



D. Y. Patil Education Society, Deemed to be University, Kolhapur

INTERNAL PROJECTS (Up to Oct 2025)

Sr. No.	Name of Projects	PI Name	Funding Agency	Department	Year	Amount (Rs.) in Lakhs	Duration
1	Anti-angiogenic ability of itraconazole their reversal using endometrial stem cells using chick embryo as a model system: its applications in treating vascular diseases.	PI-Dr. R. K. Sharma Co-PI-Dr. Indumathi Somasundaram	D. Y. Patil Education Society	Obst-Gyn & Stem Cell	2017-19	5.7	2 Year
2	Haptoglobin levels and Phenotype in Type 2 Diabetes and Association of Haptoglobin levels with diabetic Cardiovascular Complications.	Dr. Mrs. Shimpa Sharma	D. Y. Patil Education Society	Medicine	2017-19	5.0	2 Year
3	Wound healing efficacy of bone marrow-derived mesenchyal stem cells and platelet rich plasma in diabetic rats.	Dr.Mrs. Meeta Burande	D. Y. Patil Education Society	Pharmacology	2017-19	6.60	2 Year
4	Study the surface engineered lipid Nanoparticles for site specific delivery to overcome cancer drug resistance mechanism.	Dr. Arvind Gulbake	D. Y. Patil Education Society	CIR	2017-20	6.95	3 Year

5	Multimodal Superparamagnetic Cobalt Zinc Ferrite Nanoparticles for Magnetic Hyperthermia Based Theranostic for Cancer.	Dr. Raghavendra Bohara	D. Y. Patil Education Society	Stem-Cell	2017-20	4.90	3 Year
6	Palmar Arch Anatomy in Soft Embalmed Cadavers.	Dr. Mrs. Anita R. Gune	D. Y. Patil Education Society	Anatomy	2018-21	8.63	3 Year
7	Morphology of Lumbricals and its Mode of Innervation in Soft Embalmed Cadavers.	Dr. Arun Karmalkar	D. Y. Patil Education Society	Anatomy	2018-21	8	3 Year
8	Effect of Yoga Practice on blood glucose level in newly detected diabetic adults.	Dr. Sudhir P. Sase	D. Y. Patil Education Society	Biochemistry	2018-19	1	1 Year
9	Effect of HAART on Hematological Profile and Oxidative Stress in HIV Naive patient.	Dr. Sunita Patil	D. Y. Patil Education Society	Pharmacology	2018-19	1.77	1 Year
10	Predictive and Prognostic Factor in Breast Cancer and their Association with ER PR HER2/neu Expression.	Dr. Mrs. S. S. More	D. Y. Patil Education Society	Pathology	2018-20	1.20	1.5 Year
11	Study of Biofilm and the antibiotic resistance pattern in gram negative bacilli isolated from clinical samples.	Dr. Mrs. V. S. Vatkar	D. Y. Patil	Microbiology	2018-21	2.73	3 Year

			Education Society				
12	Study of mobile phone addiction and self-reported symptoms among college students of Kolhapur: A Community Based Study.	Dr. Jeevan Yadav	D. Y. Patil Education Society	PSM	2018-20	2.45	2 Year
13	Study to Evaluate the Efficacy of Human Fibroblast Growth Factor in Regeneration of Tympanic Membrane Perforations.	Dr. Mrs. Anjana Mohite	D. Y. Patil Education Society	ENT	2018-21	6.66	3 Year
14	To study the prevalence of diabetic otopathy.	Dr. Mrs. Rajashri Mane	D. Y. Patil Education Society	ENT	2018-20	9.0	2 Year
15	Transition metal oxide based electrodes for ultrahigh energy (60 Whkg ⁻¹) targeted asymmetric supercapacitor.	Prof. C. D. Lokhande	D. Y. Patil Education Society	CIR	2018-21	8.10	3 Year
16	Synthesis of nickel-cobalt phosphate thin films as an electrocatalyst for non-enzymatic glucose sensing.	Dr. Umakant Patil	D. Y. Patil Education Society	CIR	2018-21	8.40	3 Year
17	Enabling library of layered double hydroxide [M ²⁺ _{1-x} M ³⁺ _x (OH) ₂] ^{x+} [A ⁿ⁻ _{x/n}] ^{x-} ·mH ₂ O (M ²⁺ : Ni, Ca, Mg, Zn, M ³⁺ : Cr/Fe) based hybrids for supercapacitor and Bio-Medical Applications.	Dr. Jayavant Gunjekar	D. Y. Patil Education Society	CIR	2018-21	8.10	3 Year

