

Dr. Muhammad Shahid Javed

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Dr. Muhammad Shahid Javed

M.B.,B.S. ; Ph.D.

PROFILE SUMMARY

Medical graduate (M.B.,B.S.) from Allama Iqbal Medical College Lahore, University of Punjab, Lahore, Pakistan. Moved to Japan for Ph.D. in Medical Science from Graduate School of Medicine, Okayama University, Japan. Research & academic experience in the field of Physiology, Cell & Molecular Biology, Stem Cell research & technologies and Regenerative Medicine. A number of publications in highly reputed peer-reviewed ISI indexed international medical journals in the field of Stem Cells Science, Cell Physiology & Regenerative Medicine. Currently working as **Assistant Professor and Head of Physiology Department** in Sargodha Medical College, University of Sargodha (a public sector university), Sargodha, Pakistan since 2012.

PERSONAL INFORMATION

Date of birth 14th November, 1973

Office Address Department of Physiology, Sargodha Medical College (SMC), Sargodha, Pakistan
Nationality Pakistani

Telephone +92 -344-6604327

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EDUCATION

2012 **DOCTORATE (Ph.D.) “Medical Science”**, Graduate School of Medicine and Dentistry, Okayama University, Japan.
Thesis Title: Establishment of an immortalized porcine liver cell line JSNK-1 with retroviral transduction of SV40T.

1998 **M.B., B.S. (Bachelor of Medicine & Bachelor of Surgery)**
Allama Iqbal Medical College Lahore (University of Punjab Lahore), Pakistan

1991 **HSSC – Higher Secondary School Certificate (F.Sc. Pre-medical)**
Govt. College University Lahore, Pakistan
Major Subjects: **Biology, Chemistry, Physics**

RESEARCH/TEACHING EXPERIENCE

24-04-2012 **ASSISTANT PROFESSOR and HOD**, Department of Physiology, Sargodha Medical College, University of Sargodha, Sargodha, Pakistan
to date
- Teaching undergraduate and post graduate students and supervising their research projects
Course taught: Medical Physiology

01-08-2010 **VISTING RESEARCH SCHOLAR**, Centre for Innovative Regenerative Therapies (CIRT), children hospital of Pittsburgh of UPMC, University of Pittsburgh, USA.
to
04-01-2011
- Research experience in stem cell technologies, cell physiology and regenerative medicine

PROFESSIONAL EXPERTIES AND DISTINCTIONS

- “STEM CELL TECHNOLOGIES”

- Expert in maintenance, growth, proliferation and differentiation of stem cells to different tissue cells (especially hepatocytes, endothelial cells, iPS cells, cholangiocytes, β cells), both human embryonic stem cells (hES) and induced pluripotent stem cells (iPS).

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- Established four iPS cell lines using retroviral plasmid transfection system by forced expression of four genes: **Oct 3/4, Sox 2, KLF4 and c-Myc.**
- Expert in the characterization of stem cells in terms of gene expression, immune fluorescence staining and various enzyme linked immunosorbent assays.
- Certificate of excellence in Stem Cell Technologies under International Training Program (ITP) in Centre for Innovative Regenerative Therapies (CIRT), children hospital of Pittsburgh of UPMC, University of Pittsburgh, USA

Future Perspective: Reprogramming of somatic cells to stem cells using small peptides without using retroviruses and their hepatic differentiation for cellular targeted liver therapies.

- **“REGENERATIVE MEDICINE AND TISSUE ENGINEERING”**

- Established Hepatic Stellate Cell line JSNK-1 for study of Hepatic Stellate cells (HSCs) pathophysiology and integrated liver functions, understanding the mechanism of hepatic fibrosis and to develop strategies for prevention and treatment of hepatic fibrosis.
- Generated homogenous population of functional hepatocyte-like cells from the iPS cells which could be used for autologous hepatocyte transplantation for liver failure, to understand disease mechanisms and as in vitro model for determining the metabolic and toxicological properties of drug compounds.
- Active member of the team constructing bioartificial liver support devices (BALS) for the treatment of acute liver failure.
- Expert in the construction of recombinant retroviruses vectors and their transduction.

