

قائمة بالمشاريع التي سيتم دعمها من الدفعة الثالثة عشر الي الدفعة السابعة عشر

Title	Project Number & Technology	م
Fabrication and Characterisation of Graphene reinforced Al ₂ O ₃	12-ADV2851-02	1
Development and Optimization of the Long Afterglow Properties of PP/Strontium Aluminate Composites	13-ADV1044-02	2
Aluminum to Titanium joining by spark plasma sintering technology	13-ADV1178-02	3
Design of Tunable Broadband Conjugated-Polymer Laser	13-ADV1205-02	4
Development of inexpensive and excellent biocompatible smart materials based on ionic polymer-metal composites using non-perfluorinated polymers for biomimetic applications	13-ADV1432-02	5
Development of Ultra-high performance MgB ₂ superconducting wires through cost-effective, scalable, and high-pressure process".	13-ADV2160-02	6
Effect of Composite Aging on the Performance of Patch Repair of Cracked Aircraft structures	13-ADV2167-02	7

Title	Project Number & Technology	م
Joining of nitinol shape memory alloy to alpha-beta Titanium alloy using Linear Friction Welding for advanced aerospace applications	14-ADV110-02	8
Corrosion and Wear Resistant Nickel–Phosphorus based Nanocoatings for Oil and Petrochemical Applications	13-ADV2179-02	9
Studying FRP-schemes for the strengthening and repair of wall-like RC columns	13-ADV858-02	10
Modelling and Optimization while Machining Particle Reinforced Alumina Based Metal Matrix Composites	13-ADV971-02	11
Performance of Prestressed Fiber-Reinforced Concrete under Projectile Impact	14-ADV1056-02	12
Development of dissimilar metal transitional welds for high temperature steam generator applications using friction welding	15-ADV3717-02	13
Applying some new integrated agronomic techniques for sustainable Food and Agricultural Science under water scarcity conditions	12-AGR2901-02	14

Title	Project Number & Technology	م
Bioactive components of Arabian camel's milk for human nutrition: Detection and preservation of the natural secretion of insulin (INS) and adiponectin (ADPN) in camel's milk	13-AGR1159-02	15
Seasonal variation of trace element and nutritional status of camels (<i>Camelus dromedarius</i>) raise at five representative regions in Saudi Arabia	13-AGR1208-02	16
Assessing beneficial bacteria in the indigenous honeybee (<i>Apis mellifera jemenitica</i>) of Saudi Arabia and their potential role in honey bee health	13-AGR1438-02	17
Towards an efficient monitoring of beekeeping activities and honey productivity in Saudi Arabia using a geo-localization tracking system	13-AGR1443-02	18
Diversity of Spider Mites (Prostigmata: Tetranychidae) based on morphology and genetic variations in the Kingdom of Saudi Arabia	13-AGR1925-02	19
Novel technologies for extending the shelf life of Barhi at the khalal stage of maturity	13-AGR1985-02	20

Title	Project Number & Technology	م
Analysing factors contributing for natural bee forage resource base degradation and their restoration potentials in the valleys of southwest Saudi Arabia	13-AGR2118-02	21
Potential of high throughput precision phenotyping techniques for improving salt tolerance of spring wheat under field conditions	13-AGR2172-02	22
Simulation of the Transportation Effect on Engineering Properties and Losses of Fresh Barhi Dates	13-AGR893-02	23
The use of lasalocid as a feed additive to improve ruminal fermentation, digestion, growth, and meat quality in goats	13-AGR956-02	24
The Effects of High Hydrostatic Pressure-Assisted Processing on Bacterial Pathogens, Spores and Yeast Inactivation Kinetics and Physico-Chemical Properties in Camel Milk, Grape Juice, and Tomato Puree	13-AGR979-02	25
Investigating the responses of local bee race (<i>Apis mellifera jemenetica</i>) towards mass queen rearing and instrumental insemination techniques	14-AGR1357-02	26

