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| **SL.** |  |  | **Funding** | **Amount** | **Status** |  |
| **Name of the staff** | **Title of the Project** | **(On-going /** |  |
| **No.** | **Agency** | **sanctioned** |  |
|  |  | **Completed)** |  |
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|  |  | **Dept. of Automobile/Mechanical Engineering** | |  |  |  |
|  |  | |  |  |  |  |
|  | Dr. T. Senthilkumar, Associate | Investigations on Fatigue behavior of Friction Stir | CSIR New |  | **(2010-12)** |  |
| **1** | Prof & Head, Dept of Auto & | Welded Age Hardenable High Strength Aluminimum | **1365000.00** |  |
| Delhi | **Completed** |  |
|  | Mech Engg, AUT | Alloy |  |  |
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|  |  |  |  |  |  |  |
|  | Dr. M. Chandrasekar, Asst | Passive Cooling of Standalone Flat PV Module With | CTDT, |  | **(2013-14)** |  |
| **2** | Prof Dept of Auto & Mech | Heat Spreaders in Conjunction With Cotton Wick | **50000.00** |  |
| Chennai | **Completed** |  |
|  | Engg, AUT | Structure |  |  |
|  |  |  |  |  |
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|  |  | **Dept. of Biotechnology** |  |  |  |  |
|  |  |  |  |  |  |  |
| **1** | Head, Dept. of Biotech, AUT | Fist Programme | DST, New | **1950000.00** | **On-going** |  |
| Delhi. |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **2** | Dr. P. Rajaguru, Prof. & Head, | Designing A Multi Target Rnai Effector Molecule For | DBT | **3071000.00** | **(2007-10)** |  |
| Dept. of Biotech, AUT | Simultaneous Silencing Of Multiple Genes | New Delhi | **Completed** |  |
|  |  |  |
|  |  |  |  |  |  |  |
|  | Dr. P. Rajaguru, Prof. & Head, | Silencing of ER stress response genes using RNA | DST |  | **(2009-12)** |  |
| **3** | interference to protect hyperglycemia induced | **2886400.00** |  |
|  | Dept. of Biotech, AUT | pancreatic B-cell death | New Delhi |  | **Completed** |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  | Screening and characterization of active constituents |  |  |  |  |
| **4** | Dr. P. Rajaguru, Prof. & Head, | from an antidibetic plant Gymnema Montanum and its | DST New | **258500.00** | **(2009-11)** |  |
| Dept. of Biotech, AUT | pharmacological evaluation using genomic and | Delhi. | **Completed** |  |
|  |  |  |
|  |  | proteomic approach |  |  |  |  |
|  |  |  |  |  |  |  |
| **5** | Dr. P. Rajaguru, Prof. & Head, | Simultaneous silencing of multiple Pro-angiogenic | DBT | **7266000.00** | **On-going** |  |
| Dept. of Biotech, AUT | factors to suppress tumor-induced angiogenesis |  |
|  | New Delhi |  |  |  |
|  |  |  |  |  |  |
| **6** | Dr.S.John Vennison, Asst | Transgenic Bacillus Sphaericus for effective Mosquito | DBT | **1740000.00** | **(2007-10)** |  |
| Prof, Dept. of Biotech, AUT | Control | New Delhi | **Completed** |  |
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|  | Dr.S.John Vennison, Asst | Cloning and expression of pyruvate decarboxylase and |  |  | **(2008-11)** |  |
| **7** | alcoholdehdrogenase gene in to cellulosic ethanol |  | **1621000.00** |  |
| Prof, Dept. of Biotech, AUT | DRDO | **Completed** |  |
|  | production |  |  |
|  |  | New Delhi. |  |  |  |
|  |  |  |  |  |  |
| **8** | Dr.S.John Vennison, Asst | Cloning and Expression of NS-1 and prM proteins for | DST | **2240900.00** | **(2009-12)** |  |
| Prof, Dept. of Biotech, AUT | the diagnosis of dengue infections | New Delhi | **Completed** |  |
|  |  |  |
|  |  |  |  |  |  |  |
|  | Dr. S. John Vennison, Asst. | Development of a recombinant NS1 antigen based | DST |  |  |  |
