

## LIST OF RESEARCH PROJECTS CONTINUING/ UNDERTAKEN BY THE TEACHERS OF THE UNIVERSITY DURING 2016-2017

Sr.	Name of Teacher	Department	Title of Research Project	Period		Funding Agency	Grant Sanctioned (Rs.)
				From	To		
1.	Dr. B.S. Bajwa	Physics	MOU between BARC, Mumbai to strengthen radon studies in the state of Haryana, Rajasthan and Punjab.	01-04-2011	31-03-2016	BARC	25,05,000
2.	Dr. R.K.	Chemistry	Spatial Distribution of uranium & Mahajan associated water quality parameters in ground water in seven northern districts (Tarn Taran, Amritsar, Gurdaspur, Pathankot, Kapurthala, Jalandhar, Hoshiarpur) of Punjab	01-04-2015	31-03-2017	BRNS	21,62,900
3.	Dr. Aman Mahajan	Physics	Transitional metal Sulphides based counter electrode for dye sensitized solar cells	01-04-2013	31-03-2017	BRNS	24,96,048
4.	Dr. Bindiya Arora	Physics	Uncertainties in Frequency Standards	10-07-2013	09-07-2016	CSIR	20,73,000
5.	Dr. Anup Kumar	Mol. Bio. & Bio Chem.	Functional Characterization of the Iron Regulatory Negative Kesavan Repressor Gene sirR In Mycobacterium smegmatis	01-12-2013	30-11-2016	CSIR	31,02,667
6.	Dr. Tejwant Singh	Chemistry	Self-Assembled Polymer Architecture & their composites with Quantum Dots in Ionic liquids & Ionic liquid/water binary mixtures	21-11-2014	20-11-2017	CSIR	13,42,000
7.	Dr. Avinash Nagpal	Bot. & Env. Sci	Indexing & Management of viruses & viroids Infecting Tomato Crop in Punjab & Neighbouring States	27-01-2015	26-01-2018	CSIR	30,12,000
8.	Dr. Palwinder Singh	Chemistry	Charismatic world of peptides: Design, synthesis and evaluation of small peptides for anti-inflammatory and anti-microbial activities	01-02-2015	31-01-2018	CSIR	21,96,000
9.	Dr. AJS Bhanwer	Human Genetics	Targetted Genome Analysis of two Large diabetic retinopathy cohorts from northern and southern india	01-04-2015	31-03-2018	CSIR	27,96,000
10.	Dr. S. S. Chimni	Chemistry	Organocatalyzed enantioselective decarboxylative carbon-carbon bond formation	01-01-2016	31-12-2018	CSIR	9,24,000
11.	Dr. H.S.Saini	Microbiology	Bioremediation of electronic waste (E-waste) for precious metal recovery and removal of polybrominated diphenyl ethers(PBDE's)	10-10-2013	09-04-2017	DBT	13,20,000
12.	Dr. B.S.Chadha	Microbiology	Developing Fungal strains for enzyme production through mutagenesis, protoplast fusion and over-expression using A. niger citrate synthase promoter	08-10-2013	07-04-2017	DBT	26,37,200
13.	Dr. D.S. Sogi	Food Science & Tech.	Ascertaining Immunoreactivity of gliadin isolated from North Indian Wheat Cultivars, Probiotic fermented dough and gluten free products	23-07-2013	22-07-2016	DBT	42,50,000

