



वैज्ञानिक और नवीकृत अनुसंधान अकादमी
ACADEMY OF SCIENTIFIC AND INNOVATIVE RESEARCH
(An Institution of National Importance by an Act of Parliament)

AcSIR, CSIR-HRDC Campus, Sector - 19,
Kamla Nehru Nagar, Ghaziabad – 201002, U.P., India

एसीएसआईआर, सीएसआईआर-एचआरडीसी परिसर, सेक्टर - 19,
कमला नेहरू नगर, गाज़ियाबाद - 201002, उ.प्र., भारत

No. AcSIR/7/10(1)-2023

Dated: January 19, 2023

NOTIFICATION

It is notified for all concerned that, the Chairman, Senate, Academy of Scientific and Innovative Research (AcSIR) dated 19.01.2023, has approved the notification for award of the Ph.D degree of the following students in the months November to December 2022.

Sl. No	Registration Number	Name	AcSIR Academic Centre	Faculty / Broad Subjects	Supervisor	Thesis Title	Date of Award of Ph.D Degree
1	10PP16J28001	Padmavathi Bevara	CSIR-NGRI, Hyderabad	Physical Sciences	Virendra Mani Tiwari	Assessment of external and internal forcing on Indian temperature variability: Implications on total water storage changes	01.11.2022
2	10CC14J05004	Krishnamoorthy K	CSIR-CECRI, Karaikudi	Chemical Sciences	R. Thangamuthu	Electrocatalytic determination of biologically and environmentally significant compounds using novel sensor platforms	01.11.2022
3	20EE15A15001	Pooja Gupta	CSIR-CSIO, Chandigarh	Engineering Sciences	S. Mondal	Bio-sample imaging with refractive index measurement using common-path low coherence interferometry and bessel beam	01.11.2022
4	20EE16J15010	Shailesh Mohine	CSIR-CSIO, Chandigarh	Engineering Sciences	B S Bansod	Analysis of moving vehicle detection and classification techniques using acoustic signal processing	04.11.2022

5	10BB16J10014	Dewasya Pratap Singh	CSIR-CIMAP, Lucknow	Biological Sciences	Ashutosh K. Shukla	Studies on traditionally-used medicinal plants towards development of a hepatoprotective formulation	04.11.2022
6	10CC17A39007	Anila Sebastian	CSIR-NIIST, Thiruvananthapuram	Chemical Sciences	Suresh C. H.	Density functional theory studies on transition metal fulleride complexes and CO ₂ capture by anions, fullerides, and N-rich molecular systems	04.11.2022
7	10BB15J02010	Viren Sardana	CSIR-IGIB, New Delhi	Biological Sciences	Anurag Agrawal	Pattern recognition and data analysis in diagnosis of lung disease	04.11.2022
8	20EE17A15019	Devendra Singh Parihar	CSIR-CSIO, Chandigarh	Engineering Sciences	H.K. Sardana	Elephants movement detection in the forest environment using seismic signal decomposition	04.11.2022
9	10CC18A16006	Ranadip Goswami	CSIR-CSMCRI, Bhavnagar	Chemical Sciences	Subhadip Neogi	Strategically devised multiresponsive porous materials for environmental remediation with mechanistic insights	04.11.2022
10	10CC17A26062	Mali Bhupendra Pralhad	CSIR-NCL, Pune	Chemical Sciences	Rajesh Ghanshyam Gonnade	Tuning fluorescence in crystalline state through polymorphs and cocrystals development: Synthesis, structural studies and photophysical properties measurements of green fluorescent protein chromophore analogues	04.11.2022
11	10BB15A22007	Jamal Ahmad Ansari	CSIR-IITR, Lucknow	Biological Sciences	Debabrata Ghosh	Effect of developmental arsenic exposure on phenotypic transition of microglia and its consequences in mouse brain	04.11.2022

