

RESEARCH ACTIVITIES & COLLABORATIONS

GOVERNMENT FUNDED RESEARCH PROJECTS

Sr. No.	Research Project Title	Funding Agency	Principal Investigator/Co- Investigator	Outlay (Rs in lakhs)	Status
1	"Soft Electrochemical Processing and Microwave Studies of MgB ₂ and Ba _{1-x} K _x BiO ₃ Superconductivity Films"	CSIR, New Delhi No.SR/S2/CM P-0050/2006 dt. 28.06.2007	Prof.Dr.S.H.Pawar <i>M.Sc. Ph.D., FICC, FMASc</i>	10.33	Completed
2	"Medical Exposure to the population around proposed Nuclear Power Plant Site at Jaitapur, due to diagnostic applications"	BRNS, Mumbai No.2008/36/61-BRNS/3091 dt. 23.03.2009	Dr.R.J.Khyalapa <i>M.D. (Medicine)</i> Dr.Mrs. M.A.Burande <i>M.D. (Pharmacology)</i>	27.1375	Completed
3	"Studies on Establishment of Baseline Levels of Radiation & Radioactivity and Assessment of Radiation Doses Due to Natural and Fallout Radioactivity Around JNPP up to A Distance Of 30 Km From Site"	BRNS, Mumbai No.2008/36/88-BRNS/4023 dt. 23.03.2009	Prof.Dr.S.H.Pawar <i>M.Sc. Ph.D., FICC, FMASc</i> Dr.Mrs. P.N.Pawaskar <i>M.Sc., Ph.D.</i>	46.554	Completed
4	"Baseline Survey on Epidemiological Aspects In Jaitapur Region"	BRNS, Mumbai No.2008/36/71-BRNS/4013 dt. 23.03.2009	Dr.V.S.Patil <i>M.D. (PSM), DPH</i> Dr. V. R. Patkar <i>MBBS</i>	26.391	Completed
5	"Studies on Development of SmSrCoO ₃ / BiCuVO _x / Ni-SDC Planner Solid Oxide Fuel Cell"	DRDO, New Delhi No.ERIP/ER/0703617/M/01/1040 dt. 11.03.2008	Prof.Dr.S.H.Pawar <i>M.Sc. Ph.D., FICC, FMASc</i>	24.00	Completed
6	"Soft Electronical Processing of MnAs Based Nanocomposites for Near Room Temperature Magnetic Refrigeration"	DST, New Delhi SR/S2/CMP-0050/2006 dt 28.06.2007	Prof. Dr.S.H.Pawar <i>M.Sc. Ph.D., FICC, FMASc</i>	24.59	Completed
7	"Fabrication and performance studies of co-planar single	DRDO, New Delhi	Prof.Dr.S.H.Pawar	4.81	Completed

	chamber SmSrCoO ₃ /BiCuVO _x /Ni-SDC SOFC unit cell"	ERIP/ER/1003 862/ M/01/1261dt. 15.09.2011	M.Sc. <i>Ph.D.</i> , FICC, FMASc		
8	"Studies on Synthesis of CoFe ₂ O ₄ magnetic nanoparticles using magnetotactic bacteria for biomedical applications"	DST, New Delhi No.SR/S2/CM P-09-2010 dt. 16.11.2010	Prof.Dr.S.H.Pa war M.Sc. <i>Ph.D.</i> , FICC, FMASc Dr. Smt. S. J. Ghosh M.Sc. <i>Ph.D.</i>	20.78	Comple ted
9	"Development of an electrochemical immunosensor using functionalized magnetic nanoparticles for detection of tumor markers"	DST, New Delhi No.SR/NM/N S-126/2010 (G) dt. 10.10.2011	Prof. Dr. S. H. Pawar M.Sc. <i>Ph.D.</i> , FICC, FMASc Dr. S. A. Murchite M.S. (<i>Surgery</i>)	89.30	Comple ted
10	"Major histocompatibility complex class I related antigen A and B (MIC A/B): Biomarker study for cancer"	Science & Engineering Research Board of DST	Dr. M. G. Joshi, M.Sc., <i>Ph.D.</i>	36.31	Ongoing
			Total	310.2025	

Student ICMR-STs Projects Completed

Sr. No	Year	ICMR ID	Student	Teacher Guide
1	2014	2014-01079	Mr. Aryan Rahul Gune	Dr. Meeta Amit Burande
2	2014	2014-01070	Mr. Akshaya Suresh Gadekar	Dr S S Patil
3	2014	2014-01093	Ms. Bharti Arora	DR R S Khane
4	2014	2014-01101	Ms. Josephine Sebastin	Dr Meghnad Joshi

Research Projects Shorlisted

Sr. No.	Research Project Title	Funding Agency	Principal Investigator/Co-Investigator	Outlay (Rs in lakhs)

1	Study on extracellular and intracellular vitamin B12 markers due to B12 resistance in type 2 Indian diabetics and correlation with neuropathy	DBT October 2013 BT/PR10666/P FN/20/908/201 3	Dr. Mrs. M.A.Burande, HOD of Pharmacology	45.00/-
2	Nanotechnology Based In Vivo Hyperthermia Therapy For Cancer	DST, November 2014 SR/NM/NS- 1489/2014	Prof.Dr.S.H.Pawar	502.18/-

