

List of On-going Projects under Reserch Support Programme

Sr. No.	Project No. and Title
1.	PSF/Res/P-GCU/Agr (500) Replacement of Fish Meal with <i>Pistia Stratiotes</i> and <i>Lemna Minor</i> in Feed of Carps for Sustainable Food Security
2.	PSF/Res/B-BAC/Agr (505) Mediation of R Genes Regarding Abiotic Stresses (Drought) in Tomato Crop through Molecular Techniques in Balochistan (MRDTC-MTB)
3.	PSF/Res/P-UMT/Agr (502) Whey Proteins as an Encapsulating Material for Stabilizing Polyphenols in Water-in-oil Emulsions
4.	PSF/Res/S-KU/Bio (676) Assemblage of Marine Polychaete Worms in Mangrove Forests along Coastal Areas of Sindh
5.	PSF/Res/AJK-PU/Bio (675) Development of a Recombinant Epsilon Toxoid Vaccine against Enterotoxemia
6.	PSF/Res/C-PMNH/Bio (681) Birds/Wildlife Aircrafts Strike Hazards and Prevention
7.	PSF/Res/KPK-AU/Bio (680) Development of Passive Immunotherapy and Chemotherapy against Enterotoxemia for Effective Prevention and Control in Small Ruminants
8.	PSF/Res/P-PU/Bio (677) Investigation on Identification of Phosphine Resistance Gene for Effective Control of Stored Grain Pest, <i>Trogoderma granarium</i>
9.	PSF/Res/S-KU/Bio (679) Molecular Identification of Xanthid Crabs Found Along Pakistan Coast
10.	PSF/Res/AJK-PU/Bio (682) Assessment of Diversity, Distribution and Community Structure of Native Vegetation of District Neelum, Azad Kashmir
11.	PSF/Res/S-KU/Bio (683) Culture of Marine Ornamental Organisms with Special Emphasis on soft Corals for the Promotion of Marine Aquarium Trade and Technology Transfer
12.	PSF/Res/S-BU/Bio (684) Development of Cage Aquaculture Techniques, Assessment of Finfish Growth Performance and Technology Transfer to the Coastal Communities of Pakisatn Pakistan
13.	PSF/Res/S-ICCBS/Chem (610) Fragnomics-based Lead Optimization of Novel Immuno-suppressive Agents
14.	PSF/Res/C-CUI/Chem (607) Fabrication of Electrochemical Nanobiosensor
15.	PSF/Res/P-PCSIR/Chem (606) UF and MF Membranes Fabrication Technology Development for water Purification
16.	PSF/Res/S-ICCBS/Chem(598) Anti-obesity Effects of Medicinal Plants Extracts, Natural and Synthetic Compounds- A Strategy to Control the Epidemic of Metabolic Disorders

