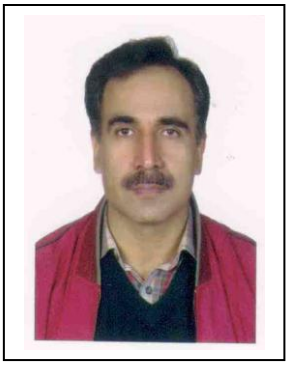

CURRICULUM VITAE

Shahid Mahmood Baig D.O.B. 09.10.1960

Field of Specialization: Human Molecular Genetics
Molecular Biology/Biochemistry

PERMANENT HOME ADDRESS: House No. B-38, Gulistan-e-Jinnah, Faizabad, Murree Road, Rawalpindi, Pakistan.

WORK ADDRESS: Human Molecular Genetics Laboratory, Health Biotechnology Division, National Institute for Biotechnology and Genetic Engineering (NIBGE), PO Box 577, Faisalabad, Pakistan. Tel:+92 41 2651475-9 Ext 241, +92 41 2551638 (Direct), Fax:+92 41 2651472, Cell +923009730304 Email: shahid_baig2002@yahoo.com, shahidbaig@nibge.org

EDUCATIONAL QUALIFICATION

Post Doctoral Studies: Oncogenomics Laboratory, Brain tumor research, Department of Pathology Duke University Medical Center, Duke University, Durham, NC, USA. (2012).

Post Doctoral Studies: Molecular Biology and Genetic Engineering Unit, Department of Biochemistry, College of Science, King Saud University, Riyadh, Kingdom of Saudi Arabia (2000-2003)

Ph.D. (Human Molecular Genetics, Molecular Biology/Biochemistry): Quaid-I-Azam University Islamabad, Pakistan/Bosphorus University, Istanbul, Turkey (1996).
Title: *Molecular basis of β-thalassemia in Turkey and its prenatal diagnosis by DNA analysis*.

M.Phil. (Physiology of Reproduction): Quaid-I-Azam University, Islamabad Pakistan (1986).
Title: *Studies on monkey gonadotropins and their response to LHRH*.

M. Sc. (Biology): Quaid-I-Azam University, Islamabad Pakistan (1984).

POSITIONS HELD

Head, Health Biotechnology Division, Group Leader and Principal Scientist: Human Molecular Genetics Laboratory, Health Biotechnology Division, National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad, Pakistan (2003-Present).

Post Doctoral Fellow: Molecular Biology and Genetic Engineering Unit, Department of Biochemistry, College of Science, King Saud University, Riyadh, Kingdom of Saudi Arabia (August 2000-April 2003).

Senior Scientist and Group Leader MPhil/PhD Faculty Member: Health Biotechnology Division, National Institute for Biotechnology and Genetic Engineering (NIBGE), Pakistan (1995-2003).

PhD Research Fellow and Teaching Assistant: Department of Molecular Biology and Genetics, Bosphorus University Istanbul, Turkey (1992-1995).

Scientific Officer: Clinical Biochemistry/Radioimmunoassay, Nuclear Medicine Oncology and Radiotherapy Institute (NORI), Islamabad, Pakistan (1987-1992).

Research Scholar: Clinical Biochemistry/ Radioimmunoassay, Nuclear Medicine Oncology and Radiotherapy Institute (NORI), Islamabad Pakistan (1986-1987).

Senior Teacher: Biology, Islamabad College for Boys, G-6/3, Islamabad Pakistan (1986).

Junior Research Assistant (JRA): Hormone Research Laboratory, Department of Biology, Quaid-i-Azam University, Islamabad, Pakistan (1985-1986).

Principal Investigator Funded Research Projects (National):

1. Molecular Genetics of Dyslexia in Pakistani families. Donor: Higher Education Commission of Pak, Rs. 3.98 Million (2010-2012).
2. Mutations in LDLR Gene. Donor: Pakistan Science Foundation, Rs. 1.06 Million (2007-2009).
3. HCV Genotypes in Pakistan. Donor: Pakistan Science Foundation, Rs. 0.5 Million (1998-2000).

Principal Investigator Funded Research Projects (International):

1. Local concerns, global genes: legal, ethical and scientific challenges in cross-national biobanking and translational exploitation. Donor: UCPH's 2016 Funds, Denmark (2013-2016)
2. Molecular basis of disturbed neurogenesis of primary microcephaly. Donor: CMMC, Cologne University, Germany, 66,500 € (2011-2013).
3. Cognitive Co-morbidity. Donor: Lundbeck Foundation, Denmark, 45,000 US$ (2011-2014)
4. Genetic diseases in Pakistan. Donor: Swedish Institutes, Sweden, 255,000 SEK (2009-2011)
5. Pak-Danish Genetic Research Program. Donor: Copenhagen University, Denmark. 45,000 US$ (2008-2011)
6. Collaborative Research Grant. Donor: Uppsala University, Sweden. 15,000 US$ (2007-2008)

Research Supervisor:

PhD Awarded 09 (07 as Supervisor and 02 as Co-Supervisor):

PhD Submitted (02): Marriam Bakhtiar: Genetics of learning disabilities (All three reports received), Muhammad Tariq: Molecular genetics of skin and skeletal disorders in Pakistani kindreds (One report received)

PhD in progress (08): MPhil supervised:

Degree Awarded (09):

B.S (Hons) (Co-supervised): 04 (2010-11).

OTHER ACADEMIC AND RESEACH ACTIVITIES

Referee-reviewer: Prenatal Diagnosis, Journal of Medicine and Medical Sciences, Journal of Pediatric and Genetics, Community Genetics, Prenatal Diagnosis, Thalassemia Reports, Pakistan Journal of Medical Sciences, International Journal of Pathology, Journal of Molecular Biology, Annals of PIMS, Molecular Biology Reports, New England Journal of Medicine, Clinical Genetics

Focal Person to review research grants applications in the area of Medical Biotechnology:
Higher Education Commission (HEC) of Pakistan (Feb. 2012 todate)

Member Board of Studies, (QAU): National Institute for Biotechnology and Genetic Engineering (2010-2013).

Member Technical Committee on Medical Sciences and Biotechnology: Pakistan Science Foundation (PSF), Islamabad (2010 to date).

Member Technical Board of Studies: Department of Biochemistry, University of Arid Agriculture, Rawalpindi (Feb. 2004 todate).

Member Technical Board of Studies: Department of Biotechnology, Mirpur University of Science and Technology (MUST), Mirpur, AJK (2010 todate).

Member Board of Studies: Institute of Molecular Biology and Biotechnology (IMBB), The University of Lahore.

Member Research Ethics Committee: Pakistan Medical Research Counsel, Punjab Medical College, Allied Hospital Faisalabad.