12	10BB14J25007	Arpita Singh	CSIR-NBRI, Lucknow	Biological Sciences	Puneet Singh Chauhan	Study on quorum sensing mechanism of stress tolerant plant growth promoting rhizobacteria for improving <i>Zea mays</i> productivity under drought stress	04.11.2022
12	10CC17A16005	Rashmi Semwal	CSIR- CSMCRI, Bhavnagar	Chemical Sciences	Adimurthy Subbarayappa	Carbon-hetero bond formations through inter and intra functionalisation of fused heterocycles	10.11.2022
14	10BB17J37002	Nasima Bano	CSIR-IIIM, Jammu	Biological Sciences	Dr. Mohd Jamal Dar	Generation of IR deletions and point mutants of critical residues to examine their subcellular localization, cytoplasmic and nuclear activities	14.11.2022
15	10CC17J05004	Ramaprakash M	CSIR-CECRI, Karaikudi	Chemical Sciences	N. Rajasekaran	Electrodeposition of Ni-W based materials and its applications	14.11.2022
16	10CC18A16011	Prerana Sharma	CSIR- CSMCRI, Bhavnagar	Chemical Sciences	Vinod Kumar Shahi	Stable and functionalized polymeric materials/membrane s for water purification and energy applications	16.11.2022
17	10CC18A37026	Rinky	CSIR-IIIM, Jammu	Chemical Sciences	Sandip B Bharate	Discovery of new multi- targeted preclinical leads for Alzheimer's disease employing library screening and rational drug design approaches	16.11.2022
18	10CC15A26032	Makwana Ketankumar Ishwarbhai	CSIR-NCL, Pune	Chemical Sciences	Manoher V Badiger	Cashew Nut Shell Liquid (CNSL): A versatile building block towards synthesis of novel monomers, polymers and surfactants	17.11.2022



19	20EE17A26033	Patil Pravin Bhikaji	CSIR-NCL, Pune	Engineering Sciences	Vinay Manoharrao Bhandari	Studies in degradation/removal of pollutants/organics using cavitation	18.11.2022
20	10BB16A22007	Shashyendra Gautam	CSIR-IITR, Lucknow	Biological Sciences	Sheelendra Pratap Singh	Mass spectrometry based plasma proteomics approach for oral cavity squamous cell carcinoma screening in human volunteers	18.11.2022
21	20EE16A06001	Vishakha Pareek	CSIR-CEERI, Pilani	Engineering Sciences	Sanjay Singh	Machine learning techniques for electronic nose systems	21.11.2022
22	10CC17J26006	Sharma Dipesh Mamraj	CSIR-NCL, Pune	Chemical Sciences	Benudhar Punji	Synthesis and implication of 3d transition metal catalysts for the hydrogenative transformations of alkynes, chalcones and nitriles	21.11.2022
23	10CC16A16007	Ekata Saha	CSIR- CSMCRI, Bhavnagar	Chemical Sciences	Joyee Mitra	Triazole based small molecule metallo- organogels and their applications	21.11.2022
24	10CC17A19006	Neha Sharma	CSIR-IIP, Dehradun	Chemical Sciences	Anjan Ray	Theoretical and experimental studies on cycloaliphatic ester for their application as lubricants	21.11.2022
25	10PP16A32013	Sumit Kumar	CSIR-NPL, New Delhi	Physical Sciences	Anjana Dogra	Exploration of quasi 2-dimensional electron gas at LaScO ₃ /SrTiO ₃ & CaTa ₂ O ₆ /SrTiO ₃ interface	29.11.2022
26	10BB16A39014	Lakshmi S.	CSIR-NIIST, Thiruvanthapuram	Biological Sciences	Priya S.	Insights into the mechanism of action of epoxyazadiradione and a pyrazole amide derivative against triple negative breast cancer cells	29.11.2022



