

The logo for DPU (Dr. D. Y. Patil Vidyapeeth, Pune) features the letters 'DPU' in a bold, red, serif font. A stylized, golden-yellow graphic element, resembling a flame or a feather, is positioned behind the letter 'D'.

**Dr. D. Y. PATIL VIDYAPEETH, PUNE**

**(Deemed to be University)**

(Re-accredited by NAAC with a CGPA of 3.62 on a four point scale at 'A' Grade)

20<sup>th</sup> rank in **Medical Category** and 46<sup>th</sup> rank in **University Category** in India (NIRF-2019)  
(Declared as **Category - I University** by UGC Under Graded Autonomy Regulations, 2018)

(An ISO 9001 : 2015 and 14001 : 2015 Certified University)

# INTERDISCIPLINARY RESEARCH

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## **INTRODUCTION**

As per the AAA committee recommendation in 2014 for promoting and strengthening Interdisciplinary research at DPU, it has taken steps to enhance the activities. In every constituent colleges a co-ordinator is appointment who will overlook the Interdisciplinary research and promote it. All these co-ordinators are the members of the Interdisciplinary Research committee which has been formed at the University level.

Interdisciplinary research is a mode of research by teams or individuals that integrates information, data, techniques, tools, perspectives, concepts, and/or theories from two or more disciplines or bodies of specialized knowledge to advance fundamental understanding or to solve problems whose solutions are beyond the scope of a single discipline or area of research practice.

This type of study allows the student to learn by making connections between ideas and concepts across different disciplinary boundaries. Students learning in this way are able to apply the knowledge gained in one discipline to another different discipline as a way to deepen the learning experience. The most effective approach to interdisciplinary study enables students to build their own interdisciplinary pathway by choosing courses which make sense to them. For example, it is not too difficult to find a theme which crosses over disciplinary boundaries in literature, art and history or science and mathematics. Studying topics thematically is one way to bring ideas together resulting in more meaningful learning. This can occur by allowing students to choose their own subjects and their learning is deepened when they reflect on the connections between what they are learning in different disciplines.

Interdisciplinary teaching and learning is maximized when professionals from different disciplines work together to serve a common purpose and to help students make the connections between different disciplines or subject areas. Such interaction is in support of the constructivist paradigm which allows for new knowledge construction and a deeper understanding of ideas than disciplinary study.

DPU has long recognized the value of interdisciplinary research in pushing fields forward and accelerating scientific discovery. Important research ideas often transcend the scope of a single discipline or program. DPU also understands that the integration of research and education through interdisciplinary training prepares a workforce that undertakes scientific challenges in innovative ways. Thus, it gives high priority to promoting interdisciplinary research and supports it.

The main aim is to get together researchers of diverse background to work for the common goal of humanity welfare and to break the water tight compartment of individual discipline and work in unity for the common good.

## INTERDISCIPLINARY RESEARCH COMMITTEE

Sr. No.	Names	Designation
1	<b>Dr N J Pawar</b> Vice- Chancellor, DPU	Chairman
2	<b>Dr Ramesh Bhonde</b> Director, (Research)	Co-Chairman
3	<b>Dr. Chandrashekhar G Raut</b> Director – Interdisciplinary Research, DYPMC	Member
4	<b>Dr Pramila Menon</b> Dr. D. Y. Patil Medical College, Hospital and Research Centre, Pimpri, Pune	Member
5	<b>Mr Avinash Thakur</b> ,CEO, Inovation Cell	Member
6	<b>Dr.SupriyaKheur</b> Dr. D. Y. Patil Dental College & Hospital, Pimpri, Pune	Member
7	<b>Dr.Tanushree Banerjee</b> Dr. D. Y. Patil Biotechnology and Bioinformatics Institute, Tathawade, Pune	Member
8	<b>Dr. Chetan Chaudhari</b> Global Business School & Research Centre, Tathawade, Pune	Member
9	<b>Dr.Mrs NishaNaik</b> Dr. D. Y. Patil College of Nursing, Pimpri, Pune	Member
10	<b>Dr.M.Vijaykumar</b> Dr. D. Y. Patil College of Physiotherapy, Pimpri, Pune	Member
11	<b>Dr.Neeta Mishra</b> Dr. D. Y. Patil Institute of Optometry & Visual Sciences, Pimpri Pune	Member
12	<b>Dr.ParthAphple</b> Dr. D. Y. Patil Homoeopathic Medical College & Research Center, Pune	Member
13	<b>Dr.ShitalRasne</b> Dr. D. Y. Patil College of Ayurved& Research Centre, Pune	Member
14	<b>Dr A V Kulkarni</b> Dr. D. Y. Patil Institute of Technology, Pimpri, Pune	Member
15	<b>Dr.SatishShirolkar</b> Dr. D. Y. Patil Institute Pharmaceutical Sciences & Research, Pimpri, Pune	Member
16	<b>Dr Sarika Chaturvedi</b> Sr Scientist, DPU.	Member
17	<b>Dr PradnyaKakodkar</b> Dy. Director (Research)	Member Secretary

