

## Completed Projects

### University Grants Commission

Sl No.	Title of the Project	Principal Investigator	Department	Sanctioned Amount	Duration	Year
1	Investigation on structure activity relationship of the quinolone antibacterial against mycobacteria	Prof. D Sriram	Pharmacy	1000000	2years	2008-2010
2	Design and synthesis of newer gaba analogues for treating CNS Disorders	Prof. P Yogeewari	Pharmacy	835413	2years	2008-2010
3	Study of Extraction behavior and speciation of chromium using various long chain Amines	Prof. N Rajesh	Chemistry	417503	2years	2008-2010
4	Development of interactive computer programs for teaching physics	Prof. P K Thiruvikraman	Physics	95000	2years	2008-2010
5	Isocitrate lyase Enzyme as Target in Persistent Mycobacterium tuberculosis Infection: Synthesis of 2-Arylthiazolidine-4-carboxylic acid and 5-Nitro-2-furoric acid Derivatives and its Antimycobacterial Evaluation	Prof. D Sriram	Pharmacy	1021800	3years	2009-2012
6	Characterization of the prenatal and perinatal risk factors of autism spectral disorder in Indian autistic population	Prof. Vidya Rajesh	Biological Sciences	651800	3years	2010-2013
7	Efficient peer-to-peer overlay infrastructure for secure computing over the internet	Prof.Chittaranjan Hota	CSIS	1038800	3years	2011-2014
8	Rapid incremental forming of EDD steel sheet metal parts with asymmetric Geometry	Prof. S.P. Regalla	Mechanical Engineering	973000	3years	2011-2014
9	Quality Control studies and standardization of safflower petals of different Indian cultivars as per World Health Organisation (WHO) requirement	Prof.Sajeli Begum	Pharmacy	944800	3years	2011-2014
10	Design, pharmacokinetic and pharmacodynamic evaluation of nanocarriers for selective estrogen receptor modulators (SERMs) delivery in the effective treatment of post-menopausal osteoporosis.	Prof.Punna Rao	Pharmacy	783000	3years	2011-2014

11	Exploring sequence and structural features of the catalytic b/x loops in TIM barrel proteins: Implications for protein engineering.	Prof.Ramakrishna Vadrevu	Biological Sciences	826800	3years	2011-2014
12	Synthesis and pharmacological evaluation of bishomo (hetero) arylpiperazines as atypical antipsychotic agents	Prof. K.V.G. Chandrasekhar	Chemistry	644300	3years	2011-2014
13	Study of cosmological models in bimetric theory of graavitation	Dr. Pradyumn Kumar Sahoo	Mathematics	180000	2years	2012-2014
14	Chemically modified polymeric adsorbents for the removal and recovery of precious metal palladium from industrial wastes	Prof. N. Rajesh	Chemistry	470000	3years	2012-2015
15	On the formation of Dwarf Elliptical Galaxies	Dr.Rahul Nigam	Physics	540000	2years	2013-2015
16	Application of Micro-Environment Property Desriptor to Study Free Energy Changes in Amyloidogenic Protein Aggregation	Dr. Debashree Bandyopadhyay	Biological Sciences	540000	2years	2013-2015
17	Study on cosmological models of the universe with wet dark fluid in alternative theories of Gravitation	Dr. Bivudutta Mishra	Mathematics	190000	2years	2013-2015

## Department of Science and Technology

Sl No.	Title of the Project	Principal Investigator	Department	Sanctioned Amount	Duration	Year
1	Chemically modified adsorbents for the preconcentration and separation of toxic heavy metal ions from industrial wastes and environmental samples	Prof. N Rajesh	Chemistry	2251100	3years	2008-2011
2	Polymorphism studies of the malarial vacine candidate serine repeat antigen (SERA) in Indian isolates	Prof. Vidya Rajesh	Biological Sciences	1900600	3years	2009-2013
3	Investigations into the Influence of Rare Earth Ion Doping on Structural and Dielectric Properties of Layered Ferroelectric Ceramics by Adopting Molten Salt Synthesis Route	Dr. Harihara Venkatraman	Physics	1993000	3years	2010-2013