Member/Secretary Institutional Research Ethics Committee: National Institute for Biotechnology and Genetic Engineering (2010-2013)

Member Expert Panel on Health: Pakistan Counsel for Science and Technology, Ministry of Science and Technology, Islamabad (Jan-May 2012)

Visiting Scientist: Cologne Center for Genomics (CCG), Department of Human Genetics Cologne University, Germany, (2011 to date).

Visiting Scientist: PANUM Institute, WJC, Department of Cellular and Molecular Medicine, Copenhagen University, Copenhagen Denmark (2008 to date).

Visiting Scientist: Department of Immunology, Genetics and Pathology, Rudbeck Laboratory, Uppsala University, Uppsala, Sweden (2007 to date).
Visiting Faculty (Clinical Biochemistry): Department of Biochemistry, University of Arid Agriculture, Rawalpindi (2000-2004).
Approved PhD supervisor by HEC: For indigenous MPhil/PhD program by HEC in the field of Molecular Biology and Human Molecular Genetics (presently supervising 08 HEC PhD scholars).
External Examiner (M.Sc., M.Phil. and PhD): Arid University Rawalpindi, Agriculture University, Faisalabad; GC University Faisalabad, COMSATS Islamabad; Quaid-I-Azam University, Islamabad; Punjab University, Lahore; Baluchistan University of Information Technology, Management Sciences and Technology, Quetta; University of Karachi; Aga Khan University Karachi, National University of Science and Technology (NUST), Islamabad, FC College University Lahore, Punjwani Center for Molecular Medicine Karachi.
Member Board of Directors (Elected): Quaideen, Alumni of Quaid-i-Azam University (1986-90).
President (Elected): Quaideen, Alumni of Quaid-i-Azam University (1990-94).

Special International Invited Lectures

Baig SM. An overview of genetic diseases and their prevention in the inbred Pakistani population. May 30, 2013, Department of Cellular and Molecular Medicine, Wilhelm Johansen Centre, PANUM Institute, Copenhagen University, Copenhagen, Denmark.
Baig SM. State of genetic diseases in the consanguineous Pakistani population and disease prevention strategies. June 4, 2013, Glycomics Laboratory, Department of Cellular and Molecular Medicine, Wilhelm Johansen Centre, PANUM Institute, Copenhagen University, Copenhagen, Denmark.
Baig, S.M. "Gene mapping of genetic diseases in the inbred Pakistani families for carrier screening and prenatal diagnosis" Oct 23, 2012, at Nationwide Children's Hospital, Ohio State University, Columbus Ohio,USA.
Baig, S.M. State of the genetic disorders in Pakistan. Nov 22, 2011 at Laboratory of Genetic Skin Diseases, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan.
Baig, S.M. Molecular genetic analysis of monogenic disorders in the Pakistani population. 11th Feb. 2008, Department of Medical Genetics and Pathology, Rudbeck Laboratory, Uppsala University, Uppsala, Sweden.
Baig SM. Spectrum of β-thalassemia mutations and molecular analysis of various genetic disorders in the Pakistani families. 6th February, 2008, Department of Cellular and Molecular Medicine, Wilhelm Johansen Centre, PANUM Institute, Copenhagen University University, Kopenhagen, Denmark.
Baig, S.M. Spectrum of β-thalassemia mutations and molecular analysis of various genetic disorders in the Pakistani families. 27th May 2007, Department of Medical Genetics and Pathology, Rudbeck Laboratory, Uppsala University, Uppsala, Sweden.

SELECTED PUBLICATIONS (Total Impact Factor: 183.405, Citations 450)

1. Farooq, M., Nakai, H., Fujimoto, A., Fujikawa, H., Kjaer, K.W., **Baig, S.M**., Shimomura, Y. 2013. Characterization of a novel missense mutation in the prodomain of *GDF5*, which underlies brachydactyly type C and mild Grebe type chondrodysplasia in a large Pakistani family. Hum Genet, Jun 29, [Epub ahead of print]. Impact Factor: 4.633
2. Hussain, M.S., Bakhtiar, S.M. Noegel, Farooq, M., Anjum. I., Noegel, A.A., Nürnberg, P. Tommerup, N., Kjaer, K.W., **Baig, S.M**., Hansen, L. 2013. Genetic heterogeneity in Pakistani microcephaly families. Clin Genet. 83(5), 446-451.. Impact Factor: 3.94
3. Mansuy-Aubert, V., Zhou, Q.L., Xie, X., Gong, Z., Huang, J.Y., Khan, A.R., Aubert, G., Candelaria, K., Thomas, S., Shin, D.J., Booth, S., **Baig, S.M.,** Bilal, A., Hwang, D., Zhang, H., Lovell-Badge, R., Smith, S.R., Awan, F.R. and Jiang, Z.Y. 2013. Imbalance between Neutrophil Elastase and Its Inhibitor a1-Antitrypsin Alters Inflammation, Insulin Sensitivity and Energy Expenditure in Obesity. Cell Metabolism, 17:534-548. Impact Factor: 14.619

