


Curriculum vitae

Title	(Dr.)	Name	Rubiya Dar					
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Institute/ University	University Kashmir	of Srinagar	College/ Directorate	Department	Centre of Research Development (CORD)	for		
Nationality	Indian		Date of Birth	25/10/1981	Country of Birth			India
Languages	English, Urdu, Kashmiri							
Highest Degree	Ph.D. (2016)		Year of Graduation	2003				
University	University Kashmir	of	Country	India				
Academic Title	Junior Scientist		CORD Others (Specify)					
								
Major field	Molecular Biology	Specializati on/ field	Biochemistry, Molecular Microbiology	Microbiology, biology,	Genetics, Environmental			
Current Research Interests:								
<p>The Research activity focuses on molecular biology, microbial aspects, biochemical aspects etc.</p>								

Academic Qualifications

Ph. D: **Biochemistry** from the Department of Biotechnology, Faculty of Biological Sciences, University of Kashmir, Srinagar in 2016.

Ph. D supervisor: **Prof khurshid Iqbal Andrabi**, Department of Biotechnology, University of Kashmir Srinagar-190006, India.

Thesis Title: Association analysis of leptin-melanocortin signaling pathway genes with diabetes and obesity in Kashmiri population.

M. Phil: Biochemistry. 2010.

Thesis title: MC4R gene Relevance in diabetic/obese patients in Kashmiri population.

Supervisor: **Prof khurshid Iqbal Andrabi**, Department of Biotechnology, University of Kashmir Srinagar-190006, India.

M.Sc: Biochemistry (2003-2005) from the Department of Biochemistry, University of Kashmir, Srinagar-190006.

M.Sc. Dissertation: Department of Biochemistry, University of Kashmir

Dissertation Title: Isolation, purification and Characterization of Lectins from *Phaseolus vulgaris*

Research publications: More than 20

Research experience: 14 years

Seminars and Conferences attended: More than 20

Laboratory experience: Worked as Senior Technical Assistant in the Centre of Research for Development, University of Kashmir from 02/10/2010 to 27/02/2021.

Working as Junior Scientist-T since 27/02/2021

Administrative experience

1. Assistant Editor for Journal of Research for development, CORD Kashmir University since 2011
2. Purchasing of Equipments, chemicals, glassware, plasticware for CORD KU since 2011

Area of Interest: Molecular biology, Biochemistry, Genetics, Microbiology

About my Ph D. thesis

The worldwide rise in prevalence of type 2 diabetes and obesity has led to an intense search for genetic factors influencing the susceptibility for these common disorders. Although environmental influences, such as high caloric fat and carbohydrate enriched diets and a sedentary lifestyle with markedly reduced physical activity, certainly accelerate disease development in those with genetic

predisposition, it is nonetheless of great clinical importance and indeed a difficult challenge, to explicate the genetic variants that increase the risk of diseases like type 2 diabetes and obesity. Even though much research has been conducted, the knowledge of the specific causes of common complex diseases at the genetic level is still somewhat at its infancy. More detailed insight into the genetic risk factors and the underlying molecular mechanisms involved in type 2 diabetes and related traits is expected to improve clinical investigations, advance the prevention of disease development, elucidate the diseases mechanisms and hopefully highlight new pathways relevant for therapeutic interventions.

The purity of genetic traits associated with a population like Kashmiri could serve as an ideal study group to establish any possible association of such single nucleotide polymorphisms (SNPs) with the disease. This population would minimize the influence of mixed risk/resistance alleles influencing the outcome of the study. Further the identification of the genotypes will not only provide insight into the molecular basis of diabetes and obesity, but will also help identify pathways that are involved in the pathogenesis of diabetes and obesity. In addition, this information may implicate other genes as possible diabetes/obesity disease gene candidates. Information derived from this effort will be useful for submissions to the ever growing SNP database and other researchers screening for diabetes/obesity candidate genes in this interval may wish to avoid repeat screening of those genes that have been excluded.

Publications

Rubiya Dar, Shabhat Rasool, Ab Hamid Zargar, Tariq R. Jan and Khurshid I. Andrabi. 2015. Polymorphic analysis of MC4R gene in ethnic Kashmiri population with type 2 diabetes. International Journal of Diabetes in Developing Countries. DOI:10.1007/s13410-015-0454-5.