| **9** | diagnostic kit for the early detection of dengue virus | **4242000.00** | **On-going** |  |
| Prof., Dept. of Biotech, AUT | New Delhi |  |
|  | infection |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | Dr. S. John Vennison, Asst. | Recombinant Antigens as a Tool for Analyzing | ICMR |  |  |  |
| **10** | Antibody Response Among Dengue Patients to | **2584000.00** | **On-going** |  |
| Prof., Dept. of Biotech, AUT | New Delhi |  |
|  |  | Understand Pathology and Pathogenesis |  |  |  |  |
|  | Dr.P.Sureshkumar, Asst Prof., | In vitro regeneration of selected endangered medicinal | DST |  | **(2008-11)** |  |
| **11** | Dept. of Biotech, AUT | plants activity guided extraction, comparative | New Delhi | **2030400.00** | **Completed** |  |
|  |  | assessment of antidiabetic and antioxidant activity |  |  |  |  |
|  |  |  |  |  |  |  |
|  | Dr.V.Pugalenthi, Asst Profr, | Enhancement of bio hydrogen production using | DBT |  | **(2009-12)** |  |
| **12** | integrated nanoparticle-catalyzed fermentation MEC | **2425000.00** |  |
| Dept. of Biotechnology, AUT | New Delhi | **Completed** |  |
|  |  | and process modeling |  |  |  |  |
| **13** | Dr. B. Anandaraj, Asst. Prof., | Marine Nano factories – Sense and Sensing | DST | **2500000.00** | **On-going** |  |
| Dept. of Biotech, AUT | New Delhi |  |
|  |  |  |  |  |  |  |
|  | Dr. P. S. Sudhakar Gandhi, | Structural Exploration of Recombinant Mouse Seminal | DBT |  |  |  |
| **14** | Asst. Prof., Dept. of Biotech, | **2987000.00** | **On-going** |  |
| Vesicle Spink-3 Receptor on Sperm Acrosome | New Delhi |  |
|  | AUT |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | Dr. P. S. Sudhakar Gandhi, | Mouse Seminal Vesicle Sulfhydryl Oxidase (SOx): |  |  |  |  |
|  | Cloning and Expression of Recombinant Enzyme to | DST |  |  |  |
| **15** | Asst. Prof., Dept. of Biotech, | **3470000.00** | **On-going** |  |
| Identify Its Cross Linking Substrate among Seminal | New Delhi |  |
|  | AUT |  |  |  |
|  | Vesicle Proteins |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **16** | Dr. S. Geetha, Asst. Prof., | Green Synthesis of Gold Nanoparticle Using Algal Species | CTDT, | **50000.00** | **(2013-14)** |  |
| Dept. of Biotech, AUT | and Evaluation of its Anticancer Activity | Chennai | **Completed** |  |
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**Dept of CSE/IT**

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| --- | --- | --- | --- | --- | --- | --- |
| **1** | Dr.R.Krishnamoorthy Prof. | Design of Orthogonal Polynomials based Transform | UGC | **990000.00** | **(2007-10)** |  |
| Dept. of IT, AUT | Coding Technique for Color images & Video | MRP | **Completed** |  |
|  |  |  |
|  |  |  |  |  |  |  |
| **2** | Dr.R.Krishnamoorthy Prof. | Thin Client Technology Laboratory | MODROBS | **785000.00** | **(2008-11)** |  |
| Dept. of IT, AUT | New DelhiI | **Completed** |  |
|  |  |  |  |
|  |  |  |  |  |  |  |
| **3** | Dr.R.Krishnamoorthy Prof. | Design of New Iris Recognition System for personal | MIT | **3578000.00** | **(2009-12)** |  |
| Dept. of IT, AUT | Identification with Orthogonal Polynomials Model | New Delhi. | **Completed** |  |
|  |  |  |
|  |  |  |  |  |  |  |
|  | Dr.R.Krishnamoorthy Prof. | Design of New Iris Recognition System for Personal |  |  | **(2009-12)** |  |
| **4** | AUT-Thentication with Orthogonal Polynomials | AICTE New | **460000.00** |  |
| Dept. of IT, AUT | **Completed** |  |
|  | Model | Delhi. |  |  |