4	Synthesis of some selected nitrogen based heterocycles as Potential Anti-tubercular agents	Dr. Anupam Bhattacharya	Chemistry	1878000	3years	2010-2013
5	Synthesis and Pharmacological Evaluation of Novel Heterocyclic Compounds for the Treatment of Schizophrenia	Prof. K.V.G. Chandrasekhar	Chemistry	1828000	3years	2010-2013
6	Structure based rational design and synthesis of mycobacterium tuberculosis pantothenate synthetase inhibitors	Prof. D Sriram	Pharmacy	2380000	3years	2010-2013
7	Optical and Semiconducting molecular materials based on tetrathiafulvalene, tetracyanoquinodimethane and their polymer templates	Prof.Jayanti Subbalakshmi	Chemistry	2225000	3years	2010-2013
8	Novel synthetic approach to p-type (Nano) Transparent Semiconducting Oxides of Delafossite type structure by soft chemistry routes and the study of their properties	Prof.R.Srinivasan	Chemistry	2180000	3years	2010-2013
9	Investigation on synthetic and catalytic reactions of unsaturated organophosphonates with oxaziridines	Prof.Manab Chakravarthy	Chemistry	1993000	3years	2011-2014
10	Development, synthesis and testing of novel HIV drugs	Prof. D Sriram	Pharmacy	3184500	3years	2011-2014
11	Adsorption and freezing of heteropolymers on disordered surfaces: a model for biomimetic recognition	Prof. K Sumithra	Chemistry	3362400	3years	2011-2014
12	Molecular studies on T3 binding domain of the thyroid hormone receptors in autistic individuals	Prof. Vidya Rajesh	Biological Sciences	2374400	3years	2011-2014
13	Drug discovery of inhibitors of the Protease of Peripheral Macrophages and Microglial cells in spinal cord for the treatment of neuropathic pain	Prof. P Yogeewari	Pharmacy	3978300	3years	2012-2015

14	Consequences of cellular crowding in structure stability and folding of a TIM barrel protein	Prof.Ramakrishna Vadrevu	Biological Sciences	3737000	3years	2012-2015
15	Understanding Material Properties and Possible Forming Behavior (Using FEM) of titanium Grade-5 materail at Elevated Temperatures	Prof. A.K.Gupta	Mechanical Engineering	1015000	3years	2012-2015
16	Ultracold chemistry in the early universe	Dr.Subhas Ghosal	Chemistry	2160000	3years	2012-2015
17	Transcutaneous delivery of macromolecules using layer-by-layer asembly to treat skin conditions	Dr. Vamsi Krishna Venuganti	Pharmacy	2300000	3years	2012-2015
18	Design, Characterization and Pharmacokinetic Evaluation of Nanocarriers for Antiretroviral Drug Delivery in the Effective Treatment of HIV/AIDS	Prof.Punna Rao	Pharmacy	2310000	3years	2012-2015
19	Laboratory investigation ad field application towards the effective defluoridation of water using appropriately tailored sorbents	Prof. N. Rajesh	Chemistry	2667000	3years	2012-2015
20	Fourier analysis and development of two-dimensional finite element schemes for shallow water equations and transport related systems	Prof. Jagadeesh Anmala	Civil Engineering	1100000	3years	2012-2015
21	Development of new antiepileptic leads to suppress hippocampal leads to suppress hippocampal epileptic seizures	Prof. P. Yogeeswari	Pharmacy	774000	3years	2012-2015
22	Role of adipose in ethanol-induced tissue injury	Dr.Palash Mandal	Biological Sciences	2500000	3years	2013-2016
23	Development of suitably customized polymers and clay based adsorbents for the effective removal of chromium from e-waste	Prof. N. Rajesh	Chemistry	4282000	3years	2013-2016
24	Delineating the impact growth promoting rhizobacteria on plant polyamine metabolism: novel insights in to plant –PGPR interactions	Dr.Sridev Mohapatra	Biological Sciences	2500000	3years	2013-2016