Title	Project Number & Technology	م
Cordia and Zizyphus Gums: Extraction, Characterization, Application, and Value-added Co-products	14-AGR2277-02	27
Impact of Roots Symbiotic Fungi and Bacteria on Growth, Nutrient Uptake and Fruit Quality of Olive (<i>Olea europaea</i> L.) in Saudi Arabia	14-AGR780-02	28
Exploration of Physiological and Genetic Characteristics Associated with Heat Stress Tolerance in Najdi and Naimi sheep	14-AGR810-02	29
Development of High Quality Nutraceuticals and Functional Foods from Date (<i>Phoenix dactylifera</i>) Fruit using Innovative Methods	15-AGR3527-02	30
Application of Bioreactors Technology and Microponics for Cormlets and Flowers Production of Saffron (<i>crocus sativus</i>) “ An important Herbal and Medicinal plant	15-AGR3704-02	31
Investigating factors contributing for the annual death of imported honey bee colonies (<i>Apis mellifera carinica</i> hybrid) and assessing the possibilities of enhancing their survivability under Saudi Arabia conditions	15-AGR4464-02	32
The use of conventional and non-conventional aflatoxin adsorbents in broiler and sheep feed	15-AGR5339-02	33

Title	Project Number & Technology	م
Simulation and Modeling of Engineering Properties of Dried Dates Pastes Using Solar Energy	13-AGR1926-02	34
Isolation And Cloning Of Biosynthetic Gene Clusters From Marine Actinomycetes	13-BIO1197-02	35
Surface functionalized mesoporous luminescent rare-earth fluoride core-shell nanoparticles for photodynamic therapy application	13-BIO1246-02	36
The distribution of the Rift Valley fever virus vaccine strain in nature and its vectorial competence in Saudia Arabia	13-BIO1459-02	37
Shotgun De novo sequencing and draft genome assembly of the C4 halophyte grass <i>Aeluropus littoralis</i> : towards the cloning of the halophyte-specific genes and their promoters	13-BIO2050-02	38
Preventing the Toxicity Induced by Gold Nanoparticles and Optimizing a New Therapeutic Cancer Agent	13-BIO2129-02	39
Improving of the reproductive efficiency of Najdi sheep using artificial insemination	13-BIO2462-02	40

Title	Project Number & Technology	م
Development of a protein folding biosensor to study protein misfolding diseases	13-BIO843-02	41
Construction of infectious clones from locally prevalent begomoviruses and their associated satellites for screening tomato germplasm for begomovirus resistance	14-BIO1059-02	42
Polymeric nanofibers as new class of 3D scaffold and their application in stem cell research and tissue engineering	14-BIO1066-02	43
Soft Lewis-Acid Catalyzed Enantioselective Synthesis and Biological Evaluation of Novel Indole Derivatives as Potential Anticancer Agents	14-BIO128-02	44
Potential immunomodulatory responses of surface functionalized nanomaterials used in nanomedicine	14-BIO144-02	45
Development of Novel RNAi based Strategies to control Varroa destructor -A highly destructive Honeybee-Killer Mite in the Kingdom of Saudi Arabia	14-BIO1453-02	46
Eosinophil apoptosis using siRNA loaded magnetic nanoparticles for improved Asthma therapy and diagnosis using noninvasive MRI	15-BIO3502-02	47

Title	Project Number & Technology	م
Fabrication of Advanced Cardiac Patch Using a Novel Silk Fibroin/Poly (ethylene oxide) Composite Loaded with a Piezoelectric Material.	15-BIO4042-02	48
Establishment of seed cryo-bank and determination of genome size and ploidy levels of endemic, rare and endangered flora of Saudi Arabia	14-BIO724-02	49
Management of Fusarium diseases on certain commercial onion cultivars in Saudi Arabia	14-BIO768-02	50
Improving the productive efficiency ?and genetic characteristics of the ?dromedary ?camel using MOET and cloning ?	13-BIO1301-02	51
A Synthetic Biology approach for the sustainable exploitation of diatom highly branched isoprenoids as pharmaceuticals and biofuels.	14-BIO2051-02	52
Molecular diversity and phylogeographic distribution of Candidatus Liberibacter spp, the causal agents of citrus greening disease and their vectors in Saudi	14-BIO627-02	53