17.	PSF/Res/S-ICCBS/Chem (609) Investigating Interaction of Hydrophobic Gentamicin with Polymeric Nanomaterials to form a Drug Delivery System for <i>Brucellosis</i>
18.	PSF/Res/KPK-AWKU/Chem (611) Preparation of an Innovative and Effective Pozzolana to Reduce the Cost of Portland Cement and Emission of Greenhouse Gases
19.	PSF/Res/P-EU/Chem (612) Synthesis and Photovoltaic Applications of Novel Porphyrins and Metalloporphyrins
20.	PSF/Res/C-QAU/Chem (616) Ordered Mesoporous Silica MCM-41 Derivatives: Control Synthesis, Characterization, and Environmental Applications
21.	PSF/Res/P-CUI/Chem (600) Fabrication of Bio-mimic Photosensitive thin Film for Efficient Tissue Adhesion
22.	PSF/Res/S-ICCBS/Chem (601) Mass Spectrometric Analysis of Plant Pathogen for High-throughput and Sensitive Detection
23.	PSF/Res/B-BU/Chem (619) Portable Hybrid Solar Essential Oil Distillation Unit
24.	PSF/Res/P-CUI/Chem(604) Electrochemical Immunosensor for Highly Sensitive Detection of Ovarian Cancer Biomarker CA125
25.	PSF/Res/P-CUI/Chem (613) Development and Characterization of Lornoxicam Loaded Nano-Sponges for Topical Applications in Rheumatoid Arthritis
26.	PSF/Res/P-CUI/Chem (615) Setting up the disposable electrode printing work station and Fabrication of printable electrodes for efficient detection glucose
27.	PSF/Res/P-LUMS/Chem (617) Development of next generation microtubule targeting lead capable of overcoming multidrug resistance in cancer cells
28.	PSF/Res/P-GCU/Chem (623) Photosensitization of CAM and in Vivo Tumor Model in the Presence of NIR and Cytotoxic Drug
29.	PSF/Res/P-PU/Chem (625) Development of Luminescent Sb (III) and Bi (III) Complexes as Precursors for LEDS
30.	PSF/Res/KPK-PU/Earth (102) Vulnerability Assessment of Swat, Dir and Chitral with respect to Earthquakes of PAMIR-Hindu Kush Region
31.	PSF/Res/GB-UB/Earth (106) Study of Ice Tower Farming as Adaptive Strategy to conserve Water and its Socio-Economic Impacts Karakorum and Himalayan Belt of Baltistan, Pakistan
32.	PSF/Res/B-BUITEMS/Earth (100) An Integrated Modelling Approach used to Estimate the Impact of Climate Change and Human-induced Pressure on Stressed Groundwater Resources of Quetta Sub-Basin, Balochistan
33.	PSF/Res/KPK-UET/Earth (103) Development of Hydrometallurgical Process to Extract Copper and Associated Valuable Metals from Saindak Smelter Slag (PHASE-I)
34.	PSF/Res/KPK-PU/Earth (104) Integrated Mineralogical / Geochemical and Geophysical Techniques for Economic Evaluation of Placer Deposits from Tarbela /Kund along River Indus, Pakistan

35.	PSF/Res/KPK-NUST/Engg (188) Design, Development and Wind Tunnel Testing of a Low Aspect Ratio Wing to Study Wing Rock Phenomenon at Low Reynolds Number for Micro Aerial Vehicle Applications
36.	PSF/Res/S-MUET/Engg (187) Computational Investigations on Novel 2D Monatomic Hexagonal Boron Nitride (h-BN) and Transition Metal Nitride (TMN) Materials for Hydrogen Storage Applications
37.	PSF/Res/S-NED/Engg (195) Cost-Effective synthesis of Tetra ethylene Glycol Dimethyl Ether (TEGDME) for the Development of Highly Efficient Energy Storage Devices
38.	PSF/Res/P-PU/Biotech (239) Gene Discovery for Skeletal Dysplasia, Protein Localization and in-vitro Variant Pathogenic Analyses
39.	PSF/Res/P-NIBGE/Biotech (240) Elucidation of the Genetic Basis of Congenital Heart Defects in Pakistani Population
40.	PSF/Res/C-QU/Biotech (241) Generation of Zebrafish Models for BCR-ABL-Induced Leukemogenesis and Development of fast and robust real-time assay for its diagnosis and mutation detection based to Pakistani population
41.	PSF/Res/P-PCSIR/Biotech (242) Bio-process Development of Colors Pigments from Eco-friendly Microbes for Industrial Use
42.	PSF/Res/C-NILOP/Envr (150) Portable LIBS Sensor for On-Line Monitoring of Air Pollution
43.	PSF/Res/C-QU/Med (516) Identification of Molecular Determinants of Breast Cancer in Pakistan
44.	PSF/Res/P-AMC/Med (519) Genomic Landscape of Myelodysplastic Syndrome Patients in Pakistan
45.	PSF/Res/KPK-KUST/Med (523) Improvement and Upgradation of Pakistan Genetic Mutation Database (PGMD): a Step Towards Effectiveness
46.	PSF/Res/P-CUI/Med (520) Fabrication of RNA Nanoparticles for the Regression of MYCN/TERT Overexpressing Human Cancers
47.	PSF/Res/C-NUST/Med (521) Development of Biodegradable Sutures for Surgical Incisions and Wounds
48.	PSF/Res/KPK-KUST/Med (500) Preparation and Investigation of Cream Containing Antibiotics and Silver Nanoparticle for Treatment of Burns
49.	PSF/Res/P-UHS/Med (518) Calcification in the Herniated Lumbar Intervertebral Discs and its Relationship with Vertebral Endplate Changes on MRI
50.	PSF/Res/S-AKU/Med (524) Role of PGI2 analogue in curbing the disease pathogenesis of Type 2 Diabetes Mellitus
51.	PSF/Res/P-UHS/Med (510) Role of Indoleamine 2,3-dioxygenase (IDO) in Glucocorticoid-Resistant Asthma Patients and Effect of Thiazolyl and Thiazolidinonyl Tetrahydronaphthalene Derivatives through Modulation of IDO Activity on Acute Lung Remodelling
52.	PSF/Res/C-IBGE/Med (530) Exploring the genetics of Hereditary Hemochromatosis in Pakistani population.
53.	PSF/Res/C-PINSTECH/Med (531) Development of Novel Early Cancer Biosignatures in Breast and Stomach Cancers