25	Investigation of magneto-optical effects in composite magneto plasmonic nanostructures for sensing application	Prof.Kannan Ramaswamy	Physics	3270000	3years	2013-2016
26	Development of Synthetic Resin Product	Prof.Srikanta Dinda	Chemical Engineering	2200000	3years	2013-2016
27	Transcutaneous delivery of liposomesirna complex to treat skin cancer	Dr. Vamsi Krishna Venuganti	Pharmacy	2926000	3years	2013-2016
28	Development of a cost - effective membrane and DNA chip-based methods for detection of mutations associated with Multiple Drug Resistant-Tuberculosis	Dr. K.Nagamohan	Biological Sciences	6916000	3years	2013-2016
29	Development of magnetoimpedance sensor for biocells detection	Dr. V Satyanarayana Murthy	Physics	2268000	3years	2012-2016

## Council of Scientific and Industrial Research

Sl No.	Title of the Project	Principal Investigator	Department	Sanctioned Amount	Duration	Year
1	Synthesis and Neuropharmacology of 4-amino butyric Acid analogues	Prof. P Yogeewari	Pharmacy	688239	2years	2008-2009
2	Multi objective Optimization in Irrigation planning using Evolutionary Algorithms	Dr.K.S.Raju	Civil Engg.	181333	1year	2008-2009
3	Design and Synthesis of New Inhibitors of mtb GlmU by modeling & high throughput docking	Prof. D Sriram	Pharmacy	3170000	3years	2010-2013
4	Development of Novel DNA Gyrase Inhibitors Against Mycobacterium tuberculosis and other Non-tubercular Mycobacterial Infections	Prof. D Sriram	Pharmacy	1676000	3years	2010-2013
5	Multiobjective reservoir optimisation using swarm intelligent algorithms	Prof. A. Vasan	Civil Engineering	1170000	3years	2011-2014
6	Design and synthesis of pharmacophoric hybrids as potential leads for the treatment of neuropathic pain	Prof. P Yogeewari	Pharmacy	2028000	3years	2012-2015

7	Novel Molecular Mechanism Involving Adenosine and Adenosine Receptors in Acceleration of Alcohol Induced Hepatic Fibrosis	Dr.Palash Mandal	Biological Sciences	2407000	3years	2012-2015
8	Development of electrostatic Nano-Solid Lubricant Coated Tools for Sustainable Machining	Dr. N Suresh Kumar Reddy	Mechanical Engineering	1852000	3years	2012-2015
9	Investigation of Natural Coumarinolignans and Their Newer Synthetic Analogs as Cyclooxygenase (COX-2) and Tumor necrosis factor (TNF-a) inhibitory agents in Rheumatoid Arthritis	Dr.Sajeli Begum	Pharmacy	2102000	3years	2012-2015
10	Development and analysis of novel inhibitors against M. tuberculosis GImU.	Prof.D.Sriram	Pharmacy	3956820	3years	2012-2015
11	Multicriterion Analysis for ranking of Various General Circulation Models to Study Water Resources of India	Prof. K . Srinivasa Raju	Civil Engineering	1622000	3 years	2012-2015

### Department of Atomic Energy

Sl No.	Title of the Project	Principal Investigator	Department	Sanctioned Amount	Duration	
1	Dynamic Strain Ageing Behavior in Austenitic Stainless Steel	Prof. A.K.Gupta	Mechanical Engineering	1015000	3years	2009-2013
2	Site-specific immobilization of a single DNA molecule	Prof. Souri Banerjee	Physics	1950500	3years	2011-2014.