4. Hansen, L., Rehman, SU., Tawamie, H., Murakami, Y., Buchert, R., Schaffer, S., Muhammad, S., Nöthen, M.M., Maeda, Y., Wang, Y., Aigner, M., Reis, A., Kinoshita, T., Tommerup, N., **Baig, S.M**., Jamra, R.A. (2013). Hypomorphic mutations in the GPI-anchor remodeling gene *PGAP2* cause autosomal recessive intellectual disability with elevated alkaline phosphatase. AJHG, 92(4):575-583. Impact Factor: 11.02
5. Cui, C.Y., Klar, J., Frojmark, A.S., **Baig, S.M**., Dahl, N. 2013. Frizzled6 deficiency disrupts the differentiation process of nail development. J Invest Dermatol. Feb 25. doi: 10.1038/jid.2013.84. [Epub ahead of print]. Impact Factor: 6.139
6. Khan, T.N., Klar, J., Ali, Z., Khan, F., **Baig, S.M**. and Dahl N. 2013. Cenani-Lenz syndrome restricted to limb and kidney anomalies associated with a novel LRP4 missense mutation. Eur J Med Genet, May 7, doi:pil:S1769-7212(13)00091-8. 10.1016/ejmg.2013.04.07. [Epub ahead of print]. Impact Factor: 1.685
7. Iqbal, Z. Aleem, A. **Baig S.M**. et al. 2013. Sensitive detection of pre-existing BCR-ABL kinase domain mutations in CD34+ cells of newly diagnosed chronic-phase chronic myeloid leukaemia patients is associated with imatinib resistance: implications in the post imatinib era. PLoS One. 2013;8(2):e55717. doi:10.1371/journal.pone. Epub ahead of print Feb 8. Impact Factor: 3.370.
8. Sultan, N., **Baig, S.M**, Sheikh, M.A., Jamil, A., Rahman, S. 2013. Autosomal recessive Retinitis pigmentosa is associated with missense mutation in *CRB1* in a consanguineous Pakistani family. PJLSS (In Press, 201-PJLSS-13). Impact Factor: 0
9. Khan, T.N., Klar, J., Nawaz, S., Jameel, M., Tariq, M., Malik, N.A., **Baig, S.M**. and Dahl N. 2012. Novel missense mutation in the RSPO4 gene in congenital hyponychia and evidence for polymorphic initiation codon (p.M11). BMC Medical Genetics, Dec 13 doi:10.1186/147-2350-13-120. Impact Factor: 2.536
10. Tariq, M., Azhar, A., **Baig, S.M**., Dahl, N., Klar, J. 2012. A novel mutation in the Lipase H gene underlies autosomal recessive hypotrichosis and woolly hair. Scientific Reports, 2:730. Oct 12, doi: 10.1038/srep00730. Impact Factor: 2.92
11. Azhar, A., Tariq, M., **Baig, S.M.**, Dahl, N., Klar, J. 2012. A novel mutation in Lysophosphatidic Acid Receptor 6 gene in autosomal recessive hypotrichosis and evidence for a founder effect. Eur J Dermatol 22(4):464-466.Impact Factor: 2.526
12. **Baig, S.M.,** Sabih, D., Rahim, K., Azhar, A., Tariq, M., Hussain, M.S., Baig, UR., Qureshi, J.A., Baig, SA., Bakhtiar, S. M. 2012. β-Thalsssemia in Pakistan: a pilot program on prenatal diagnosis in Multan. J Pediatr Hematol Oncol 34(2):90-92. Impact Factor: 1.159
13. Nawaz, S., Tariq, M., Ahmad, I., Malik, N.A., **Baig, S.M**., Dahl, N., Klar, J. 2012. Nonbullous congenital erythrodeerma associated with homozygosity for a novel missense mutation in an ATP binding domain of ABCA12. Eur J Dermatol 22(2):178-181. Impact Factor: 2.526
14. Hussain, M.S., **Baig, S.M**., Sascha Neumann, S., Nürnberg, G., Farooq, M., Ahmad, I., Alef, T., Hennies, H.C., Technau, M., Altmüller, J., Frommolt, P., Thiele, H., Noegel, A.A., Nürnberg, P. 2012. A Truncating Mutation of *CEP135* is Associated with Primary Microcephaly and Disturbed Centrosomal Function. AJHG 90, 90(5):871-878. Impact Factor: 11.02.
15. **Baig, S.M.**, Alexandra Koschak, Andreas Lieb, Mathias Gebhart, Claudia Dafinger, Gudrun Nurnberg, , Amjad Ali, Ilyas Ahmad, Martina, J, Sinnegger-Brauns, Niels Brandt, Jutta Engel, Matteo E. Mangoni, Muhammad Farooq, Habib U. Khan, Peter Nurnberg, Jörg Striessnig, Hanno J. Bolz. 2011. $Ca_v1.3$ (*CACNA1D)*, loss of function causes a novel human channelopathy with bradycardia and congenital deafness. Nat Neurosc 14(1):77-84. Impact Factor: 15.531
16. Frojmark, A.S., Schuster, J., Entesarian, M., Sobol, M., Gabrikova, D., Nawaz, S, **Baig, S.M.,** Klar J., Dahl, N. 2011. Mutations in Frizzled 6 cause isolated autosomal recessive nail dysplasia. AJHG 88(6): 852-860. Impact Factor: 11.02
17. Rehman, U.S, **Baig, S.M.,** Eiberg, H., Ahmad, I, Malik, N.A., Tommerup, N., Hansen, L. 2011. Autozygosity mapping of a large consanguineous Pakistani family reveals a novel non-syndromic autosomal recessive mental retardation locus at 11p15-tel. Neurogenetics, 2011, 12(3):247-51. Impact Factor: 3.575

18. Lieb, A., ; Baig, S.M., Gebhart, M., Dafinger, C., Engel, J., Sinnegger-Brauns, M.J., Mangoni, M.E., Khan, H.U., Nurnberg, P., Bolz, H.J., Koschak, A., Striessnig, 2011. Biophysical Properties of a Human Disease-Causing Mutation in Ca(V)1.3 L-Type Calcium Channels. Biophysical Journal 100(3) S: 1: 570-570., Impact Factor: 3.853
19. Nawaz, S., Tariq, M., Aysha, A., Mahmood, R., Ahmad, I., **Baig, S.M.** 2011. Report of a recurrent mutation in ARS (component B) gene with severe Mal de Meleda in a large consanguineous Pakistani family. PJMS, 27(3): 686-689. Impact Fator: 0.166
20. Iqbal, Z., Iqbal, M., Akhtar, T., Naqvi, M.I., Tahir, A.H., Gill, T.J., Abbas, M.N., Jamil, A., Taj, A.S., Abd-Al-Qayyum, Ur-Rehman, N., Ferhan, M., Shah, I.H., Khalid, M., Qin, W.X., Khalid, A.M., Khan, M., Aleem, A., **Baig, S.M**. 2010. Presence of Prior-to-Treatment BCR-ABL Mutations In CD34+CD38-Stem Cells of Newly Diagnosed Chronic Phase CML Patients and Their Correlation with Imatinib Resistance: Implications of Cancer Pharmacogenomics and Pre-Therapeutic Genetic Testing In Personalized Treatment of BCR-ABL plus Leukemia. Blood, 116 (21): 937-938. Impact Factor: 9.898
21. Farooq, M., Troelsen, J.T., Boyd, M., Hansen, L., Eiberg, H., Hussain, M.S., Rehman, U.R., Azhar, A., Ali, A., Bakhtiar, SM., Tommerup, N., **Baig, SM.** Klaus, W.K. 2010. Preaxial polydactyly/triphalangeal thumb is associated with changed transcription factor binding affinity in a family with a novel point mutation in the long range cis-regulatory element ZRS. Eur J Hum Genet. 18:733-736. Impact Factor: 4.319
22. Farooq, M., **Baig, SM.,** Tommerup, N., Klaus, W.K. 2010. Craniosynostosis-microcephaly with chromosomal breakage and other abnormalities (MIM 218455) is caused by truncating MCPH1 mutation and is allelic to PCC and Primary Microcephaly type 1. Am J Med Genet Part A. 152A:495-497. Impact Factor: 2.309
23. Anjum, I., Eiberg, H., **Baig, S.M.,** Tommerup, N., Hansen, L. 2010. A mutation in the FOXE3 gene causes congenital primary aphakia in an autosomal recessive consanguineous Pakistani family. Mol Vis, 16:549-555. Impact Factor: 2.511
24. Rasool, R., Nawaz, S., Azhar, A., Wajid, M., **Baig, S.M.**, Klar, J., Dahl, N. 2010. Autosomal recessive pure hair and nail ectodermal dysplasia linked to chromosome 12p11.1-q14.3 without *KRTHB5* gene mutation. EJD 20(4):443-446. Impact Factor: 2.421
25. Ben, SM., Aifa, HM., Mansour, KM., **Baig, SM.,** et al. 2010. High frequecny of the p.R34X in the TMC1 gene associated with non-syndromic hearing loss is due to founder effects. GTMB 14(3):307-311. Impact Factor: 1.444
26. Koschak, A., **Baig, S. M.**, Gebhart, M., Dafinger, C., Nuernberg, G., Brandt, N., Engel, J., Ali, A., Ahmad, I., Sinnegger-Brauns, M. J., Mangoni, M. E., Farooq, M., Khan, H. U., Nuernberg, P., Bolz, H. J., Striessnig, J. 2010. Gating properties of a human disease-causing mutation in Ca(v)1.3 L-type calcium channels. Society for Neuroscience, Volume: 40. Impact Factor :0
27. **Baig, S.M**. 2009. State of the genetic disorders in the Pakistani population. Genet Epidemiol, 33(8): 819-819. Impact Factor: 3.44
28. Nawaz, S., Schuster, J. Wajid, M., Aslam., M. Tariq, M., Entesarian, M., Dahl, N. and **Baig, S.M.** 2009. *WNT10A* missense mutation causes a complete Odonto-onycho-dermal dysplasia (OODD). Eur J Hum Genet, 17(12):1600-1605. Impact Factor: 4.319
29. Farooq, M., **Baig, SM.** Aslam., M., Wajid, M., Hussain, M.S., Rasool, M., Qureshi, J.A., Hansen, L., Eiberg, H., Tommerup, N., Klaus, W.K. 2009. Compound heterozygosity in Pakistani MCPH families. Am J Med Genet Part A. 149A:926-930. Impact Factor: 2.505
30. Rahim, M.K., Sabih, D., **Baig, S.M**., Azhar, A., Bakhtiar, S.M. 2009. Prenatal diagnosis of β-thalassemia at MINAR Multan. Nisht Med J, 1 (2): 4-9. Impact Factor: 0, Citations: 0
31. Rasool, M., Schuster, J., Aslam, M., Tariq, M., Ahmad, I., Ali. A., Entesarian, M., Dahl, N. and **Baig, S.M.** 2008. A novel missense mutation in the EDA gene associated with X-linked recessive isolated hypodontia. J Hum Genet, 53(10):894-8. Impact Factor: 2.365

