

PARB ONGOING PROJECTS 2021-22

Sr No	Project No.	Project Title
1.	20-413	Genome-Wide Association studies to Reveal the Genetic Architecture of Grain Yield under Heat Stress Conditions in Maize and DNA fingerprinting using SNPs for variety protection under Plant Breeders Rights Rules
2.	20-424	Introduction, adaptability evaluation and clonal selection for acclimatization of ginger in Punjab ”
3.	20-425	Development of hybrids and OPVs in Chillies for fresh green purpose and processing industry and establishment of ABR Hybrid Breeding System in Carrot
4.	20-426	Development of Watermelon hybrids having high yield and good quality traits ”
5.	20-427	Development of parthenocarpic hybrids in cucumber suitable for tunnel cultivation ”
6.	20-428	Development and commercialization of tomato hybrids and varieties”
7.	20-453	Enrichment of Maize & Millets Gene Pool through Exotic and indigenous sources to Develop New Hybrids/ OPVs in Changing Climate Scenario and Commercialization through Public Private Partnership
8.	20-457	Development of thermo-sensitive genetic male sterile (TGMS) lines for two-line rice hybrids ”
9.	20-157	Prospects of Induced Breeding of Catfish Species (<i>Pangasius Hypophthalmus</i> and <i>Wallago Attu</i>) for a Sustainable Supply of Seed to the Fish Farming Community of Pakistan’
10.	No. 18-562 B	Vaccine Production for Aeromonas Species Associated with Bacterial Diseases in Farmed Fish of Punjab Province, Pakistan’
11.	No. 18-313	Introduction, Acclimatization and Commercialization of Hard Wood Trees’
12.	18-554	Development and Transfer of Seed Production Technology of Vegetables (Tomato, Onion, Carrot and Okra) to Farmers/ Private Sector’
13.	18-632	Introduction of Argan Tree in Thal Desert to Improve Edible Oil Deficiency’
14.	20-29	Modern Seed Priming and Coating Technology to Enhance Seed and Crop Performance of Carrot, Radish and Turnip’
15.	20-36	Import of High Value Germplasm and Technologies of Elite Exotic Fruits, Vegetables and Medicinal Crops for Diversification and Sustainable Production in Punjab’
16.	20-70	Advancements in Saline Agriculture Technology Related Interventions for Food Security, Climate Change Resilience and its Dissemination to Stakeholders
17.	20-206	Development of Resilient Cotton through Bridging Conventional and Biotechnological Approaches’
18.	20-241	Development of New Mango Varieties with Superior Traits and Management Strategies against Vivipary and Under-Skin Browning in Mango CV. Sufaid Chaunsa’

19.	20-362	Exploration of Nutritional Profile with Shelf Life Extension and Value-Added Products of Jamun (<i>Syzygium Cumini</i> L.) and Falsa (<i>Grewia Asiatica</i>) Fruits'
20.	20-373	Developing Nutrient Enriched Manure Phosphate as Efficient Alternative to Chemical Phosphorus Fertilizers for Crop Production on Calcareous Soils
21.	20-399	Development of Lentil Genotypes having High Yield Potential and Resistance against Major Fungal Diseases'
22.	20-415	Molecular Characterization of Colletotrichum Falcatum: A Responsible Fungus of Deadly Sugarcane Red Rot Disease'
23.	20-419	Preparation and Commercialization of Coated Micronutrients and Control Release Fertilizers for Improving Yield and Quality of Crops'
24.	20-350	Development of Soybean in Pakistan to Reduce the Import Bills'
25.	20-452	Development of Aflatoxin Biocontrol to Minimize Aflatoxin Contamination in Maize Food Chain and its Commercialization'
26.	20-460	Development of Climate Resilient Varieties and Production Technologies in Chickpea, Lentil and Mungbean'
27.	20-553	Exploration, Domestication and Commercialization of Bees (Bumblebees & Honeybees)'
28.	20-421	Development and Commercialization of Industrial Quality Durum Wheat'
29.	No. 20-276	Enhanced Alfalfa Seed Production through Conservation of Native Insect Pollinators, Germplasm Development and Agronomic Management'
30.	20-324	Promotion of Floriculture Industry Through Diversification, Value Addition and Supply Chain Management'
31.	20-400	Development of Mungbean Genotypes having high yield potential and resistance against diseases alongwith Screening of Mungbean germplasm against Bugs/Spinola'
32.	20-42	Extraction and characterization of gelatin and pectin from various local sources'
33.	20-05	Use of biodegradable super-absorbent polymers in rain-fed agriculture for enhancing farm-scale profitability and crop water use efficiency
34.	18-550	Developing Agricultural Waste Management System to Produce Different Kinds of Organic Fertilizers for Sustainable Agriculture
35.	18-349	Preparation of Oil Based multivalent clostridial vaccine including Enterotoxaemia and Lamb Dysentery and its Evaluation for ruminants'
36.	18-209	Digital Technological Solution for Promotion of Precision Agriculture'
37.	20-182	Development of Rohi Chicken for Cholistan'
38.	20-170	Development, characterization and biological efficacy of encapsulated essential oil(s) nanoparticles to control tick infestation in cattle'
39.	20-488	Benchmarking Various Predictors of Passive Transfer of Immunity in Cholistani Camel Calves in Correlation to Post-natal Growth Performance'
40.	20-202	Development of next generation Foot-and-Mouth Disease (FMD) vaccine'
41.	18-476	Development of a Polyvalent Live Vaccine for Intestinal Coccidiosis in Poultry'
42.	20-78,	Development and comparative evaluation of cost effective oil

