Dr. Muhammad Naeem

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Country
Pakistan

Keywords
Whole Exome Sequencing, Mutation, Mendelian Diseases

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Biography

Dr. Muhammad Naeem is Tenured Associate Professor and Chairperson of the Department of Biotechnology at Quaid-i-Azam University (QAU) Islamabad. He graduated from Biological Sciences Department of the Quaid-i-Azam University Islamabad in the year 1998. He then moved on to work for the King Edward Medical University for duration of four years (1998-2002) as a laboratory scientist. His doctoral degree was completed in the year 2006 from the Department of Biochemistry at QAU. His previous work experience includes a Research Fellow position at Children's Hospital Lahore (2005-2006), as an Assistant Professor at NUST College of Medical Sciences (2006-2007). He joined QAU Department of Biotechnology in 2007 as Assistant Professor. His research of molecular characterization of Mendelian disorders prevalent in Pakistani population has touched several inherited disorders affecting human along with report of first gene identification for isolated hair-nail dysplasia (Naeem et al. 2005, Journal of Medical Genetics).

Under his supervision two HEC funded research projects related to Wilson's disease and sex development disorders have successfully been completed and another HEC funded project related to idiopathic jaundice is effectively being run.

He has 30 publications in international peer reviewed journals and a cumulative impact factor of more than 80. He serves as the reviewer for several international peer reviewed journals. He has supervised four PhD students and 55 MPhil students so far (degrees awarded) while 10 PhD and 08 MPhil research students are currently working with him. He has taught a number of courses related to molecular biology techniques, biology, medical genetics, clinical chemistry and recombinant DNA technology and presented his research work in international conferences as well.

As an appreciation of his research work he has received Young Scientist Award (2005; Pakistan Academy of Medical Sciences) and Outstanding Research Award (2009; Higher Education Commission of Pakistan).

Education (3)

Quaid-i-Azam University: Islamabad, Pakistan
2002-02 to 2006-02 | Ph.D. Biochemistry & Molecular Biology (Department of Biochemistry)
Source: Dr. Muhammad Naeem

Quaid-i-Azam University: Islamabad, Pakistan
1996-02 to 1998-01 | M.Sc. Biology (Department of Biology)
Source: Dr. Muhammad Naeem

Federal Post Graduate Medical Institute: Lahore, Pakistan
1993 to 1995 | B.Sc, Medical Laboratory Technology (Institute of Health Sciences)
Source: Dr. Muhammad Naeem

Employment (4)

Quaid-i-Azam University Faculty of Biological Sciences: Islamabad, Pakistan
2016-10-31 to present | Chairman (Department of Biotechnology)
Source: Dr. Muhammad Naeem

Quaid-i-Azam University: Islamabad, Pakistan
2014-06-14 to present | Associate Professor (Department of Biotechnology)
Source: Dr. Muhammad Naeem

Quaid-i-Azam University Faculty of Biological Sciences: Islamabad, Pakistan
2007-11-01 to 2014-06-13 | Assistant Professor (Department of Biotechnology)
Source: Dr. Muhammad Naeem

Army Medical College: Rawalpindi, Punjab, Pakistan
2006-12-26 to 2007-10-31 | Assistant Professor (Biochemistry and Molecular Biology)
Source: Dr. Muhammad Naeem

Funding (3)

Investigation of Idiopathic Jaundice in Pakistani Neonates
Higher Education Commission, Pakistan (Islamabad, Pakistan)
2015-07 to 2017-06 | Grant
Source: Dr. Muhammad Naeem

A Molecular and Genetic Study of Disorders of Sex Development in Children from Pakistan
Higher Education Commission, Pakistan (Islamabad, Pakistan)
2010-07 to 2011-06 | Grant
Source: Dr. Muhammad Naeem

Mutational Analysis of Wilson Disease Gene in Pakistani Patients and Genotype-Phenotype Correlation
Higher Education Commission of Pakistan (Islamabad, Pakistan)
2008 to 2010 | Grant
Source: Dr. Muhammad Naeem

Works (31 of 31)

Whole exome sequencing identified two novel homozygous missense variants in the same codon of CLCN7 underlying autosomal recessive infantile malignant osteopetrosis in a Pakistani family
Molecular Biology Reports
2018-08-20 | journal-article
DOI: 10.1007/s11033-018-4194-8
Source: Crossref