### Indian Council of Medical Research

Sl No.	Title of the Project	Principal Investigator	Department	Sanctioned Amount	Duration	Year
1	Design and Synthesis of Novel Non-Nucleoside Reverse Transcriptase Inhibitors for the Treatment of Aids and Opportunistic Infections associated with Aids including Tuberculosis	Prof. D Sriram	Pharmacy	150541	1year	2008-2009

2	Genetic basis of alcohol induced pancreatic disorders	Prof.Suman Kapur	Biological Sciences	3612000	3years	2007-2011
3	Reducing gender discrimination and improving adolescent health in Jhunjhunu, Loharu and Churu districts	Prof.Suman Kapur	Biological Sciences	2614048	3years	2008-2011
4	Functional mutation in the opiate receptors and their impact on immune cell function	Prof.Suman Kapur	Biological Sciences	5576660	3years	2010-2013
5	Identification of genetic loci associated with predisposition for Type 2 diabetes mellitus (T2DM) in Indians from Rajasthan	Prof.Suman Kapur	Biological Sciences	3223734	3years	2009-2013
6	Development of Newer Isoniazid Derivatives for the Treatment of Tuberculosis and Multi-drug Resistant Tuberculosis	Prof. D Sriram	Pharmacy	1712474	3years	2011-2014
7	Developing low cost POC device for detection of blood glucose levels	Prof.Suman Kapur	Biological Sciences	3334977	3years	2011-2014

## Department of Biotechnology

Sl No.	Title of the Project	Principal Investigator	Department	Sanctioned Amount	Duration	
1	Design and Synthesis inhibitors of various enzymes of mycobacterium tuberculosis like DNA, GYRASE and TOPOISOMERASE - 1	Prof. D Sriram	Pharmacy	3956000	3years	2008-2012
2	Discovery of Novel Modulators of NAD(+) Dependent Protein Deacetylase SIRT 1 for the treatment of Various Human Disorders	Prof P. Yogeeswari	Pharmacy	2977000	3years	2011-2014
3	Structure-guided design of novel non-peptidic noncovalent selective inhibitors of the spinal micgorglial cathepsins for the treatment of neuropathic pain	Prof P. Yogeeswari	Pharmacy	3112000	3years	2011-2014
4	Loop Modelling in nuclic acid structure	Dr. G. Savitha	Biological Sciences	2777600	3years	2011-2014
5	Structure-guided Design of New Antibacterial Agents against Dormant Mycobacterium Tuberculosis	Prof.D.Sriram	Pharmacy	9064000	3years	2010-2014

6	Structure based rational design and synthesis of inhibitors for various Enzymes of HIV	Prof.D.Sriram	Pharmacy	5617400	3years	2012-2015
7	Bioconversion OfCoal Rejects To Biogas And Humic Acid	Dr. Asma Ahmed	Chemical Engineering	600000	1year	2015-2016
8	Synthesis & Biological activity of various triazoles as effective antifungal agents	Prof. K.V.G. Chandrasekhar	Chemistry	1372400	3years	2012-2015

### Aditya Birla Group

Sl No.	Title of the Project	Principal Investigator	Department	Sanctioned Amount	Duration	Year
1	Reducing ruthenium crossover in Direct Methanol fuel cells	Dr.Balaji Krishna Murthy	Chemical Engineering	1200000	3years	2011-2014
2	Experimental and numerical investigations on sandwiched modular multilayer self computed cement concrete pavements	Dr.V.R.Vinayaka Rao & Mr.M.V.N.Sivakumar	Civil Engineering	1000000	3years	2011-2014
3	Structure Based Rational Design and Synthesis of Inhibitors for Various Enzymes of Mycobacterium tuberculosis	Prof. D Sriram	Pharmacy	1800000	3years	2011-2014

