hormones

Physiology:

- Respiratory mechanics and gas exchange
- Membrane & cellular physiology; membrane structure, function & transport mechanism
- Membrane potentials; mechanism of nerve action potential
- Synaptic transmission, NMJ
- Learning and memory

- **POSTGRADUATE TEACHING:**

- **Taught many topics in the following courses:**

- Fundamentals of Molecular Biology
- Advances in Cell and Molecular Biology
- Neurophysiology
- Neurochemistry
- Molecular Biology and contemporary Medicine
- Medical Genetics and Gene Therapy
- Advanced Techniques in Molecular Medicine

- **ADDITIONAL TEACHING RESPONSIBILITIES:**

Also appointed to teach following postgraduate courses at Dow College of Pharmacy.

- Medical Genetics and Gene Therapy
- Proteomics and Pharmacogenomics.

- **OTHER CONTRIBUTIONS IN TEACHING/COURSE DESIGN:**

- Designed the curriculum of M.Phil. and Ph.D. program of Molecular Medicine
- Designed the “Advances in Cell and Molecular Biology course I and II” for M.Phil. and Ph.D. students respectively.
- Designed manual for practical sessions of cell and molecular biology for B.S.

- Biotechnology program.
 - Contributed in designing manual for practical sessions of Physiology for B.S. Biotechnology program.
- **OTHER CONTRIBUTIONS:**
 - **Established molecular biology lab at Department of Biochemistry, DIMC, DUHS from my research grants**, where I am providing research internship/training specially to undergraduate medical students and students from Universities in Karachi where there are no such opportunities available. Like Federal Govt. Urdu University.

ADMINISTRATIVE RESPONSIBILITIES/APPOINTMENTS

- Chairperson Curriculum Review Committee for M.Phil. and PhD. Program of Molecular Medicine (Jan 2024 - to date)
- Member Institutional Ph.D. Faculty Evaluation Committee (Jan 2024 - to date)
- Member Institutional Doctoral Admission Committee (Dec 2023 - to date)
- Course Coordinator of Ph.D. level course of “Advanced techniques in Molecular Medicine” (Jan 2024 – to date)
- Member institutional Ph.D. advisory Committee to evaluate synopsis for the Ph.D. projects (June 2023-todate).
- Member institutional ethical review board for animal research, DUHS. (June 2023-todate)
- Member of mentoring committee of undergraduate students at Dow International Medical College, DUHS (Nov 2022-todate)
- Academic coordinator at Institute of Biomedical Sciences, Dow University of Health Sciences (2016- to 2019).
- Coordinator of Journal club activities at Institute of Biomedical Sciences, Dow University of Health Sciences (2016- to 2019).
- Coordinator of the course “Advances in Cell and Molecular Biology” for both M.Phil. and Ph.D. batches. (2016-2019)
- Special invited reviewer of institutional Scientific Committee, Dow University of Health Sciences (2020 - to date)

WORKSHOPS CONDUCTED

- “DNA extraction from blood, bacterial and plant sources” for undergraduates, conducted at Dow College of Biotechnology, Dow University of Health Science. On July 17th -July 19th, 2017.
- “Scientific Literature Search: A Skill to learn” for undergraduates, at Dow College of Biotechnology, Dow University of Health Science. August 17th, 2017.
- Finding mRNA targets of the different miRNAs, University of Virginia, USA. (facilitator). August 2021.

CONFERENCES/SYMPOSIA ORGANIZED:

- Organized 1st International Conference on Biomedical Sciences CONBIOMEDICA 2023) at Dow University of Health Sciences, Karachi, Pakistan. 20-21, March 2023.
- Organized international seminar on Oncology at Dow University of Health Sciences on 1st December 2023.

PATENTS

- Shabana U Simjee, Sabira Begum, Saima Mehmood Malhi, Huma Jawed, Nadeem Ashraf, **Farina Hanif**, Bina S. Siddiqui, Farhat Zubair. "Modulation of C-FOS and BDNF Protein Expression in Pentylentetrazole-Kindled Mice Following Treatment with Novel Antiepileptic Compound HHL-6." **Patent No: US 9,272,998 B1**. March 2016

RESEARCH GRANTS

Extramural grants:

1. **In vitro modulation of WNT signaling pathway and its associated molecules in glioblastoma stem cells to combat therapeutic resistance and tumor relapse".**
Position: Principal Investigator.
Funding Agency: Pakistan Science Foundation
Amount: 3.56 million PKR
Project Duration: 2023-2025
Status: Approved
2. **To explore the repurposing potential of FDA approved carbonic anhydrase II inhibitors in the treatment of Brain Cancers.**
Position: Principal Investigator.
Funding Agency: International Brain Research Organization
Amount: 5000 Euros
Project Duration: 2021-2022
Status: Concluded
3. **To investigate the potential contribution of thyroid hormone levels and DIO2 gene polymorphism in pathophysiology of Schizophrenia and implication in therapeutic strategies.**
Position: Principal Investigator.
Funding Agency: Higher Education commission Pakistan under NRPU program.
Amount: 2.79 million PKR
Project Duration: 2017-2018
Status: Concluded

4. Anticancer effect of compounds from medicinal plants Versus standard drug temozolomide on drug resistant glioblastoma cells.

Position: Principal Investigator.

Funding Agency: Startup Research Grant, Higher Education commission Pakistan

Amount: 0.275 million PKR

Project Duration: 2017-2018

Status: Concluded

5. Modulation and transplantation of umbilical cord derived mesenchymal stem cells using different protocol to target Alzheimer's disease: a comparative and therapeutic study.

Position: Co-principal Investigator.

Funding Agency: Higher Education commission Pakistan under NRPU program.

Amount: 2.7 million PKR

Project Duration: 2022-2024

Status: Approved

6. Development of Raloxifene-loaded self-nanoemulsifying drug delivery system (SNEDDS) with enhanced bioavailability potential: A therapeutic implication in osteoporosis.

Position: Co-principal Investigator.

Funding Agency: Higher Education commission Pakistan under NRPU program.

Amount: 6 million PKR

Project Duration: 2022-2024

Status: Approved

INTRAMURAL GRANTS

1. Differential expression of transcribed ultra conserved regions (TUCRS) in schizophrenia and their potential utility as biomarker.