- **“Cell Physiology”**

Topics: Mammalian Cell Culture, Immune-fluorescent Staining & Visualization under Confocal Microscope and transmission electron microscopy (TEM), Fluorescence-activated cell sorting (FACS), siRNA and Plasmid Transfections, DNA Damage Induction (UVC, IR, Drugs). Isolation of various tissue cells like fibroblasts and hepatocytes, PAS and oil red O staining etc. Expert in animal and cellular models of diseases

- **“Molecular Biology”**

Topics: DNA and RNA Purification, Transformations, Polymerase Chain Reaction (RT-PCR), Quantitative PCR, SDS-PAGE, Western Blots, and various enzyme-linked immunosorbent & functional assays.

PUBLICATIONS (INTERNATIONAL)

- Establishment of an immortalized porcine liver cell line JSNK-1 with retroviral transduction of SV40T.
Javed M Shahid, Masaya Iwamuro, Hiromi Sasamoto, *et al.*
Cell Transplantation. 19 (6) 849-856; 2010, USA
Impact Factor: 6.204
- Prospects of Induced Pluripotent Stem Cell-derived hepatocytes in cell therapy.
Masaya Iwamuro, **Javed M Shahid**, Kazuhide Yamamoto and Naoya Kobayashi.
Cell Medicine. 2 (1) 1-8; 2011, USA
- Isolation and Propagation of a Human CD133-Negative Colon Tumor Derived Cell Line with Tumorigenic and Angiogenic Properties.
Navarro-Alvarez N, Kondo E, Yuasa T, Kubota Y, Seita M, Nakahara H, **M. Shahid Javed**, *et al.*
Cell Transplantation. 19 (6) 865-877; 2010, USA
Impact Factor: 6.204
- Treatment of Acute Liver Failure in Mice by Hepatocyte Xenotransplantation.
Navarro-Alvarez N, Yamamoto T, -Gutierrez AS, Yuasa T, Kawamoto H, **M. Shahid Javed**, *et al.*
Cell Transplantation. 19 (6) 799-806; 2010, USA
Impact Factor: 6.204
- Hepatic differentiation of mouse iPS in vitro.
Masaya Iwamuro, Toshiyuki Komaki, Yasuhiro Kubota, Masayuki Seita, **M. Shahid Javed**, *et al.*

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Cell Transplantation. 19 (6) 841-847; 2010, USA

Impact Factor: 6.204

-
- Comparative analysis of endoderm formation between mouse ES cells and iPS cells.

Masaya Iwamuro, Toshiyuki Komaki, Yasuhiro Kubota, **M. Shahid Javed**, *et al.*

Cell Transplantation. 19 (6) 831-839; 2010, USA

Impact Factor: 6.204

-
- Characteristics of CD133(+) Human Colon Cancer SW620 cells.

Hironobu Kawamoto, Takeshi Yuasa, Yasuhiro Kubota, Masayuki Seita, **M. Shahid Javed**, *et al.*

Cell Transplantation. 19 (6) 857-864; 2010, USA

Impact Factor: 6.204

-
- Bone repair by hTERT immortalized mesenchymal Stem Cells in mouse.

Hiroyuki Nakahara, Misawa, Takeshi Yuasa, Yasuhiro Kubota, Masayuki Seita, **M. Shahid Javed**, *et al.*

Transplantation. 88 (3) 346-353; 2009, USA

Impact Factor: 3.498

-
- Long term culture of Japanese human Embryonic Stem cells in feeder-free conditions

Navarro-Alvarez N, Soto-Gutierrez A, Yuasa T, Yamatsuji T, Shirakawa Y, Nagasaka T, **M. Shahid Javed**, Tanaka N, Kobayashi N.

Cell Transplantation. 17 (1-2): 27-33. 2008, USA

Impact Factor: 5.251

-
- Vitamin C supplementation ameliorates antiviral treatment response in Hepatitis C patients by improving the Liver Function Profile.

I Nayila, R Dawood, **MS Javed**, M Rizwan, MN Anjum, G Hussain, MZH Dogar, SA Malik.

Romanian Biotechnological Letters.

Impact Factor: 0.765

-
- Segmental stabilization exercises can improve chronic low back pain.

Iftenaz Begum, M. Junaid Ijaz, M. Mustafa Qamar, **M. Shahid Javed**, Akhtar Rasul, Ayesha Basharat

Saudi Journal of Sports Medicine. 18(2) 93-96. May-Aug 2018; Saudi Arabia

Impact Factor: 0.130

-
- Effects of Interval Training On Functional Capacity, Muscle Mass And Strength In Overweight Adults.