18	Appraisal of characteristics of Lanthanum Oxides for Applications in bio-sensing capabilities.	Dr. Mrs. Padmaja Pawaskar	D. Y. Patil Education Society	CIR	2018-21	8.10	3 Year
19	Generation of Tissue Engineered functional Kidney.	Dr. Meganadh Joshi	D. Y. Patil Education Society	CIR	2018-21	9.67	3 Year
20	Synthesis and characterization of silicon, nanographite, GO and rGO as an anode material for lithium ion batteries.	Dr. Manisha Phadtare	D. Y. Patil Education Society	CIR	2019-22	9.99	3 Year
21	Studying the effect of CD146 and its isoforms in endometrial stem cell derived angiogenesis for their vascular regeneration.	Dr. Indumathi Somasundaram	D. Y. Patil Education Society	CIR	2019-22	10	3 Year
22	Identification of molecular targets of bioactive molecules in <i>Candida albicans</i> to inhibit Biofilm formation.	Dr. Ashwini Jadhav	D. Y. Patil Education Society	CIR	2019-22	9.75	3 Year
23	Effect of yoga practices on menstrual irregularities represented in terms of RBC count, Haemoglobin levels and Reaction time.	Dr. Amruta Kumbhar	D. Y. Patil Education Society	Physiology	2019-20	0.52	9 Months
24	Binge watching behaviour a in undergraduate students: A pilot study.	Dr. Devavrat Harshe	D. Y. Patil	Psychiatry	2019	0.30	4 Months

			Education Society				
25	Comparative Study Between Stapled and Open Hemorrhoidectomy.	Dr. Sheetal Murchite	D. Y. Patil Education Society	Surgery	2019-22	3.0	3 Year
26	Comparative Study of Bilateral Versus Alternate Sided Nasal Pack Removal After Septoplasty.	Dr. Ganesh Tarlekar	D. Y. Patil Education Society	ENT	2019-22	7.67	3 Year
27	Glucosinolates as Antifungals: An Exploratory study on <i>Candida albicans</i> .	Dr. Ashwini Jadhav	D. Y. Patil Education Society	CIR	2021-24	10	3 Year
28	Targeted Destruction of Cancer Stem Cells by Surface (CD271+) Functionalized Iron Oxide Nanoparticles.	Dr. Arpita Pandey Tiwari	D. Y. Patil Education Society	CIR	2021-23	10	2 Year
29	Preparation and Characterization of Herbal Based Scaffolds for full Thickness.	Dr. Shivaji Kashte	D. Y. Patil Education Society	CIR	2021-24	10	3 Year
30	Development of Biocompatible $Zn_xFe_{3-x}O_4$ (x=0 to 1) Magnetic Nanocrystals as an Efficient Heating Mediator in Magnetic Hyperthermia.	Dr. Vishwajeet Khot	D. Y. Patil Education Society	CIR	2021-24	9.90	3 Year

31	Role of Estrogen Receptor, Progesterone Receptor, and Human Epidermal Growth Factor Receptor type 2/neu, Ki67 in Surface Epithelial Ovarian Tumors and its Histopathological Correlation.	Dr. Sapana Deshpande	D. Y. Patil Education Society	Pathology	2021-23	2	2 Year
32	Identification of HPV DNA Strains in Patients of Cervical Lesions. (Preinvasive and Invasive Carcinoma).	Dr. Sangeeta Desai	D. Y. Patil Education Society	Obst & Gyan	2021-24	9.80	3 Year
33	Fabrication of DNA based Prototype Paper Device for Tuberculosis (TB) Detection.	Dr. Deepak V. Sawant	D. Y. Patil Education Society	Microbiology	2021-23	9.95	2 Year
34	Effectiveness of Learning Package on Knowledge and Coping Strategies Regarding Peri-Menopausal Symptoms Among School Teachers.	Prof. Manisha A. Bijapurkar	D. Y. Patil Education Society	Nursing	2021-24	1.38	3 Year
35	To Study the Audiological and Radiological Evaluation of Hearing-Impaired Children.	Dr. Vasundhara Varute	D. Y. Patil Education Society	ENT	2021-24	8.95	3 Year
36	Synthesis of rGo/WO ₃ and rGo/ MoO ₃ films for supercapacitors and antimicrobial applications.	Prof. C. D. Lokhande	D. Y. Patil Education Society	CIR	2022-25	6.30	3 Year