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|  |  | **Dept of Petrochemical Technology** |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  | Studies on removal of phenolic compounds from |  |  |  |  |
| **1** | Dr. S. Venkatesan, Asst Prof, | acqeous media and industrial effluents using room | DST | **2004000.00** | **On-going** |  |
| Dept. of PetroTech, AUT | temperature ionic liquids (RTILS) and modeling of the | New Delhi. |  |
|  |  |  |  |
|  |  | process |  |  |  |  |
|  |  |  |  |  |  |  |
|  | Dr. M. Arulmozhi, Asst Prof, | Studies on Removal of Phenolic Compounds from | DST |  |  |  |
| **2** | Aqueous and Industrial Effluents Using Biosorbents | **1880000.00** | **On-going** |  |
| Dept of Petro Tech, AUT | New Delhi |  |
|  | and Ionic/Bio Surfactants and Modeling of the Process |  |  |  |
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|  |  | **Dept. of Pharmaceutical Technology** |  |  |  |  |
|  |  |  |  |  |  |  |
|  | Dr.K.Ruckmani.,Prof and | Nanocomplexes for the Targeted Drug Delivery to the | DST, New |  | **(2009-12)** |  |
| **1** | Head, Dept of PharmaTech, | **3214400.00** |  |
| Inflamed Site of Lungs | Delhi. | **Completed** |  |
|  | AUT |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | Dr.K.Ruckmani.,Prof and | National facility for drug development for academia, | DST, New |  |  |  |
| **2** | Head, Dept of PharmaTech, | **60000000.00** | **On-going** |  |
| pharmaceutical and allied industries | Delhi. |  |
|  | AUT |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | Dr.K.Ruckmani.,Prof and | Isolation Characterization and formulation studies of | DBT |  |  |  |
| **3** | Head, Dept of PharmaTech, | Gums obtained from Albizia stipulate and Prunus | **2940000.00** | **On-going** |  |
| New Delhi |  |
|  | AUT | Cerasoides of Mizoram |  |  |  |
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|  | Dr .N Subramanian, Asst | Development, characterization and biological | DST |  | **(2008-11)** |  |
| **4** | Prof., Dept of PharmaTech, | evaluation of microemulsion and lipid dispersion for | **2077000.00** |  |
| New Delhi | **Completed** |  |
|  | AUT | drug delivery and detoxification |  |  |
|  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | Dr .N Subramanian, Asst | Development of Biodegradable Temperature and pH | DBT |  |  |  |
| **5** | Prof., Dept of PharmaTech, | Responsive Hybrid Polymer-Peptide System for | **5845000.00** | **On-going** |  |
| New Delhi |  |
|  | AUT | Efficient Intraocular Delivery of Drug |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | Dr .N Subramanian, Asst | Targeted Delivery of Camptothecin Using Polymer | DST |  |  |  |
| **6** | Prof., Dept of PharmaTech, | Stabilized Nanoemulsions for Improved Treatment of | **2558000.00** | **On-going** |  |
| New Delhi |  |
|  | AUT | Breast Cancer |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | Dr A. Puratchikody, Asst | Design, Synthesis and Evaluation of Novel COX – 2 | DST |  |  |  |
| **7** | Prof., Dept of Pharma Tech, | Inhibitors of Dibromotyrosine Derivatives as Anti- | **3042000.00** | **On-going** |  |
| New Delhi |  |
|  | AUT | inflammatory Drugs |  |  |  |
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|  |  |  |  |  |  |  |
|  |  | Design, Construction of Fe-drug nano complex loaded |  |  |  |  |
| **8** | Dr. S. Latha, Asst Prof., Dept | nano / micro bullets using a novel hybrid Technology | DRDO New | **1209880.00** | **(2009-12)** |  |
| of Pharma Tech, AUT | for magnetic targeted therapy and its comparative with | Delhi | **Completed** |  |
|  |  |  |