32. **Baig, S.M.,** Din, M.A., Hassan, H., Baig, J. M., Azhar, A., Aslam, M., Farooq, M., Hussain, M.S., Rasool, M., Anjum, I, Nawaz, S., Qureshi, J. A. Zaman, T. 2008. Prevention of β-thalassemia in a large Pakistani family through cascade testing. Community Genet,11:68-70. Impact Factor: 1.538
33. Iqbal, Z., Li-Juan, Z., **Baig, S. M**. 2008. First comprehensive study on pre-existing BCR-ABL KD mutations and subsequent imatinib resistance in CML patients. Value of pre-treatment genetic testing and implication inpatient-tailored therapy of leukemia. Annals of Oncology, 19:40-41. Impact Factor: 6.425
34. Iqbal, Z., **Baig, S. M**., Aziz, Z. 2008. Interferon prior to imatinib therapy eradicates pre-existing BCR-ABL ATP-binding domain mutations conferring natural imatinib resistance and leads to more sustained/durable molecular response in chorionic myeloid leukemia. Annals of Oncology, 19:41-41. Impact Factor: 6.425
35. **Baig, S.M.,** 2007. Molecular diagnosis of β-thalassemia by Multiplex ARMS-PCR : A cost effective method for the developing countries. Prenat Diagn, 27(26): 280-281.Impact Factor:2.603
36. **Baig, S.M.,** Azhar, A., Hassan, H., Baig, J.M., Aslam, M., Din, M.A, Qureshi, J.A. and Zaman, T. 2006b. Prenatal diagnosis of β-thalassemia in Southern Punjab, Pakistan. Prenat Diagn, 26:903-905. Impact Factor: 2.603
37. **Baig, S.M.,** Azhar, A., Hassan, H., Baig, J. M. Qureshi, J. A. *et al*. 2006. Spectrum of β-thalassemia mutations in various regions of Punjab and Islamabad, Pakistan: establishment of prenatal diagnosis. Haematologica (Hematol Hematol J), 91(3):13-15. Impact Factor: 6.424
38. Iqbal, Z., **Baig, S. M.** 2006. Optimization of simple PCR assay for detection of globin gene deletions in alpha thalassemia. Haematologica, 91(supplement 3):136. Impact Factor : 6.424
39. **Baig, S.M.,** Rabbi, F., Hameed, U., Azhar, A., Zaman, T, Qureshi, J.A. *et al*. 2005. Molecular characterization of mutations causing β-thalassemia in Faisalabad Pakistan, using the amplification refractory mutation system (ARMS-PCR). Ind J Hum Genet, 11(2):80-83. Impact Factor:0
40. Ahmad, N., **Baig, S.M.,** Shah, W.A. Khattak, K.F., Khan, B. and Qureshi, J.A. 2004. Detection of HCV genotypes using molecular and radio-isotopic methods. World Journal of Nuclear Medicine, 3(3): 219-224. Impact Factor: 0, Citations: 0
41. Tadmouri, G.O., Tuzmen, S., Ozcelik, H., Ozer, A., **Baig, S.M.**, Senga, E.B. and Basak, A.N. 1998. Molecular and population genetic analysis of beta-thalassemia in Turkey. Am. J. Hematol., 57(3):215-220. Impact Factor: 4.671
42. Tuzmen, S., Tadmouri, G.O., Ozer, A., **Baig, S.M**., Ozcelik, H., Basaran, S. and Basak, A.N. 1996. Prenatal diagnosis of beta-thalassemia and sickle cell anemia in Turkey. Prenat Diagn, 16(3): 252-258. Impact Factor: 2.603
43. Mahmood, A., Anwar, M., Ullah, N., **Baig, S.M**., and Wright, R.W. Jr. 1991. Pattern of sex steroids secretion and their relationship with embryo yield in Jersey cows superovulated with PMSG. Theriogenology, 35:513-520. Impact Factor: 1.963
44. Mahmood, S., Khurshid, S., Afzal, M.A., Naqvi, S.M.S., **Baig, S.M**. and Arslan, M. 1986. Changes in circulating levels of immunoreactive Follicle stimulating hormone, Luteinizing hormone and Testosterone during sexual development in the Rhesus monkey, *macaca mulatta*. Journal of Medical Primatology, 15:351-359. Impact Factor: 1.301
45. **Baig, S.M**., Anjum, S., Khan, S., Khanum, A., Qazi. M.H. and Haider, M.Z. 1992. Carcinoembryonic antigen (CEA) and beta human chorionic gonadotropin (β-hCG) as markers in breast cancer. Pakistan Journal of Zoology, 24(1): 71-76. Impact Factor: 0.33, Citations: 02
46. Khan, S., Anjum, S., **Baig, S.M**., Khanum, A., Haider, M.Z. and Qazi. M.H. 1991. Effect of anticancer chemotherapy on the circulating levels of Follicle stimulating hormone, Luteinizing hormone and Prolactin in postoperative premenopausal breast cancer patients. Pakistan Journal of Zoology, 23(4): 301-303. Impact Factor: 0.33
47. Mahmood, A., **Baig, S.M**., Khan, M.N, Malik, S.A. and Khanum, A. 1991. Production and characterization of antisera against steroids in rabbits. Pakistan Journal of Zoology, 23(2):277-283. Impact Factor: 0.33