14	Dr. Rachna Hora	Mol.Bio. & Bio.Chem	Structure-function analysis of an essential exported, parasite protein	25-07-2013	24-01-2017	DBT	43,64,234
15	Dr. H.S. Saini	Microbiology	Microbial diversity of Industrial waste Polluted sites of Punjab: Biogeochemical instructions for rejecting of metals and degradation of pollutants	21-03-2014	20-03-2017	DBT	35,80,000
16	Dr. P.K. Pati	Bio-technology	Structure-function analysis of plant NADPH oxidase	16-12-2014	15-12-2017	DBT	14,11,200
17	Dr. Gurcharan Kaur	Bio-technology	Study of Molecular and cellular basis of obesity associated neuroinflammation and the role of natural products as neuroprotective agents	03-12-2015	02-12-2018	DBT	40,00,000
18	Dr. Gagandeep Kaur Gahley	Mol. Bio. & Biochem	Characterisation of the role of carbohydrates in sperm-egg interactions	03-12-2015	02-12-2018	DBT	13,03,200
19	Dr. Prabhjeet Singh	Bio-technology	Role of peptidyl prolyl cis-trans isomerases in acquisition of thermotolerance in wheat	02-07-2015	01-07-2018	DBT	47,63,200
20.	Dr. B.S. Chadha	Microbiology	"Indo-Brazil Project entitled" Biorefining of sugarcane bagasse for production of bioethanol and value added products	02-05-2016	01-05-2020	DBT	36,78,400
21	Dr. Seema M Thayil	Mol Bio & Biochem	Comparision of phenotypic and genotypic resistance in TB isolates from previously treated and treatment native coinfectd individuals	14-08-2013	30-11-2016	DST	23,43,000
22	Dr. Atul Khanna	Physics	Nanostructured Multicomponent Bismuth-Borate Glasses and Glass Ceramics	29-08-2013	28-08-2016	DST	5,25,000
23	Dr. Subodh Kumar	Chemistry	Fabricated nano-structured organic hybrids Chemosensors and logic Devices	11-08-2015	10-08-2018	DST	1,21,36,400
24	Dr. Vipan Kumar	Chemistry	4-Aminoquinoline – phthalimide and 4-aminoquinoline-1, 8-naphthalimide conjugates : Synthesis and anti-material evaluation	15-01-2016	14-01-2019	SERB	25,76,000
25	Dr. Gurcharan Kaur	Bio-technology	Behavioral and molecular study of relationship between chronic sleep deprivation and cognitive impairments	10-06-2015	09-06-2018	SERB	40,43,2000
26	Dr. Sanjana Mehrotra	Human Genetics	Genetic and functional analysis of cytokine gene varriants as risk factors for primary glaucoma in North Indian population	10-06-2015	09-06-2018	SERB	24,70,000
27	Dr. Gursatej Gandhi	Human Genetics	Molecular Genetics Correlates of DNA Damage and repair and of circadian Rhythm Dysfunction in Humans from Non-Ionizing Radiation Exposure	15-06-2015	01-06-2018	SERB	44,16,000
28	Dr. Amritpal Kaur	Food Sci & Tech	Effects of processing and storage conditions on physicochemical properties and stability of oils from different plant sources	14-08-2015	13-08-2018	SERB	45,00,000
29	Dr. Harminder Singh	Mechanical Engg, GNDU RC Jalandhar	Study of the performance of nanostructured coating at elevated temperatures	23-09-2015	22-09-2018	SERB	32,06,000
30	Dr. Venus Singh Mithu	Chemistry	Structural Characterization of cell-membrane mediated amyloidogenic-protein aggregation and the association membrane disruption at molecular level	19-10-2015	18-10-2018	SERB	24,46,000

31	Dr. Inderpreet Kaur	Chemistry	Modification of metal surface by self-assembly of heterocycle based thiols and dithiols: Towards selective electrochemical sensing	19-11-2015	18-11-2018	SERB	26,02,000
32	Dr. Vandana Bhalla	Chemistry	Aggregation Induced Emmission Enhancement Materials: Synthesis and Evaluation of Photophysical Properties	01-12-2015	30-11-2018	SERB	50,94,000
33	Dr. Palwinder Singh	Chemistry	Design and synthesis of Enzyme models: Mechanistic studies and Medicinal Applications	15-01-2016	14-01-2019	SERB	42,06,000
34	Dr. Manoj Kumar	Chemistry	Discotic materials with tunable photophysical properties	02-07-2013	01-07-2016	SERB	54,50,000
35	Dr. Subodh Kumar	Chemistry	1-Arylbenzimidazolium based molecular architects of recognition of anions	28-06-2013	27-06-2016	SERB	54,70,000
36	Dr. Manpreet Kaur	Human Genetics	Association of galectin-3 polymorphism its serum levels and oxidative stress biomarkers with Rheumatoid Arthritis (RA)	28-06-2013	27-06-2016	SERB	23,30,000
37	Dr. S.S Chimni	Chemistry	Organocatalytic Asymmetric Vinylcations Reactions : An Enantioselective Approach to Chiral functionalized Organic molecules	04-01-2017	03-01-2020	SERB	39,66,600
38	Dr. Pratapbir Singh	Microbiology	Development of cost-effective bioprocess for biosurfactant production: its effective process scale-up	22-08-2013	21-08-2016	SERB	24,35,000
39	Dr. Amritpal Kaur	Food Science & Tech.	Development and Quality Evaluation of Gluten free Products for Celiac disease patients	01-10-2013	30-09-2016	SERB	45,42,000
40	Dr. Jatinder Singh	Mol Bio & Biochem	Molecular Cloning and expression of two insecticidal lectins	3-11-2013	12-11-2016	SERB	48,50,000
41	Dr. Kamaljit Singh	Chemistry	Synthesis and evaluation of functional organic materials	28-02-2014	27-02-2017	SERB	47,00,000
42	Dr. Anupinder Singh	Physics	Enhanced magneto electric properties in perovskite solid solutions for multiferroic device	28-02-2014	27-02-2017	SERB	26,16,000
43	Dr. Prabhpreet Singh	Chemistry	Polyamine-Dendronized perylene-tetra Carboximide based water soluble bola-amphiphiles	04-12-2013	03-12-2016	SERB	24,38,000
44	Dr. Tejwant	Chemistry	Thermo-responsive liquid crystalline micro-emulsions based on Ionic liquids, Preparation Characterization and applications	24-06-2014	23-06-2017	SERB	24,88,000
45	Ms. Amandeep Kaur	Human Genetics	Prevalance of genetic polymorphisms (MTHFR, MTRR, MTR, RCFI) among north mothers as risk factor for down syndrome	19-06-2014	18-06-2017	SERB	14,69,000
46	Dr. H.S. Gujral	Food Sci & Tech.	Reviving the utilization of millets and minor cereals in chapatti to Deliver Bioactive Components	15-07-2014	14-07-2016	SERB	52,88,000
47	Dr. B.S. Chadha	Microbiology	Thermophilic fungi from diverse ecosystems and their potential for producing industrially important enzymes (AMAAS)	25-06-2014	31-03-2017	ICAR	31,62,000
48	Dr. B.S. Chadha	Microbiology	Increasing the efficiency of Microbial production of Bioethanol from agricultural Biomass(NFBSFARA)	01-01-2011	31-12-2015	ICAR	45,14,220
49	Dr. Atul Khanna	Physics	Study of effects of ion beam irradiation on the structure and properties of oxide glasses.	06-09-2013	05-09-2016	IUAC	5,46,333