|  |  | special emphasis on rheumatoid arthritis |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  | Systematic exploration and pharmacological appraisal |  |  |  |  |
| **9** | Dr. P. Selvamani, Asst. Prof., | of active botanical ingredient (fraction) isolated from | DST | **2685000.00** | **On-going** |  |
| Dept of Pharma Tech, AUT | herbs as possible adjunct / alternate therapeutic aid for | New Delhi |  |
|  |  |  |  |
|  |  | dementia associated with Alzheimer’s disease |  |  |  |  |
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|  |  | **Dept of Chemistry** |  |  |  |  |
|  |  |  |  |  |  |  |
|  | Dr. K.Jothivenkatachalam, | Photo-redox chemistry of Cobalt (III) ammine |  |  |  |  |
|  | complexes coordinated to unsaturated carboxylic acids | DST New |  |  |  |
| **1** | Asst Prof, Dept. of Chemistry, | **2026200.00** | **On-going** |  |
| and macrocycles: Studies on product analysis and | Delhi. |  |
|  | AUT | photochemical pathways. |  |  |  |  |
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|  | Dr. K. Nehru, Asst. Prof. Dept | Asymmetric Transesterification of Organic | CSIR |  |  |  |
| **2** | Compounds Using The Combination Of Enzyme-Metal | **1600000.00** | **On-going** |  |
|  | of Chemistry, AUT | Catalyst | New Delhi |  |  |  |
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|  | Dr. V. K. Senthurpandian, | Removal of Dyes from Effluents Using Indigenously | CTDT, |  | **(2013-14)** |  |
| **3** | Asst. Prof. Dept of Chemistry, | **50000.00** |  |
| Prepared Activated Carbons | Chennai | **Completed** |  |
|  | AUT |  |  |  |  |  |
| **4** | Dr. N. R. Sasirekha, Asst. | Novel Mesoporous Materials for Dry Reforming of | DST New | **2478000.00** | **On-going** |  |
| Prof. Dept of Chemistry, AUT | Methane | Delhi. |  |
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| **5** | Dr. V. Thangaraj, Asst. Prof. | Synthesis of Compositionally Modulated Multilayered | DST New | **2450000.00** | **On-going** |  |
| Dept of Chemistry, AUT | Alloys by Electrochemical Deposition” | Delhi. |  |
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|  |  | **Dept of Physics** |  |  |  |  |
| **1** | Dr.S. Brahadeeswaran, Asst | Growth and characterization of DAST and BNA | DST | **2979204.00** | **On-going** |  |
| Prof, Dept. of Physics, AUT | organic single crystals for terahertz applications | New Delhi |  |
|  |  |  |  |
|  |  |  |  |  |  |  |
|  | Dr.S. Brahadeeswaran, Asst | Ultra-fast transient spectroscopy to probe charge carrier | DST |  |  |  |
| **2** | dynamics in molecular semiconductor crystals- An | **1847200.00** | **On-going** |  |
| Prof, Dept. of Physics, AUT | New Delhi |  |
|  | indigenous and cost-effective approach |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **3** | Dr. G. Senguttuvan, Asst Prof, | Studies on Preparation of Nio Doped P-type Azo | CTDT, | **50000.00** | **(2013-14)** |  |
| Dept. of Physics, AUT | Nanoparticle – Polymer Thin Films for Nems | Chennai | **Completed** |  |
|  | Applications |  |  |
|  |  |  |  |  |  |
| **4** | Dr. I. Vetha Potheher, Asst | Development of Highly Efficient Mannish Base Organic | CTDT, | **50000.00** | **(2013-14)** |  |
| Prof, Dept. of Physics, AUT | NLO Crystals for Electro-optic Applications | Chennai | **Completed** |  |
|  |  |  |
|  |  |  |  |  |  |  |
| **5** | Dr. A. Viswanathan, Asst Prof, | Laser Cladding of ARSI316L,Stainless Steel With Rare | CTDT, | **50000.00** | **(2013-14)** |  |
| Dept. of Physics, AUT | Earth Oxide for Wear Resistive Applications | Chennai | **Completed** |  |
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