		adjuvanted Avian Influenza & New Castle Disease Combo Vaccine for poultry using Eolane and Ictyolane as oil adjuvants’
43.	20-380	Cost effective production of probiotics and their evaluation as feed additives to control enteric infections in poultry’
44.	20-116	Matching the fodder production with nutrient requirements of cattle and buffalo for improved milk production of Punjab Pakistan’
45.	20-85	‘Integrated Pest Management Approach to Mitigate the Fruit Flies Issue in Fruit and Vegetables through Biocontrol Agents
46.	629	“Development of cost effective oil based Hemorrhagic Septicemia vaccine using Eolane as adjuvant”
47.	645	Production of Foot & Mouth Disease (FMD) Recombinant Vaccine
48.	648	“Selection of Superior Beetal Goat/Bucks for Increasing Milk Productivity”
49.	656	“Improving efficiency of reproduction and fecundity in Sipli sheep through selection, appropriate breeding plan and exploitation of potential through improved feeding and management”
50.	660	Development of farmer friendly field-based molecular assay for the detection of anthelmintic resistant haemonchus contortus.
51.	674	Development and establishment of model poultry-cum-fish farming with nutrient recycling: An integrated approach.
52.	680	Development of Bacteriophage based remedy for controlling salmonella infection in chickens.
53.	689	“Saline and Brackish water aquaculture: Survival, Rearing and Growth performance of different age groups of fresh water fish species in saline and brackish water of Cholistan”
54.	734	“Improving yield, drought and salinity tolerance in wheat through GA-sensitive dwarfing gene system”
55.	752	Development of high oil content cotton lines/genotypes through conventional breeding strategies
56.	770	Development and Dissemination of Rice and Wheat Varieties Suitable for Irrigated Rice-Wheat Cropping System in the Climate Change Scenario
57.	802	Evaluation and management of indigenous date palm genetic resources for economic traits, fusarium wilt and red palm weevil.
58.	830	Breeding soybean for adaptation and high yield in current scenario of climate change in Punjab.
59.	883	Preservation and Propagation of Healthy Shisham (Dalbergia Sissoo) through Cloning of Resistant Germplasm against Dieback Disease
60.	900	Acceleration of maize breeding through inducer line mediated double haploid inbred line for the development of climate smart, high yielding maize hybrids
61.	904	Nutrition enhancement of crops, fruits, vegetables and their products under climate change scenario
62.	906	Crop diversification through Soybean and Sesame adaptability studies under changing climate
63.	909	Weeds management in chickpea through identification of post-emergent herbicides and development of herbicide tolerant genotypes
64.	910	Development of Weedicide tolerant lentil germplasm and identification of different weedicide for weed control in lentil

65.	913	Enhancement of mungbean and gram production in Thal through development of improved genotypes and technologies to reduce pulse import bill
66.	922	Development of cotton variety suitable for mechanical picking
67.	1056	Exploring therapeutic potential of Moringa and Aloe Vera through value added products
68.	1057	Development of innovative techniques for plant multiplication, canopy management and value addition of promising Ber (<i>Ziziphus mauritiana</i>) varieties
69.	1075	Genetic Improvement of maize lines for insect and glufosinate herbicide tolerance.
70.	1085	Evaluation and Introduction of some exotic kiwi cultivars
71.	1089	Development of Natural Fiber Reinforced Polymer Composites (NFPC) Using Local Agriculture and Forestry Based Residues for Construction, Furniture and Fruit Packaging Industries
72.	1093	Development of bioherbicides containing allelopathic bacteria for weeds suppression in direct-seeded rice