50	Dr. Manoj Kumar	Chemistry	Fluoregenic sensing of soft metal ions	01-04-2013	31-03-2017	UGC	10,63,800
51	Dr. Rakesh Kumar Mahajan	Chemistry	Characterization of self assemblies of surfactants in the presence of bioactive compounds	01-04-2013	31-03-2017	UGC	13,35,800
52	Dr. Subheet Jain	Pharmaceutical Sciences	Development and Characterization of vitamin E TPGS based nanoemulsion for sustained and targeted delivery of anti-fungal agents	01-04-2013	31-03-2017	UGC	11,59,000
53	Dr. Sukhraj Kaur	Microbiology	In vitro evaluation of anticancer and antimicrobial properties of novel bacteriocins from human lactic acid bacteria	01-04-2013	31-03-2017	UGC	11,78,300
54	Dr. Balwinder Singh	Commerce	Managing India New Zealand Institutional Challenges for success	01-06-2014	30-06-2016	UGC	6,42,750
55	Dr. P.K. Banipaul	Chemistry	Studies on Solvation Behaviour of polyhydroxy Compounds in Mixed Aqueous Media	01-07-2015	30-06-2018	UGC	14,28,600
56	Dr. A.S. Soodan	Bot & Env. Sci.	Investigations into phytoliths for Identification and Taxonomic Analysis of Grasses of North Western Himalayan Region	01-07-2015	30-06-2018	UGC	11,25,000
57	Dr. Jasveen Kaur	University of Business	Gender Differentiation in Projecting Antecedents & Consequentials of Impulse Buying Behaviour of Indian Retail Shoppers	01-07-2015	30-06-2018	UGC	10,23,000 School
58	Dr. Inderpreet Kaur	Chemistry	Self-assembled monolayers of functional molecular monowires: Electron transportation studies and applications for electrochemical sensing of heavy metal ions	01-07-2015	30-06-2018	UGC	12,18,600
59	Dr. Baljinder Singh Bal	Physical Education	Research Award to Dr. Baljinder Singh Bal	01-03-2015	30-06-2016	UGC	1,00,000
60	Dr. Manpreet Singh Bhatti	Bot. & Env. Sci.	Diminution of arsenic and fluoride from drinking water electrocoagulation and nano-particles based absorbents	01-07-2015	30-06-2018	UGC	13,60,000
61	Dr. Jagrup Singh Sekhon	Political Science	Life at the cutting Edge: Political Sociology of the people living in the Border Best of Punjab	01-07-2015	30-06-2018	UGC	10,67,400
62	Dr. N.S. Sodhi	Food Sci & Tech	Development of Electromyographic methodologies to study texture of Indian Foods	01-07-2015	30-06-2018	UGC	16,60,800
63	Dr. (Mrs) Rajesh Kumari Manhas	Microbiology	Isolation of endophytic and soil antinobacteria and evaluation of their plant growth promoting potential	01-07-2015	30-06-2018	UGC	8,96,000
64	Dr. R.S. Singh	Food Sci & Tech.	Characterization and modification of cereal grains for value addition	01-07-2015	30-06-2018	UGC	14,22,000
65	Dr. Aparna Bhatia	Commerce	Contemporary Issue in corporate Social Reporting Practices in India: A journey from voluntary to Mandatory Regima	01-07-2015	30-06-2018	UGC	7,03,400
66	Dr. Daljit Singh Arora	Microbiology	Profiling of Moringa oleifera Endophytes with Antimicrobial Potential	01-07-2015	30-06-2018	UGC	10,70,000
67	Dr. Amarjit Singh Sidhu	University Business School	Status of Public Health Care Services in Punjab: A Case Study of Punjab Health Systems Corporation (PHSC)	01-07-2015	30-06-2018	UGC	10,22,000
68	Dr. Rupan Dhillon	Psychology	Depression hopelessness emotional autonomy and hardness as	01-07-2015	30-06-2018	UGC	8,37,400