Rubiya Dar, Shabhat Rasool, Ajaz Ahmad Waza, Gazalla Ayoub, Meenu Qureshi, Abdul Hamid Zargar, Iftikhar Bashir, Tariq Jan, Khurshid Iqbal Andrabi. 2019. Polymorphic Analysis of Leptin Promoter in Obese/diabetic Subjects in Kashmiri Population. Indian J Endocrinol Metab Jan-Feb;23(1):111-116. doi: 10.4103/ijem.IJEM_164_18.

Rubiya Dar, Shabhat Rasool, Ab Hamid Zargar, Tariq R. Jan and Khurshid I. Andrabi. 2015. Association of MC4R codon 42 polymorphism with obese/diabetic ethnic Kashmiri population. Asian J. Med. Biol. Res. 2015, 1 (2), 149-157; doi: 10.3329/ajmbr.v1i2.25604.

Rubiya Dar, Suhaib A. Bandh, Sana Shafi and Nowsheen Shameem. 2019. Bacterial diversity of the rock-water interface in freshwater ecosystem; In “Freshwater Microbiology: Perspectives of

Bacterial Dynamics in Lake Ecosystems". Edited by Suhaib A, Bandh Sana Shafi, Nowsheen Shameem. pp 73-94.

Shabhat Rasool, **Rubiya Dar**, Arif Akbar Bhat, Shiekh Gazalla Ayub, Muneeb U Rehman, Sabia Rashid, Tariq Jan, Khursheed Iqbal Andrabi. 2020. A novel G26A variation in 5' half of TGIF1 gene associates with high myopia in ethnic Kashmiri population from India Taiwan J Ophthalmol; 10:294-297.

Shiekh Gazalla Ayub, **Rubiya Dar**, Shabhat Rasool and Khurshid Iqbal Andrabi. 2018. Polymorphic Analysis of Connexin 43 in Early as well as Advanced Stages of Breast Cancer in Kashmiri Population. Journal of Advances in Biology & Biotechnology. 18(3): 1-6, ISSN: 2394-1081.

Shiekh Gazalla Ayub, Taha Ayub, Saquib Naveed Khan, **Rubiya Dar**, Khurshid Iqbal Andrabi. 2011. Reduced nitrate level in individuals with hypertension and diabetes. J Cardiovasc Dis Res 2(3): 172-176. doi: 10.4103/0975-3583.85264

Sana Shafi, Azra N Kamili, Manzoor A Shah, Suhaib A Bandh, **Rubiya Dar**. 2017. Dynamics of bacterial class Bacilli in the deepest valley lake of Kashmir-the Manasbal Lake. Microbial Pathogenesis. 104:78-83. doi: 10.1016/j.micpath.2017.01.018.

Rasool S, Ahmed I, **Dar R**, Ayub SG, Rashid S, Jan T, Ahmed T, Naikoo NA, Andrabi KI. 2013. Contribution of TGF β 1 codon 10 polymorphism to high myopia in an ethnic Kashmiri population from India. Biochem Genet. 51(3-4):323-33. doi: 10.1007/s10528-012-9565-6.

Humeera Nisa, Azra N. Kamili , Irshad A. Nawchoo and **Rubiya Dar**. 2018. Antioxidant Profiling of Fungal Endophytes Isolated from a Critically Endangered Endemic Medicinal Plant, *Artemisia amygdalina* Decne. of Kashmir Himalayas. Biological Forum – An International Journal 10(1): 11-22.

Nazish Nazir, Azra N. Kamili, M. Y. Zargar, Imran Khan, Durdana Shah, Sumira Tyub and **Rubiya Dar**. 2017. Studies on *Bacillus* sp, an efficient plant growth promoting rhizobacteria from *Taxus Wallichiana* Zucc. An endangered conifer of Kashmir Himalaya. International Journal of Current Microbiology and Applied Sciences ISSN: 2319-7706 Volume 6 Number 7 pp. xx-xx.

Baba uqab, Ruqeya Nazir, Bashir Ahmad Ganai, Praveen Rahi, Sabeehah Rehman, Saleem Farooq, **Rubiya Dar**, Javid A. Parray, Al-Bandari Fahad Al-Arjani Al-Arjani, Baby Tabassum, Elsayed Fathi A_Allah. 2020. MALDI-TOF-MS and 16S rRNA characterization of lead tolerant metallophile bacteria isolated from saffron soils of Kashmir for their sequestration potential, Saudi Journal of Biological Sciences. Volume 27, Issue 8, Pages 2047-2053.