37	Glutathione-responsive superparamagnetic iron oxide nanoparticles for in vitro magneto-chemotherapy of cancer stem cell.	Prof. R. S. Patil (PI) Dr. V. M. Khot (Co-PI)	D. Y. Patil Education Society	Allied Health Science	2022-25	6.90	3 Year
38	Synthesis of M-Vanadate/rGO (M=Ni and/or Co) Composite Thin Film Electrode for Hybrid Supercapacitor Device.	Dr. Umakant M. Patil	D. Y. Patil Education Society	CIR	2022-25	7.20	3 Year
39	Lattice engineering route for Ni-Fe-layered double hydroxide-polyoxovanadate nanohybrids: Application in electrocatalytic oxygen evolution reaction and device development.	Dr. Jayavant L. Gunjekar	D. Y. Patil Education Society	CIR	2022-25	7.20	3 Year
40	Effect of paternal age on semen parameters in infertile male.	Dr. Mahadeo Mane (PI) Dr. Sunita B. Patil (Co-PI)	D. Y. Patil Education Society	Pathology	2022-25	5.85	3 Year
41	A Study of red cell alloimmunization in multi-transfused patients of thalassemia major.	Dr. Suchita V. Deshmukh (PI) Dr. Meena N. Jadhav (Co-PI)	D. Y. Patil Education Society	Pathology	2022-25	1.51	3 Year
42	Repositioning of anti-depressants as antifungals: a study in Candida albicans.	Dr. G. R. Harshe (PI) Dr. Ashwini K. Jadhav (Co-PI)	D. Y. Patil Education Society	Psychiatry	2022-25	5.76	3 Year

43	Effect of Infusionarium on the anxiety and emotional health of children with thalassemia undergoing infusion therapy.	Ms. Richa Jadhav (PI) Mrs. Janaki Shinde (Co-PI)	D. Y. Patil Education Society	Nursing	2022-23	4.05	1 Year
44	Effect of Non-conventional attire of health care workers on the anxiety level among hospitalized children.	Mrs. Janaki Shinde (PI) Ms. Leena Lokhnade (Co-PI)	D. Y. Patil Education Society	Nursing	2022-23	1.44	1 Year
45	Nanopolymer for wound healing application in diabetic foot ulcer.	Dr. Vaishali Gaikwad (PI) Dr. Rajesh Khyalappa (Co-PI)	D. Y. Patil Education Society	Surgery	2022-25	9.95	3 Year
46	Role of placental mitochondrial function in the pathogenesis of intrauterine growth restriction.	Dr. R. K. Sharma (PI) Dr. Vasudha Sawant (Co-PI) Dr. Megnad G. Joshi (Consultant)	D. Y. Patil Education Society	Obstetrics and Gynecology	2023-26	10	3 Year
47	Expression of Hepatocyte Transcription Factors in Different Stages of Chronic Liver Disease and Its Histopathological, Biochemical and Clinical Correlation.	Dr. Shimpa R. Sharma (PI) Dr. Vrishti Jain (Co-PI)	D. Y. Patil Education Society	General Medicine	2023-26	10	3 Year

		Dr. Megnad G. Joshi (Consultant)					
48	Generation of urinary bladder using decellularized human chorion membrane and Lagocephalus inermis (Puffer fish) skin scaffold for the potential use in urinary bladder reconstruction.	Dr. Meghnad G. Joshi (PI)	D. Y. Patil Education Society	Stem Cells & Regenerative Medicine	2023-26	10	3 Year
49	Mo-doped BiVO ₄ hybridized with 2D TiNbO ₅ nanosheets for photocatalytic degradation of tetracycline.	Dr. Sharad B. Patil (PI)	D. Y. Patil Education Society	Medical Physics	2023-26	7.90	3 Year
50	Electrochemical Biosensor Based Prototype for Detection of Dengue Infection.	Dr. Arpita Pandey Tiwari (PI)	D. Y. Patil Education Society	Stem Cells & Regenerative Medicine and Medical Biotechnology	2023-25	10	2 Year
51	Lactobacillus Species Loaded with Magnetite Nanoparticles for Anticancer Activity in Colon.	Dr. Abhinandan R. Patil (PI) , Dr. Vishwajeet M. Khot (Co-PI)	D. Y. Patil Education Society	Pharmacy	2023-26	8.80	3 Year
52	Elderberry extract in viral respiratory tract infections in school going children: randomized controlled trial.	Dr. Suhas Kulkarni (PI) , Dr. Hemant Bharati (Co-PI)	D. Y. Patil Education Society	Pediatrics	2023-26	8.90	3 Year
53	Comparison of endocrine complications in transfusion dependent vs non transfusion dependent	Dr. Priti Kamble (PI) ,	D. Y. Patil	Pediatrics	2023-24	4.67	1 Year