Title	Project Number & Technology	م
Remediation and Rehabilitation of polluted soils at Industrial communities in Saudi Arabia	14-BIO785-02	54
Molecular docking of novel ligand molecules and their evaluation for breast cancer therapeutics	14-BIO865-02-R	55
Development of novel chimeric enzybiotics against drug resistant clinical isolates of Staphylococcus aureus and Enterococcus faecalis from Saudi Arabia	15-BIO3608-02	56
Development of a new class of corrosion inhibitor for steel reinforcement bars in concrete exposed to harsh environment of Saudi Arabia	13-BUI1866-02	57
Theoretical and Experimental Evaluation of Saudi Building Code (SBC 304) Provisions for the Corrosion Protection of Reinforced Concrete Structuresâ€™Part I	15-BUI4983-02	58
Development of Sustainable, Ultra High Performance Hybrid Fiber Reinforced Cementitious Composites Utilizing Locally Available Materials for Applications in Harsh Saudi Arabian Environment	14-BUI2262-02	59
Synthesis, efficacy and evaluation of novel rigid coumarin/quinoline hybrids for solid state dye lasers	13-ELE1174-02	60

Title	Project Number & Technology	م
Luneburg Lens- and Substrate-Integrated Waveguide-Based Beam-Steerable Antenna Array for 60-GHz High-Speed Indoor Communication Systems	13-ELE1184-02	61
A Methodology for Design and Implementation of a Condition Based Maintenance System	14-ELE69-02	62
Fabrication of Perovskites-Based Edge- Emitting Laser	15-ELE3793-02	63
Compact and Efficient Linearized Wireless Terminals for Fast Streaming Nodes in the Internet-of-Things	15-ELE5017-02	64
Design and fabrication of high-performance, flexible energy storage devices via the layer-by-layer assembly of graphene and ultra-thin metal hydroxide films deposited onto multiwall carbon nanotubes	13-ENE1135-02	65
Screening and characterizations of new photo-catalytic materials for solar water-splitting hydrogen production.	13-ENE1227-02	66
Performance Study Of A Hybrid Building Cooling System Using A Solar Air Heater And Waste Heat Recovery	13-ENE1292-02	67

Title	Project Number & Technology	م
Efficient Utilization of Kingdom's Industrial Waste (Sulfur) For the Design and Synthesis of Layered Metal Sulfides Nanostructures for Energy Storage Devices	13-ENE2030-02	68
Design and Implementation of Smart Grid for Hybrid Renewable Energy System in KSA	13-ENE2210-02	69
Investigating the geothermal power potential of the basaltic lava fields (Harrats) close to Al Madinah Al Munwarah area, Western of Saudi Arabia	13-ENE934-02	70
Combination of dye-sensitized solar cells and ferroelectric metal oxide nanocomposite to enlarge photovoltaic effect	14-ENE1986-02	71
Design and Synthesis of Layered Double Hydroxides coated Binary and Ternary Nano-Composites for High Energy Density based Stretchable and Flexible Energy Storage Devices	14-ENE600-02	72
Multiscale Seismic Imaging algorithms for studying Geothermal and Volcanic processes	14-ENE697-02	73

Title	Project Number & Technology	م
Enhanced geothermal systems (EGS) of high heat generating granites: Midyan granite, Northwest of Saudi Arabia	14-ENE704-02	74
Designing, Evaluating and Improving Solar-cells based on Conjugated-Polymer, perovskite organo-metal	14-ENE899-02	75
Synthesis of Carbon Microspheres and Hydrochar from Date Palm (Phoenix dactylifera) Biomass Wastes and Its Application for Wastewater Treatment	12-ENV3120-02	76
Levels of polybrominated diphenyl ethers in human breast milk collected from Saudi mothers	13-ENV1284-02	77
Involvement of oil-related environmental pollutants in the development of ovarian disorders, infertility and ovarian cancer: actions and mechanisms.	13-ENV1321-02	78
Development of pulsed fluidized bed technology for enhanced carbon dioxide capture efficiency efficiency	13-ENV2085-02	79
characterization of mechanical and thermal properties of recycled degraded polymer/nanoclay-palm tree fibers	13-ENV884-02	80