### Seed Grant

Sl No.	Title of the Project	Principal Investigator	Department	Sanctioned Amount	Duration	Year
1	Development of innovative Electerostatic Micro-solid lubricant coated tools for Green Machining	Prof. N. Suresh Kumar Reddy	Mechanical Engg.	1180000	2years	2011-2013
2	Developing Supramolecular Complexes for Solar Energy Conversion and hydrogen generation	Dr. R. Krishnan	Chemistry	3980000	2years	2011-2013
3	Elucidating signaling mechanisms in plant responses to drought stress mitigating by beneficial soil bacteria	Dr. Sridev Mohapatra	Biological Sciences	1370000	2years	2012-2014
4	Development of personalized DNA markers in breast cancer patients for early diagnosis and prognosis using a non-invasive method	Dr. K. Nagamohan	Biological Sciences	1350000	2years	2012-2014



## Indian Council for Social Science Research

Sl No.	Title of the Project	Principal Investigator	Department	Sanctioned Amount	Funding Agency	Year
1	An evaluation of Development Policies for Tribals in Andhrapradesh and Dahod Tribles in Gujarat	Dr. Meera Lal	Economics	620000	1year	25012-2013

## Defence Research & Development Organisation

Sl No.	Title of the Project	Principal Investigator	Department	Sanctioned Amount	Duration	Year
1	Variable Data Rate Digital Demodulator for 64QAM on virtex -5 FPGA	Prof. M B Srinivas	EEE	990000	2years	2011-2013

## Department of Electronics & Information Technology

Sl No.	Title of the Project	Principal Investigator	Department	Santioned Amount	Duration	Year
1	Automated Detection of security and privacy threats in peer to peer networks	Dr. Chittaranjan Hota	CSIS	6195000	2012-2015	2012-2015

## Consultancy Projects

Sl No.	Title of the Project	Principal Investigator	Department	Sanctioned Amount	Duration	Year
1	Artificial Neural Networks for water Resources Planning : an Innovative Approach	Prof.K.S.Raju	Civil Engineering	462000	1year	2008
2	Assessment of Technology and upscaling of polylactic acid (PLA) Granules Production	Dr. Aradhana Srivastava	Chemical Engineering	71500	1year	2008-2009
3	Matlab Modelling of a novel battery systems for hyderabad batteries Limited	Dr. U. M. Rao	EEE	200000	1year	2013-2014
4	Industry sponsored, Ranbaxy Research labs, Gurgaon	Prof.Suman Kapur	Biological Sciences	445000	2years	2011-2013
5	Development of novel antitubercular drugs ASTRA ZENECA	Prof. D Sriram	Pharmacy	1111111	3years	2010-2013
6	Arogya-Health care Delevering program	Prof.Suman Kapur	Biological Sciences	208914	2years	2012-2014

7	Collaborating for quality teaching and research in the area of computational mechanics	Dr.Chandu Parimi	Civil Engineering	388350	1year	2013-2013
8	Development of an indigenous chip for testing antibiotic sensitivity of pathogens found in human urinary tract	Prof.Suman Kapur	Biological Sciences	8251692	4years	2008-2014
9	Development of Novel anti-inflammatory agents, Incozen Therapeutics Ltd., Hyderabad.	Prof. P. Yogeeswari	Pharmacy	2100000	3years	2011-2014
10	Development of Indigenous POC device micro channel / fluidic device for estimation of lipid profile in human plasma / serum	Prof.Suman Kapur	Biological Sciences	4666700	2years	2013-2015
11	Indian institute of Biotechnology pvt. Ltd	Prof. M B Srinivas	EEE	320000	2years	2012-2013
12	Standardization of ELISA for b - endorphin	Prof. Suman Kapur	Biological Sciences	610000	2years	2012-2013
13	Flotation cell process modelling	Prof. Jeevan Jaidi	Mechanical Engineering	1566048	3months	2014
14	Aryogen Biopharma Pharmaceutical Company	Dr. Asma Ahmed	Chemical Engineering	455000	1year	2013-2014
15	Algorithms for narrow bandwidth emitter location (ANABEL)	Prof. Yoganadam	EEE	997593	9months	2015-2016