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49. Khan, S., Anjum, S., **Baig, S.M**., Khanum, A., Haider. M.Z. and Qazi, M.H. 1991. Studies on the in *vitro and in vivo* release of the hormonal steroids bound to a polymer base. Pakistan Journal of Zoology, 23(3): 263-273. Impact Factor: 0.33
50. Ali, A., Khan, M.M.R., Charania, B.A., Bhojani, F.A. and **Baig, S.M**. 1992. Impact of long term supply of iodized salt to the endemic goiter area. Journal of Pakistan Medical Association, 42(6): 138-140, PMID 1369614 (HEC Recognized). Impact Factor: 0
51. Anjum, S., Khan, S., **Baig, S.M**., Khanum, A., Haider. M.Z. and Qazi, M.H. 1991. Effect of chemotherapy on circulating steroid hormone levels in postoperative premenopausal breast cancer patients. Journal of Pakistan Medical Association, 41:296-298, PMID 1663170. (HEC Recognized)
52. Ahmad, M.M., Todehdehghan, F. and **Baig, S.M**. 1989. Serum LH, FSH and Estradiol levels in women using injectable contraceptive (Norigest) over long periods of time. Pakistan Journal of Medical Research, 28: 191-193. (HEC Recognized). Impact Factor: 0
53. Ali, A., Motiurrehman., Iqbal, A., Jabbar, A., Baig, S.M., Mahmood, A. 1992. Thyroid-Hormone profile of some iodine deficient residents of village Rumli Sharif, District Islamabad. Proceedings of Pakistan Congress of Zoology. 12:405-409. Impact Factor: 0.33
54. Ullah,N., Wright,R.W., Mehmood, A., **Baig,S.M.** 1991. Endocrine profile in relation to ovarian response, recovery rate and quality of embryos in Nili Ravi Buffalos treated with FSH. Proceedings of Pakistan Congress of Zoology. 11:19-32. Impact Factor: 0.33
55. Ullah, N., Mahmood, A., Wright, R. W. Jr., and **Baig, S. M**. 1992. Endocrine profile in relation to ovarian response, recovery rate and quality of embryos in Nili-Ravi buffaloes treated with FSH. Buffalo Journal. 1:47-56. (International). Impact Factor: 0

Proceedings International (Selected)

1. Klar, J., Schuster, J., Mäbert, K., Khan, T., Malik, N.A., Tariq, M., **Baig, S.M**., and Dahl, N. Exome sequencing as a diagnostic tool identifies a novel mutation associated with congenital generalized lipodystrophy. European Human Genetics Conference, June 8-11, 2013. Paris France.
2. Raykova, D., Klar, J., Azhar, A., Khan, T., **Baig, S.M**., Dahl, N. *KRT74* mutation associated with autosomal recessive hair-nail ectodermal dysplasia. European Human Genetics Conference, June 8-11, 2013. Paris France.
3. J. Klar, M Sobol, K Mäbert, M. Tariq, M. Rasool, A. Ali, I. Ahmad, A Johansson, L Feuk, **S.M. Baig**, and N. Dahl Defective ion transport in sweat glands cause generalized isolated anhidrosis. American Society of Human Genetics, USA, 2012.
4. Gating properties of a human disease-causing mutation in Ca(v)1.3 L-type calcium channels. Author(s): Koschak, A.; **Baig, S. M.**; Gebhart, M.; Dafinger, C.; Nuernberg, G.; Brandt, N.; Engel, J.; Ali, A.; Ahmad, I.; Sinnegger-Brauns, M. J.; Mangoni, M. E.; Farooq, M.; Khan, H. U.; Nuernberg, P.; Bolz, H. J.; Striessnig, J. Society for Neuroscience Abstract Viewer and Itinerary Planner Volume: 40 Published: 2010
5. Iqbal Z, **Baig SM**, et al. Presence of Prior-to-Treatment BCR-ABL Mutations ICD34+CD38- Stem Cells of Newly Diagnosed Chronic Phase CML Patients. 52 Am Society of Hematology Ann Meeting Orlando, Florida, US. Dec 5-7, 2010.
6. Ahmad, I., Tariq, M., Ali, A., Bakhtiar, M., Azhar, A., **Baig, S.M.** Inherited alopecia and ectodermal dysplasia in Pakistani Kindreds. European Society of Human Genetics (ESHG) Conference, May 31 – June 3, 2008, Barcelona Spain. EJHG 16(S2):290.
7. Genetic analysis of autosomal recessive primary microcephaly in Pakistani kindreds. Hussain, M. S., **Baig, S. M.**, Farooq, M., Inayat, I. A., Kirst, E., Aslam, M., Wajid, M., Toilat, M. R., Qureshi, J. A., Nurnberg, P. European Society of Human Genetics (ESHG) Conference, May 31 – June 3, 2008, Barcelona Spain. EJHG 16(S2):328