Title	Project Number & Technology	م
Quaternary climatic changes and potential for human settlement of the Red Sea coast, Saudi Arabia	14-ENV183-02	81
Biogeography, life features of freshwater planarians from Arabian Peninsula and the paradox of asexuality	14-ENV2212-02	82
Removal and disposal of toxic heavy metal ions using Date Palm Seeds: An Eco-friendly approach	14-ENV2458-02	83
Screening of human cell – nanoparticle interaction specific biomarkers for safety risk analysis of nanoscale-food additives	14-ENV2567-02	84
The integration of GIS and remote sensing, hydrogeology, hydrochemistry and well logging to assess aquifer vulnerability to pollution in Hail - Qassim areas, KSA.	13-ENV1025-02	85
Optimization of The Remnants of Dates, Crop Residues and Animal Wastes to Produce Bio-Energy (BIOGAS) and Organic Fertilizers For Rural Areas	14-ENV528-02	86
Anthropogenic and natural organic matter in surface sediments from the Red Sea coast of Saudi Arabia: Multi-biomarker and geochemical applications.	13-ENV2233-02	87

Title	Project Number & Technology	م
Chemical compositions, sources, and health effects of urban and rural aerosol particulate matter in the Riyadh area, Saudi Arabia.	15-ENV5070-02	88
Monitoring of persistent organic pollutants in different foods (Vegetables, Fruits, Fish) from different areas in Saudi Arabia	14-ENV2482-02	89
Designing novel green ionic liquid-based solvent media for the synthesis of biologically important compounds	14-ENV591-02	90
Image watermarking using local texture descriptors in the spatial and transform domains.	13-INF2114-02	91
Hand-based Biometrics Fusion and Bio-Cryptosystem Computation	13-INF943-02	92
Fingerprint Sensor Interoperability	13-INF946-02	93
Brain-Computer Interface driven Accessibility for People with Disabilities	14-INF3139-02	94

Title	Project Number & Technology	م
A Control-Theory-Based Approach to Scheduling Optimization of Large Oil Refinery	15-INF4627-02	95
Development & Evaluation of a System of Integrated Agents and Numerical Optimization for Flexible Manufacturing Systems (Design – FMS)	13-INF1155-02	96
Reproducing Kernels and Berezin Symbol Methods for Solving Equations	13-MAT1276-02	97
Reconstruction of relational structures and application to regular graphs in Computer and Information Systems and Information Science	13-MAT1428-02	98
Cutting Stock Optimization Tool for Saudi Factories	13-MAT1544-02	99
Differential equations on a Riemannian manifold	13-MAT1813-02	100
Wavelet Analysis of Directional and Anisotropic Regularities and some Applications in Real World Life	13-MAT2180-02	101

Title	Project Number & Technology	م
Optimization and Numerical Algorithms on Riemannian Manifolds and Applications.	13-MAT874-02	102
Nonlinear phenomena in the study of PDE's related to the biharmonic operator	13-MAT887-02	103
New Statistical And Reliability Models With Applications In Biology And Engineering	14-MAT2052-02	104
Nonlinear Evolution Equations	14-MAT730-02	105
Modelling, numerical analysis and simulation of flows in fractured porous media	14-MAT739-02	106
Optimization tool to enhance the profitability of pooled transportation systems in Saudi Arabia	15-MAT4882-02	107

Title	Project Number & Technology	م
Mechanical and coherence effects of structured laser beams on two-level atoms	15-MAT5110-02	108
Association of exposure to Saudi sandstorm dust with increased risk of asthma hospitalization: Role of dust particles components in asthma pathogenesis	12-MED2892-02	109
Human health risk assessment for heavy metals in Mahad AD'Dahab city, Saudi Arabia	13-MED0314-02	110
Establishing a colorectal cancer BIOBANK: identification of genetic mutations in Saudi colorectal cancer patients	13-MED1204-02	111
Studies on the characterization of Bacillus thuringiensis strains locally isolated from Saudi Arabian environments and investigation of their parasporal toxins as natural anticancer agents	13-MED1360-02	112

