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| **S. No.** | **Title of Research Projects** | **PI** | **Co-PI** | **Funding agency** | **Duration** |
| **HIMS** | | | | | |
| 1 | Elaboration of drug resistance mechanisms and molecular characterization of Carbapenem-resistant Enterobacterales (CRE) and Carabapenem-resistant Pseudomonas aeruginosa (CRPA) in ICU settings of a tertiary care center of Uttarakhand | Dr Nupur Kaul | - | SRHU | 1 year |
| 2 | Epidemiological study of Dementia in Uttarakhand: A comprehensive Approach | Dr Ashwani Bhatt | Dr Deepak Goel,  Dr Manish Mittal  Dr Nikku Yadav, | SRHU | 1 year |
| 3 | Navigating sensorium: Lemborexant vs Melatonin vs Placebo for management of Delirium - a hospital based prospective randomized controlled trial | Dr Praveen Rikhari | Dr Priyaranjan Avinash;  Dr Robin Victor;  Dr Abhay Srivastava;  Dr Anshu Prasad;  Dr Nikita Uppal; | SRHU | 1 year |
| 4 | Exploring the Multifaceted Utility of social mapping in community Medicine: A proposal for Rural Health Training Centre (RHTC) | Dr. Abhay Srivastava | Dr. Himanshu Mamgain, Dr. Neha Sharma,  Dr Shaili Vyas,  Prof. A.K. Srivastava | SRHU | 1 year |
| 5 | Water quality assessment in a selected Urban Slum of Doiwala Block in district Dehradun | Dr. Abhay Srivastava | Dr. Rajender S. Panwar, Adarsh Jakhmola, Siddhesh Kolambkar | SRHU | 1 year |
| 6 | Impact of Pneumatic transport system on Blood sample and laboratory turn-around time | Dr. Kiran Bhat | Dr. (Brig) RS Saini,  Dr. Barnali Kakati,  Mr. Vaibhav Badoni | SRHU |  |
| 7 | The assessment of micronutrients levels in adult experiencing depression and their correlation with severity of depressive symptoms | Dr. Anita Sharma | Dr Priyaranjan Avinash, Dr Archana Prakash | SRHU |  |
| 8 | Investigating Microglial Lipid Droplet Involvement in Glioblastoma | Dr Kanchan Bishtl | Dr Kaushik Sharma,  Dr Sanjeev K Pandey,  Dr Brijesh K Tiwari,  Dr Smita Chandra,  Dr Mansi Kala,  Dr Garima Mitta | SRHU |  |
| 9 | Predicting the concurrent chemoradiation therapy (CTRT) outcomes in localized muscle invasive bladder cancer (MIBC) patients by exploring novel biomarker in tumor samples of radioresistant patients. | Dr. Amjad Husain | Dr. Viney Kumar, Dr. Vipul Nautiyal, Dr. Shikhar Aggarwal, Dr. Nadia Shirazi, Dr. Sunil Saini | SRHU |  |

**INTRAMURAL RESEARCH PROJECTS- 2024-2025 (Ongoing)**

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| 10 | Study on the effect of transcutaneous electrical nerve stimulation (TENS) on pain, function, and quality of life in fibromyalgia (FM) patients -2-arm, parallel-group, pragmatic, randomized clinical superiority | Dr. Rambeer Ghuleliya | Dr Akash Rawat,  Dr Ashwani Bhat,  Dr Pravin Rawat,  Dr Vaibhav Agarwal,  Dr Ashish Negi | SRHU | 1 year |
| 11 | A systematic study of the vertical distribution of radionuclides in soil profiles of neutral and vegetation lands in Doon Valley of Garhwal Himalaya, India | Dr. Mukesh Prasad | Dr Satish Uniyal | SRHU | 1 year |
| **HSBS** | | | | | |
| 1 | Upgrading plant microbe-based approach to enhance phytoremediation method in contaminated water body | Dr Vivek Kumar |  | SRHU | 1 year |
| 2 | Elite germplasm selection based on elicited gymnemic acid and antioxidant status of Gurmar (Gymnema sylvestre) using micropropagation technique | Dr Vikas Jadon |  | SRHU | 1 year |
| 3 | Omics study of non-ribosomal peptide and polyketide antifungal metabolites from actinobacteria isolated from leaf cutter ants | Dr Vijay Kumar |  | SRHU | 1 year |
| 4 | Metagenomic analysis of hospital waste water for determination of drug resistance genes | Dr Vivek Kumar | Dr Sanjay Gupta;  Dr Vijay Kumar;  Dr Geeta Bhandari,  Dr Yogesh Saxena,  Dr. Akhilesh Kumar | SRHU | 1 year |