69	Dr. Sanhedeep Kaur	Zoology	determinants of suicidal ideation in adolescence Influence of endophytic fungi on insect herbivore and its parasitoid: Understanding multitrophic interaction for effective bio control strategies	01-07-2015	30-06-2018	UGC	15,35,000
70	Dr. Satwinder Kaur	Zoology	Biocidal biochemical effects of extracts/polyphenolic rich fractions from bark of <i>Acacia nilotica</i> (L.) Del. against the common cutworm <i>Spodoptera litura</i>	01-07-2015	30-06-2018	UGC	15,49,500
71	Dr. Sandeep Sharma	Physics	UGC Start up grant	11-12-2016	10-02-2018	UGC	6,00,000
72	Dr. Venus Singh Mithu	Chemistry	UGC Start-up grant	30-03-2015	25-03-2017	UGC	6,00,000
73	Dr. Mandeep Singh	Physics	UGC Start-up grant	06-10-2015	05-10-2017	UGC	6,00,000
74	Dr. Gurpreet Kaur	Music	Padam Bhusan Dr Sardar Anjum ki Rachnay on ka sangeetik Vishleshan (Gazal ke Vishesh Sandharbh Mein)	01-07-2015	30-06-2018	UGC	12,39,800
75	Dr. Sandeep Sharma	Comp. Sci. & Engg.	Grant for Providing Wi Fi connectivity under the centrally Sponsored Plan scheme of National Mission Education through Information Recommunication Technology	01-04-2016	31-03-2017	UGC	9,00,000
76	Dr. Satwinder Jeet Kaur	Bot. & Env. Sciences	Studies on the antiproliferative activity of <i>Glycyrrhiza glabra</i> L, polyphenols and their role in targeting cellular signaling pathways	01-03-2015	29-02-2018	ICMR	5,88,000
77	Dr. PMS Bedi	Pharmaceutical	Design synthesis and anticancer evaluation of triazole tethered cis locked chalcones – isatin bifunctional hybrids : Synthesis and anticancer evaluation	01-03-2015	29-02-2018	ICMR	6,21,000
78	Dr. P.K. Pati	Bio-technology	Development of IN-SITU Regeneration system (Cell suspension & protoplast) and comparative analysis of bioactive compounds of <i>Rhodiola</i> Species: A high value medicinal plant from Trans-Himalayan Region of Ladakh	17-12-2015	16-12-2017	DRDO	8,80,000
79	Dr Paramjit Kaur	Chemistry	Ferrocene Based Donor Acceptor Dyads as multifunctional Materials	01-06-2016	31-05-2019	CSIR	15,96,000
80	Dr. Geeta Hundal	Chemistry	Bio-Imaging and Chemosensing of Biologically Important Cations & anions using imine/hydroxyl, imine/amine, amide/pyridine and fluorescent nanoparticles	01-10-2015	30-09-2018	CSIR	18,00,000
81	Dr. H.S. Saini	Microbiology	Exploring the Metabolic Potential of Indigenous Microbial Diversity to Transform Polar Aromatic Sulfonates and understanding Metabolic Flux to Achieve Desired clean up levels of Industrial Effluents	01-06-2016	31-05-2019	CSIR	14,01,000
82	Dr. Amrit Pal Kaur	Food Sci. & Technology	Quality Characterization & Utilization of Buckwheat in Different Food Products	-	-	CSIR	14,66,767
83	Dr Manoj Kumar	Chemistry	Design Synthesis & Evaluation of Fluorescent Probes for Nitric Oxide	01-12-2016	30-11-2019	CSIR	19,83,400
84	Kamaljit Singh	Chemistry	Synthesis & Investigation on Singlet Oxygen Production	01-12-2016	30-11-2019	CSIR	16,21,000

85	Prabhpreet Singh	Chemistry	efficiency & Functional Properties of New Porphyrinoids Perylenedimide Based Chemodosimeters for Diagnosis of Biothiols and Toxic analyte in Live Cells	01-12-2016	30-11-2019	CSIR	19,20,800
86	Dr Tarlok Singh Lobana	Chemistry	Metal Mediated Chemical Reactivity of Heterocyclic thiones	01-01-2013	31-03-2017	CSIR	18,96,000