Novel TGM1 mutation in a Pakistani family affected with severe lamellar ichthyosis
Pediatrics and Neonatology
2018 | journal-article
DOI: 10.1016/j.pedneo.2018.01.003
EID: 2-s2.0-85040998328
Source: Scopus - Elsevier

Whole-exome sequencing identified a novel frameshift mutation in SDR9C7 underlying autosomal recessive congenital ichthyosis in a Pakistani family
British Journal of Dermatology
2017-11-06 | journal-article
DOI: 10.1111/bjd.15535
Source: Crossref

Whole exome sequencing identified a novel missense mutation in EPM2A underlying Lafora disease in a Pakistani family
Seizure
2017 | journal-article
DOI: 10.1016/j.seizure.2017.08.012
EID: 2-s2.0-85029472139
Source: Scopus - Elsevier

A novel homozygous PTH1R variant identified through whole-exome sequencing further expands the clinical spectrum of primary failure of tooth eruption in a consanguineous Saudi family
Archives of Oral Biology
2016 | journal-article
DOI: 10.1016/j.archoralbio.2016.03.012
EID: 2-s2.0-84962297437
Source: Scopus - Elsevier

A novel missense mutation in the CLPP gene causing perrault syndrome type 3 in a turkish family
JCRPE Journal of Clinical Research in Pediatric Endocrinology
2016 | journal-article
DOI: 10.4274/jcrpe.2717
EID: 2-s2.0-85001038132
Source: Scopus - Elsevier

Adoor-to-door survey to estimate the prevalence of Parkinsonism in Pakistan
Neuropsychiatric Disease and Treatment
2016 | journal-article
DOI: 10.2147/NDT.S86329
EID: 2-s2.0-84975318796
Source: Scopus - Elsevier

Whole exome analysis reveals a novel missense PNPLA1 variant that causes autosomal recessive congenital ichthyosis in a Pakistani family
Journal of Dermatological Science
2016 | journal-article
DOI: 10.1016/j.jdermsci.2015.12.012
EID: 2-s2.0-84959507930
Source: Scopus - Elsevier

'Human bocavirus in Pakistani children with gastroenteritis'
Journal of Medical Virology
2015 | journal-article
DOI: 10.1002/jmv.24090
EID: 2-s2.0-84922852865
Source: Scopus - Elsevier

Viral etiologies of acute dehydrating gastroenteritis in pakistani children: Confounding role of parechoviruses
Viruses
2015 | journal-article
DOI: 10.3390/v7010378
EID: 2-s2.0-84921774577
Source: Scopus - Elsevier

Whole-exome sequencing identifies a novel LRAT mutation underlying retinitis punctata albescens in a consanguineous Pakistani family
Genes and Genomics
2015 | journal-article
DOI: 10.1007/s13258-015-0311-4
EID: 2-s2.0-84942983824
Source: Scopus - Elsevier

Molecular study of X-linked ichthyosis: Report of a novel 2-bp insertion mutation in the STS and a very rare case of homozygous female patient
Journal of Dermatological Science
2014-05 | journal-article
DOI: 10.1016/j.jdermsci.2013.12.012
Source: Crossref

A novel CHSY1 gene mutation underlies Temtamy preaxial brachydactyly syndrome in a Pakistani family
European Journal of Medical Genetics
2014-01 | journal-article
DOI: 10.1016/j.ejmg.2013.11.001
Source: Crossref

Serotype Diversity of Astroviruses in Rawalpindi, Pakistan during 2009–2010
2013-04-13 | journal-article
DOI: doi:10.1371/journal.pone.0061667
Source: Dr. Muhammad Naeem

Autosomal recessive isolated familial acanthosis nigricans in a Pakistani family due to a homozygous mutation in the insulin receptor gene
British Journal of Dermatology
2013 | journal-article
DOI: 10.1111/bjd.12293
EID: 2-s2.0-84881565872
Source: Scopus - Elsevier

Deletion mutation in BSCL2 gene underlies congenital generalized lipodystrophy in a Pakistani family
2013 | journal-article
DOI: 10.1186/1746-1596-8-78
Source: Dr. Muhammad Naeem