University Funded Research Projects

Sr. No.	Project Title	Principal Investigator	Outlay (Rs.)
1.	"In vitro Biocompatibility Study of Gold Nanoparticle Colloid Solution based Nanomedicine in Treatment of Breast Carcinoma Cell Lines"	Dr. Mrs. M. A. Burande <i>M.D. (Pharmacology)</i>	04,50,000/-
2.	Comparative Study of In Vivo and Invitro Methods for Diagnosis of Latent Tuberculosis"	Dr. S. J. Ghosh <i>M.Sc., Ph.D.</i>	04,75,000/-
3.	"Retinopathy of Prematurity (ROP) Screening at D.Y.Patil Hospital & Medical Research Institute, Kolhapur"	Dr.M.M.Sabnis <i>M.S. (Ophth.)</i>	04,82,000/-
4.	"A Study of Peripheral Neuropathy in Type-2 Diabetes"	Dr.R.J.Khyalappa <i>M.D. (Medicine)</i>	04,99,200/-
5.	"An anatomical study of Upper and lower spinal cord blood supply: The continuity of the anterior spinal artery and the origin of the arteria radiocularis magna"	Dr.Mrs.V.R.Nikam <i>M.S. (Anatomy)</i>	04,50,000/-
6.	"Comparative Study of Puva and Narrow Band UVB (NBUVB) in Palmoplantar Psoriasis"	Dr. Yoganand Phulari <i>M.D. (Skin & VD)</i>	4,55,000/-
7.	"Studies on Development and Performance of Slica Nanocomposite Based Cholesterol Nanobiosensor"	Dr. B. M. Tiwale <i>M.Sc., Ph.D.</i>	04,40,000/-
8.	"Evaluation of Fetal Nuchal Translucency in Diagnosis of Trisomy"	Dr. Ajit N. Patil <i>M.D. (Gyn.)</i>	02,40,000/-
9.	"Prediction of oesophageal varices in patients of chronic liver disease using clinical, ultrasound and color Doppler parameters."	Dr. Nitin Wadhvani, <i>M.D. (Radiology)</i>	12,30,000/-
10.	"To study deaf-mutism and various method	Dr. Mrs. R.S.Mane,	13,10,000/-

	of rehabilitation in children in Kolhapur District.”	M.S. (ENT)	
11.	“Assessing the foot at risk and reducing the incidence of amputation in diabetic patients.”	Dr.Mrs.V.V.Gaikwad, M.S. (Surgery)	25,24,000/-
12.	“An Interventional study of implementing Advocacy- communication and social mobilization (ACSM) activities for TB control in powerloom workers of Ichalkaranji to assess improvement in TB-related knowledge, attitudes, stigma and health seeking practices.”	PI-Dr. Snehdeep S. Patil Co-PI-Dr. Anjali Wagh Dr. T.A. More	2,75,000/-
13.	“To assess the effectiveness of innovative <u>Special Nutrition Mix</u> given to the children attending Anganwadis in Kasaba Bawada.”	PI-Dr. Anjali V. Wagh CO-PI-Dr. Jagirdar P. B., Dr. Yadav J. U.	6,00,000/-
14.	“Baseline survey of a village under <u>Sansad Adarsh Gram Yojana (SAGY)</u> ”	PI-Dr. Vijayakumar S. Patil CO PI-Dr. Snehdeep Patil Dr. More Tulsidas A.	6,50,000/-
15.	“Microarray profiling of human endometrium biopsies: identifying stem cells/angiogenic regime in dysfunctional uterine bleeding.”	PI-Dr. Indumathi Somasundaram	2,20,000/-
16.	“To study the antibiotic resistance in the organisms isolated from the clinical samples”	PI-Dr. Vatkar Vishwashanti S. Co PI-Dr. Ms. S. J. Ghosh Dr. Penkar R. S.	3,25,000/-
17.	“Study of human Microbiology and their role in malignancy and other disease.”	PI-Dr. Ms. S. J. Ghosh Co PI-Dr. Mrs. V .S. Vatkar Dr. Shilpa Singh	1,50,000/-
18.	“Development and charactererization of polymeric nanoparticle based budesonide dry powder for bronchial asthma”	PI-Dr. Kulkarni Suhas	3,90,000/-
19.	“To study efficacy of Q-switched lasers in tattoo-removal & other pigments skin conditions”	PI-Dr. Shashikant B. Dhumale	5,00,000/-
		Total	1,16,65,200/-

Collaborations

Sr. No.	Date	Name of Institute	Collaborative Research Work Title/Purpose of MOU
1	7 th November, 2011	School of Life Sciences, Shanghai University, Shanghai, P. R. China	"Electrochemical Nano-immunosensors for early Detection of Tumor Markers"
2	17 th January, 2014	Quantum Photonic Science Research Centre, Hanyang University, Seoul, Korea	"Core-shell magneto-plasmonic nanoparticles for biomedical applications"
3	29 th April, 2013	Centre of Excellence for MicroPhotonic Systems Edith Cowan University, Australia	Early Detection of Breast Cancer
4	7 th February, 2014	Anglia Ruskin University, Cambridge	UK India Research Initiative Programmes
5	10 th April 2014	Loffe Physical-Technical Institute St. Petersburg, Russia	Development of methods for obtaining new magnetic nanostructures and creation on their basis of highly effective multi functional bio-composites for Biomedical applications
6	23 rd -29 th July 2013	Golden Formula Centre, St. Petersburg, Russia	Role of Graphenes Nanotechnology in Purification of water