M. Mustafa Qamar, **M. Shahid Javed**, Ayesha Basharat, Waqas Ahmad, Azhar Ayyoub, Akhtar Rasul.

Indo American Journal of Pharmaceutical Sciences. 6(8), 15195-15200. Aug 2019. India

Impact Factor (Cosmos): 0.437

PUBLICATIONS (NATIONAL)

-
- Generation of hepatocyte like cells from human induced pluripotent (iPS) cells by co-culturing embryoid body cells with liver non-parenchymal cell line TWNT-1.

Muhammad Shahid Javed, Yaqoob Naeem, Masaya Iwamuro, Naoya Kobayashi, Toshiyoshi Fujiwara.

Journal of the College of Physicians and Surgeons Pakistan 24(2) 91-96, Feb. 2014

Impact Factor: 0.420

-
- Beat the exercise-induced muscle damage.

Muhammad Mustafa Qamar, **Muhammad Shahid Javed**, M. Zahoor-ul-Hassan, Ayesha Basharat.

Journal of Pakistan Medical Association. 69(11):1682-1686. Nov 2019

Impact Factor: 0.570

-
- Non-pharmacological interventions to combat exercise-induced muscle damage; a little natural tax on work out.

Muhammad Mustafa Qamar, **Muhammad Shahid Javed**, M. Zahoor-ul-Hassan, Ayesha Basharat.

Journal of Pakistan Medical Association. 68(11) 1686-1690. Nov 2018

Impact Factor: 0.570

-
- Effects of active isolated stretching on exercise-induced muscle damage in untrained subjects: a randomized controlled trial

Muhammad Mustafa Qamar, **Muhammad Shahid Javed**, Muhammad Zahoor ul Hassan, Ayesha Basharat

J Pak Med Assoc.

Impact Factor: 0.570

-
- Prevalence and severity of Depressive illness among youth coming to Psychiatry Out-patient department of District Headquarter Hospital (DHQ), Sargodha

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Rida Dawood, Aftab Nazir, **Muhammad Shahid Javed**, Kashif Rauf, Shoaib Ahmad Malik

Journal of Rawalpindi Medical College (JRMC); 2020; 24(4): 322-327

- Send-up Exam Performance; A Predictor of Scores in Annual Exam for Preclinical Medical Students.

Naeem Yaqoob, Saeed Akram Bhatti, **Muhammad Shahid Javed**.

Professional Med J. 22(2): 159-162. 2015

- Class test performance can be a predictor of performance of scores in annual exam for a preclinical medical student.

Naeem Yaqoob, Saeed Akram and, **Muhammad Shahid Javed**.

JUMDC. 5 (2) 57-60; July-Dec 2014

- Screening for hepatitis B and C viral infections among pregnant women attending the Bolan Medical Complex Hospital and Sandeman Provincial Civil Hospital Quetta, Pakistan.

Zunera Tanveer, Irshad Ahmad, **Muhammad Shahid Javed**, Shoaib Ahmad Malik, *et al.*

Professional Med J. 27(7):1328-1334. 2020

- Active Isolated Stretching; a new emerging remedy.

M. Mustafa Qamar, **Muhammad Shahid Javed**, Muhammad. Zahoor-ul-Hassan, Ayesha Basharat.

Rawal Medical Journal. 44(3):646-648. July- Sep 2019.

- The Mystery behind the Exercised-induced Muscle Damage.

M. Mustafa Qamar, **Muhammad Shahid Javed**, M. Zahoor-ul-Hassan, Ayesha Basharat, Akhtar Rasul

Rawal Medical Journal. 44(4):888-891. Oct- Dec 2019.

CONFERENCE PAPERS	
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- S. Massayuki, H. Sasamoto, K. Yaushiro, H. Kawamoto, S. M. Javed, N. Hoshijima, Y. Nagai, N. Kobayashi
Self- assembling novel peptide gel SPG- 178 is a useful tool for islet culture.

Xenotransplantation. Nov 2009; 16 (6) 546-547, USA

- H. Sasamoto, K. Yaushiro, H. Kawamoto, S. M. Javed, N. Hoshijima, Y. Nagai, N. Kobayashi

Evaluation of synthetic polypeptide gel SPG- 178 for cryoprotection of pancreatic islets

Xenotransplantation. Nov 2009; 16 (6) 546, USA

- T.Hayashi, H.Nakahara, T.Ozaka, Y.Kubota, M.Seita, H.Kawamoto, SM. Javed H. Sasamoto, N. Kobayashi
Allogenic and xenogenic transplantation of Ips-derived osteoblast like cells to treat bony defects

Xenotransplantation. Nov 2009; 16 (6) 546, USA