| 5 | Bamboo Tea cultivation for rural upliftment | Dr Sanjay Gupta | Dr Nupur Joshi;  Dr Geeta Bhandari;  Dr Vikas S Jadon;  Dr Archana Dasmana | SRHU | 1 year |
| 6 | Investigating the potential of Fungal Mycelium mats: comparative analysis of various Fungal species for future research | Dr Nupur Joshi | Dr Geeta Bhandari;  Dr Vikas S Jadon;  Dr Archana Dasman;  Dr Sanjay Gupta | SRHU | 1 year |
| 7 | Hydroponic technology to enhance commercial-scale productivity of *Origanum vulgare* from Uttarakhand, West Himalaya | Dr. Sanjay Gupta | Dr Arti Bisht,  Dr Vikash S. Jadon | SRHU | 1 year |
| 8 | Hydroponic technology to enhance commercial-scale productivity of *Origanum vulgare* from Uttarakhand, West Himalaya | Dr. Sanjay Gupta | Dr Arti Bisht,  Dr Vikash S. Jadon | SRHU | 1 year |
| 9 | Development of a composite biopolymer based edible coat formulation for enhancing shelf-life quality of fresh farm produce in Uttarakhand | Dr Kumar Sachin |  | SRHU | 2 Years |
| 10 | Spent mushroom substrate as a soil amendment : Effects on soil quality and microbial communities | Dr Samiksha Joshi | Dr Nupur Joshi  Dr Megha Sharma  Dr Sanjay Gupta | SRHU | 2 Years |
| 11 | Integrative phytochemical and transcriptome profiling of *Nyctanthes arbor-tristis* (Harsingar) for uncovering therapeutic potential | Dr Megha Sharma | Dr Vikash S. Jadon  Dr Gourav Kumar  Dr Samiksha Joshi  Dr Sanjay Gupta | SRHU | 2 Years |
| 12 | Regulation of Lung adenocarcinoma glycolysis by EGFR dependent RSK4: molecular mechanism | Dr Gourav Kumar | Dr Smita Chandra  Dr Rakhi Khanduri  Dr M. Chhebbi  Dr Vikash S. Jadon  Dr Geeta Bhandari  Dr Sanjay Gupta | SRHU | 720 Days |
| 13 | Mutational Study of lung adenocarcinoma for glycolysis metabolism by EGFR dependent RSK4 | Dr Gourav Kumar | Dr Smita Chandra | SRHU | **180 Days** |
| **HSPS** | | | | | |
| 1 | Cost effective synthesis and application of 2,4-Diaminobenzoic Acid and Related Precursors as versatile Building Blocks in organic chemistry: Exploring Pharmaceutical and Agricultural Potentials | Dr Ganesh Kumar | Mr. Rahul Pandey | SRHU | 1 year |
| 2 | Formulation and evaluation of Triphala tablets by using different Millets starch found in Uttarakhand as binding agent for the treatment of Diabetes | Dr Raghav Dixit | Dr Ganesh Bhatt | SRHU | 2 Years |
| 3 | Hybrid NO releasing “V-shaped” probable anti-cancer agent, through modification of natural anti-tumor sulfated polysaccharide **(2 yrs)** | Dr Priyank Purohit | Dr Ganesh Bhatt | SRHU | 2 Years |
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| **HSYS** | | | | | |
| 1 | Impact of Yoga Practices on Physiological, Biochemical and Psychological Parameters in Young Adults- A Pilot Study | Dr Ankit Sharma | Dr Ajay Dubey,  Dr Somlata Jha,  Dr Abha Shrivastava, Dr Kiran Bhat,  Dr Dipak Kumar Dhar,  Dr Ramkumar S,  Miss. AnuradhaSharma | SRHU | 1 year |
| **HSST** |  |  |  |  |  |
| 1 | Response of Women on Basic Health Care Services in the hilly region of Tehri District Uttarakhand | Ms. Neelam Danu |  | SRHU | 1 year |
| **HSMS** | | | | | |
| 1 | Capacity Building for Agri-entrepreneurship Development for Socio-Economic Independence Leading to Entrepreneurial Empowerment in Uttarakhand Region | Dr. Geeta Rana |  | SRHU | 1.5 year |
| 2 | Managing Patient Data for Healthcare Excellence | Dr Som Aditya Juyal |  | SRHU | 1 year |

**SEED MONEY GRANTS (2024-25)**

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| **S. No.** | **Title of Research Projects** | **PI** | **Co-PI** | **Funding agency** | **Duration** | |