8. Inayat, I.A., Azhar, A., Rabbi, F., Qureshi, J.A., **Baig, S.M.** Spectrum and regional specificity of β-thalassemia mutations in various regions of Punjab, Pakistan.Genomic Disorders 2007, 21-23 March, 2007, p. 67, Wellcome Trust Conference Center, Hinxton, UK.
9. Hussain, M.S., Farooq, M., Rasool, M., Inayat, I.A., Nawaz, S., Qureshi, J.A., **Baig, S.M.** Locus heterogeneity study of autosomal recessive primary microcephaly in Pakistani kindreds. Genomic Disorders 2007, 21-23 March, 2007, p. 77, Wellcome Trust Conference Center, Hinxton, UK.
10. **Baig, S. M.,** Zaman, T., Hameed, U., Rabbi, F., Bokhari, S. H., Baig, S., Hassan, K., Din, M. A., Azhar, A. and Qureshi, J. A. Molecular characterization of mutations causing β-thalassemia in Pakistan using amplification refractory mutation system (ARMS) and allele specific oligonucleotide (ASO) hybridization. Human Genome Variation Society (HGVS) Scientific and Annual General Meeting a Satellite Meeting of the American Society of Human Genetics Annual Meeting. 26-30 October 2004, Toronto, Canada.
11. Tadmouri, G.O, Tuzmen, S., **Baig, S. M**., Senga, E., Altay, C., Akar, N., Nisli, G., Yesilpak, A. and Basak, A.N. A molecular investigation of β-thalassemia in Turkey: Is there a region dependent specificity? 7th Annual meeting of the European Society of the Human Genetics (ESHG) and 7th annual Meeting of the Society of Human Genetics (GfH), Vol.2, p. 263, 1995, Germany.
12. Tadmouri, G.O, Tuzmen, S., **Baig, S. M**., Senga, E., Altay, C., Akar, N., Nisli, G., Yesilpak, A. and Basak, A.N. Prenatal diagnosis of β-thalassemia in Turkey: present status and perspectives. 7th Annual meeting of the European Society of the Human Genetics (ESHG) and 7th annual Meeting of the Society of Human Genetics (GfH), Vol.2, p. 167, 1995, Germany.
13. Alkan, S., Tuzmen, S., **Baig, S. M**., Tadmouri, G.O. and Basak, A.N. The ECL oligolabelling and detection system versus radioactive approach in dot-blot hybridization. 7th Annual meeting of the European Society of the Human Genetics (ESHG) and 7th annual Meeting of the Society of Human Genetics (GfH), Vol.2, p. 164, 1995, Germany.
14. Tuzmen, S., Tadmouri, G.O., Senga, E., **Baig, S. M**., Altay, C., Akar, N., Nisli, G., Yesilpak, A., Basaran, S., Aydinli, K. and Basak, A.N. Molecular pathology and prenatal diagnosis of β-thalassemia in Turkey. In: H. Bialy, S. Black, Davies, S., Hassler, J., Hodgson, D.L., Oxender, J., Tooze. and W.J. Whelan (Eds)., Miami Biotechnology European Symposium, Advances in Gene Technology: Molecular Biology and Human Genetic Diseases, pp. 64, UK, IRL Pres at Oxford University Press, 1994.

International Symposia/Conferences (Selected)

1. Tariq, M., Azhar, A., Klar, K., Ahmad, I., Bakhtiar, SM., **Baig, SM**., Dahl, N. Isolated autosomal recessive hypotrichosis in Pakistan caused by *P2RY5* and *LIPH* gene mutations. European Human Genetics Conference, Gothenburg, Sweden. June 12-15, 2010.
2. Rehman, S., Hansen, L., Bakhtiar, SM., Tariq, M., Ahmad, I., Tommerup, N., **Baig, SM**. Molecular genetics of autosomal recessive mental retardation (ARMR) in consanguineous Pakistani families. European Human Genetics Conference, Gothenburg, Sweden. June 12-15, 2010.
3. **Baig S.M.** State of Genetic disorders in Pakistan. 18th International Genetic Epidemiology Society (IGES) Conference at Oahu, Hawaii, USA, 18-20 October 2009.
4. Azhar, A., Klar, J., Nawaz, S., Tariq, M., Ali. A., Ahmad, I., Rasool, M., Dahl, N., **Baig, SM.** Molecular Genetic studies of inherited alopecia. 59th Annual meeting of American Society of Human Genetics (ASHG), Honolulu, Hawaii, USA Oct. 20-24, 2009.
5. **Baig, SM.,** Klar, J., Azhar, A., Tariq, M., Ali, A., Ahmad, I., Schuster, J., Dahl, N., Nawaz, S. A novel homozygous missense variation in HR gene caused Atrichia with Papular lesions. 59th Annual meeting of American Society of Human Genetics (ASHG), Honolulu, Hawaii, Oct. 20-24, 2009.
6. Nawaz, S., Klar, J., Azhar, A., Tariq, M., Ali, A., Ahmad, I., Qureshi, JA., Schuster, J., **Baig, S.M.** A novel missense ABCA12 mutation lead to nonbullous congenital icthyosiform erythroderma (NIBCIE). 59th Annual meeting of American Society of Human Genetics (ASHG), Honolulu, Hawaii, USA Oct. 20-24, 2009.

