

## Faculty Resume

<b>Name:</b>	<b>Dr. Muhammad Tariq Awan</b>																																
<b>Personal:</b>	<b>Father's Name:</b> Fazal Ahmad <b>CNIC No.</b> 35202-0175527-5 <b>Cell No.</b> +92 (334) 4226867 <b>E-mail:</b> <a href="mailto:m_awan_tariq@hotmail.com">m_awan_tariq@hotmail.com</a> <b>Address:</b> Department of Biotechnology, Mirpur University of Science and Technology (MUST), Mirpur-10250 (AJK), Pakistan																																
<b>Qualification</b>	<b>Ph.D. in Molecular Biology</b> <b>Specialization: Stem Cells</b>																																
<b>Experience</b>	<b>02/12/2011- Present</b> <b>Assistant Professor</b> Department of Biotechnology, Mirpur University of Science and Technology (MUST), Mirpur (AJK), Pakistan <b>01/03/2008-01/03/2011</b> <b>Research Associate</b> Centre of Excellence in Molecular Biology, University of the Punjab, Lahore, Pakistan																																
<b>Honors and Awards</b>	Win HEC indigenous scholarship for Ph.D. through national competition in 2005																																
<b>Memberships</b>	N/A																																
<b>Graduate Students</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;">Name of Student</th> <th style="width: 20%;">Degree</th> <th style="width: 20%;">Year</th> </tr> </thead> <tbody> <tr> <td>Waheeda Mushtaq</td> <td>M.Phil</td> <td>2013</td> </tr> <tr> <td>Mian Aman Ullah</td> <td>M.Phil</td> <td>2013</td> </tr> <tr> <td>Saadia Mehboob</td> <td>M.Phil</td> <td>2013</td> </tr> <tr> <td>Raja Zafar Ishaq</td> <td>M.Phil</td> <td>2013</td> </tr> <tr> <td>Muhammad Asif Latif</td> <td>M.Phil</td> <td>2013</td> </tr> <tr> <td>Asif Iqbal</td> <td>M.Phil</td> <td>2013</td> </tr> <tr> <td>Zia-ul-Mahmood</td> <td>M.Phil</td> <td>2013</td> </tr> <tr> <td>Momina Bint-E-Kausar</td> <td>M.Phil</td> <td>2013</td> </tr> <tr> <td>Seerat Bajwa</td> <td>M.Phil</td> <td>2011</td> </tr> </tbody> </table>			Name of Student	Degree	Year	Waheeda Mushtaq	M.Phil	2013	Mian Aman Ullah	M.Phil	2013	Saadia Mehboob	M.Phil	2013	Raja Zafar Ishaq	M.Phil	2013	Muhammad Asif Latif	M.Phil	2013	Asif Iqbal	M.Phil	2013	Zia-ul-Mahmood	M.Phil	2013	Momina Bint-E-Kausar	M.Phil	2013	Seerat Bajwa	M.Phil	2011
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<b>Service Activity</b>	Teaching, Supervision and Research																																
<b>Research Interests</b>	<ol style="list-style-type: none"> <li>1. Treatment of diabetes by stem cells and enhancement of therapeutic potential of stem cells.</li> <li>2. Extraction of plant materials from different parts of medicinal plants and evaluation of their antidiabetic and hepatoprotective activities.</li> <li>3. Treatment of chronic wounds by combination of stem cells, hydrogels and</li> </ol>																																

