

3.2.2 Grants for research projects sponsored by the government sources during the last five years (INR in Lakhs)

| S.No | Name of the Project/ Endowments, Chairs | Name of the Principal Investigator/Co Investigator | Department of Principal Investigator/ Co Investigator | Year of Award | Sanctioned Grants | Duration of the project | Funding Agency |
|--|--|--|---|---------------|-------------------|-------------------------|-------------------------------|
| 1 | Carbon dioxide Fixation by Culturable and non culturable (Metagenomic-Approach) Microbial Community and role of microbe for calcite and biofuel production. | Dr. Shaili Srivastava Nigam PI | Faculty of Science Engineering and Technology/ Amity School of Earth & Environmental Science | 2014-15 | 20 | 3 Year | DST(SERB) Government of India |
| 2 | Role of Protein kinas a signalling in androgen mediated gene response | Dr. Gargi Bagchi, PI Prof. Rajendra Prasad Co. PI | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2014-15 | 46.8 | 3 Year | DBT Government of India |
| 3 | India-European Union (EU) Research Project" Safeguarding Water Resource in Indian with Green and Sustainable Technology:"(SWINGS) under India-European Union Science & Technology Copperation Agreement. | PI- Dr. AK Raghav, PI Dr. Nadeem Khalil | Faculty of Science Engineering and Technology/Amity School of Engineering & Technology | 2014-15 | | 4 Year | DST Government of India |
| 4 | Investigating Aerosol-Cloud Forced Climate Change over India: A Multi-Satellite Approach | PI Dr. Rohini L. Bhawar Co-PI Prof. P.C.S Devara | Faculty of Science Engineering and Technology/Amity Centre for Ocean-Atmospheric Science and Technology | 2014-15 | | 3 Years | Ministry of Earth Science |
| Total Grants sanctioned 2014-15 | | | | | 66.8 | | |
| 5 | Understanding the molecular Bases of resistance to septoria for wheat improvement in Ethiopia | Tilahun Mekonneh Negassa | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2015-16 | 3 | 6 Month | NAMS & T Center |
| 6 | Silica coated porous zinc oxide nanostructure : A poterit nanocomposit for development ofslow release agrochemicals | PI Dr. Nitai Debnath | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2015-16 | 26.45 | 3 Year | DST(SERB) Government of India |
| 7 | Development Of Multiferroic Magnetolectric Materials And Dilute Magnetic Semiconductors For Multifunctional Applications | PI- Dr. Shalndra Kumar | Faculty of Science Engineering / Amity School of Applied Science | 2015-16 | 11 | 3 Year | DST Government of India |
| 8 | Ion beam induced modifications in MgO based nanophosphors: Luminescence and related studies. | Dr. Ankush Vij | Faculty of Science Engineering / Amity School of Applied Science | 2015-16 | 6.03 | 3 Year | IUAC, New Delhi |
| Total Grants sanctioned 2015-16 | | | | | 46.18 | | |
| 9 | Identification of cGAMP specific phoshodiesterase from Liesnmania donavani and its role in virulence | Dr. Krishna Murari Sinha | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2016-17 | 32.49 | 3 Year | DBT Government of India |
| 10 | Unraveling the Role of mTORC2 in Regulation of Sphingolipid Biosynthesis in Breast Cancer Progression | PI-Dr Ujjaini Gupta & Co-PI Prof. Rajendra Prasad | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2016-17 | 54.53 | 3 Year | DBT Government of India |