7. Farooq, M., Hansen, L., Eiberg, E., Troelsen, JT., Boyd, M., Aslam, M., Hussain, M.S., Tariq, M., Ali, A., Ahmad, I., Tommerup, N., Kjaer, K.W., **Baig, S.M.** A specific interaction between a novel variant in the cis-acting sonic hedgehog regulatory sequence (ZRS) and transcription factor and its association with preaxial polydactyly with triphalangeal thumb. 59th Annual meeting of American Society of Human Genetics (ASHG), Honolulu, Hawaii, USA Oct. 20-24, 2009.
8. Bakhtiar, S.M., Sabih, D., Ibrahim, K., Azhar, A., Tariq, M., Hussain, M.S., Baig, S.M. First trimester prenatal diagnosis of β-thalassemia in Pakistan. 59th Annual meeting of American Society of Human Genetics (ASHG), Honolulu, Hawaii, Oct. 20-24, 2009.
9. Frojmark, A., Entasarian, M., Nawaz, A., Schuster, J., Klar, M., Rasso, M., Tariq, M., Ahmad, I., **Baig, S.M.**, Dahl, N. Isolated autosomal recessive nail dysplasia with pachonycla and onycholysis in a consanguineous Pakistani family. A novel form of nail dysplasia that maps to chromosome 8. 58th Annual meeting of the American Society of Human Genetics (ASHG), Philadelphia Pennsylvania, Nov. 11-15, 2008.
10. Klar, J., Rasool, M., Tariq, M., Ali, A., Ahmad, I., **Baig, S.M**., Dahl, N. Isolated generalized congenital anhidrosis maps to chromosome 12p11-p12. 58th Annual meeting of the American Society of Human Genetics (ASHG), Philadelphia Pennsylvania, Nov. 11-15, 2008.
11. **Baig SM**, Bakhtiar, M. Controlling monogenic disorders through cascade testing, prenatal diagnosis and genetic counseling in a highly consanguineous population. 3rd international workshop on "Genetics, history and public understanding" Barcelona Spain (30-31 May 2008).
12. Farooq, M., **Baig, S.M**., Hansen, L., Hussian, M.S., Aslam, M., Wajid, M., RAsoo, M., Qureshi, J.A., Eiberg, H,. Tommerup, N., Kjaer, K.W. First report of compound heterozygous mutations identified in the ASPM gene in two Pakistani MCPH families. Genomic Disorders, 17-20 March, 2008, Wellcome Trust Conference Centre, Hinxton, UK.
13. Azhar**, A.,** Nawaz, S., Rasool, M. **Baig, S.M.** Molecular Genetic analysis of three autosomal recessive skin disorders in Pakistan: Ectodermal dysplasia, Alopecia and Nail dysplasia. International conference on Medical and Community Genetics, 15-17 February, 2008, Chandigarh, India.
14. Ahmad, I., Rehman, S., Tariq, M., Ali, A., Bakhtiar, M., Azhar, A., **Baig, S.M**. Inherited alopecia and ectodermal dysplasia in families from Southern Punjab and Northern Pakistan. International conference on Medical and Community Genetics, 15-17 February, 2008, Chandigarh, India.
15. Rehman, S., Anjum,I., Ahmad, I., Tariq, M., Ali, A., Qureshi, J.A. **Baig, S.M.** Molecular genetics of autosomal recessive primary microcephaly (MCPH) in the Pakistani families. International conference on Medical and Community Genetics, 15-17 February, 2008, Chandigarh, India.
16. Iqbal , Z., Li-Juan Z., **Baig S.M.,** Aziz, Z., Shah, I.H**.,** Khalid, M., Tanveer, A. First comprehensive study on pre-existing BCR-ABL KD mutations and subsequent Imatinib resistance in CML patients: Value of pre-treatment genetic testing and implication in patient tailored therapy of Leukemia. 6th Internatinasl symposium on targeted anti-cancer therapies (TAT), 20-22 March, 2008, Bethesda, USA.
17. Iqbal , Z., **Baig S.M.,** Aziz, Z., Shah, I.H**.,** Khalid, M., Iqbal, M., Tanveer, A. Interferon prior to imatinib therapy eradicates pre-existing BCR-ABL ATP-binding domain mutations First comprehensive study on pre-existing BCR-ABL KD mutations conferring natural imatinib resistance and leads to more sustained/durable molecular response in chronic myeloid leukemia. 6th International symposium on targeted anti-cancer therapies (TAT), 20-22 March, 2008, Bethesda, USA.
18. Ahmed, I., Tariq, M., Ali, A., Bakhtiar, M., Azhar, A., **Baig S.M.** Inherited alopecia and ectodermal dysplasia in Pakistani kindereds. Accepted for presentation in European Human Genetics Conference, May 31-June 3, 2008, CCIB, Barcelona, Spain.
19. Hussain, M.S., Farooq,M., Aslam, M., WAjid, M., Qureshi, J.A., **Baig, S.M**., Nurnberg, P. Genetic analysis of autosomal recessive microcephaly in Paksitani kindreds. Accepted for presentation in European Human Genetics Conference, May 31-June 3, 2008, CCIB, Barcelona, Spain.
20. Rehman, S., Tariq, M., Ahmad, I., Ali, A., **Baig, S.M.** Genetic analysis of autosomal recessive primary microcephaly (MCPH) in Pakistani families. ACGA-HKSMG international conference on Genetic and Genomic Medicine. 08-11 June, 2008, Hong Kong.

21. **Baig, S.M.,** Din, M.A., Hassan, H., Baig, J. M., Azhar, A., Aslam, M., Qureshi, J. A. Zaman, T. 2005. Inductive screening of β-thalassemia in a large consanguineous Pakistani family. Meeting of the American Society of Human Genetics Annual Meeting. 9-13 October 2006, New Orleans, Lousiana, USA, Abstract No. 2015/A.

Invited Lectures/Key Note Speaker (National/International)

1. **Baig, S.M.** Prevention of Genetic Diseases in Pakistani population. International conference on Biotechnology, National Institute for Biotechnology and Genetic Engineering (NIBGE) Faisalabad. April 22-26, 2013. (Opening Lecture).
2. **Baig, S.M.** Prevention of Genetic Diseases in Pakistani population. 33rd Pakistan Congress of Zoology (International) at Convention Center, Islamabad on April 2-4, 2013. (Opening Lecture).
3. **Baig, S.M.** Molecular Diagnosis of Genetic Diseases. Golden Jubilee Celebrations, Chemistry and Biochemistry, University of Agriculture Faisalabad. June 8 -14, 2011.
4. **Baig S.**M. Molecular Diagnosis of HCV and Discovery of antiviral agents. The Biology of Hepatitis C Virus. Forman Christian College, Lahore, Pakistan. May 21, 2011.
5. **Baig, S.**M. Variation in Human Genome. Application of SNPs in diagnosis of diseases. Dept. Biochemistry, PMAS University of Arid Agriculture, Rawalpindi. April 20-22, 2011.
6. **Baig S.**M. Molecular Diagnosis of Genetic Diseases. Frontiers in Molecular Biology and Biotechnology, OIC Standing Committee on Scientific and Technological Cooperation (COMSTECH), Islamabad. March 28-30, 2011.
7. **Baig, S. M.** Prevention of β-thalassemia through prenatal diagnosis in Pakistani population at NIBGE-MINAR. One day special seminar on "Antenatal diagnosis of thalassemia" at Multan Institute of Nuclear Medicine and Radiotherapy (MINAR). 11th August, 2010, Multan, Pakistan.
8. **Baig, S. M.** Single Nucleotide deletion in the PMS2 gene causing Glioblastoma in a Large Consanguineous Pakistani Family in Autosomal Recessive Pattern. March 27th, 2010, NORI, Islamabad.
9. **Baig, S. M.** Single Nucleotide deletion in the PMS2 gene causing Glioblastoma in a Large Consanguineous Pakistani Family in Autosomal Recessive Pattern. Sept., 4, 2009, NORI, Islamabad.
10. **Baig, S. M.** Molecular genetics and prenatal diagnosis of monogenic disorders in the Pakistani population. One day special seminar on molecular diagnostics by NIBGE held at Multan Institute of Nuclear Medicine and Radiotherapy (MINAR). 23rd April, 2008, Multan, Pakistan.
11. **Baig,S.M.** Use of nanomaterials in non-invasive prenatal diagnosis of genetic diseases. An invited seminar at International thematic workshop on the "Nanomedicine: The use of nanoparticles in medical diagnostics". 13th to 20th March 2008, Islamabad Pakistan.
12. **Baig, S.M.** Molecular diagnosis of genetic diseases. International workshop on "Techniques related to molecular biology and immunology". Dec. 18-23, 2006. Department of Biochemistry, University of Arid Agriculture, Rawalpindi, Pakistan.
13. **Baig, S. M.** Role of medicines in poverty alleviation. Workshop on emerging technologies next generation networks and good practices in science and technology for poverty alleviation. Kohat University of Science and Technology, May 19-21, 2006, Kohat, Pakistan.
14. **Baig, S. M.** Mutation detection systems for the diagnosis of human genetic disorders. Seminar on use of therapeutic agents and diagnostic kits, 14-16th Feb. 2005. Sponsored by National Commission on Biotechnology (NCB), organized by Department of Biochemistry, University of Arid Agriculture, Rawalpindi.
15. **Baig, S. M.** Advances in the molecular diagnosis of HCV. 21st Annual congress of Pakistan's Society of Gastroenterology and GI Endoscopy. March 25-27, 2005, Peshawar, Pakistan.

