

#	Proposal Title	Principle Investigator	Code	TEC	The result
29	Biomaterials Engineering for Drug Delivery Design	Yousef Bakhbakhi	11-ADV1493-02	ADV	Reco
30	Production of Aluminum-Boron Carbide Metal Matrix Composites Containing Zr and Ti as Materials for Elevated Temperature Performance in Engineering Applications	Hany Rizk Ammar	11-ADV1495-02	ADV	Reco
31	Critical Phenomena in Complex Ferroelectric Materials from First Principles	Saad Hamad Bin-Omran	11-ADV1498-02	ADV	Reco
44	Production of Silver-Tungsten Composite Material for industrial relays and circuit breakers applications	Mahir H. Es-Saheb	11-ADV1718-02	ADV	Reco
73	Suitability of flexible polymeric films in preservation of fresh Saudi dates utilizing modified atmosphere packaging (MAP	Abdullah M. Alhamdan	09-ADV913-02	ADV	Reco
5	Prevention is better than cure: Assessment of Bayoud-Resistance for Date Palm Germplasm in Kingdom of Saudi Arabia Using AFLPs and Mitochondrial DNA Markers	Amgad Abdel Meguid Saleh	11-AGR1475-02	AGR	Highly Reco
12	Determination of bioactive peptides and amino acid stereoisomers in Saudi fermented camel milk using advanced analytical methods GC-MS, HPLC, LC-MS and production of functional dairy product	Omar Amin Alhaj	11-AGR1603-02	AGR	Highly Reco
15	Determining spatial and temporal distribution, and relative values of honeybee flora in the Al-Baha region	Nuru Adgaba Mohammed	11-AGR1750-02	AGR	Highly Reco
24	Phytochemical Investigations on Potential Desert Plants and their Bio-Efficacy on Red Palm Weevil, <i>Rhychophorus ferrugineus</i> Oliv.	Saleh AlDosari	11-AGR1477-02	AGR	Reco
52	Date palm fronds (rachis) as a raw material for both oriented strand board (OSB) and oriented strand lumber (OSL)	Said Saad Hegazy El-Sayed	11-AGR1745-02	AGR	Reco
53	Pulp and paper production from lignocellulosic residues and wood available in Saudi Arabia and assessment of the produced paper	Hamad A. Al-Mefarrej	11-AGR1746-02	AGR	Reco

54	Identification and Characterization of Antimicrobial Agents Extracted from Honey collected from Different Locations in Saudi Arabia	Mohammad Javed Ansari	11-AGR1748-02	AGR	Reco
55	Improved beekeeping technologies generation, evaluation and socio-economic analysis of the sub sector in Kingdom of Saudi Arabia	Nuru Adgaba Mohammed	11-AGR1749-02	AGR	Reco
8	Harnessing genomic information of begomoviruses and associated satellite DNA molecules in major horticultural crops to increase food security in the Kingdom of Saudi Arabia	Mohammed Ali M. Al-Saleh	11-BIO1577-02	BIO	Highly Reco
9	Self assembled nanoparticles as new smart contrast agent for T1 MRI in breast cancer early detection	Fouzi Mouffouk	11-BIO1578-02	BIO	Highly Reco
25	Development of a bioprocess for cyclodextrins production using novel cyclodextrins glucanotransferase immobilized on mesoporous silica nanosphere	Abdelnasser Salah Shebl Ibrahim	11-BIO1480-02	BIO	Reco
26	Molecular Genetics and Population Dynamics of Aedes aegypti Mosquito Vector of Arboviral Diseases	Emad I. M. Mohammed KHATER	11-BIO1483-02	BIO	Reco
49	Novel Pervasive Computing Approach to Counter and Manage Obesity in KSA	Atif Alamri	11-BIO1737-02	BIO	Reco
50	The utilization of fecundity gene 'FecB' in the Genetic Improvement of Local Naeimi Sheep	Abdullah N. Al-Owaimer	11-BIO1739-02	BIO	Reco
51	Pre-adaptation of the native Bee Race Apis m. Jemenetica to Varroa Mite Varroa destructor	Yehya Al-Attal	11-BIO1743-02	BIO	Reco
65	Deciphering the regulatory mechanisms of abiotic stress tolerance conferred in transgenic plants expressing the AISAP gene from the halophyte grass A. littoralis	AFIF HASSAIRI	11-BIO1828-02	BIO	Reco
71	Human Mesenchymal Stem Cells: Identification of kinases that determine differentiation into osteoblastic cells and their use as therapeutic targets for enhancing bone formation	Musaed Abdulaziz Al-Fayez	10-BIO1308-02	BIO	Reco