Position: Principal Investigator

Funding Agency: Vice Chancellor's seed funding initiative, DUHS

Amount: 1.5 million PKR

Project Duration: 2023-2026

Status: Approved

2. Investigating Serum Levels of miR-4768-3p, miR-4722-5p and miR-5680 as Potential Biomarkers for Alzheimer's Disease.

Position: Co Principal Investigator

Funding Agency: Vice Chancellor's seed funding initiative, DUHS

Amount: 0.25 million PKR

Project Duration: 2023-2024

Status: Awarded

3. Modulation of apoptotic and AKT/PI3K/mTOR signaling pathways in glioblastoma Cells using small Molecules.

Position: Principal Investigator

Funding Agency: Vice Chancellor's seed funding initiative, DUHS

Amount: 0.25 million PKR

Project Duration: 2020-2021. Status: Concluded

- 4. Impact of Brain-derived Neurotrophic factor gene polymorphism on its peripheral levels in schizophrenic patients.**
Position: Principal Investigator
Funding Agency: Vice Chancellor's seed funding initiative, DUHS
Amount: 0.25 million PKR
Project Duration: 2019-2020
Status: Concluded
- 5. Targeting expression of inflammatory markers in cortex and hippocampus of epileptic mice treated with novel drug combination.**
Position: Principal Investigator
Funding Agency: DUHS
Amount: 0.1 million PKR
Project Duration: 2019-2020
Status: Concluded
- 6. Effects of Modified Human Umbilical Cord Derived Mesenchymal Stem Cells in Animal Model of Alzheimer's disease, A Preclinical Study.**
Position: Co-Principal Investigator
Funding Agency: Vice Chancellor's seed funding initiative, DUHS
Amount: 1.5 million PKR
Project Duration: 2021-2023
Status: Concluded

GRANTS TO ORGANIZE CONFERENCES AND WORKSHOPS

Conference: 1st International Conference on Biomedical Sciences (CONBIOMEDICA 2023)

Position: Chair Scientific Committee and Conference Secretary.

Funding Agency: Sindh Higher Education Commission,

Amount: 2.08 million PKR

Project Duration: March 20th -21st, 2023.

M.Phil. THESIS SUPERVISED

Students Supervised as Primary Supervisor = 07

Students Supervised as Co-Supervisor = 01

Students currently Under Co-Supervision = 01

- 1. Project: Targeting cell cycle machinery and apoptotic signalling of glioblastoma cells for therapeutic purpose**

Role: Primary Supervisor
Name of Student: Dr. Kanwal Naz
Subject: Physiology
Status: Completed
Year: 2023

2. Project: Protective effect of Vitamin C against radiation induced inflammatory changes in Parotid glands of Guinea pigs

Role: Primary Supervisor

Name of Student: Dr. Amir Ahmed Ansari

Subject: Anatomy

Status: Completed

Year: 2023

3. Project: Impact of Brain-derived Neurotrophic factor gene polymorphism on its peripheral levels in schizophrenic patients.

Role: Primary Supervisor

Name of Student: Dr. Irshad Bibi

Subject: Physiology

Status: Completed

Year: 2022

4. Project: Detection of serum copeptin levels in diabetic patients to evaluate progressive nephropathy

Role: Primary Supervisor

Name of Student: Dr. Tooba Noor

Subject: Physiology

Status: Completed

Year: 2021

5. Modulation of apoptotic and AKT/PI3K/mTOR signaling pathways in glioblastoma cells using small Molecules.

Role: Primary Supervisor

Name of Student: Dr. Shafea Saad

Subject: Physiology

Status: Completed

Year: 2022

6. Project: In-vitro modulation of human glioblastoma cells using natural compounds.

Role: Primary Supervisor

Name of Student: Dr. Ambreen Mehran

Subject: Physiology

Status: Completed

Year: 2022

7. Project: Dopamine receptor type 2 (*DRD2*) gene polymorphism in schizophrenic patients visiting a tertiary care hospital in Karachi.

Role: Primary Supervisor

Name of Student: Ms. Quratulain

Subject: Physiology

Status: Completed

Year: 2020

8. Project: Association of vitamin D receptor (VDR) gene polymorphism with osteoporosis in postmenopausal women.

Role: Primary Supervisor

Name of Student: Dr. Zubair Ahmed

Subject: Physiology

Status: Completed

Year: 2019

BS THESIS SUPERVISED

- **Project: Targeting expression of inflammatory markers in cortex and hippocampus of epileptic mice treated with novel drug combination.**

Role: Primary Supervisor

Name of Student: Ms. Lalarukh Jawed

Subject: Biotechnology

Status: Completed

Year: 2019

PH.D. THESIS UNDER SUPERVISION

PhD. Students currently under supervision = 5

1. Project: Modulation of WNT signaling pathway and its associated molecules to inhibit growth and invasion of glioblastoma stem cells using drug repurposing approach.

Role: Primary Supervisor

Name of Student: Dr. Sahar Mubeen

Subject: Anatomy

Status: In progress

2. Project: Targeting neuro-sphere derived Glioblastoma Stem cells to combat relapse and drug resistance in glioblastoma.

Role: Primary Supervisor

Name of Student: Dr. Iffat Raza

Subject: Anatomy

Status: In progress

3. Project: Investigating potential biomarkers and molecular methods to improve diagnosis of viral meningitis.

Role: Primary Supervisor

Name of Student: Dr. Saima Naseem

Subject: Microbiology

Status: In progress

4. Project: Modulation and Transplantation of Umbilical Cord Derived Mesenchymal Stem Cells using different protocols to target Alzheimer Disease: A Comparative and Therapeutic Study

Role: Co-Supervisor

Name of Student: Dr. Mahrukh Qasim

Subject: Anatomy

Status: In progress

5. Project: Investigating the Molecular link between Diabetes Mellitus and Alzheimer's Disease

Role: Co-Supervisor

Name of Student: Dr. Tehniat Faraz Ahmed

Subject: Biochemistry

Status: In progress

MENTORSHIP FOR INTERNS AND TRAINEES

- **Goal: Train visiting intern in different molecular biology techniques.**

Student: Lakesis Baker from Virginia Commonwealth University

Program: Short term research internship program

University: University of Virginia

Year: 2022.

- **Goal: Train visiting intern in different molecular biology techniques.**

Student: Pawel Marcinkiewicz from University of Arizona

Program: Research internship program

University: University of Virginia

Year: 2022.

- Also trained many undergraduate, postgraduate, research assistant and research associates at Dow University of Health Sciences in different molecular biology techniques, research designs, data analysis and interpretation etc.

EXTERNAL M.PHIL. THESIS REVIEWER

1. **Project: Variation in serum glucagon levels of the patients suffering from long term Type-2 Diabetes Mellitus**

Student: Dr. Eraj Abbas

Subject: Biochemistry

University: Baqai Medical University

Year: 2019.

2. **Project: M.Phil Thesis reviewer of Dr. Muhammad Saeed, titled "Effect of Iron deficiency anemia on HbA1c levels in subjects with normal glucose tolerance"**

Student: Dr. Muhammad Saeed

Subject: Biochemistry

University: Baqai Medical University

Year: 2020.

INTERNAL M.PHIL. EXAMINER

1. **Project: Evaluation of Iron, Hepcidin and IL-10 in Relation to Body Mass Index in Young Healthy Premenopausal Women.**

Student: Dr. Asma Bilqis

Subject: Physiology

University: DUHS

Year: 2023.

- Appointed as internal examiner to conduct OSPE of first year Pharm-D semester II examination 2019 in the subject of physiology.
- Appointed as internal examiner to conduct OSPE of first year Pharm-D semester II examination 2018 in the subject of physiology.