27	10CC19J18021	Soda Anil Kumar	CSIR-IICT, Hyderabad	Chemical Sciences	Sridhar Madabhushi	Novel strategies towards the synthesis of functionalized quinazolines and quinolones of biological interest	29.11.2022
28	10CC19A37048	Vijay Kumar Nuthakki	CSIR-IIIM, Jammu	Chemical Sciences	Sandip B Bharate	Discovery of natural product based multi-targeted anti-Alzheimer agents	29.11.2022
29	32EE15A41007	Mukesh Kumar	CSIR-SERC, Chennai	Engineering Sciences	P. Harikrishna	Augmented small wind turbine & NILM based energy monitoring for wind & solar hybrid system	29.11.2022
30	10CC17J19006	Gurmeet Singh	CSIR-IIP, Dehradun	Chemical Sciences	Ankur Bordoloi	Nano-materials synthesis for hydrogenation of furfural to value added products	29.11.2022
31	10CC18J16006	Rakhi Mondal	CSIR-CSMCRI, Bhavnagar	Chemical Sciences	Uma Chatterjee	Blend and copolymers based ion exchange membranes and their electrochemical separation performance	29.11.2022
32	10CC18J18011	Chitra Sarkar	CSIR-IICT, Hyderabad	Chemical Sciences	John Mondal	Design of porous organic catalytic nanoarchitecture for biomass valorisation	29.11.2022
33	10CC17J18030	Aedula Vishnuvardanreddy	CSIR-IICT, Hyderabad	Chemical Sciences	D.K.Mohapatra	Synthesis of greensporone F, dechlorogreensporone F, (2E)-macrolactin 3 and 2-allyl-2-methyl-2H-chromenes	29.11.2022
34	10CC17J18039	Damera Vani	CSIR-IICT, Hyderabad	Chemical Sciences	Rajender Reddy	Transition metal-catalyzed domino approaches of 3-alkynylquinoline aldehydes to access regio-selective synthesis of fused quinoline analogues	29.11.2022



35	10CC17A26023	Rohit Kumar	CSIR-NCL, Pune	Chemical Sciences	Sakya Singh Sen	Synthesis and molecular catalysis with organo-alkaline earth metal complexes	29.11.2022
36	10BB16A33007	Vikas Dadwal	CSIR-IHBT, Palampur	Biological Sciences	Mahesh Gupta	Characterization and encapsulation of antioxidant active polyphenols from <i>Citrus</i> spp. and <i>Malus</i> spp. fruits for health benefits	29.11.2022
37	10BB16J25008	Ravi Shankar Kumar	CSIR-NBRI, Lucknow	Biological Sciences	Prabodh Kumar Trivedi	Identification and functional characterization of arsenic stress- responsive miRNA(s) in <i>Arabidopsis thaliana</i>	30.11.2022
38	10CC16A04024	Anjali	CSIR-CDRI, Lucknow	Chemical Sciences	Rabi Sankar Bhatta	Fabrication of derivatized poly-D- glucosamine based corneal targeted liposomes of amphotericin B for the treatment of Keratomycosis and its PK-PD evaluation	30.11.2022
39	10BB15J37011	Amit Kumar	CSIR-IIIM, Jammu	Biological Sciences	Govind Yadav	Evaluation of immunomodulatory and anti-mutagenic potential of bakuchiol isolated from <i>Psoralea</i> <i>corylifolia</i>	01.12.2022
40	10BB19J26011	Abhyankar Isha Hemant	CSIR-NCL, Pune	Biological Sciences	Anuya Nisal	Biotransformation of short chain fatty acids into sophorolipids for biomedical applications	01.12.2022
41	10BB15A18049	T. Harini	CSIR-IICT, Hyderabad	Biological Sciences	Haridas B Rode	Immobilization and biotransformation studies of phytase, <i>Candida antarctica</i> Lipase B (CAL B) & laccase	01.12.2022