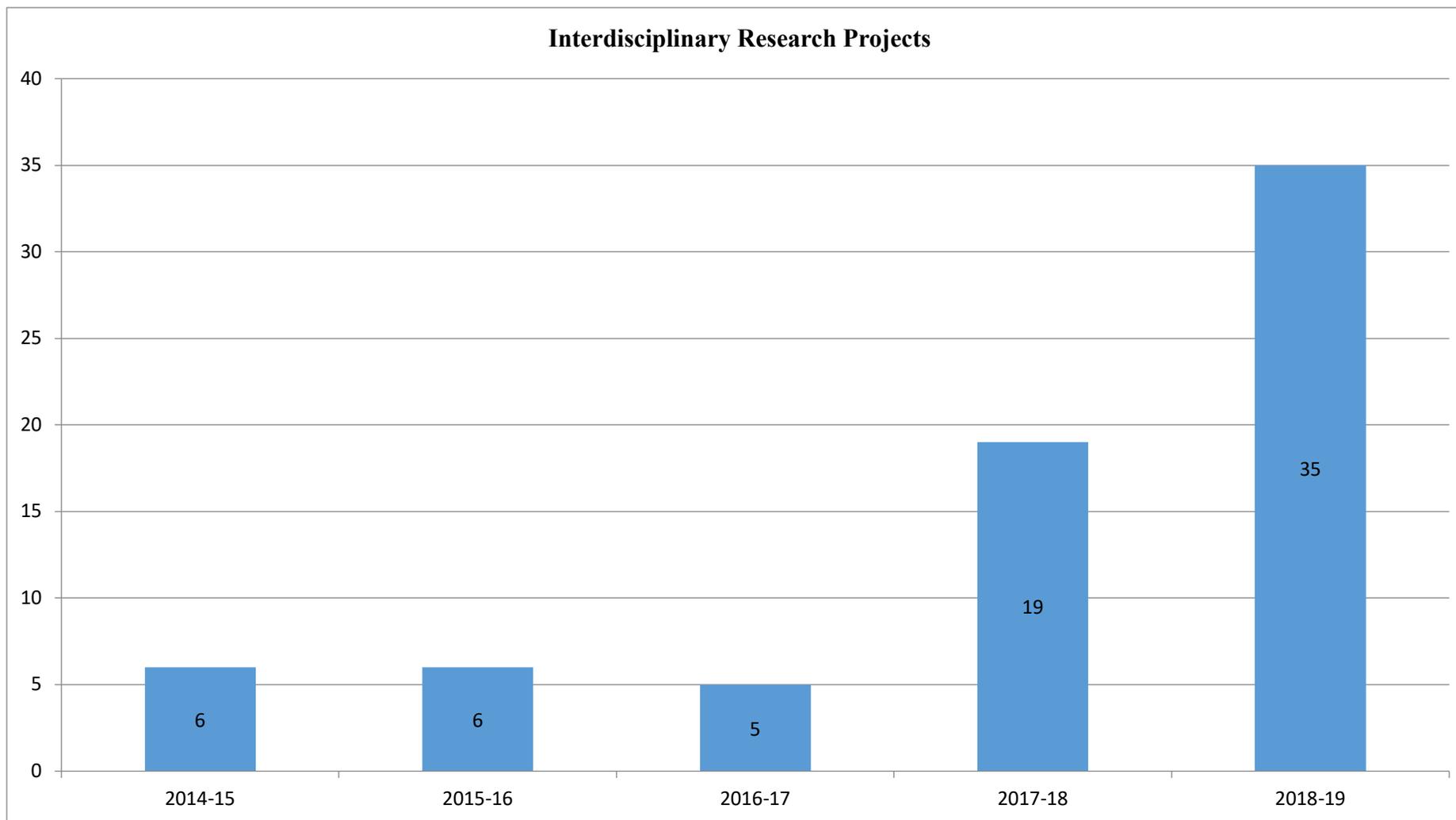
### **Role and Responsibilities of the committee.**