M.PHIL. SYNOPSIS EVALUATED

1. **Synopsis: microRNAs in patients with nonalcoholic fatty liver disease and its association with visceral obesity**

Student: Dr. Javeria Hassan

Subject: Physiology

University: DUHS

Year: 2023.

2. **Synopsis: Preclinical Screening of the therapeutic potential of Vanillin derivatives as anti- epileptics and promoters of neuroplasticity**

Student: Ms. Komal Mahmood

Subject: Pharmacology

University: DUHS

Year: 2022.

3. Synopsis: Wrist Circumference as a Marker of Adiposity and Cardiometabolic Risk in Young Adults

Student: Dr. Anees un Nisa

Subject: Physiology

University: DUHS

Year: 2021.

4. Synopsis: Investigating the Efficacy of Plasma Concentrations of A β 42, P-Tau and NFL as Potential Biomarkers for Alzheimer's Disease

Student: Dr. Tehniat Faraz

Subject: Biochemistry

University: DUHS

Year: 2021

PH.D. SYNOPSIS EVALUATED

1. Synopsis: Anatomical changes induced by the co-administration of medecassic acid and Epothilone D conjugated with nanoparticles in an animal model of Parkinson's disease.

Student: Dr. Syed Inayat Ali

Subject: Anatomy

University: DUHS

Year: 2023.

REVIEWER FOR GRNAT PROPOSALS:

- Reviewer HEC NRPB grants (2019- to date)
- Reviewer HEC PERIDOT grants (2019- to date)
- Reviewer FULBRIGHT POSTDOCTORAL grants (2024)
- Reviewer for Vice Chancellor's Seed funding grants, DUHS (2021-to date)

SCIENTIFIC JOURNAL REVIEWER

- Scientific Reports (IF = 4.93)
- Cancer Cell International (IF 4.9)
- Drug Design, Development and Therapy (IF = 2.93)
- International Journal of clinical practice (IF= 2.6)
- IEEE Journal of Biomedical and Health Informatics (IF = 5.7)
- OncoTargets and Therapy (IF = 2.65)
- Cancer Management and Research (IF = 3.7)
- Medical Science Monitor (IF=1.9)
- Asia Pacific Journal of Cancer Prevention (HEC approved, PubMed Indexed)
- Heliyon, (HEC approved, PubMed indexed)
- Journal of Pharmaceutics and drug development
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MEMBER OF SCIENTIFIC SOCIETIES

- International Brain Research Organization. **(IBRO)**, Paris, France.
- International Society for Neurochemistry **(ISN)**
- Safety Pharmacology Society **(SPS)** USA.
- Organization for women in science for the developing world **(OWSD)**
- Pakistan Society of Basic and Applied Neuroscience **(PSBAN)**.

ACADEMIC HONORS AND AWARDS

SPECIAL AWARDS:

- Students' choice **Certificate of Excellence for outstanding teaching performance** from **QEC, DUHS**. 2018.
- Special cash prize at 5th **all Pakistan DUHS-DICE** Health innovation Exhibition 2019 on October 16th-17th for project "X-INFECT."
- Special cash prize at 4th **all Pakistan DUHS-DICE** Health innovation Exhibition 2018 on October 12th-13th. for project "Ethidium bromide gel filter."
- HEC approved Ph.D. supervisor.

TRAVEL AWARDS:

Received Travel awards from following organizations to attend different courses/workshops/conferences.

Organization: conference/course/purpose and date

- **IBRO:** IBRO APRC Advance School of Neuroscience and Oral presentation at Tehran, **Iran**. April 29 to May 11, 2017
- **Federation of European Neuroscience Society:** Advance training course in "Glial Cells in Health and Disease" at Bordeaux France, November 27- December 16, 2016.
- **International Society for Neurochemistry (ISN) and Asia Pacific Society for Neurochemistry (APSN):** Oral presentation in 14th Meeting of Asian-Pacific Society for Neurochemistry, **Kuala Lumpur, Malaysia**, Aug 27-30th 2016. (**Junior Investigator travel award**)
- **Safety Pharmacology Society (USA):** Oral presentation at 13th Safety pharmacology society meeting at **Rotterdam, Netherlands**, Sep 15-20th 2013.
- **Kuwait Institute of Scientific Research (KISR), TWAS and, OWSD:** Oral presentation at International Conference on women in science and technology in the Arab Countries at KISR, **Kuwait**. April 21 to 23, 2013

- **IBRO:** IBRO School of Neuroscience at Selangor, **Malaysia**. Nov 17 to 30, 2012
- **IBRO:** IBRO School of Neuroscience and present and poster presentation in Tehran, **Iran**. May 12 to 23, 2012
- **IBRO:** IBRO School of Neuroscience and Oral presentation in **Beijing, China**. Oct9-19th, 2011.

INVITED TALKS:

- Titled “Noncoding RNA: Redefining the central dogma of cancer biology”. On the anniversary of Pakistan Physiological Society at Department of Physiology, **University of Karachi**, Pakistan. **15th April 2023**.
- miR-3174 acts as a tumour suppressor in gliomas by targeting multiple oncogenes. At International Conference on the Biomedical Sciences, **Dow University of Health Sciences**. **20th -21st March 2023**.
- Titled “Preclinical screening methods in neuro-oncology: An in vitro approach” 6th International Conference on Endorsing Health Sciences Research, Pre-Conference Workshop on Basics of Neuropharmacological Screening organized by Department of Pharmacology, **DOW College of Pharmacy, DUHS**. **31st March 2018**.

BEST ORAL/POSTER PRESENTATION AWARDS

- Titled “**Targeting expression of hypoxia inducible factor 1 alpha and its downstream targets in human glioblastoma cells using combination therapy approach**” oral presentation at 2nd PROBE conference on molecules to mechanism, Department of Physiology, University of Karachi, 7th -9th January 2020.
- Titled “**Electrophysiology and neuroscience**” Oral presentation at **IBRO** school of Neuroscience, **Beijing, China**. Oct 9-19th, 2011.
- Tooba Noor and **Farina Hanif** (corresponding author). Titled “Copeptin: A potential biomarker in diabetic patients progressing towards diabetic nephropathy” poster presentation at **17th Pakistan Endocrine Society Conference** organized by Pakistan Endocrine Society, at Pearl Continental Hotel, Karachi, **15-17th November 2019**.
- Qurat-ul-Ain Amir and **Farina Hanif** (Corresponding Author). Titled “Association of Dopamine Receptor Type 2 gene variant (Ser311Cys) with schizophrenia in Pakistani population: a case-control study”, Poster presentation at 5th Annual Neuroscience Conference held at **Aga Khan University**, Karachi, organized by Pakistan Society of Basic and Applied Neuroscience and Aga Khan University, Karachi **14-15 September 2019**.
- **Farina Hanif**, Kahkashan Perveen, Shabana U Simjee. Titled “Verapamil

potentiates temozolomide anticancer efficacy through the intrinsic apoptotic pathway in brain cancer cells". Poster Presented at 14th Meeting of Asian-Pacific Society for Neurochemistry, **Kuala Lumpur, Malaysia**, Aug 27-30th 2016.