42	30EE15A06009	Vipul Pandey	CSIR-CEERI, Pilani	Engineering Sciences	Suchandan Pal	Design and development of periodic photonic nanostructures for sensing applications in the visible region	05.12.2022
43	10BB14A25005	Veenita Tomar	CSIR-NBRI, Lucknow	Biological Sciences	Manjoosha Srivastava	Search for potential anticancer leads from different <i>Cassia species</i>	06.12.2022
44	20EE16A15006	Yogesh Kumar	CSIR-CSIO, Chandigarh	Engineering Sciences	Sanjeev Kumar	Non-invasive estimation of blood hemoglobin using near-infrared spectrophotometry	06.12.2022
45	10BB17J33012	Shiv Rattan	CSIR-IHBT, Palampur	Biological Sciences	Ashish R. Warghat	Identification of molecular cues involved in biosynthesis of specialized metabolites and its enhancement in cell culture of <i>Rhodiola imbricata</i> (Edgew.)	06.12.2022
46	32EE15A31004	Premkumar M	CSIR-NML, Jamshedpur	Engineering Sciences	Rajat K. Roy	Studies on high induction soft magnetic FeSiB(P)NbCu nanocomposite alloys	06.12.2022
47	10CC16A05003	Velu D	CSIR-CECRI, Karaikudi	Chemical Sciences	S. Senthil Kumar	Design and development of mesoporous carbon based materials as alternate electrocatalysts for oxygen reduction reaction	06.12.2022
48	10PP17A32006	Kishor Kumar Johari	CSIR-NPL, New Delhi	Physical Sciences	Bhasker Gahtori	Study of ZrNiSn-based half-heusler materials for thermoelectric applications	12.12.2022



49	10CC19A04009	Pratibha Singh	CSIR-CDRI, Lucknow	Chemical Sciences	Sanjeev Kanojiya	Method development, validation and application of hyphenated mass spectrometric techniques for qualitative and quantitative analysis of phytochemicals from selected Indian medicinal plants	12.12.2022
50	10BB16A16012	Ashok Panda	CSIR- CSMCRI, Bhavnagar	Biological Sciences	Ashish Kumar Parida	Integration of ionomics, metabolomics and proteomics studies for elucidation of salinity and drought tolerance mechanisms in the xero-halophyte <i>Haloxylon salicomicum</i>	12.12.2022
51	10BB16A22018	Shraddha Pandit	CSIR-IITR, Lucknow	Biological Sciences	Ramakrishnan Parthasarathi	Integrated computational studies on human health risk assessment of plastics associated substances	12.12.2022
52	10CC16A39005	Anjali B. R.	CSIR-NIIST, Thiruvananth apuram	Chemical Sciences	Joshly Joseph	DNA assisted ordered assembly of small amphiphilic molecules via non- covalent interactions	12.12.2022
53	20EE17A15010	Naini Garg	CSIR-CSIO, Chandigarh	Engineering Sciences	Amit Lochan Sharma	Metal-organic frameworks and its composites for electrochemical sensing of environmental analytes	12.12.2022
54	10BB17J33005	Subhash Kumar	CSIR-IHBT, Palampur	Biological Sciences	Dharam Singh	Molecular characterization of L-Asparaginase from <i>Pseudomonas</i> spp. of high-altitude niches in the Western Himalaya	12.12.2022



55	20EE16J24006	Borole Umesh Pramod	CSIR-NAL, Bangalore	Engineering Sciences	Prasanta Chowdhury	Development of giant magnetoresistance (GMR) based current sensors	12.12.2022
56	10BB16A02002	Amit Kumar	CSIR-IGIB, New Delhi	Biological Sciences	Malabika Datta	Regulation of the epigenetic modifier, histone deacetylase (HDAC) by ncRNAs in the skeletal muscle during diabetes	14.12.2022
57	10BB15A02025	Pooja Badhwar	CSIR-IGIB, Delhi	Biological Sciences	Bhupesh Taneja	Investigation of modulation of cyclic di-guanosine monophosphate signaling in Mycobacteria	14.12.2022
58	20EE15J35003	Shailesh Kushwah	CSIR-AMPRI, Bhopal	Engineering Sciences	M. Mudgal	Development of fly ash based solid form geopolymeric binder useful for constructional applications	16.12.2022
59	30EE15A06006	Shivanshu Mishra	CSIR-CEERI, Pilani	Engineering Sciences	Ing. Nidhi Chaturvedi	Design and development of GaN HEMT based sensors	16.12.2022
60	10CC17J26007	Shirsath Sachin Rohidas	CSIR-NCL, Pune	Chemical Sciences	M. Muthukrishnan	Exploring new synthetic transformations employing <i>p</i> -quinone methides as versatile acceptors in 1,6-addition reactions	16.12.2022
61	10MM18A42011	Biju D	CSIR-NIScPR, New Delhi	Mathematical & Information Sciences	G. Mahesh	Gender and geographical dimensions of science communication in India: A case study of Science Reporter	20.12.2022
62	10BB17A25011	Priyanka Chauhan	CSIR-NBRI, Lucknow	Biological Sciences	Aradhana Mishra	Deciphering the protective role of endophytic biomaterial against <i>Macrophomina phaseolina</i>	20.12.2022



63	10BB15A08007	Akanksha Singh	CSIR-CFTRI, Mysuru	Biological Sciences	Sachin M. Eligar	Isolation, characterization and evaluation of biological activities of Arabinoxylan (AX) and Arabinoxylan Oligosaccharides (AXOS) from Pearl millet bran	20.12.2022
64	10BB19J04045	Parul Gupta	CSIR-CDRI, Lucknow	Biological Sciences	Sarika	Decoding the neuroprotective mechanism of clinical drugs and exploration of new therapeutic interventions: Implications in Alzheimer's disease	22.12.2022
65	10CC19A43011	Deependra Pratap Singh	CSIR-CIMFR, Dhanbad	Chemical Sciences	Bodhisatwa Hazra	Assessment of hydrocarbon generation and storage potential of the Permian shales, India	22.12.2022
66	10CC15A39002	Ashitha K. T.	CSIR-NIIST, Thiruvanthap uram	Chemical Sciences	B.S. Sasidhar	Transition metal free transformations of α,β -unsaturated ketones to heterocycles of medicinal relevance	22.12.2022
67	10CC17A19004	Sandhya Saini	CSIR-IIP, Dehradun	Chemical Sciences	Suman L. Jain	Photocatalytic carboxylation of organic compounds using carbon dioxide	22.12.2022
68	20EE15A06003	Navin Singhal	CSIR-CEERI, Pilani	Engineering Sciences	Abhijit Karmakar	Design of neuromorphic circuits for data conversion, readout & digital processing	23.12.2022
69	20EE17J18042	K. Sandeepa	CSIR-IICT, Hyderabad	Engineering Sciences	T. Prathap Kumar	Thermodynamics of crystallization of industrially important chemicals: Measurement and modeling of solid- liquid equilibrium for pure components, binary and ternary systems	23.12.2022



70	10CC16A04027	Gaurav Sharma	CSIR-CDRI, Lucknow	Chemical Sciences	Sanjeev Kumar Shukla	Metabolic profiling of selected anti- osteoporotic plants using NMR spectroscopy	26.12.2022
71	10CC18A19003	Vishakha Goyal	CSIR-IIP, Dehradun	Chemical Sciences	Kishore Natte	Heterogeneous catalysts for borrowing hydrogen and hydrogenation reactions	26.12.2022
72	10CC14J26018	Zinoy M	CSIR-NCL, Pune	Chemical Sciences	Kaliaperumal Selvaraj	Rational design and development of electrocatalysts for sustainable energy	26.12.2022
73	10CC19A16016	Kirti	CSIR- CSMCRI, Bhavnagar	Chemical Sciences	Divesh Narayan Srivastava	Modified carbon electrodes for electrocatalytic applications	26.12.2022
74	10BB17J37007	Khadim Hussain	CSIR-IIIM, Jammu	Biological Sciences	Nasheeman Ashraf	Investigating role of MYB genes in regulating secondary metabolism in <i>Crocus Sativus</i> L.	26.12.2022
75	10BB19A18050	Arpita Roy	CSIR-IICT, Hyderabad	Biological Sciences	Chittaranjan Patra	Pro-angiogenic europium hydroxide nanorods (EHN) for the recovery of heavy metal cadmium-induced vascular endothelial damage, cardiotoxicity and impaired wound healing	27.12.2022
76	10CC17J18016	Kolgave Dattahari Hanmantrao	CSIR-IICT, Hyderabad	Chemical Sciences	Raji Reddy Chada	Synthetic approaches towards spirocyclic and benzo-fused carbocyclic ketones via radical promoted annulations	28.12.2022
77	10CC17A19002	Jyoti Gahtori	CSIR-IIP, Dehradun	Chemical Sciences	Ankur Bordoloi	Aqueous phase CO/CO ₂ hydrogenation over nano-structured material	30.12.2022



78	10CC18J18019	Palivela Siva Gangadhar	CSIR-IICT, Hyderabad	Chemical Sciences	L. Giribabu	"Donor- π -Acceptor" concept based porphyrin and metal-free organic sensitizers for dye-sensitized solar cells	30.12.2022
79	10CC17A26014	Gargi Kundu	CSIR-NCL, Pune	Chemical Sciences	Sakya Singh Sen	An excursion into the chemistry of more nucleophilic saturated N-heterocyclic carbenes	30.12.2022
80	20EE19A16001	Anshul Yadav	CSIR-CSMCRI, Bhavnagar	Engineering Sciences	Pawan K Labhasetwar	Membrane distillation process for high saline and waste water treatment	30.12.2022
81	10BB18J04020	Richa Garg	CSIR-CDRI, Lucknow	Biological Sciences	Jiaur Rahaman Gayen	Role of pancreastatin and its inhibitors in Diabetes	30.12.2022
82	10PP17J32008	Shweta Tomer	CSIR-NPL, New Delhi	Physical Sciences	Vandana	Thermal ALD deposited hafnium oxide thin films for silicon surface passivation	30.12.2022
83	10CC19A18025	Patil Amol Dnyandev	CSIR-IICT, Hyderabad	Chemical Sciences	Raji Reddy Chada	Development of alkyne-assisted annulations to pyran & pyrone frameworks and process for <i>rac</i> -Pregabalin	30.12.2022
84	10CC19J18007	M.V. Subba Rao Muppidi	CSIR-IICT, Hyderabad	Chemical Sciences	Raji Reddy Chada	Transition metal-catalyzed alkyne assisted annulations towards synthesis of Aza-Heterocycles and spirotrienones	30.12.2022
85	10PP16A39009	Jayadev V.	CSIR-NIIST, Thiruvananthapuram	Physical Sciences	K. N. Narayanan Unni	Evaluating interfacial charge transfer dynamics in dye-sensitized solar cells using organic dyes	30.12.2022
86	10CC17A18011	Yendrapati Taraka Prabhu	CSIR-IICT, Hyderabad	Chemical Sciences	Ujjwal Pal	Engineering of metal oxide/sulphide-semiconductor photocatalysts for H ₂ production and CO ₂ reduction to methanol	30.12.2022



87	10BB17A18050	Ranaprathap Katakajwala	CSIR-IICT, Hyderabad	Biological Sciences	S Venkata Mohan	Resource efficient valorisation of agri-waste with biorefinery design and sustainability analysis	30.12.2022
88	10CC18J05005	M Sandhiya	CSIR-CECRI, Karaikudi	Chemical Sciences	M. Sathish	Strategies to enhance the electrochemical performance of graphene-based electrodes for supercapacitor application	30.12.2022
89	10BB14A08022	Darshan D	CSIR-CFTRI, Mysuru	Biological Sciences	Nandini Prasad Shetty	Studies on the regulatory mechanisms of α -mannosidase and β -N-acetyl hexosaminidase during fruit ripening	30.12.2022



Associate Director, Academic

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