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| 11 | Comparative sphingolipid profiling of breast cancer cell and tissue types for identification of potential metastatic biomarkers | Dr. Ujjaini Das Gupta | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2016-17 | 47.15 | 3 Year | DST(SERB) Government of India |
| 12 | Identify disease gene association using Text mining approach | Dr. Alok Srivastava | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2016-17 | 29.88 | 3 Year | DBT Government of India |
| 13 | Fund for Improvement of S&T infrastructure in University and Higher Education Institution (FIST) Programme-2016 | Prof. Rajendra Prasad | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2016-17 | 165 | 5, Years | DST FIST-2016 Government of India |
| 14 | Developments of Nanophosphors for solid state lighting-Electronic Structure and Luminescence study | Dr. Ankush Vij | Faculty of Science Engineering / Amity School of Applied Science | 2016-17 | 13.05 | 3 Year | DAE-CSR Indore |
| 15 | Insight into the mechanism of drugs transport mediated by multidrug transporters of candida-[14117] | Prof. Rajendra Prasad | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2016-17 | 74.72 | 3 Year | DBT Government of India |
| 16 | Comprehensive Omics studies to understand the biology of drug resistant Mycobacterium tuberculosis clinical isolates from Arunachal Pradesh | Dr. Zeeshan Famita | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2016-17 | 11.9 | 3 Year | DBT Government of India |
| 17 | Developing rapid sensitive high throughput user friendly kit for routine detection of androgens and antiandrogens in water | Dr. Gargi Bagchi, PI Dr. Rajendra Prasad Co. PI | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2016-17 | 32.2 | 3 Year | DST Government of India |
| Total Grants sanctioned 2016-17 | | | | | 460.92 | | |
| 18 | Role of Cyclic di-AMP in ribosome biogenesis, 16S rRNA methyltransferase (RsmD) function and drug resistance in Mycobacterium. | Dr. Krishina Murari Sinha. | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2017-18 | 35.36 | 3 Year | DST(SERB) Government of India |
| 19 | Evaluation antimycobacterial potential of Unani drugs Qurs-e-Sartan Kafoori and Sharbat-eEjaz-A Mechanistic Approach | Dr. Zeeshan Fatima | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2017-18 | 47.89 | 3 Year | AYUSH Government of India |
| 20 | Novel potential antifungal drug active against multidrug resistant yeast from the candida genus. | PI - Dr. Rajendra Prasad & Dr. Slawomir Milewski | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2017-18 | 26.31 | 3 Year | Indo-Polish DST Government of India |
| 21 | Monitoring Pollutants, toxins and microbial community in the Chambal river to predict its environment and social consequences | Dr. Purnima Khanna | Faculty of Science Engineering and Technology/ Amity School of Earth & Environmental Science | 2017-18 | 33.3 | 3 Year | DST(SERB) Government of India |
| 22 | Development of an Immunosensor for Detection of Infectious Disease by NanoWire Field Effect Transistor coupled with Nanoparticles | Dr. Ranjita Ghosh Moulick | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2017-18 | 41 | 3 Year | DST(SERB) Government of India |
| 23 | Fabrication of high performance thermally, wind and sound driven flexible nanogenerator for a wide range application | Dr. Brijesh Kumar | Faculty of Science Engineering and Technology/Amity Institute of Nano Technology | 2017-18 | 38.66 | 3 Year | DST(SERB) Government of India |


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| 24 | Study of in depth genetic heterogeneity with respect to resistance and compensatory adaption of MDR Mtb clinically strains inside BM-Mesenchymal stem cells circulating in the North East Region (22952) | Prof. Rajendra Prasad | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2017-18 | 50.2 | 3 Year | DBT Government of India |
| 25 | Development of Lead Free Piezoelectric materials for Energy Harvesting Applications | PI- Dr. Shalndra Kumar | Faculty of Science Engineering and Technology/Amity School of Earth & Environmental Science | 2017-18 | 13.05 | 3 Year | UGC-DAE, CSR |
| 26 | Characterization of Materials for eht Luminescence based Applications | Dr. Ankush Vij | Faculty of Science Engineering / Amity School of Applied Science | 2017-18 | - | 5 Year | KIST |
| 27 | Luminescence Studies of swift heavy ion irradiated rare earth doped MgO based nanophosphors | Co-PI Dr. Ankush Vij | Faculty of Science Engineering / Amity School of Applied Science | 2017-18 | - | - | IUAC, New Delhi |
| 28 | Development of Multifunctional magnetic Fe-Al Nanocomposites for high temperature applications | Co-PI Dr. Ranjeet Kr. Brajpuriya | Faculty of Science Engineering and Technology/Amity Institute of Nano Technology | 2017-18 | 4.5 | 3 Year | NP Council of Science and technology |
| Total Grants sanctioned 2017-18 | | | | | 290.27 | | |
| 29 | Kinetic Theory of Electrostatic Waves in Dusty | Dr. Jyotsna Sharma | Faculty of Science Engineering / Amity School of Applied Science | 2018-19 | 11.08 | 3 Year | DST(SERB) Government of India |
| 30 | Alternate splicing in clinical drug resistance in pathogenic candida. | PI- Prof. Rajendra Prasad Co-PI Dr. Ravi Dutta Sharma & Dr. Alok Kr. Mandal (JNU) | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2018-19 | 24.7 | 3 Year | DST(EMR) Government of India |
| 31 | Combating topical & medical device related fungal infections using engineered Anti-fungal hydrogels | PI Dr. Avinash Bajaj (RCB) Co - PI Prof. Rajendra Prasad & Dr. Ujjaini Dasgupta | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2018-19 | 81.56 | 3 Year | DBT Government of India |
| 32 | Unravelling the links between Bioenergetics caonstraints, cell wall integrity and multidrug resistance in fungi. | Prof. Rajendra Prasad & Dmitry Knorre Russia Co PI - Dr. Naseem Akhtar (ICGBE) | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2018-19 | 26.44 | 2 Year | DST-RFBR joint cell Government of India |
| 33 | Mechanism, evolution and pharmacology of multidrug resistance in the emerging fungal pathogen Candida auris among Indian cohort of patients | Prof. Rajendra Prasad | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2018-19 | 71.99 | 3 Year | ICMR- Government of India |
| 34 | Evaluation of the Nrf2 anti-oxidant response element (ARE) pathway as a promising target for alleviating chemoresistance in treatment of Acute Lymphoblastic Leukemia (ALL)" | Dr. Munindra Ruwali | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2018-19 | 15 | 3 Year | SERB-TARE Government of Inida |
| 35 | A Computational Software to find biomarkers using alternative splicing as a tool | PI- Dr. Ravi Datta Sharma, Co-PI Arnab Mukhopadhyay & Dr. Alok Srivastava | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2018-19 | 19.96 | 3 Year | DBT Government of India |