- **Farina Hanif**, Saima Mehmood Malhi; Huma Jawed; Nadeem Ashraf; Farhat, Sabira Begum and Shabana. U. Simjee **"HHL-6 down-regulates BDN expression in PTZ-induced kindling model of epilepsy in mice"** poster presented at Neuroscience School organized by International Brain Research Organization (IBRO-APRC School Neurosciences) **Tehran, Iran**. May 12 to 23, 2012.

ORAL PRESENTATIONS:

- MicroRNA-3174 Suppresses Glioblastoma through Downregulation of Several Oncogenes at 8th International symposium-cum-training course on **Molecular Medicine and Drug Research (MMDR-8)** organized by Dr. Panjwani Centre for Molecular Medicine and Drug Research at **International Centre for Chemical and Biological Sciences, University of Karachi, November 27 – 30, 2023**.
- "MicroRNA-3174 Suppresses Glioblastoma through Downregulation of Several Oncogenes" at **44th annual conference of Pakistan Association of pathologist on 17th 19th November 2023** at Pearl Continental Hotel Lahore.
- "Verapamil potentiates temozolomide efficacy by inhibiting autocrine VEGF signaling in human glioblastoma cells" at 4th International Conference on **Challenges in Drug Discovery and Therapeutics** organized by **Ziauddin University Karachi, 6th-7th December, 2019**.
- "Polymorphisms in exon 7 of dopamine receptor type 2 gene and their association with schizophrenia in Pakistani population" at 7th International symposium-cum-training course on **Molecular Medicine and Drug Research (MMDR-7)** organized by Dr. Panjwani Centre for Molecular Medicine and Drug Research at **International Centre for Chemical and Biological Sciences, University of Karachi, November 4 – 7, 2019**.
- "Inhibition of VEGF signaling in human glioblastoma cells by synergetic action of Verapamil with temozolomide" at **5th Annual Neuroscience Conference**, held at Aga Khan University, Karachi, organized by Pakistan Society of Basic and Applied Neuroscience at **Aga Khan University, Karachi 14-15 September 2019**.
- "Induction of Apoptosis in Brain Cancer Cells using Synthetic Compound N (2-hydroxy phenyl) Acetamide" 40th Annual Conference of Pakistan Association of Pathologists (PAP) organized by Sindh Institute of Urology and Transplantation **(SIUT) Karachi, Pakistan. Dec 14th -16th 2017**,
- "Synergistic anti glioma effect of N-(2- hydroxyl phenyl) acetamide and temozolomide is associated with increased bax/Bcl2 ratio" 6th International Symposium-cum-Training Course on Molecular Medicine and drug Research. Organized by Dr. Panjwani Center for Molecular Medicine and drug research, **Karachi Pakistan. Nov 6th-9th 2017**.

- “The effects of morphine on activity of lateral paragigantocellularis (PGI) Nucleus in naïve and morphine dependent rats.” In IBRO APRC advance school of Neuroscience, **Tehran Iran, April 29-May 11, 2017.**
- “N-(2- hydroxyl phenyl) acetamide potentiates temozolomide anticancer efficacy by increasing active caspase-3 expression.” 52nd Annual Medical Symposium held at Basic Medical Science Institute, Jinnah Postgraduate medical college **Karachi, Pakistan, Jan 17 2017**
- “In vitro Modulation of Human Glioblastoma Cells by N-(2-Hydroxy Phenyl) Acetamide at Department of Biological and Biomedical Sciences, The Aga Khan University **Karachi, Pakistan Jan 2016.**
- “NA-2 inhibits Glioblastoma Cell proliferation by down-regulating VEGF expression”. In International Conference on Women in Science and Technology in the Arab countries, held in **Kuwait, April 21-23, 2013.**
- “The Effects of Novel Antiproliferative Compound NA-2 In Combination, With Temozolomide on Human Glioblastoma Cells” in 3rd International NeuroMalaysia conference, **Malaysia 2012.**

POSTER PRESENTATIONS:

- Iffat Raza, Kanwal Naz, Sahar Mubeen, Lubna Khan, **Farina Hanif** (Corresponding author). “Inhibition of Carbonic Anhydrase II and Modulation of Wnt Signaling Pathway to target Glioblastoma Cells using Dorzolamide” at **1st International Conference on Biomedical Sciences** held at Dow University of Health Sciences, Karachi, organized by Institute of Biomedical Sciences, OJHA CAMPUS, Karachi. **20-21 March 2023**
- Sahar Mubeen, Ather Enam and **Farina Hanif** (Corresponding Author) “Atypical anti-psychotic loperidone have synergistic growth inhibitory activity against glioblastoma cells in combination with Temozolomide” at **1st International Conference on Biomedical Sciences Bridging Basic and Translational research** held at Dow University of Health Sciences, Karachi, organized by Institute of Biomedical Sciences, Dow University of Health sciences, Karachi **March 20-22, 2023.**
- **Farina Hanif**, Kahkashan Perveen, Shabana U Simjee, “N-(2- Hydroxyl Phenyl) acetamide potentiates temozolomide anticancer efficacy by increasing active caspase-3 expression. Presented at 8th Annual Research Day, 2017 held at **Dow University of Health Sciences**, on Feb 25, 2017. **(Selected among top 20 posters)**
- **Farina Hanif**, Kahkashan Perveen, Saima Mahmood Malhi, Shabana U Simjee. “Calcium Channel Blocker Increases the Anticancer Activity of Temozolomide by Inhibiting Autocrine VEGF Signaling”. Presented at 15th Annual Meeting of Safety

Pharmacology Society, **Prague, Czech Republic**, Sep 28th - 01st Oct 2015.