47	Embedded System Design Using Brain-Computer Interface Technologies to Enhance Accessibility to Home Devices for People with Severe Disabilities	Ridha Djemal	11-ELE1730-02	ELE	Reco
14	Screening for lipid hyper-producers species in Saudi Arabia coastal waters for Biofuel production from micro-Algae (SABA-1)	Khalid M. Abu-Salah	11-ENE1719-02	ENE	Highly Reco
23	Engineering of Semiconductor-Sensitized Nano-structured Solar Cells	Abdullah S. Al-Dwayyan	11-ENE1474-02	ENE	Reco
42	Development of an Intelligent System for the efficient management of energy consumption in Higher Educational Institutions	Eyas Abdel Rahim El-Qawasmeh	11-ENE1605-02	ENE	Reco
45	Non-Precious Metallic Nanofibers As Novel, Cheap and Effective Electrodes For Scaling Up Fuel Cells Manufacturing Technology.	Mohamed Hassan Abdel-Wahab El-Newehy	11-ENE1721-02	ENE	Reco
4	Effects of mistletoe parasitism on Acacia woodlands in the western region of Saudi Arabia: considerations for control and conservation	Magdy I. El-Bana	11-ENV1470-02	ENV	Highly Reco
10	Distribution of water recharge areas and deterioration of groundwater resources in the Midyan Basin, northwestern Saudi Arabia	Awni T. Batayneh	11-ENV1589-02	ENV	Highly Reco
22	Understanding the dynamics of nebkha dunes in degraded rangelands of Saudi Arabia: Impacts of climate change and grazing pressure	Magdy I. El-Bana	11-ENV1471-02	ENV	Reco
37	Monitoring of persistent organic pollutants levels in soil of the Central and Eastern provinces in the Kingdom of Saudi Arabia	Ashraf Sami Hassanin Badr Eldin	11-ENV1590-02	ENV	Reco
38	Development of a bioprocess for bioremediation of toxic chromium using novel potent chromate resistant bacteria immobilized on nano-materials	Abdelnasser Salah Shebl Ibrahim	11-ENV1591-02	ENV	Reco
39	Pyrolysis of Conocarpus Wastes as a Mitigation Technology for Climate Change and Activated Carbon Production (PyroTech)	Mohammad Al-Wabel	11-ENV1592-02	ENV	Reco

56	Computer-Aided Plant Identification Package for the Flora of Middle Region, Saudi Arabia	Sulaiman Ali A. Alharbi	11-ENV1753-02	ENV	Reco
57	Saudi Vegetation Database of the Central Region: A Vital Tool for Sustainable Management of Natural Resources	Abdullah Mohammed El-Sheikh Al-Ansari	11-ENV1754-02	ENV	Reco
58	CONSERVATION AND UTILIZATION OF MANGROVE ECOSYSTEM IN SAUDI ARABIA: FROM KNOWLEDGE TO DEVELOPMENT	Abdelrehman Alatar	11-ENV1756-02	ENV	Reco
72	Green Solvents for Desulfurization of diesel and Fuel Oils	Inas AlNashef	10-ENV1315-02	ENV	Reco
74	Structure, Function and Physiology of Plant-Specific Anion Channels	Khaled A.S. AL-Rasheid	10-ENV1181-02	ENV	Reco
7	Novel Planning, Tracking, and Identification Schemes Towards Enabling Large Scale RFID Networks	Waleed M. Alsalih	11-INF1500-02	INF	Highly Reco
40	A Web Surveillance Framework for Criminal Networks Identification and Monitoring	Muhammad Abulaish	11-INF1594-02	INF	Reco
66	Privacy and Quality-aware Monitoring Framework for Public Security	Mohammad Anwar Hossain	11-INF1830-02	INF	Reco
6	Dynamics of quantum entanglement and decoherence in quantum information and quantum computing systems	Gehad Kandeel Sadiq	11-MAT1492-02	MAT	Highly Reco
13	Fractional Calculus and some Applications in Real World Life.	Hichem Hajaiej	11-MAT1716-02	MAT	Highly Reco
28	Optimizing Saudi Hospital Nurse Scheduling Using Mathematical Programming	Mohamed Anis Gharbi	11-MAT1491-02	MAT	Reco
43	Attosecond electronic population dynamics	Zeyad A. Alahmed	11-MAT1606-02	MAT	Reco
16	Screening of miRNA signatures as diagnostic markers of colorectal cancer metastasis	Yazeed A.Al-Sheikh	11-MED1770-02	MED	Highly Reco
17	A Smart Cardiovascular Remote Monitoring System	Yakoub Bazi	11-MED1832-02	MED	Highly Reco
18	The Influence of Cod Liver Oil as an Anti-carcinogenic Agent on Apoptotic Potential During Oral Carcinogenesis in Albino Rats	AHMED AL-BARAK	10-MED1334-02	MED	Highly Reco
34	The quest to characterize deregulated microRNA and mRNA Networks in Cancer Stem Cells (CSCs) from Solid Tumours and Leukemia	Nehad M. Alajez	11-MED1582-02	MED	Reco