National/International Symposia/Conferences (Selected)

1. Khan, N.S., Tipu, I., Siddiqi, S., Begum, B., Rizvi, K., **Baig, SM**., Khanum, A. PCR based screening of mutations in nf1 gene in Pakistani population. International symposium on Biotechnology, Institute of Biotechnology and Genetic Engineering, University of Sindh, Nov. 2009, Jamshoro, Pakistan.
2. Bakhtiar, M., Azhar, A., Tariq, M., Ali, A., **Baig, S.M**. Establishemnt of first trimester prenatal diagnosis through chorionic villus sampling. Pakistan Society of Haematology, 11th Annual Haematology Conference, Feb 14-15th 2009, Peshawar, Pakistan.
3. Farooq, M., Kjaer, K.W., Tommerup, N., **Baig, S.M**. 9th PSBMB conference 17-20 Dec. 2008. Molecular Analysis of Autosomal Dominant Limb Disorders and Identification of Novel Mutations in *GLI3* Gene. Department of Biochemistry, University of Arid Agriculture, Rawalpindi, Pakistan.
4. **Baig, S.M**., Bakhtiar, M. 9th PSBMB conference 17-20 Dec. 2008. Controlling Monogenic Disorders through Cascade Testing, Prenatal Diagnosis and Genetic Counseling in a Highly Consanguineous Population. Department of Biochemistry, University of Arid Agriculture, Rawalpindi, Pakistan.
5. Nawaz, S., Dahl, N., **Baig S.M**. 9th PSBMB conference 17-20 Dec. 2008. A Novel Homozygous Missense ABCA12 Mutation Leads To NBCIE. Department of Biochemistry, University of Arid Agriculture, Rawalpindi, Pakistan.
6. Rasool. M., Schuster, J., Aslam, M., Tariq, M., Ahmad,I., Ali, A., Entesarian, M., Dahl, N., Baig, S.M. 9th PSBMB conference 17-20 Dec. 2008. A Novel Missense Mutation (M364T) in the Ectodysplasin A Associated with X-Linked Recessive Isolated Hypodontia. Department of Biochemistry, University of Arid Agriculture, Rawalpindi, Pakistan.
7. **Baig, S.M**., Nawaz, S., Azhar, A., Tariq, M., Bakhtiar, M., Ali, A., Rasool, M. Molecular genetic analysis of inherited skin disorders in consanguineous Pakistani families. 2nd National Conference on Health Biotechnology, 27-28 May, 2008. National Commission on Biotechnology, Islamabad, Pakistan.
8. Azhar, A., Nawaz, S., Rasool, M., **Baig S.M.** Molecular genetic analysis of some skin disorders in Pakistani populace. Nov. 4-8, 2007, 4th International Symposium and 1st Pak-China-Iran International Conference on Biotechnology, Bioengineering and Biophysical Chemistry, Institute of Biotechnology and Genetic Engineering, University of Sindh, Jamshoro, Pakistan.
9. Farooq, M., **Baig, S. M.,** et al**.** Genetic analysis of autosomal recessive primary microcephaly (MCPH) families in Southern Punjab population. National Symposium on 'Biotechnology for economic prosperity' July 24-26, 2006, Nathiagali, Pakistan.
10. **Baig, S.M.,** Din, M.A., Hassan, H., Baig, J. M., Azhar, A., Aslam, M., Qureshi, J. A. Zaman, T.A distinct distribution pattern of β-thalassemia mutations in the D.G. Khan area of Pakistan. National Symposium on Biochemistry, April 2005. Karachi University, Karachi. Pakistan.
11. **Baig, S. M.** et al. Spectrum of β-thalassemia mutations in the patients attending Children Hospital Pakistan Institute of Medical Sciences (PIMS) Islamabad for blood transfusion. 29-31 March, 2005. Pakistan Institute of Medical Sciences (PIMS), Children Hospital Islamabad.
12. **Baig, S. M.,** Saleem, Y., Ahmad, N. and Qureshi, J. A. Study of Hepatitis C Virus Genotypes Prevalent in Pakistan. First National Conference on Health Biotechnology, 27-28 Jan, 2005, Lahore, Pakistan.
13. **Baig, S. M.,** Zaman, T., Hameed, U., Rabbi, F., Bokhari, H., Baig, S.M, Hassan, K., Amin-Ud-Din, M., Azhar, A. and Qureshi, J. A. Molecular characterization and regional specificity of mutations causing β-thalassemia in the Pakistani population. 4th International Science Conference, 6-9 October, 2004. The University of Azad Jammu & Kashmir, Muzaffarabad, AJK.
14. Zaman, T., Hameed, U., Rabbi, F., Bokhari, H., Azhar, A., Qureshi, J.A. & **Baig, S. M.** Spectrum of mutations causing β-thalassemia in Faisalabad Pakistan. 4th International Science Conference, 6-9 October, 2004. The University of Azad Jammu & Kashmir, Muzaffarabad, AJK.
15. Participated in IAEA-PAEC-HEC Regional Training Course on 13C Urea Breath Test and Conference on Helicobacter Pylori. 26-30 April, 2004, Islamabad, Pakistan.

16. **Baig, S.M.,** Hameed, U., Zaman, T., Rabbi, F., Bokhari, H., Baig, S., Hassan, K. and Qureshi, J.A. Amplification refractory mutation system (ARMS) and allele specific oligonucleotide (ASO) hybridization for the detection of mutations causing β-thalassemia in Pakistan. 17th International biennial conference of Pakistan Paediatric Association, 19th –22nd February 2004, Lahore Pakistan.
17. Khalid, S., Shahzad, I., **Baig, S.M.,** Ali, S., Qureshi, A.A. and Khanum, A. Cloning of Somatotropin gene from indigenous buffalo breed: Neeli Ravi. 2nd International symposium on Biotechnology, Institute of Biotechnology and Genetic Engineering, University of Sindh, January 19-21, 2004, Jamshoro, Pakistan.