- **Farina Hanif**, Bushra Chaudhry, Muneera Rasheed, Youseef Hussain, Naila Nadeem, and Bushra Afroze. "Association of CC2D1A deletion with non-syndromic autosomal recessive mental retardation in Pakistani Population". Presented at Health Science Research Assembly, **Aga Khan University, Karachi, Pakistan**, Aug22-23, 2016.
- **Farina Hanif**, Bushra Chaudhry, Muneera Rasheed, Youseef Hussain, Naila Nadeem, and Bushra Afroze. "Association of TECR mutation with non-syndromic autosomal recessive mental retardation in Pakistani Population". Presented at Health Science Research Assembly, **Aga Khan University, Karachi, Pakistan**, Aug22-23, 2016.
- **Farina Hanif**, Kausar Saboohi, Bushra Chaudhry. "Bioinformatics Navigation: Predicted Structure-Function Dynamics of Calpain10 Isoforms". Presented at International Conference on Translational Medicine at Ziauddin University, Karachi, on 1-3 Feb 2016.
- **Farina Hanif**, Kahkashan Perveen and Shabana Usman Simjee **"Temozolomide and verapamil worked synergistically in human malignant glioblastoma cell line and increased apoptosis through activation of intrinsic pathway"** presented at 5th international symposium-cum-training course on Molecular Medicine and Drug Research" at PCMD, ICCBS, UoK on 12th-15th Jan 2015.
- Kahkashan Perveen, **Farina Hanif**, and Shabana Usman Simjee **"N-(2- hydroxy phenyl) acetamide controls toll-like receptors, TLR2 and TLR4 in experimental arthritis model"** presented at 5th international symposium-cum-training course on Molecular Medicine and Drug Research" at PCMD, ICCBS. 12-15 Jan 2015, organized by PCMD, ICCBS, UoK
- **Farina Hanif**, Kahkashan Perveen and Shabana Usman Simjee. **"Synergistic effect of Verapamil and Temozolomide on growth inhibition of brain cancer cells"**, 1st Annual KCL Neuroscience symposium, London, United Kingdom. Mar 8th, 2014.
- **Farina Hanif**, Kahkashan Perveen and Shabana Usman Simjee. **"N-(2- hydroxy phenyl) acetamide induces apoptosis of brain cancer cells by increasing Bax/Bcl-2 ratio"** presented at 13th Annual Safety Pharmacology Society meeting, Rotterdam, Netherlands. Sep 15th-20th, 2013.
- Kahkashan Perveen, **Farina Hanif**, and Shabana Usman Simjee. **"Expressio n of Toll-like receptors (TLR4) in splenocytes and its inhibition by N-2(-hydroxy phenyl) acetamide in adjuvant-induced arthritic rat model (AIA)"** presented at 13th Annual Safety Pharmacology Society meeting, Rotterdam, Netherlands. Sep 15th-20th, 2013.
- **Farina Hanif** and Shabana Usman Simjee **"The Effects of Novel Antiproliferative**

Compound Na-2 In Combination, With Temozolomide On Human Glioblastoma Cells” presented at 4th international symposium on molecular Medicine and drug Research” at PCMD, ICCBS. 7-10 Jan 2013.

- **Farina Hanif**; GK Siddiqui; Asif Rasheed; A.B. Maclean and PM Frossard “**VEGF gene dimorphism is a risk factor associated with Ovarian epithelial cancer in Pakistani women.**” Presented at 3rd international symposium-cum-training course on molecular Medicine and drug Research at PCMD, ICCBS. 3-6 Jan 2011, organized by PCMD, ICCBS, UOK.
- Saima Mehmood Malhi; **Farina Hanif**; Huma Jawed; Sabira Begum and Shabana. U. Simjee “**Effect of HH-L6, on kindling development and expression of BDNF and c-Fos in a model of epileptogenesis**” Presented at 3rd international symposium-cum-training course on molecular Medicine and drug Research at PCMD, ICCBS. 3-6 Jan 2011, organized by PCMD, ICCBS, UOK. **(2nd Prize)**
- **Farina Hanif** “**Role of AMPA receptors in the onset and progression of Glioblastoma**”, Presented at women in world Neuroscience symposium. 1st July 2010, organized by Women in World Neuroscience.

CONFERENCES AND WORKSHOPS:

WORKSHOPS:

- **Data Preparation, Visualization and Wrangling in R** at University of Virginia, USA, March 2022
- **Post-Procedure Care of Mice and Rats in Research: Minimizing Pain and Distress**, at University of Virginia, USA, December 2021
- **Working with the Laboratory Mouse** at University of Virginia, USA, December 2021.
- **Module II (Molecular Modeling and Docking)**, bioinformatics workshop, at Baqai Institute of Information Technology, Karachi, held on Oct 21st, 2018.
- **Module I Basic Bioinformatics workshop**, at Baqai Institute of Information Technology, Karachi, held on Oct 29th, 2018.
- **DNA Next Generation Sequencing Data Analysis**, at Jamil-ur-Rahman Center for Genome Research, ICCBS, University of Karachi, Mar 27-29, 2017.
- **Multiple Choice Question (MCQs) Writing**, at Dow Institute of Medical Education (DIME), Dow University of Health Sciences (DUHS), Dec 20, 2016.
- **Basic Techniques in Vitro Neural Differentiation from Stem Cells**, University of Putra Malaysia, Selangor, Malaysia. Aug 22-26, 2016.
- **Training on Isolated Heart Perfusion Assembly**, Department of Biological and Biomedical Sciences, Aga Khan University, May 17, 2016.
- **Fundamentals of Laboratory Safety**, Department of Biological and Biomedical Sciences, Aga Khan University, Dec 21, 2015.

- **Techniques in Human Genomic studies**, Jamil-ul-Rahman Center for genomics, International Center for chemical and biological sciences, University of Karachi. 20-22 Aug 2014.
- **Workshop on Optogenetics**, held at King's College London, University of London, UK. 8- Mar 2014
- **Cell Culture Training Course**, Mar 4-22, 2013, conducted by Prof. Dr. Dieter Meyer (Germany) held at PCMD, International Center for Chemical and Biological Sciences, UOK.
- **IBRO School of Neurosciences**, Organized by International Brain Research Organization on Nov 19 to 30, 2012 at Monash University, Jeffrey Cheah School of Medicine and Health Sciences, Malaysia
- **2nd Tehran IBRO School of Neurosciences**, Molecular, Electrophysiological and Behavioral Approaches, Organized by International Brain Research Organization on May 12 to 23, 2012 at Institute of Research in Fundamental Sciences (IPM) and Tarbiat Modarres University, Tehran, Iran.
- **International Brain Research Organization (IBRO) APRC School of Neurosciences**, 9-19 Oct 2011, at Capital Medical University, **Beijing, China**.
- **How to write a winning scientific research proposal**, Sep 24, 2011, Organized by L.E.J. National Sciences Information Center under Virtual Education Project Pakistan, and Higher Education Commission Pakistan.
- **How to write scientific manuscripts for high impact factor journals**, July 23, 2011, organized by L.E.J. National Sciences Information Center under Virtual Education Project Pakistan and Higher Education Commission Pakistan.
- **Nation Wide Patch Clamp Workshop**, Dec21-23 2009, organized by PCMD UoK.
- **Workshop on Biosafety**, organized by The Aga Khan University.
- **Workshop on Introduction to Quantitative Data Analysis through SPSS Program**, Aug 25-29, 2008, organized by The Aga Khan University.
- **Workshop on Chemical Safety and Spill Management**, The Aga Khan University
- **The Power of Projection**, Jan 19, 2009, Organized by The Aga Khan University

Conferences:

- 8th International symposium-cum-training course on **Molecular Medicine and Drug Research (MMDR-8)** organized by Dr. Panjwani Centre for Molecular Medicine and Drug Research at **International Centre for Chemical and Biological Sciences, University of Karachi, November 27 – 30, 2023.**
- **The 17th Annual Fulbright Alumni Conference** focused on solutions to climate change. Organized by the **US Mission to Pakistan** on 12-14th November at Marriott Hotel, Islamabad.
- **International conference on Biomedical Sciences** at Dow University of Health Sciences, Karachi, Pakistan. 20th – 21st March 2023.
- **2nd PROBE conference** on Molecules to Mechanism, organized by Department of Physiology, University of Karachi at **University of Karachi, 7th -9th January 2020. (Received Best Presentation Award)**
- 4th International Conference on **Challenges In Drug Discovery and Therapeutics** organized by **Ziauddin University Karachi, 6th-7th December, 2019.**
- 7th international Symposium-cum-training course on **Molecular Medicine and Drug Research (MMDR-7)** organized by Dr. Panjwani Centre for Molecular Medicine and Drug Research at **International Centre for Chemical and Biological Sciences, University of Karachi, November 4 – 7, 2019.**
- “Inhibition of VEGF signaling in human glioblastoma cells by synergetic action of Verapamil with temozolomide” at **5th Annual Neuroscience Conference**, held at Aga Khan University, Karachi, organized by Pakistan Society of Basic and Applied Neuroscience at **Aga Khan University, Karachi 14-15 September 2019.**
- **6th International Conference on Endorsing Health Sciences Research**, at International Center for Chemical and biological Sciences, Karachi Pakistan. April 7th, 2018
- **40th Annual Conference of Pakistan Association of Pathologists (PAP)** organized by Sindh Institute of Urology and Transplantation (**SIUT**) Karachi, Pakistan. Dec 14th -16th 2017,
- **6th International Symposium-cum-Training Course on Molecular Medicine and drug Research.** Organized by Dr. Panjwani Center for Molecular Medicine and drug research, **Karachi Pakistan. Nov 6th-9th 2017.**
- **14th Meeting of Asian-Pacific Society for Neurochemistry** held at Hotel Istana, Kuala Lumpur, Malaysia on Aug27th to 30th, 2016.
- **International Conference of Translational Medicine from Discovery to Health**

Care held at Ziauddin University, Karachi. Feb 1-3, 2016.

- **KCL Neuroscience symposium** held at King's College London, University of London, UK. 8- Mar 2014.
- **13th Annual Meeting of the Safety Pharmacology Society**, held at Convention Center, Rotterdam, Netherlands, Sep 16-19, 2013,
- **International Conference on Women in Science and Technology in the Arab Countries** at KISR, Kuwait. April 21 to 23, 2013
- **3rd International Neuromalaysia Symposium**, Nov 29-30, 2012, at Monash University Malaysia.
- **4th International Symposium-cum-Training Course on Molecular Medicine and Drug Research** at PCMD, ICCBS. 7-10 Jan 2013, organized by PCMD, ICCBS, UOK
- **13th International Symposium on Natural Product Chemistry** 22- 25 Oct 2012 at HEJRIC, ICCBS. Organized by ICCBS, UOK.
- **1st International Conference on Building National Biosafety and Global Ties** 19th Nov 2011, Organized by **Pakistan Biosafety Association**.
- **"3rd International Symposium-cum-Training Course on Molecular Medicine and Drug Research"** at PCMD, ICCBS. 3-6 Jan 2011, organized by ICCBS, UOK.
- **12th International Symposium on Natural Product Chemistry**, 22- 25 Nov 2010 at HEJRIC, ICCBS. Organized by ICCBS, UOK.
- **Development of Network of Women Neuroscientists in Pakistan**, 1-2 July 2010. Organized by PCMD and Women in world neuroscience.
- **Think Science**, Teaching Aid Competition, 2007 (2nd Prize).

PAPER PUBLICATIONS

Total publications = 29

Under review = 1

H index = 10

Total Impact factor = 72,

Total Citations: > 1450 (Google scholar)

1. **Hanif F***, Amir Q, Washdev W. Effect of DIO2 Gene Polymorphism on Thyroid Hormone Levels and Its Correlation with the Severity of Schizophrenia in a Pakistani Population. *Int J Mol Sci.* 2024 Feb 5;25(3):1915. **(IF = 5.6; Corresponding author) (W Category)**
2. Bibi I, **Hanif F***, Amir Q, Washdev W, Bari MF. Impact of Brain derived Neurotrophic factor gene polymorphism on its peripheral levels in schizophrenic patients. *J Pak Med Assoc.* 2024 Feb;74(1 (Supple-2)): S19-S24. **(IF = 0.9; Corresponding author) (X Category)**
3. Saad S, **Hanif F***, Simjee SU, Faizi S, Khan L, Ashfaq A. Modulation of Apoptotic and Akt/PI3K/mTOR pathways to target Glioblastoma Cells using synthetic compound PGEA-AN. *J Pak Med Assoc.* 2024 Feb;74(1 (Supple-2)): S39-S46. **(IF = 0.9; Corresponding author) (X Category)**
4. Haque Z, Hanif F, Owais M. AI in biomedical research: unleashing the potential of a transformative partnership. *J Pak Med Assoc.* 2024 Feb;74(1 (Supple-2)): S1 **(Editorial, IF = 0.9) (X Category)**
5. Zubair M, Khan S, Ali A, **Hanif F**, Abbas U, Ahmed B, Mehmood S, Khan F. Association of Vitamin D Gene Receptor Polymorphism with Osteoporosis in Postmenopausal Women. *Molecular Medicine Communications.* 2023 Dec 29;3(02):139-48 **(Y Category)**
6. Gibert MK, Zhang Y, Collin D, Saha S, **Hanif F**, Hudson K, Marcinkiewicz P, kefas B, Guessous F, and Abounader. Differentially expressed transcribed ultra-conserved regions in gliomas and their role in GBM pathology, invasion, and migration. (In progress).
7. **Hanif F**, Zhang Y, Collin D, Gibert K, Saha S, Hudson K, Marcinkiewicz P, kefas B, Guessous F, and Abounader. miR-3174 is a new tumor suppressor microRNA that inhibits several oncogenes in glioblastoma. *Int J Mol Sci.* 2023 May 26;24(11):9326. **(IF = 6.2) (W category)**
8. Haque Z, Hanif F, Owais M, Siddiqui S. 1st International conference on biomedical sciences, Dow University of Health Sciences, Karachi, Pakistan. *J.PMA.* 2023 June; 73 (6). **(IF=0 .9) (X category)**
9. Gibert Jr MK, Sarkar A, Chagari B, Roig-Laboy C, Saha S, Bednarek S, Kefas B, **Hanif F**, Hudson K, Dube C, Zhang Y, Abounader R. Transcribed Ultraconserved Regions in Cancer. *Cells.* 2022 May;11(10). **(IF=7.6) (W category)**