35	Evaluation of the efficacy of natural products for their antiviral activities against hepatitis B virus (HBV) gene expression and replication	Mohammed S. Al-Dosari	11-MED1585-02	MED	Reco
36	Development and Optimization of Zirconium-89 Production and Clinical TF-PET/CT Imaging Protocols for Breast Tumor Imaging and Immunotherapy Planning	Khalid S. Alzimami	11-MED1586-02	MED	Reco
59	Randomised Controlled Vitamin D Supplementation on Response to Peginterferon Alfa-2a Plus Ribavirin Combination Treatment in Chronic Hepatitis C Genotype 4	Khalid Aida Ayed Alswat	11-MED1757-02	MED	Reco
60	Steroid-induced apoptotic responses in colon cancer	Saad Hussin Alkahtani	11-MED1765-02	MED	Reco
61	Are patients with non-alcoholic fatty liver disease (NAFLD) at risk of endothelial dysfunction?	Waleed Khalid Abdulrahman AlHamoudi	11-MED1766-02	MED	Reco
62	Enhancement of colon cancer chemotherapy using 5-FU loaded polymeric nanoparticles	Alaa Eldin Bakri Yassin	11-MED1768-02	MED	Reco
63	Novel Multimodality Imaging and Diagnosis of Chronic Respiratory Diseases Using Bone Marrow Derived Macrophages	Achraf M. Al Faraj	11-MED1773-02	MED	Reco
64	A New Innovative Concept of 3D X-Ray Imaging Systems for Painless Breast Cancer Detection	Mohammed Ali Ahmed Alnafea	11-MED1827-02	MED	Reco
68	Evaluate health care services provided for old persons in primary health care centres, and assess health status of elderly attending these centres in Riyadh, Kingdom of Saudi Arabia-A first step towards age friendly primary health care centres	Adel Abdulwahab Alhamdan	10-MED1219-02	MED	Reco
70	Study of medicinal plants as a source of novel antileishmanial, antimalarial and antitrypanosomal compounds.	Nawal Musayeib Al-Musayeib	10-MED1288-02	MED	Reco
1	Novel Nanotechnological Approach for Development and Scaling up Capacitive Deionization Seawater Desalination Units.	Khalil Abdelrazek Khalil	11-NAN1460-02	NAN	Highly Reco
2	Multifunctional Nanoparticles for Targeting and treatment of Cancer	Khalid M. Abu-Salah	11-NAN1462-02	NAN	Highly Reco

3	Electric field control of magnetization dynamics in magnetoelectric nanostructures	Mourad Abid	11-NAN1466-02	NAN	Highly Reco
11	Time and spin resolved on nanostructured semiconductor for a Spin hall effect and Spin Seebeck effect applications (QSPHOT project)	Mourad Abid	11-NAN1598-02	NAN	Highly Reco
19	Highly Efficient Quantum Dots Sensitized Solar Cells (QDSSCs) Based on Nano-Metal Oxide Semiconductors	W. Aslam Farooq	11-NAN1464-02	NAN	Reco
20	Scandium Nitride Nanotube Investigation: Phase Stability, Structure, Electronic Structure, and Electric Properties.	Saad Hamad Bin-Omran	11-NAN1465-02	NAN	Reco
21	Nanoparticles Development for the prevention of Tacrolimus-Associated Nephrotoxicity	Aws Alshamsan	11-NAN1469-02	NAN	Reco
27	DEVELOPMENT OF BIODEGRADABLE POLYMERIC ELECTROACTIVE SHAPE MEMORY NANOCOMPOSITES ACTUATOR FOR POTENTIAL MEDICAL AND INDUSTRIAL APPLICATIONS	MOHAN RAJA	11-NAN1486-02	NAN	Reco
41	Towards ultrafast lightwave electronics: controlling collective electron motion in nano-circuits with light-fields	Abdallah M. Azzeer	11-NAN1597-02	NAN	Reco
46	Fungi as Bionanofactory for Synthesis of Silver Nanoparticles and Their Antibacterial Activity	Kamel A. Abd-Elsalam	11-NAN1723-02	NAN	Reco
69	Design and Synthesis of Novel Cholesterol-Conjugated 5-Fluorouracil Compounds: Their Loading in nanocarriers as Novel Delivery System for Cancer Treatment	Awwad Abdoh Radwan Salama	10-NAN1286-02	NAN	Reco
32	Water productivity mapping and assessment of irrigation performance for irrigation water conservation: a study in Al-Kharj region of Saudi Arabia	V.C. Patil	11-SPA1503-02	SPA	Reco
33	Developing a Precise Gravimetry System for Mapping Ground Water Table Variation in Saudi Arabia	Abdulrahman M. Al-Khomairi	11-SPA1505-02	SPA	Reco
67	PalmWatch: Monitoring of Palm Tree Farms with Advanced Remote Sensing Techniques	Naif Alajlan	10-SPA1192-02	SPA	Reco

48	Factors controlling the configuration of the water bodies in the eastern Gulf of Aqaba coastal aquifers, Saudi Arabia	Awni T. Batayneh	11-WAT1731-02	WAT	Reco
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