Title	Project Number & Technology	م
Regulation of proinflammatory and antiinflammatory cytokines by growth hormone (GH): impact on insulin signaling	13-MED1363-02	113
Identification of Genetic Modifiers of Stroke Risk in Sickle Cell Disease Using Whole-Genome Sequencing	13-MED1375-02	114
Whole Genome Sequencing and Phylogenetic Analysis of Human Respiratory Syncytial Virus strains from Riyadh, Saudi Arabia	13-MED1947-02	115
Effect of Motor Vehicle Pollution on Lung Functions, Fractional Exhaled Nitric Oxide Levels and Cognitive Functions of Children and Adolescents Studying in Schools in Traffic-Congested Areas in Riyadh, Saudi Arabia	13-MED1948-02	116
Identification, characterization and in vitro evaluation of food surfactant associated-ultrafine carbonaceous particulates on human colon-, immune- and adult mesenchymal stem- cells	13-MED2341-02	117

Title	Project Number & Technology	م
The Biochemical actions of physiological thyroid hormone levels	13-MED920-02	118
Genome-Wide Sequencing of Serum microRNAs :Exploring Next Generation Biomarkers for Diagnosis and Prognosis of Sepsis in Saudi Children	14-MED1053-02	119
Screening and activity-guided isolation of anticancer and antimicrobial agents from the plants of Saudi Arabian deserts	14-MED1227-02	120
Role of the novel oncogene KDM2B in the epigenetic regulation of the cytoskeleton	14-MED142-02	121
Effects of navigated transcranial magnetic stimulation priming with transcranial DC stimulation coupled with constraint-induced movement therapy on the motor function of stroke patients in the Kingdom of Saudi Arabia.	14-MED1497-02	122

Title	Project Number & Technology	م
Physiological and pathophysiological significance of chorein	14-MED1893-02	123
Insulin Therapy Reduces Postoperative inflammatory response after curative Colorectal Cancer resection: Randomized Controlled Trial.	14-MED1942-02	124
Neurophysiological measures as end-point in multiple sclerosis clinical trials: the use of Transcranial Magnetic Stimulation.	14-MED2097-02	125
Studies on frequencies and disease progression potential of candidate Lymphoid and Myeloid lineage gene mutations in Chronic Myeloid Leukemia Lymphoid and Myeloid blast Crisis CD34+ stem cells.	14-MED2817-02	126
Protein Variants in Human Disease: Characterization and Quantification by Mass Spectrometric Immunoassay	14-MED543-02	127

Title	Project Number & Technology	م
Design and synthesis of new compounds as multi-receptor targeting for treatment of Alzheimer's Diseases	14-MED622-02	128
Attenuate T cell immune responses during airway inflammation by modulating inhibitory signalling pathways using a targeted antibody-nanocarrier approach monitored non-invasively via MRI.	14-MED683-02	129
Human iPS-derived hepatocytes as an in vitro drug toxicity screening platform	14-MED690-02	130
Studies on Differentiation Plasticity of human Stromal (mesenchymal) stem cells	14-MED715-02	131
Assessing Nutrition knowledge-Gap, Nutrition Risk Factors and Behaviors about Type 2 Diabetes among Patients, Health Professionals and General Population in the Kingdom of Saudi Arabia	14-MED726-02	132

Title	Project Number & Technology	م
Epidemiological characteristics and genetic factors affecting the circulation and evolution of respiratory viruses in Saudi Arabia	14-MED809-02	133
Effect of Collagen Cross Linking (CXL) on Collagen fibril, Proteoglycans and keratocytes of Corneal Stroma	15-MED4229-02	134
Physico-chemical speciation of polar/non-polar polycyclic fatty acid materials (PNP-PC-FAMs) as neo-formed contaminants in junk foods and their role in pathogenesis of chronic inflammation and metabolic disorders	15-MED5103-02	135
Measures of cortical plasticity by paired-pulse transcranial magnetic stimulation in epileptogenesis after traumatic brain injury	15-MED5219-02	136
Characterization of Fatty Acid Synthase and Carnitine Palmitoyltransferase I Pathways in Triple-Negative Breast Cancer Saudi Females as Potential	12-MED2889-02	137