	nanoparticles.				
<b>Publications</b>	<ol style="list-style-type: none"> <li><b>Tariq M</b>, Masoud MS, Mehmood A, Khan SN and Riazuddin S. (2013). Stromal Cell derived Factor-1alpha protects Stem Cell derived Insulin-producing Cells from Glucotoxicity under high glucose conditions in-vitro and ameliorates drug induced Diabetes in rats. J Transl Med 6;11(1):115. (I.F. = 3.46)</li> <li>Imran Ali, Rehana Asghar, Sajjad Ahmed, Muhammad Sajjad, <b>Muhammad Tariq</b>, M. Waheed Akhtar. mRNA secondary structure engineering of <i>Thermobifida fusca</i> endoglucanase (Cel6A) for enhanced expression in <i>Escherichia coli</i>. World Journal of Microbiology and Biotechnology DOI 10.1007/s11274-015-1806-5 (I.F. = 1.35)</li> <li>Ashfaq UA, Qasim M, Yousaf MZ, <b>Awan MT</b> and Jahan S. (2011). Inhibition of HCV 3a genotype entry through Host CD81 and HCV E2 antibodies. J Transl Med 10:9(1):194. (I.F. = 3.46)</li> </ol>				
<b>Research Grants and Contracts</b>	<b>Title and Place of Research</b>	<b>Donor Agency</b>	<b>Amount (Rs/\$)</b>	<b>Duration</b>	
				<b>From</b>	<b>To</b>
	“Potential of Combined Therapy of Stem Cells, Growth Factor and Chemokine on Diabetes Mellitus” at Mirpur University of Science & Technology, Mirpur	HEC	0.5 Million	<b>Jan. 2013</b>	<b>Sep. 2013</b>
<b>Selected Professional Presentations</b>	<ul style="list-style-type: none"> <li>Presented paper entitled “Evaluation of antidiabetic activity of hydroalcoholic extracts of leaves of <i>Moringa oleifera</i> in drug induced diabetic rabbits: Zia-ul-Mehmood, Muhammad Tariq, Rehana Asghar” in 3<sup>rd</sup> Annual MIMIC Scientific Symposium, along with Symposium on Diabetes Mellitus held in Mohi-Ud-Din Islamic Medical College, Mirpur AJ&amp;K from February 26<sup>th</sup> to 28<sup>th</sup> 2014</li> <li>Presented State of the art lecture entitled “Stromal cell derived Factor-1 alpha protects stem cells derived insulin producing cells from glucotoxicity under high glucose conditions <i>in-vitro</i> and Ameliorates drug induced diabetes in rats: Muhammad Tariq, Imran Ali, Rehana Asghar” in 3<sup>rd</sup> Annual MIMIC Scientific Symposium, along with Symposium on Diabetes Mellitus held in Mohi-Ud-Din Islamic Medical College, Mirpur AJ&amp;K from February 26<sup>th</sup> to 28<sup>th</sup> 2014</li> </ul>				

	<ul style="list-style-type: none"> <li>• Presented paper entitled “Preparation and characterization of microparticles of Vitamin B12 (Mecobalamine) by chemical method: Asif Iqbal, Muhammad Tariq, Rehana Asghar” in 3<sup>rd</sup> Annual MIMIC Scientific Symposium, along with Symposium on Diabetes Mellitus held in Mohi-Ud-Din Islamic Medical College, Mirpur AJ&amp;K from February 26<sup>th</sup> to 28<sup>th</sup> 2014</li> <li>• Presented paper entitled “Antibiotic sensitivity profile of pathogens from urinary tract infection patients in DHQ hospital Mirpur AJK: Raja Zafar Ishaq, Muhammad Tariq, Rehana Asghar” in 3<sup>rd</sup> Annual MIMIC Scientific Symposium, along with Symposium on Diabetes Mellitus held in Mohi-Ud-Din Islamic Medical College, Mirpur AJ&amp;K from February 26<sup>th</sup> to 28<sup>th</sup> 2014</li> <li>• Presented paper entitled “Preparation and characterization of microparticles of Vitamin B12 (Mecobalamine) using ethyl cellulose-N50 polymer: Muhammad Tariq, Asif Iqbal, Rehana Asghar” in 1<sup>st</sup> international Conference on Applied Chemical, Biological and Aquatic Sciences held in The Government College University Faisalabad, Pakistan from February 18<sup>th</sup> to 20<sup>th</sup> 2014</li> <li>• Presented paper entitled “Antibiotic sensitivity profile of pathogens from urinary tract infection patients in DHQ hospital Mirpur AJK: Raja Zafar Ishaq, Muhammad Tariq, Rehana Asghar” in 1<sup>st</sup> International Conference on Applied Chemical, Biological and Aquatic Sciences in The Government College University Faisalabad, Pakistan from February 18<sup>th</sup> to 20<sup>th</sup> 2014</li> </ul>
<b>Workshops and Trainings</b>	<ul style="list-style-type: none"> <li>• Participated in 5<sup>th</sup> National Training Workshop on, “<b><i>Electron and Confocal Microscopy</i></b>” held at <i>National Institute for Biotechnology and Genetic Engineering (NIBGE)</i> in December, 2013.</li> <li>• Attended International Conference on, “<b><i>Latest Techniques for Conservation of Animal Genetic Resources in Pakistan</i></b>” held on September 14-15, 2011 at Institute of Biochemistry &amp; Biotechnology, University of Veterinary and Animal Sciences, Lahore.</li> <li>• Participated in International Symposium on, “<b><i>Biotechnology Applications in New Emerging Fields</i></b>” held on December 21-23, 2010 at Allama Iqbal Medical College, Lahore.</li> <li>• <b><i>Attended BIOFORUM</i></b> held at <i>National Center of Excellence in Molecular Biology</i>, Lahore in 2008.</li> <li>• Attended International Symposium on, “<b><i>The use of Stem Cells in Human Regenerative Medicine</i></b>” held at COMSTECH, Islamabad in January 2007.</li> </ul>