| **HIMS** | | | | | | |
| 1 | Utilization of direct susceptibility testing method by Vitek-2 from positively flagged blood culture bottle for Gram negative bacilli in bacteremia patients. | Dr. Arpana Singh | Dr. Barnali Kakati | SRHU | 1 year | |
| 2 | In-vitro activity of ceftaroline (fifth generation cephalosporin) against Methicillin resistance *Staphylococcus* *aureus* (MRSA) isolate from various clinical samples in the tertiary care hospital, Dehradun: A pilot study | Dr. Arpana Singh | Dr. Barnali Kakati,  Dr. Rajender Singh | SRHU |  | |
| 3 | Assessing the Quality of life and job satisfaction of auxiliary staff working at a tertiary care hospital in Dehradun, Uttarakhand | Dr. Neha Verma | Dr. A.K. Srivastava, Dr. Ruchi Juyal,  Dr Deep Shikha, Dr.Vidisha Vallabh | SRHU |  | |
| 4 | A cross-sectional study to assess the awareness of hospital emergency codes among clinical and non-clinical workers of tertiary care hospital | Dr. (Brig) RS Saini | Dr Vinish K Agarwal,  Mr. Vaibhav Badoni,  Dr. Himadri Mamgain | SRHU |  | |
| 5 | Predicting the malignancy in contralateral thyroid lobe in patients undergoing completion thyroidectomy – a retrospective, cross sectional study | Dr. S.S Bist | Dr Mahima Luthra | SRHU |  | |
| 6 | Development of Millet-based functional food for Pregnant and Lactating Women in Uttarakhand – Phase I | Dr. Ruchira Nautiyal | Dr. Smita Dimri,  Dr Naveen Kumar Navani | SRHU |  | |
| 7 | To compare the efficacy of topical administration of magnesium sulphate, dexmedetomidine and dexamethasone in post-operative sore throat in patients undergoing general anaesthesia. | Dr. Nidhi Kumar | Dr Arti Rajput  Dr Gurjeet Khurana | SRHU | 1 year | |
| 8 | Shorter MDR regimen outcome in association with clinical, Hematological and smoking status-A cross sectional retrospective study in North Indian DR TB Centre. | Dr. Manoj Kumar | Dr Rahul Gupta  Dr Shahnawaz Saifi  Dr Rakhee Khanduri | SRHU | One month | |
| 9 | Exploring the link between loneliness and various parameters of alcohol use disorder: A cross sectional study from North India | Dr. Robin Victor | Dr PriyaRanjan Avinash  Dr Praveen Rikhari  Dr Twinkle Sharma | SRHU | 9 months | |
| 10 | Comparison of nutritional and radiological profile of acute exacerbation in COPD patients with hypercapnic respiratory failure with non – Hypercapnic respiratory failure – A Prospective observational study | Dr. Manoj Kumar | Dr Mukta Singh  Dr Rakhee Khanduri  Dr Kartika Sharma  Dr Dhruv Gupta | SRHU | 06 Months | |
| 11 | Short Term outcomes of perioperative pain management utilizing enhanced recovery versus standard protocol following paediatric urological surgery: A pilot randomised controlled study | Dr. Parul Jindal | Dr Nirupa Ramakumar  Dr Sheetal  Dr Aisha | SRHU | 9 months | |
| 12 | Cardiovascular Dynamics in Preterm infants undergoing Kangaroo Mother care: A prospective study | Dr. Chinmay Chetan | Dr Saikat Patra  Dr Arshpuneet Kaur Sandhu | SRHU | 9 months | |
| **HSBS** | | | | | | |
| 1 | Omics based Study of drug resistant Acinetobacter: Unraveling molecular mechanisms and identifying therapeutic targets | Dr Vijay Kumar | Barnali Kakati;  Dr Vivek Kumar | SRHU | 1 year | |
| 2 | Evaluation of Human Umbilical Cord Blood derived Platelets Rich Plasma (CB-PRP) and Peripheral blood isolated Platelets Rich Plasma (PB-PRP) for Antimicrobial Activity | Dr. Purandhi Roopmani | Dr. Ruchira Nautiyal, Dr. Vijay Kumar,  Dr. Bharti Saklani | SRHU | 1 year | |
| **HSST** | | | | | | |
| 1 | Smart Hand | Dr Vibhor Sharma | Dr Deepak Srivastava Mr Shubham Gangari | SRHU | 1 year | |
| **HCN** | | | | | | |
