**DETAILS OF EXTRAMURAL RESEARCH GRANTS**

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| --- | --- | --- | --- | --- | --- |
| **Title of the Project** | **Funding Agency** | **Name of the Principal Investigator** | **Year of Award** | **Total Funds**  **(in Rs.)** | **Duration of the Project** |
| Study and validation of the anticancer potential of prominent Unani medicines and their nanoformulations as an adjuvant against liver carcinoma | CCRUM, Ministry of AYUSH | Dr.Iffat Zareen Ahmad | 2022 | 28,28,800 | 3 years |
| Induction and scaling up *Sida cordifolia* hairy roots in a bioreactor for industrial production of bronchodilator alkaloid-a promising and futuristic approach for development of novel folk medicines with tremendous therapeutic potential in UP | UPCST | Dr. Haris Siddiqui | 2017 | 700000 | 2 years |
| Delineating the role of the human leukocyte antigen locus in susceptibility to rheumatic heart disease in Oceania and South Asia | University of Oxford | Dr. Haris Siddiqui  (Associate Investigator) | 2020 | 900000 | 1.5 years |
| Production of Poly-hydroxy Butyrate (PHB) biopolymer from Azohydromonas australica using cane molasses | UPCAR | Dr. Haris Siddiqui | 2020 | 20,29,500 | 3 years |
| *In vitro* and *in* v*ivo* study of hepatoprotective activity of *Nigella sativa*  extracts in various germination stages | Ministry of AYUSH | Dr.Iffat Zareen Ahmad | 2016 | 6993330 | 3years |
| Characterization of UV protective compounds from cynabacteria and media optimization for their enhancement | DRDO | Dr, Iffat Zareen Ahmad | 2017 | 2350000 | 3 years |
| Role of Molecular Chaperones and p53 in Targeting of Client proteins to Autophagy | DBT | Dr, Snober S Mir | 2013 | 32.80422 | 3 years |
| Role of p53 Aggregation in Dysregulation of Autophagy: Implications for Tumorigenesis and Targeted Therapy | SERB | Dr, Snober S Mir | 2015 | 2757000 | 3years |
| Dynamic Structure-Based Pharmacophore Model Development and Role of Dietary Phytochemicals: A Crosstalk and Effective Addition in Anti-Angiogenic Lead Discovery | UPCST | Dr, Salman Akhtar | 2015 | 933000 | 3 years |
| Development of novel screening system employing cyanobacteria for toxicity studies of metallic nanoparticles | UPCST | Dr. Alvina Farooqui | 2015 | 1044000 | 3 years |
| Eco-friendly, biodegradable plastic degrading PHB depolymerase from microbes: Purification, Characterization and biotechnological applications | SERB | Dr. Roohi | 2018 | 3081000 | 3 years |

**LIST OF PATENTS**

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| **Name of the Patenter** | **Patent Number** | **Title of the patent** | **Year of Award/publication** |
| Prof. Mohammad Haris Siddiqui, Dr. Alvina Farooqui | 17/816,792 | System for evaluating chemo-preventive potential of PHC and its prepared chitosan nanoparticles | 2022 (Filed) |
| Prof. Mohammad Haris Siddiqui, Dr. Alvina Farooqui | 202211039795  (Application No.) | Enhanced cardioprotective potential of a combination of carvedilol and silk protein sericin | 2022 (published) |
| Prof. Mohammad Haris Siddiqui, Dr. Alvina Farooqui | DE202021105267U | Pharmaceutical composition | 2021 (granted) |
| Dr. Roohi | 2021101539 | System and method for indoor clothes dryer using direct transportation of solar light | 2021(granted) |
| Dr. Roohi | 338503-001 dated- 03/02/2021 | Water Quality Improving Container | 2021(granted) |
| Dr. Roohi | 202111053238 dated 26/11/2021 | Novel method for the detection of PHB polymer based phaz PHB depolymerase enzyme | 2021(published) |
| Dr. Roohi | 202241060892  (Application No.) | Low cost biodegradable plastic production using nanotechnology | 2022 (published) |
| Dr. Alvina Farooqui | 20-2021105267 dated 29-9-2021, | Effect of Sericin on Isoproterenol induced cardiac necrosis and hypertrophy | 2021(granted) |
| Dr. Alvina Farooqui | 202022101070.6 dated 24.02.2022, | Nephro-protectant for acute kidney injury | 2021(granted) |
| Dr. Archana Vimal | Application No.: 202211024871 A | Biogenic antimicrobial chitosan-based nanoparticles and process of their synthesis using plant *Ocimum sanctum* leaf extract | 2021 (published) |
| Dr. Iffat Zareen Ahmad | Application No.: 202211035969 | Nanoemulsion-based cosmeceutical products having UV-protective and anti-skin cancer properties | 2022 (published) |
| Dr. Iffat Zareen Ahmad | Application No.: 202211044085 | *Cydonia oblonga* Mill. seed extract and its nanoemulsion as anti-hepatocellular carcinoma agents | 2022 (published) |
| Gazia Nasir | 202022102834 | Solar Based Portable Hydroponic System | 2022 (granted) |