10. Noor T, Kiran Z, Ali A, Syed B S, **Hanif F**. Corelation of copeptin with osmolarity and electrolytes in diabetes Mellitus: A tertiary center outpatient experience. International Journal of Endorsing Health Science Research. 2022; 10 (2), 157-166. Doi: 10.29052/IJEHSR.v10. i2.2022.157-166. **(Corresponding author) (Y Category)**
11. Hussain IS, Noor T, Amir Q, Washdev W, **Hanif F**. Prevalence of misconceptions and presentation of covid-19 post-vaccination symptoms among health care workers of Karachi, Pakistan. JPPS. 31 Oct 2022. 19(2). (Y category)
12. Javed L, **Hanif F**, Malhi SM, Zaman U, Jahan N, Amir Q, Javed A, Malik AB, Abrar H. Diclofenac sodium enhances the antiepileptic effect of levetiracetam in pilocarpine induced epileptic mice model. Pakistan Journal of Pharmaceutical Sciences. 2021 Sep 1;34(5 (Supplementary)):1969-74. **(Corresponding author) (IF=0.6). (Y Category)**
13. Javed A, Malik A, Amir Q.- ul-A, **Hanif F**, Washdev W, & Jawed L. Glutamate ionotropic receptor AMPA type subunit 1 gene polymorphism (Gly>Ser) and its association with schizophrenia in Pakistani population: A pilot Study. International Journal of Endorsing Health Science Research. 2021. (IJEHSR), 9(4), 466-473. <https://doi.org/10.29052/IJEHSR.v9.i4.2021.466-473>. **(Corresponding author) (Y Category)**
14. Ashfaq A, **Hanif F**, Simjee SU, Bari MF, Faizi S, Zehra S, Mirza T, Begum S, Khan L. Opuntiol Inhibits Growth, and Induces Apoptosis in Human Glioblastoma Cells by Upregulating Active Caspase 3 Expression. Asian Pacific Journal of Cancer Prevention: APJCP. 2021 Nov 1;22(11):3607-13. **(Corresponding author). (PubMed Indexed) (Y Category)**
15. QuratulAin, **Hanif F***, Amar WD, Bilwani F, Simjee SU. Synonymous polymorphism rs201256011 in Dopamine receptor type 2 gene is associated with schizophrenia in Pakistani population: A First Report. Int J Clin Pract. 2020; e13536. doi:10.1111/ijcp.13536 **(Corresponding author) (IF=2.6) (X Category)**
16. Noor T, **Hanif F***, Kiran Z, Rehman R, Haque Z, Nankani K. Relation of Copeptin with Diabetic and Renal Function Markers Among Patients with Diabetes Mellitus Progressing Towards Diabetic Nephropathy. Arch Med Res. 2020; S0188-4409(20)30306-4. doi:10.1016/j.arcmed.2020.05.018. **(Corresponding author) (IF=2.2) (W category)**
17. **Hanif F***, Quratul Ain Amir, Amar WD, Bilwani F, Shabana SU. A novel variant in dopamine receptor type 2 gene is associated with schizophrenia. Arch Med Res. 2020; 10:S0188-4409(20)30623-8. **(IF=2.2) (W category)**
18. Aziz A, **Hanif F**, Majeed S, Iftikhar K, Simjee SU (2019). N-(2-hydroxyphenyl) acetamide (NA-2) elicits potent antitumor effect against human breast cancer cell line (MCF-7). Toxicol in Vitro 60: 296-304 **(IF = 3.5) (X Category)**
19. Chaudhry, **Hanif F**, Kausar S. (2019). Molecular Signatures of Calpain 10 Isoforms Sequences, Envisage Functional Similarity and Therapeutic Potential. Pakistan

20. **Hanif F**, Perveen K, Malhi SM, Jawed H, Simjee SU (2018). Verapamil potentiates anti-glioblastoma efficacy of temozolomide by modulating apoptotic signaling. *Toxicol in Vitro* S0887-2333(18)30343-6. (IF = 3.5)
21. **Hanif F**, Muzaffar K, Perveen K, Malhi SM, Simjee ShU. (2017). Glioblastoma Multiforme: A Review of its Epidemiology and Pathogenesis through Clinical Presentation and Treatment. *Asia Pacific journal of Cancer Prevention* 18(1):3-9. (PubMed Indexed) (Y Category)
22. Hagiwara Y, Sieverling L, **Hanif F**, Anton J, Dickinson ER, Bui TT, Andreeva A, Barran PE, Cota E and Nikolova PV. (2016). Consequences of point mutations in melanoma-associated antigen 4 (MAGE-A4) protein in human cancers: Insights from structural and biophysical studies. *Scientific Reports (npg)* 6:25182 (IF = 4.5) (W Category)
23. **Hanif F**, Perveen K, Jawed H, Ahmed A, Malhi SM, Jamall S and Simjee SU (2014) N-(2-hydroxyphenyl) acetamide (NA-2) and Temozolomide synergistically induce apoptosis in human glioblastoma cell line U87. *Cancer Cell International*. 14(1): 133. (IF = 5.14) (W Category)
24. Perveen K, **Hanif F**, Jawed H, Jamall S and Simjee SU (2014) N-(2-hydroxy phenyl) acetamide: a novel suppressor of Toll-like receptors (TLR-2 and TLR-4) in adjuvant-induced arthritic rats. *Molecular and Cellular Biochemistry*. 394(1-2): 67-75. (IF = 3.39) (X Category)
25. Malhi SM, Jawed H, **Hanif F**, Ashraf N, Zubair F, Siddiqui BS, Begum S, Kabir N and Simjee SU (2014) Modulation of c-Fos and BDNF protein expression in pentylenetetrazole-kindled mice following the treatment with novel antiepileptic compound HHL-6. *Biomed Research International*. 2014: 876712. (IF = 3.41) (W Category).
26. Jawed H, ShahSUA, Jamall S, Perveen K, **Hanif F**, and Simjee SU (2014) N-(2-hydroxy phenyl) acetamide produces profound inhibition of c-Fos protein and mRNA expression in the brain of adjuvant-induced arthritic rats. *Molecular and Cellular Biochemistry*. 2014:387. (IF = 3.39) (X Category)
27. **Hanif F**, Perveen K, Jawed H, and Simjee SU (2013) In vitro growth inhibition of u87 glioblastoma cells by N-(2- hydroxy phenyl) acetamide. *International Journal of Medicine and Pharmaceutical Sciences*. 3 (4): 69 - 78.
28. Perveen K, **Hanif F**, Jawed H, and Simjee SU (2013) Protective efficacy of N-(2-hydroxyphenyl) acetamide against adjuvant -induced arthritis (AIA) in rats. *Biomed Research International*. 2013: 635143. (IF = 3.41) (W Category).
29. Danish Saleheen et al. (2009) The Pakistan Risk of Myocardial Infarction Study: a bio resource for study of genetic and other determinants of myocardial infarction in South Asia. *European Journal of Epidemiology*. 24(6):329-38. (IF = 8.08) (W Category).