| 1 | Prevalence and determinants of stress and anxiety among primary caregivers of substance use disorder patients in a view to develop a Nurse Led Intervention on anxiety and stress management in selected hospital of Dehradun, Uttarakhand**.** | Dr. Grace Madonna Singh | Dr. Rajkumari Sylvia Devi | SRHU | 1 year | |
| 2 | Knowledge attitude and belief of nurses regarding antimicrobials use and prevention of antimicrobials resistance | Dr. Kamli Prakash | Mrs. Reena Habil Sigh,  Mrs. Geetika Kashyap,  Mr. Ankit Singh | SRHU | 1 year | |
| 3 | Effectiveness of Awareness Programme on Self-Collection Sampling for HPV-DNA Testing interms of Awareness and Attitude among adult women in a selected community of Dehradun: A mixed method | Dr. Kanchan Bala | Dr. Ruchira Nautiyal, Mrs. Laxmi Kumar, Mrs. Upma George | SRHU | 1 year | |
| 4 | Effect of An Awareness program on Cyberbullying and their coping skills among Adolescent in selected Schools of Dehradun, Uttarakhand. | Dr. Harleen Kaur | Ms. Shivangi Hemdan  Mr. Atul Kumar, Dr. Anupama Mishra,  Mr. Suresh Chander | SRHU | 1 year | |
| 6 | Effectiveness of family centered care approach on quality of life & self-efficacy of autistic child caregivers in selected areas of Uttarakhand | Ms. Nitika Bhatt | Dr. Grace Madonna Singh | SRHU | 1 year | |
| 7 | A study on the awareness, attitude, and practice of junk food consumption among young adults in Uttarakhand, India. | Mrs. Priya J.P. Narayan | Dr. Sanchita Pugazhendi,  Dr. Kamli Prakash, Mr. Ankit Singh | SRHU | 1 year | |
| 8 | Effectiveness of Continuing Nursing Education Programme on application of Safe delivery app (SDA) among Nursing Professionals at  Selected college and Hospital Dehradun, Uttarakhand | Dr. Anupama Sharma | Mrs. Poonam Yadav,  Dr. Kanchan Bala | SRHU | 1 year | |
| 9 | A study to assess the prevalence, risk factors and awareness regarding Pregnancy Induced Hypertension (PIH) with a view to develop nurse led intervention among antenatal women visiting Gynae OPD in a selected hospital, Dehradun,  Uttarakhand. | Dr. Kanchan Bala | Dr. Anupama Sharma,  Mrs. Shobha Masih | SRHU | 1 year | |
| 10 | A study on health risk and self-esteem of obese adolescents in selected schools of Dehradun, Uttarakhand. | Dr Vandana Chauhan | Mrs. Sanjenbam Emon Chanu,  Dr. Rajkumari Sylvia Devi,  Mrs. Namrata Pundir | SRHU | 1 year | |
| 11 | Effects of an Awareness Program on knowledge and practice regarding menstrual hygiene among adolescent girls in selected Government Schools of Dehradun, Uttarakhand | Dr. Harleen Kaur | Ms. Varsha Rawat, Dr. Vandana Chauhan, Ms. Shobha Masih | SRHU | 1 year | |
| 12 | Effect of Health Promotion intervention on Physiological and Psychological well-being of elderly people | Dr. Grace Madonna Singh | Mrs. Heena Negi | SRHU | 1 year | |
| **HSPS** | | | | | | |
| 1 | Optimizing Drug Information and Prescription Patterns for type-2 Diabetes with Hypertensions: Advancing Rational Use and Pharmacy Education | Dr Arvind S. Farswan | Dr Srishit Dora,  Dr Reshma Kaushik | SRHU | | 1 year |
| 2 | Exploring the influence of maternal obesity on the health status of newborns and mothers | Dr Ujjwal Nautiyal | Dr Jayanti Semwal,  Dr Neha Sharma,  Mr. Abhishek Chandola | SRHU | | 1 year |
| 3 | The effect on mental health of students after joining a new course post-12th Exam | Mr. Abhishek Chandola | Dr Ujjwal Nautiyal  Dr Abha Srivastav  Mr. Rahul Pandey | SRHU | | **06 Months** |
| 4 | The impact of social media on the mental health of students | Dr Ujjwal Nautiyal | Dr Abha Srivastav  Dr Apurva Trivedi  Mr. Abhishek Chandola | SRHU | | **06 Months** |