

Approved-Ongoing Projects under NRPD During 2008

S#	Name of Principal Investigator	Title of the project	Approved Amount (PKR)
Biosciences			
1-	Dr. Asif Mir, Department of Biosciences, CIIT, Islamabad.	Genetic Mapping of Autosomal Recessive Non-Syndromic Mental Retardation Disorder in Pakistan.	5,058,000
2-	Dr. Asifa Ahmed, Department of Biosciences, CIIT, Islamabad,	Differential Proteomic Analysis of Human Ocular Fluids.	1,099,050
3-	Dr. Asifa Ahmed, Department of Biosciences, CIIT, Islamabad.	Identification and Molecular Cloning of Pollen Allergens	2,973,639
4-	Dr. Farah Mustafa, Department of Biosciences, CIIT, Islamabad.	Early Investigations into the Viral Etiology of Breast Cancer in the Pakistani Population.	5,283,390
5-	Dr. Ilham Shahmuradov, Dept. of Biosciences, CIIT, Islamabad.	Comparative Computer Analysis of Promoter Architecture and Expression Patterns of Plant Genes.	2,448,931
6-	Dr. Mahmood A. Kiayani, Dept. of Biosciences, CIIT, Islamabad.	Genetic Analysis of KISS- I and KAI-I Genes.	1,918,176
7-	Dr. Rani Faryal, Department of Biosciences, CIIT, Islamabad.	Studies on Transmission Mechanisms of Antibiotic Resistance from Poultry to Human Population.	1,977,336
8-	Dr. S. Habib A. Bokhari, Department of Biosciences, CIIT, Islamabad.	Development of an Integrated System Comprising of Engineered Bacteria Based Biosensors for the Detection of Bioavailable Toxic Metal from Environment.	1,603,440
9-	Dr. S. Habib Ali Bukhari, Department of Biosciences, CIIT, Islamabad,	Development of an Integrated Whole-cell Based Biosensors to Detect Bioavailable Organophosphates from Environment.	3,932,350
10-	Dr. Sarfarz Hussain Department of Bio-Sciences, CIIT, Islamabad	Exploring the Regulatory Roles of Micro RNs (RNAs) in Drought Stress Tolerance in Triticum Aestivum L.	2,425,264
11-	Dr. Shahid N. Chohan, Dept. of Biosciences, CIIT, Islamabad,	The Distribution of Huanglongbing (a Disease of Citrus Plants) and its Seasonal Variations in Pakistan.	4,195,367
12-	Prof. Dr. Raheel Qamar, Dept. of Biosciences, CIIT Islamabad.	The Molecular Basis of Familial High Blood Cholesterol in Select Families.	5,210,160
13-	Prof. Dr. Raheel Qamar, Dept. of Biosciences, CIIT, Islamabad,	Mapping the Genes Responsible for Autosomal Recessive Retinitis Pigmentosa.	5,964,450
Physics			
14.	Dr. Ahmed Shuja, Department of Physics, CIIT, Islamabad,	Formation and Characterization of Ultra-shallow Junctions For The Future Generations of CMOS Nano-Electronics	4,234,918
15.	Dr. Farida Tahir, Department of Physics, CIIT, Islamabad,	Phenomenological Status of R-parity Violating Super Symmetric Standard Model.	1,013,804
16.	Dr. M. Anis Ur Rehman, Department of Physics, CIIT, Islamabad.	Preparation and Thermophysical characterization of Nano Ferrites.	7,220,355

17.	Dr. Umair Manzoor, Department of Physics, CIIT, Islamabad,	Synthesis of $BaFe_{12}O_{19}$ Powder By Solid-State Reaction and its Magnetic Properties.	1,994,710
18.	Dr. Umair Manzoor, Department of Physics, CIIT, Islamabad.	Remediation and Waste Water Treatment Using Solar Energy and Semiconductor Oxide Nanostructures as Photocatalytic Smart Materials.	1,234,403
19.	Dr. Waqar A. Adil Syed, Department of Physics, CIIT, Islamabad.	Nanoscale Optical Characterization of Semiconductors by Cavity Ringdown Spectroscopy.	5,369,810
Meteorology			
20.	Dr. Abdul Ghaffar, Department of Meteorology, CIIT, Islamabad,	Vertebrate Evolution, Biogeographic Relationships and Paleoenvironments of the Siwaliks of Pakistan.	862,512
21.	Dr. Mohsin Jamil Butt, Department of Meteorology, CIIT, Islamabad,	Snow Estimation in Pakistan for the Assessment of water Resources using Remote Sensing Data.	1,422,000
Environmental Sciences			
22.	Dr. M. Maroof Shah, Department of Env. Sciences, CIIT, Abbottabad.	Saturation Mapping and Utility of Ph1 Gene Region for Wheat Improvement.	1,965,655
23.	Dr. Umar Farooq, Department of Environmental Sci., CIIT, Abbottabad.	Isolation, Structure Elucidation and Biological Activity of Some Medicinal Plants Belonging To The Family Lamiaceae and Compositae.	1,417,310
Chemical Engineering			
24.	Dr. Nasir Mahmood, Department of Chemical Engg, CIIT, Lahore.	Investigations on the Synthesis Characterization and Applications of Thermoplastic Elastomers.	1,948,680
Electrical Engineering			
25.	Dr. Nasrullah Khan, Department of Electrical Engg., CIIT, Islamabad.	Minimum Ignition Energy Study of Combustible Fuel Gases	9,477,735
Computer Engineering			
26.	Dr. Sajjad Mohsin, Department of Computer Engg, CIIT, Islamabad	High Performance Image Processing Using Genetic Algorithms on Auto-Load Balancing Symmetric Multi-Processing Platform.	609,009
Mathematics			
27.	Dr. Majid Hassan Khattak, Dept. of Mathematics, CIIT, Lahore,	Suggestion Appropriate Method for Forecasting Electricity Demand.	151,209