Epidemiology and Genetic Diversity of Rotavirus Strains in Children with Acute Gastroenteritis in Lahore, Pakistan
PLoS ONE
2013 | journal-article
DOI: 10.1371/journal.pone.0067998
EID: 2-s2.0-84879346430
Source: Scopus - Elsevier

Human parechovirus genotypes -10, -13 and -15 in Pakistani children with acute dehydrating gastroenteritis
PLoS ONE
2013 | journal-article
DOI: 10.1371/journal.pone.0078377
EID: 2-s2.0-84893181637
Source: Scopus - Elsevier

Identification of novel mutation in the HR gene responsible for atrichia with papular lesions in a Pakistani family
Journal of Dermatology
2013 | journal-article
DOI: 10.1111/1346-8138.12266
EID: 2-s2.0-84886952757
Source: Scopus - Elsevier

UGT1A1 gene mutations in Pakistani children suffering from inherited nonhemolytic unconjugated hyperbilirubinemias
Annals of Human Genetics
2013 | journal-article
DOI: 10.1111/ahg.12039
EID: 2-s2.0-84893016030
Source: Scopus - Elsevier

Identification of human parechovirus genotype, HPeV-12, in a paralytic child with diarrhea
Journal of Clinical Virology
2012 | journal-article
DOI: 10.1016/j.jcv.2012.08.008
EID: 2-s2.0-84867845486
Source: Scopus - Elsevier

Study of the effect of antiviral therapy on homocysteinemia in hepatitis C virus- infected patients
BMC Gastroenterology
2012 | journal-article
DOI: 10.1186/1471-230X-12-117
EID: 2-s2.0-84865331875
Source: Scopus - Elsevier

Congenital cutis laxa syndrome maps to a novel locus on chromosome 9q13-q21.32
Journal of Dermatological Science
2011 | journal-article
DOI: 10.1016/j.jdermsci.2010.11.014
EID: 2-s2.0-78951469371
Source: Scopus - Elsevier

Molecular analysis of lipoid proteinosis: Identification of a novel nonsense mutation in the ECM1 gene in a Pakistani family
Diagnostic Pathology
2011 | journal-article
DOI: 10.1186/1746-1596-6-69
EID: 2-s2.0-79960666221
Source: Scopus - Elsevier

Molecular genetic analysis of consanguineous Pakistani families with autosomal recessive hypohidrotic ectodermal dysplasia
Australasian Journal of Dermatology
2011 | journal-article
DOI: 10.1111/j.1440-0960.2010.00685.x
EID: 2-s2.0-79952056687
Source: Scopus - Elsevier

Mutation in the tight-junction gene claudin 19 (CLDN19) and familial hypomagnesemia, hypercalciuria, nephrocalcinosis (FHHNC) and severe ocular disease
American Journal of Nephrology
2011 | journal-article
DOI: 10.1159/000330854
EID: 2-s2.0-79960694749
Source: Scopus - Elsevier

A mutation in CTSK gene in an autosomal recessive pycnodysostosis family of Pakistani origin
BMC Medical Genetics
2009 | journal-article
DOI: 10.1186/1471-2350-10-76
EID: 2-s2.0-69849094415
Source: Scopus - Elsevier

Pure hair-nail ectodermal dysplasia maps to chromosome 12p11.1-q21.1 in a consanguineous Pakistani family

Clinical and Experimental Dermatology

2007 | journal-article

DOI: 10.1111/j.1365-2230.2007.02413.x

EID: 2-s2.0-34547822431

Source: Scopus - Elsevier

A mutation in the hair matrix and cuticle keratin KRTHB5 gene causes ectodermal dysplasia of hair and nail type

Journal of Medical Genetics

2006 | journal-article

DOI: 10.1136/jmg.2005.033381

EID: 2-s2.0-33645121546

Source: Scopus - Elsevier

Ectodermal dysplasia of hair and nail type: Mapping of a novel locus to chromosome 17p12-q21.2

British Journal of Dermatology

2006 | journal-article

DOI: 10.1111/j.1365-2133.2006.07509.x

EID: 2-s2.0-33750920309

Source: Scopus - Elsevier

Novel mutations in the EDAR gene in two Pakistani consanguineous families with autosomal recessive hypohidrotic ectodermal dysplasia

British Journal of Dermatology

2005 | journal-article

DOI: 10.1111/j.1365-2133.2005.06642.x

EID: 2-s2.0-22944475319

Source: Scopus - Elsevier