54.	PSF/Res/C-NUMS/Med (533) Molecular lesions in aplastic anemia and their role in tailoring treatment in post-genomic era
55.	PSF/Res/P-UCP/Med (536) Harnessing the untapped therapeutic potential of phthalazine scaffold as small-molecule inhibitors of ectonucleotidases for the treatment of diabetic complications
56.	PSF/Res/S-AKU/Med (538) Use of herbal products as cure for treatment-resistant form of temporal lobe epilepsy
57.	PSF/Res/S-DUHS/Med (543) In vitro Modulation of Wnt signaling pathway and its associated molecules in Glioblastoma stem cells to combat therapeutic resistance and tumor relapse.
58.	PSF/Res/P-UVAS/Med (549) Formulation development and non-invasive in-vivo Evaluation of dermatological creams containing plant extracts in the treatment of various dermatological disorders
59.	PSF/Res/C-NUST/Med (550) Development of self-responsive glucose dependent insulin patch (Insupatch)
60.	PSF/Res/P-BZU/ Med (551) Pharmacological effects of Zn-oxide flavonoids nanoparticles on D-galactose induced aging in rats
61.	PSF/Res/C-NILOP/Med (532) Development of a fiber based light delivery system for diagnostic and treatment of gastrointestinal disorders
62.	PSF/Res/S-AKU/Med (534) Mobile health (m-Health) intervention to reduce the epigenetic signature of Advance Glycation end Products (AGE) as a risk biomarker in metabolically healthy and unhealthy obese adults
63.	PSF/Res/S-AKU/Med (537) Efficacy of vitamin D supplementation in infertile females with polycystic ovarian syndrome: a randomized open label trial
64.	PSF/Res/P-AAU/Med (546) Molecular Investigation of Inherited Neurodevelopmental Disorders in Pakistani families
65.	PSF/Res/S-ICCBS/Med (552) Discovery and X-Ray Structural Analysis of New Inhibitors of β -lactamase Enzyme - A Way Forward Towards the Global Battle against Bacterial Infections
66.	PSF/Res/S-ZU/Med (554) Comprehensive Mapping of Adaptive Immune Responses among Vaccinated and Non-vaccinated Covid-19 Infected Patients
67.	PSF/Res/KPK-UoS/Med (558) Elucidating the Genetic Architecture and Pathophysiology of Intellectual Disability in Consanguineous Pakistani Families
68.	PSF/Res/S-ICCBS/Med (555) Establishment of In-Ovo (In-vivo) Chick Embryo Chorioallantoic Membrane Cancer Models: An Approach to assess the Pre-Clinical Efficacy of Synthesized Pharmacophore as Anticancer and Anti-Metastatic Agents with Molecular Mechanism Studies
69.	PSF/Res/S-AKU/Med (535) Genetic investigations of inherited epilepsies in Pakistan: A step towards diagnostic gene panel
70.	PSF/Res/KPK-KUST/Med (557) Natural Therapeutic Approach towards Cystic Echinococcosis: A Neglected Emerging Zoonosis

71.	Project No. PSF/Res/KPK-CUI/Med (559) To Assess the Role of CYP11B2 Gene in the Management of Hypertension by Determining its Complex Genetic Architecture
72.	PSF/Res/P-FJWU/Maths (69) A Mathematical Interpretation of Chaotic Framework and its Application to Efficient Image Encryption
73.	PSF/Res/CP/P-LCWU/Phys (214) To investigate the various instabilities energy in quantum and classical plasmas
74.	PSF/Res/C-PIEAS/Phys (218) Controlled Synthesis of Drug Encapsulated Metallopolymer Nanocomposites Using Microfluidic Platform for Targeted Cancer Therapy