	beta thalassemia children between 11-20 years age group with relation to serum ferritin level.	Dr. Devayani Kulkarni (Co-PI) , Dr. Anil Kurane (Co-PI)	Education Society				
54	A cross sectional study to identify the prevalence of obesity and its selected influencing factors among adults residing at Shirolu Pulachi village of Kolhapur.	Mr. Shivgonda Patil (PI) Mrs. Sheetal Kamble (Co-PI)	D. Y. Patil Education Society	Nursing	2023-24	0.65	1 Year
55	Inflammatory markers (IL-6, D-dimer, LDH, Ferritin and CRP) in Anti-SARS-CoV-2 IgG antibodies positive v/s negative newborns.	Dr. Ravindra Pawar (PI) , Dr. Nivedita Patil (Co-PI)	D. Y. Patil Education Society	Pediatrics	2023-24	7.77	1 Year
56	Anti SARS COV2 antibodies and D dimer levels in pregnant women and cord blood at the time of delivery.	Dr. Archana Raje (Kumbhar) (PI) Dr. Vasudha Sawant (Co-PI) Dr. Harita Mahesh Nair (Co-PI) Dr. Ravindra Pawar (Co-PI)	D. Y. Patil Education Society	Pediatrics	2023-24	7.80	1 Year
57	Synthesis of CeO ₂ Based Nickel Cobalt Phosphide (NiCoP) Nanocomposites for Hydrogen Evolution Reaction.	Dr. Pravin P. Pawar (PI) , Dr. Umakant M. Patil (Co-PI)	D. Y. Patil Education Society	Medical Physics	2024-27	9.25	3 Year
58	Exploring the Relationship between Vaginal Flora and Fertility.	Dr. Rajani S. Bansode (PI) ,	D. Y. Patil	Stem Cell and Regenerative Medicine and	2024-27	8.30	3 Year

		Dr. Archana Raje (Kumbhar) (Co-PI)	Education Society	Medical Biotechnology			
59	Liquid Based Cytology and Conventional Pap Smears as Screening Techniques in Assessing Cervical Cytology-A Comparative Study.	Dr. Meena. N. Jadhav (PI) , Dr. Suchita. V. Deshmukh (Co-PI)	D. Y. Patil Education Society	Pathology	2024-26	5.95	2 Year
60	Soft Tissue Tumor (STT) Differentiation with Novel Immunohistochemistry markers.	Dr Amruta K Thomake (PI) , Dr. Mahadeo A. Mane (Co-PI)	D. Y. Patil Education Society	Pathology	2024-26	5.30	2 Year
61	Efficacy of Collagen Dressing in Canal Wall Down Mastoidectomy.	Dr. Rajashri. S. Mane (PI) , Dr. Balasaheb C. Patil (Co-PI)	D. Y. Patil Education Society	Otorhinolaryngology	2024-26	0.73	2 Year
62	Study of hearing loss in individuals with allergic rhinitis.	Dr. Anjana A. Mohite (PI) , Dr. Rajashree Mane (Co-PI)	D. Y. Patil Education Society	Otorhinolaryngology	2024-27	2.40	3 Year
63	Development of Relax Nest Electric Moist Heating Pad and its Effect on Individuals with Non-specific Low Back Pain.	Dr. Amrutkuvar Rayjade (PI) , Dr. Neelam Tejani (Co-PI)	D. Y. Patil Education Society	Physiotherapy	2024-26	5.50	2 Year
64	Mechanisms Underlying Endothelial Dysfunction in Submucous Fibroid-Related Infertility.	Dr. Prashant Shah (PI) ,	D. Y. Patil	Obstetrics and Gynecology	2024-27	8.30	3 Year

[illegible]