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| 36 | Nanotechnology for Healthcare and Environment - Exploring New Horizons | Prof. AK Yadav (ASAS Dept.) | Faculty of Science Engineering / Amity School of Applied Science | 2018-19 | 84 | 5 Year | DST FIST-2016 Government of India |
| 37 | Fabrication of the portable low cost point-of-care optical device for the screening of thalassemic carrier | Dr. Ranjita Ghosh Moulick | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2018-19 | 14.6 | 2 Year | DST Government of India |
| 38 | Understanding Wnt Pathway and LncRNAs interaction for the identification of novel therapeutic targets in triple-negative breast cancers | Dr. Amit Kumar Pandey | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2018-19 | 51.62 | 3 Year | DST Government of India |
| 39 | Unraveling the molecular mechanism of lncRNAs involvement in Glioblastoma | Dr. Amit Kumar Pandey | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2018-19 | 71.74 | 3 Year | DST-RSF Government of India |
| 40 | मैथिली भाषाक इतिहास | Prof. Udaya Narayana Singh | Faculty of Arts /Amity Centre of Linguistic Studies | 2018-19 | 0.75 | 6 Month | मैथिली-भोजपुरी अकादमी दिल्ली |
| 41 | Identify Disease gene association using Google's Tensor Flow | Dr. Alok Srivastava | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2018-19 | 33.05 | 3 Year | ICMR Government of India |
| 42 | Identifying the role of P53 regulated long non-coding RNAs(LncRNAs)by Cripsr/Cas9 in ovarian cancer | Dr. Amit Kumar Pandey | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2018-19 | 29.92 | 3 Year | ICMR Government of India |
| 43 | Mitigating the impact of antifungal resistance in the emerging pathogen candida auris by piggybacking its peptide permease as an antifungal delivery system | Dr. Atanu Banerjee | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2018-19 | 32.32 | 2 Year | SERB Government of India |
| 44 | A nanobionic approach for enhancement of plant photosynthesis and growth by augmenting chloroplast mediated photon absorption | Dr. Sumistha Das & Dr. Nitai Debnath | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2018-19 | 45.5 | 3 Year | DST-Nanomission Government of India |
| 45 | Experiemental validation of pre-identified candidate genes regulating protein storage in chickpea seeds | Dr. Kaustav Bandyopadhyay | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2018-19 | 31.99 | 2 Year | SERB Government of India |
| 46 | Developing small molecule inhibitors to target non-genomic androgen signaling and elucidating the role of GPR56 in Prostate Cancer | Dr. Gargi Bagch | Faculty of Science Engineering and Technology/Amity Institute of Biotechnology | 2018-19 | 55 | 3 Year | DST(SERB) Government of India |
| Total Grants sanctioned 2018-19 | | | | | 701.22 | | |


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