Durdana Shah, Azra N. Kamili, Aijaz A. Wani, **Rubiya Dar**, Nazish Nazir, Sumira Tyub and Mohammad Yaseen Mir. 2019. EMS induced point mutations in 18s rRNA gene of hyoscyamus niger L. an important medicinal plant of Kashmir Himalaya Pak. J. Bot., 51(3): 949-955, doi: 10.30848/pjb2019-3(19).

Gowhar Hamid Dar, Rouf Ahmad Bhat, Azra N. Kamili, Mohammad Z. Chishti, Humaira Qadri, **Rubiya Dar** et al. Correlation Between Pollution Trends of Freshwater Bodies and Bacterial Disease of Fish Fauna; In Fresh Water Pollution Dynamics and Remediation. pp 51-67.

Suhaib A. Bandh, Sana Shafi, Nowsheen Shameem, **Rubiya Dar**, Azra N. Kamili and Bashir A. Ganai. 2019. Spatio-temporal patterns of bacterial diversity along environmental gradients and bacterial attachment to organic aggregates; In “Freshwater Microbiology: Perspectives of Bacterial Dynamics in Lake Ecosystems”, Edited by Suhaib A. Bandh, Sana Shafi, Nowsheen Shameem. Elsevier, pp 137-162.

Tanvirul Hassan Dar, Sajad Ahmad Dar, Shahid ul Islam, Zahid Ahmad Mangral, **Rubiya Dar**, Bhim pratap Singh, pradeep verma, shafiul haque. 2021. Lichens as a repository of bioactive compounds: an open window for green therapy against diverse cancers. Saminars in Cancer Biology.

Shabhat Rasool, **Rubiya Dar**, Mosin S Khan, Sheikh Gazalla Ayub, Sabia Rashid, Muneeb U Rehman, Tariq Jan, Menu A Qureshi, Khurshid I. Andrabi. 2021. MYP2 locus genes: Sequence variations, genetic association studies and haplotypic association in patients with High Myopia. Int. J. biochem Mol. Biol. 12(1):35-48.

Rubiya Dar, Uqab Baba, Shah Ishfaq, Saleem Farooq Rather, Raisa Zaffar, Hina Mushtaq. 2022. Intrusion of Biotechnology for Degradation of Organic Wastes: In “**Environmental Biotechnology**”, Edited By Rouf Ahmad Bhat, Moonisa Aslam Dervash, Khalid Rehman Hakeem, Khalid Zaffar Masoodi. **Taylor and Francis Group**: DOI: 10.1201/9781003277279-8. eBook ISBN9781003277279.

Hina Mushtaq, Dr-Shabir Ahmad Ganai, Arshid Jehangir, Bashir A Ganai **Rubiya Dar**. 2023. Molecular and functional characterization of protease from psychrotrophic Bacillus sp. HM49 in North-western Himalaya. **PLoS ONE** 18(3):e0283677 DOI: 10.1371/journal.pone.0283677.

Riasa Zaffar, Ruqeya Nazir, Mushtaq Rather, **Rubiya Dar**. 2024. Biofilm formation and EPS production enhances the bioremediation potential of Pseudomonas species: a novel study from eutrophic waters of Dal lake, Kashmir, India. **Archives of Microbiology**, 206(3) DOI: 10.1007/s00203-023-03817-0.

Tanvir-ul-Hassan Dar, ZA Mangral, SU Islam, L Tariq, **R Dar**, A Majeed, S Goel. **2024**. Genetic Variation and Population Structure of *Rhododendron anthopogon* Along an Altitudinal Gradient: A Case Study from Himalaya. **Plant Molecular Biology Reporter**, <https://doi.org/10.1007/s11105-024-01438-5>.

E-Content on following topics

1. Biodiversity at global, national and local level. 2013
2. Water pollution. 2013
3. Hotspots of biodiversity. 2014
4. Detecting macromolecules of genetics, model organisms for the genetic analysis, detection between phenotype and genotype. 2016
5. Most macromolecules are polymers, carbohydrates act as a fuel and building materials, lipids are group of hydrophobic molecules. 2016
6. Nutrition and health: Concept of balanced diet-nutritional requirement. 2017

Place: Srinagar

Dr. Rubiya Dar

Date: