

## List of Research Projects of Pharmacy Department

2006- till date

S. No.	Title	Principal Investigator	Year of sanction	Funding Agency	Worth (in Rupees; ₹)	Duration of Project	Status of Project
1	Design, Synthesis and Biological Evaluation of CCR-5 Antagonists as Anti-AIDS drugs.	Dr. S. K. Jain	2006-07	AICTE	9,30,000	03 yrs	Completed
2	Development & evaluation of colon specific drug delivery systems for some anti-cancer drugs (610/CCOST/07)	Dr S.K. Lanjhiyana	2007-08	CGCOST	1,27,000	03 yrs	Completed
3	Development of controlled release gastro-retensivemultiparticulate delivery systems for the effective management of Type-2 Diabetes mellitus (8023/BOR/RPS-155)	Dr. Sunil K. Jain	2007-08	AICTE	6, 90,000	02 yrs	Completed
4	A study on insecticidal activity of <i>Cleistanthus collinus</i> to develop an effective insecticide for rice crop protection (315/CCOST/MRP/2008)	Dr. Bharti Ahirwar	2008-09	CGCOST	1,15,000	02 yrs	Completed
5	Synthesis and biological evaluation of histone deacetylase inhibitors (8023/RID/RPS-63)	Prof. J. S. Dangi	2011-12	AICTE RPS	14,50,000	02 yrs	Completed
6	Ethnopharmacological studies of some traditional medicinal plants [No. F.3-60/2011 (SAP-II)]	Prof. J. S. Dangi and Dr S.H.Bodakhe	2011-12	UGC-SAP	75,00,000	05 yrs	Completed
7	Design, synthesis and pharmacological evaluation of novel combretastatin A-4	Dr. Harish Rajak	2011-12	UGC-MRP	10,91,300	03 yrs	Completed

	analogues as anticancer agent. [40-275/2011 (SR)]						
8	Dosage form development and evaluation of phytomedicines for effective treatment of lymphatic filariasis disease prevalent among Indian population [41-740/2012(SR)]	Dr S.K. Lanjhiyana	2012-13	UGC	5,14,500	03 yrs	Completed
9	Photochemical and pharmacological evaluation of some potential antigenotoxic plant [41-729/2012 (SR)]	PI: Dr. P. K. Samal Co PI: Dr. N. R. Beck	2012-13	UGC-MRP	3,20,000	03 yrs	Completed
10	Development of colon targeted new generation vaccine formulations [41-742/2012 (SR)]	Dr. Ravi shanker Pandey	2012-13	UGC-MRP	7,22,800	03 yrs	Completed
11	Evaluation of lipid based carrier system for delivery of hepatitis C antigen for vaccination using subcutaneous route	Dr. Dinesh Mishra	2012-13	UGC-STARTUP	6,00,000	02 yrs	Left the university before completion of project
12	Development of colloidal carriers for mucosal vaccination	Dr. Akhlesh Jain	2012-13	UGC-STARTUP	6,00,000	02 yrs	Completed
13	To assess the Antiabuse potential of central histamine receptor analogs for anxiety related reinforcing effect of nicotine [20-23(3)/2012(BSR)]	Dr. Nishant S. Jain	2012-13	UGC-STARTUP	6,00,000	02 yrs	Completed
14	Computer aided design, synthesis and study of novel PTP-1B inhibitors as potential antidiabetic agents [20-16(3)/2012(BSR)]	Dr. Suresh Thareja	2012-13	UGC-STARTUP	6,00,000	02 yrs	Completed
15	Computational prediction of cytochrome P-	Dr. P. P. Roy	2012-13	UGC-	6,00,000	02 yrs	Completed

	450 enzyme inhibitors [20-21(3)/2012(BSR)]			STARTUP			
16	Pharmacological evaluation, quality control and standardization of some potential antidiabetic plants [20-14(3)/2012(BSR)]	Dr. Arjun Patra	2012-13	UGC-STARTUP	6,00,000	02 yrs	Completed
17	Synthesis, characterization and antiproliferation of oxadiazole derivatives [20-19(3)/2012(BSR)]	Dr. Jagadish Singh	2012-13	UGC-STARTUP	6,00,000	02 yrs	Completed
18	Evaluation of selective imidazoline I <sub>2</sub> receptor ligand as analgesic in chronic neuropathic pain models [20-20(3)/2012(BSR)]	Dr. Rajesh R. Ugale	2012-13	UGC-STARTUP	6,00,000	02 yrs	Left the University before completion of project
19	Phytochemical Investigation and fracture healing activity studies of some medicinal plants of CG State for treatment of bone fracture [F.No. 42-696/2013 (SR)]	Dr. Vinod Rangari	2012-13	UGC-MRP	12,85,000	03 yrs	Completed
20	Isolation of secondary metabolites and evaluation of antisteroidogenic activities of some potential Indian medicinal plants obtained locally from Chhattisgarh state [42-694-2013 (SR)]	Dr. Dilip kumar Pal	2012-13	UGC-MRP	13,23,000	03 yrs	Completed
21	Phytochemical investigations of antisickling activity studies and formulation development of some Indian medicinal plants for the treatment and management of sickle cell anaemia (20/AICTE/RIFD/RPS (POLICY-III)	Dr. Vinod Rangari	2012-13	AICTE-RPS	19,40,000	03 yrs	Completed

	12/2012-13)						
22	A Chemometric way of strategizing extraction of nutraceutical phenolic antioxidants with subcritical water as an eco-conventional extraction fluid: An accelerated green approach for meeting industrial demand [20-27(3)/2012(BSR)]	Dr. Vivekananda Mandal	2012-13	UGC-STARTUP	6,00,000	02 yrs	Completed
23	Design and synthesis of some novel metal (Co, Ni, Ga) complexes of bi / tridentate ligand(s) as potential nucleolytic & anticancer agents [20-28(3)/2012(BSR)]	Dr. Sanjay K. Bharti	2012-13	UGC-STARTUP	6,00,000	02 yrs	Completed
24	Mucoadhesive Chitosan coated Cationic Nanoemulsion: Ocular Drug Delivery System [20-29(3)/2012(BSR)]	Dr. K. Kesavan	2012-13	UGC-STARTUP	6,00,000	2 yrs	Completed
25	Lectin conjugated multiparticulate delivery system for the effective treatment of H. Pylori infections [20/AICTE/RIFD/RPS (Policy-III)]	Dr. Sunil Jain	2013-14	AICTE-RPS	12,00,000	03 yrs	Completed
26	Development and characterization of targeted delivery of purified active phytopharmaceuticals for the effective treatment of crohn's disease. [8-160/RIFD/RPS/Policy-4]	Dr. K.P. Namdeo	2013-14	AICTE	13,22,000	03 years	Completed
27	Development and characterization of natural biodegradable polysaccharides based mulitparticulate formulations for effective targeting to colon for management of	Dr S.K. Lanjhiyana	2013-14	AICTE	14,00,000	03 years	Completed

	inflammatory bowel diseases (8-94/RIFD/RPS/Policy-3)						
28	Design and Synthesis of Novel Histone Deacetylase Inhibitors for Their Potential Antineoplastic Activity (SB/YS/LS/335-2013)	Dr. Harish Rajak	2014-15	DST (SERB), Fast Track Young Scientist Project	25,53,893	03 years	Completed
29	Development of targeted nanovector system(s) for intracellular delivery of cytotoxic agents (SB/YS/LS/333-2013)	Dr. Shivani Rai Paliwal	2014-15	DST (SERB), Fast Track Young Scientist Project	27,00,000	03 years	Completed
30	Search for anticataract agents: Phytochemical and pharmacological investigation (Z28015/107/2014-HPC(EMR)-AYUSH-A)	PI: Dr. S H. Bodakhe Co-PI: Dr. K.P. Namdeo	2015-16	AYUSH	26,55,400	03 years	Completed
31	A search for herbal anticataract drugs from Achanakmar forest area of Chhattisgarh state (Endt No. 1093/CCOST/MRP/2015)	Dr. SH Bodakhe	2015-16	CGCOST, Raipur	1,40,000	02 years	Completed
32	Evaluation of Ethnomedicinal plants of Chhattisgarh against breast cancer (Endt No. 1098/CCOST/MRP/2015)	Dr. Bharti Ahirwar	2015-16	CGCOST, Raipur	2,00,000	02 years	Completed
33	Approaches for exploring some medicinal plants from Chhattisgarh for management of liver disorder and oxidative free radicals by	Dr. Bharti Ahirwar	2016-17	SERB	5,50,000	01 year	Completed

	in-vivo and in-vitro experimental models (SB/EMEQ-515/2014)						
34	Synthesis and biological evaluation of some novel 2-(N-substituted)-3-H- phthalazine-1,4 dione analogues for their potential anti-hypertensive activity (43-488/2014)	Dr. K.P. Namdeo	2015-16	UGC	10,34,600	03 years	Completed
35	Physiological and Biochemical Characterization of Edible Plants Grown in the Vicinity of Thermal Power Plants in Chhattisgarh State: An Impact of Oxidative Stress due to Exposure to Polycyclic Aromatic Hydrocarbons / Empowerment and Equity Opportunities for Excellence in Science (No. EEQ/2016/000067)	Dr. Vivekananda Mandal	2016-17	SERB	39,44,000	03 years	Completed
36	Curbing pest menace in paddy cultivation through effective green solutions with follow up by pilot study and capacity building for potential users. [NRDMS/SC/ST/16/016 (G)]	Dr. Vivekananda Mandal	2016-17	NRDMS	9,85,000	03 years	Completed
37	Role of hippocampus in histaminergic transmission in ethanol withdrawal induced behavioral depression associated with alcohol. (DST/EMR/2016/005051)	Dr. Nishant Jain	2017-18	SERB	41,00,000	03 years	Completed
38	Design synthesis characterization and evaluation of anticancer activity of some new 1,3,4 oxadiazoles derivatives clubbd with isoindoline 1,3-dione	Dr. Jagadish Singh	2017-18	SERB	32,84,000	03 years	Completed

	(EEQ/2017/000197)						
39	Computational ecotoxicological modeling and risk assessment of selected classes of pesticide using chemometric tools	Dr. Partha Pratim Roy	2018-19 (sept-2018)	SERB	25,23,000	03 years	Completed
40	Phytochemical and pharmacological evaluation of some medicinally important plants of Chhattisgarh state. UGC SAP	Co-ordinator: Prof. V.D. Rangari Deputy co-ordinator: Dr. Dilipkumar Pal	2018-19	UGC	55,00,000	05 years	Ongoing
41	Pre-Clinial development of Patented Biphenyl-Thiazolidine dione for the effective management of diabetes	Dr. Akhlesh K Jain	2020-21	ICMR	19,00,000	02 years	Ongoing
42	DST-FIST	Project Implementation Group Coordinator: Prof. Vinod D Rangari Dr. Sanmati Jain Dr. Arjun Patra Dr. SH Bodakhe Dr. Alpana Ram	2020-21	DST	50,00,000	05 years	Ongoing

(Head of the Department)  
(Pharmacy)