Title	Project Number & Technology	م
The functionalization of nanocellulose extracted from date palms for photonic-based applications	13-NAN1120-02	138
Synthesis and characterization of novel multifunctional mesoporous nanocatalysts for improved hydrocarbon oxidation and fuel-cell applications.	13-NAN1309-02	139
Development and Characterization of a Novel Nano-sized Formulation for Oral Delivery of Paclitaxel	13-NAN1897-02	140
Nano devices modeling Gold Nanoparticles as a Potential Vehicle for Antisense Oligonucleotides Delivery to Regulate Gene expression and Control Ichthyophthyriosis	13-NAN2121-02	141
Synthesizing and Characterizing New Thermoluminescent Nanomaterials for Radiation Dose Measurement and Other Semiconductor Applications	13-NAN2126-02	142

Title	Project Number & Technology	م
Exploring the mechanisms of preferential killing of cancer cells by engineered zinc oxide nanomaterials: Potential implications in cancer therapy	13-NAN908-02	143
Solidification of self-emulsifying/self-nanoemulsifying lipid formulation (SELF/SNELF) by high-adsorption materials: the effects of dispersion and digestion on the performance of the formulations	13-NAN929-02	144
High strength nanofiber composite via supersonic nanoblowing for ground and aviation vehicles	14-NAN2221-02	145
Development of Advanced Nanostructured Bismuth Vanadate (BiVO ₄) Photoelectrodes for efficient solar water splitting.	14-NAN2323-02	146
Utilization of Ghost Bacteria as Novel Drug Delivery System for 5- Fluorouracil in Treatment of Colon Cancer	14-NAN561-02	147

Title	Project Number & Technology	م
Surface-modified graphene quantum dot nanoparticles for enhanced sensitivity and safety in magnetic resonance imaging technology	14-NAN862-02	148
Interaction of innate immune soluble factors with nanoparticles and related biomedical applications	15-NAN3664-02	149
Production of Multifunctional Nanomaterial Additives From Local Saudi Ores to Solve the Production of Arabian Petroleum Crude Oil Problems	15-NAN4068-02	150
Synthesis of Multifunctional Nanostructures using Phoenix dactylifera L. Agro-wastes as Sustainable Bio-precursor for Biomedical Applications	15-NAN5012-02	151
Development Of A Nanocatalyst For The Dry Reforming Of Methane	13-PET1056-02	152
Desulfurization of Fuel Oils by Improved Coupled Extractive-Oxidative Technology using Ionic Liquids	14-PET2359-02	153

Title	Project Number & Technology	م
Synthesis of novel core-shell mesoporous zeolite catalysts with controllable isolated active sites towards the oxidation of olefins and ketones in liquid phase	14-PET827-02	154
Mixed Metal Oxides as catalyst precursors: Synthesis, Characterization and syngas production	14-PET851-02	155
3D Formation Control in a Heterogeneous Multi-Robot System using Swarm Intelligence in a Hazardous Unstructured Environment	13-SPA1130-02	156
Site effect and microzonation of Jizan coastal area for Earthquake Hazard Assessment	14-SPA576-02	157
Evaluation of ore deposits in the Al-Amar ڤRegion, Eastern Arabian Shield, Saudi Arabia: An Implication of Structural and Remote Sensing Techniques	14-SPA154-02	158

Title	Project Number & Technology	م
Geological Setting, Mineral and Chemical Evaluation of Bauxite Ore Deposits of Az Zabirah Area, Central Northern of Saudi Arabia.	14-SPA686-02	159
Thickness and thermo-mechanical structure of the lithosphere of the Arabian Plate: a multidisciplinary approach	15-SPA4053-02	160
Risk assessment and management of flash floods in Wades Al Laith and Yalamlam, western Saudi Arabia.	13-WAT1027-02	161
Integrated Web-based Program for Water–Energy Management and Conservation in Irrigated Areas	13-WAT1152-02	162
Development of cost-effective fluidized-bed technology for the treatment of oil contaminated wastewater using activated carbon	13-WAT1250-02	163

Title	Project Number & Technology	م
Nonconventional Desalination Using Freezing Technique	13-WAT2084-02	164
Study on the Feasibility of the Desalination of Brackish Water by Reverse Osmosis Powered by Wind Energy at Selected Sites in Saudi Arabia	13-WAT907-02	165
Analysis and development of the dual lateral subsurface drip approach as a promising technology to conserve water and improve yields quantity and quality	14-WAT539-02	166