ABSTRACTS PUBLISHED IN IMPACT FACTOR JOURNALS

Abstracts = 09

Total Impact factor = 53.93.2

1. Dube C, Zhang Y, Saha S, Lai M, Gibert M, Escalante M, Mulcahy E, Ottolini M, Hudson K, Bednarek S, **Hanif F**, Xu E, Sorot A, Sonkusare S, Sontheimer H, Abounader R (2022). T-type calcium channels drive glioblastoma growth by promoting neuronal interactions. *Neuro-Oncology*. Volume 24, Issue Supplement_7. **(IF = 13.02)**
2. T Noor, MT Khan, **Hanif F**, Z Kiran, AA Baloch (2020). Detection of serum copeptin levels in diabetic patients to evaluate progressive nephropathy. *NEPHROLOGY*.25, 39-39. **(IF = 10.12)**
3. T Noor, MT Khan, **Hanif F**, Z Kiran, AA Baloch, Rehman R. (2020)Correlation of vasopressin with serum electrolytes in diabetes mellitus patients progressing towards diabetic nephropathy. *NEPHROLOGY*.25, 38-39. **(IF = 10.12)**
4. **Hanif F**, Perveen K and Simjee SU (2016). Verapamil potentiates temozolomide anticancer efficacy through the intrinsic apoptotic pathway in brain cancer cells. *Front. Cell. Neurosci. Conference Abstract: 14th Meeting of the Asian-Pacific Society for Neurochemistry*. doi: 10.3389/conf.fncel.2016.36.00190 **(IF = 4.5)**
5. **Hanif F**, Perveen K, and Simjee SU (2016). Calcium channel blocker increases the anticancer activity of temozolomide by inhibiting autocrine VEGF signaling, *Journal of Pharmacological and Toxicological Methods*. **81, 350** doi.org/10.1016/j.vascn.2016.02.051. **(IF = 1.95)**
6. Chaudhry B, Alia A, Mah-e-Nu M, **Hanif F** (2016). Serum 25-Hydroxy vitamin D levels and Metabolic Health Status in Obese individuals in Pakistan. *Surgery for obesity and related diseases*. 12 (7): S205. DOI: <http://dx.doi.org/10.1016/j.soard.2016.08.357> **(IF = 4.49)**
7. Simjee SU, Perveen K, **Hanif F**, Jawed H, and Jamall S (2015). Therapeutic activity of N-(2-hydroxy phenyl) acetamide: a novel anti-arthritic agent on pro-inflammatory cytokines production and suppression of Toll-like receptors (TLR-2 and TLR-4) in adjuvant-induced arthritic rats. *The FASEB Journal* 2015 29:1_supplement **(IF = 5.83)**
8. Hanif F, Perveen K and Simjee SU (2014)N-(2-hydroxy phenyl) acetamide induces apoptosis of brain cancer cells by increasing Bax/Bcl-2 ratio. *Journal of Pharmacological and Toxicological Methods*.70 (1): 321 **(IF = 1.95)**
9. Perveen K, Hanif F and Simjee SU (2014) Expression of toll-like receptor (TLR4) in splenocytes and its inhibition by N-(2-hydroxy phenyl) acetamide in adjuvant induce arthritic rat model (AIA). *Journal of Pharmacological and Toxicological Methods*.70 (1): 322 **(IF = 1.95)**

ABSTRACTS PUBLISHED IN ABSTRACT BOOKS

1. Quratulain and **Farina Hanif*** "Association of Dopamine Receptor Type 2 gene variant (Ser311Cys) with schizophrenia in Pakistani population: a case-control study) published in abstract book of 5th Annual Neuroscience Conference, 2019 held at **Aga Khan University, Karachi**
2. Quratulain and **Farina Hanif*** "Genetic Variability of Dopamine Receptor Type 2 in Schizophrenic Patients of Pakistan: A Case-Control Study" published in abstract book of 7th International Symposium cum training Course on Molecular Medicine and Drug Research, 2019 held at PCMD, **HEJ Research Institute, Karachi.**
3. Quratulain and **Farina Hanif*** Polymorphisms in Exon 7 of Dopamine Receptor Type 2 gene and their association with schizophrenia in Pakistani population) published in abstract book of PROBE: Down the road, organized by **Dept. Of Physiology, University of Karachi, 2020.**
4. **Farina Hanif**, Bushra Chaudhry, Muneera Rasheed, Youseef Hussain, Naila Nadeem, and Bushra Afroze. "Association of CC2D1A deletion with non-syndromic autosomal recessive mental retardation in Pakistani Population". presented at Health Science Research Assembly, **Aga Khan University, Karachi, Pakistan**, Aug22-23, 2016.
5. **Farina Hanif**, Bushra Chaudhry, Muneera Rasheed, Youseef Hussain, Naila Nadeem, and Bushra Afroze. "Association of TECR mutation with non-syndromic autosomal recessive mental retardation in Pakistani Population". at Health Science Research Assembly, **Aga Khan University, Karachi, Pakistan**, Aug22-23, 2016.
6. **Farina Hanif**, Bushra Chaudhry, Kausar Saboohi. (2016). **Bioinformatics Navigation: Predicted Structure-Function Dynamics of Calpain10 Isoforms.** Presented at International Conference on Translational Medicine at Ziauddin University, Karachi, on 1-3 Feb 2016.
7. **Farina Hanif**, Kahkashan Perveen, Saima Mahmood Malhi, Shabana U Simjee. **"Calcium Channel Blocker Increases the Anticancer Activity of Temozolomide by Inhibiting Autocrine VEGF Signaling"**. Presented at 15th Annual Meeting of Safety Pharmacology Society, Prague, Czech Republic, Sep 28th - 01st Oct 2015.
8. **Farina Hanif**, Kahkashan Perveen and Shabana Usman Simjee. **"Synergistic effect of Verapamil and Temozolomide on growth inhibition of brain cancer cells"**, 1st Annual KCL Neuroscience symposium, London, United Kingdom. March 8th, 2014.
9. **Farina Hanif** and Shabana Usman Simjee. **"The Effects of antiproliferative Compound Na-2 In Combination with Temozolomide on Human Glioblastoma Cells.** 4th international symposium-cum-training course on molecular Medicine

and drug Research at PCMD, ICCBS. 3-6 Jan 2013, organized by PCMD, ICCBS, UOK.

10. **Farina Hanif**; Saima Mehmood Malhi; Huma Javed; Nadeem Ashraf; Farhat; Sabira Begum and Shabana. U. Simjee **“HHL-6 down-regulates BDN expression in PTZ-induced kindling model of epilepsy in mice”** presented at Neuroscience School organized by International Brain Research Organization (IBRO-APRC School Neurosciences) **Tehran, Iran**. May 12 to 23, 2012.
11. **Farina Hanif** and Kaneez Fatima Shad, **“Role of AMPA receptors in the onset and progression of Glioblastoma”**. In a symposium Development of Network of Women Neuroscientists in Pakistan, 2010.
12. Saima Mehmood Malhi; **Farina Hanif**; Huma Javed; N Ashraf; Farhat Sabira Begum and Shabana. U. Simjee **“Effect of HH-L6, on kindling development and expression of BDNF and c-Fos in a model of epileptogenesis”**, 2011.
13. Farina Hanif; GK Siddiqui; Asif Rasheed; A.B. Maclean and PM Frossard **“VEGF gene dimorphism is a risk factor associated with Ovarian epithelial cancer in Pakistani women”**, 2011.

Many others....

References:

Will be furnished on request.