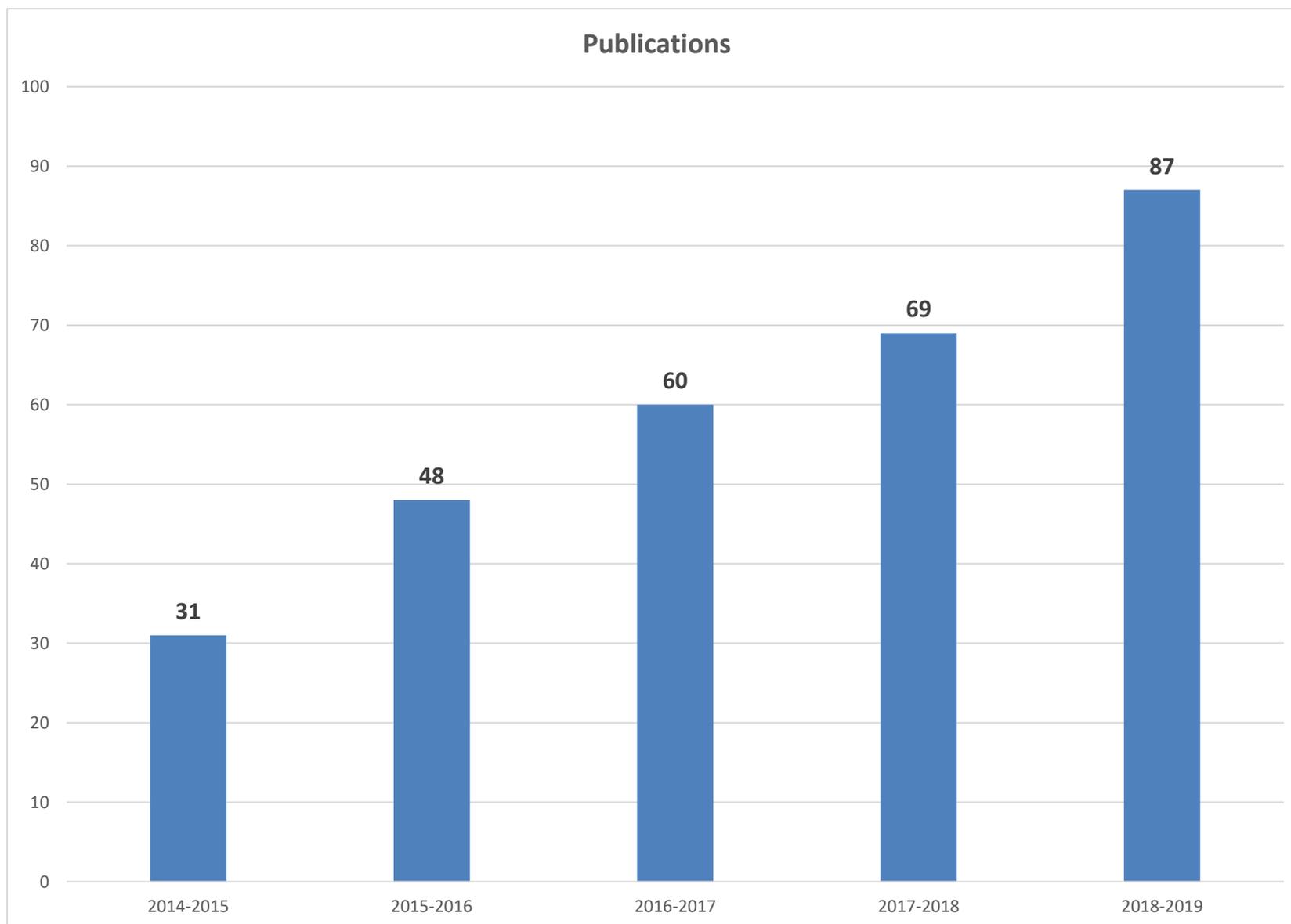
1. Under the leadership of the chairman the committee will meet once every month at the different constituent college.
2. The agenda of the meeting will be to discuss the different Interdisciplinary activities conducted at the different colleges and share scientific knowledge.
3. To conduct different workshop under the Interdisciplinary context.
4. To sensitize the researchers under the DPU ambit to come together on a common platform and undertake research.

### **Role and Responsibilities of the Co-ordinator at the Constituent colleges.**

1. The co-ordinator is appointed who will overlook the Interdisciplinary research and promote it.
2. To sensitize groups to conduct Interdisciplinary research.
3. To maintain scientific data regarding Interdisciplinary research.
4. To participate in the monthly meeting.
5. To showcase the Interdisciplinary research activities during the meeting at the host college.

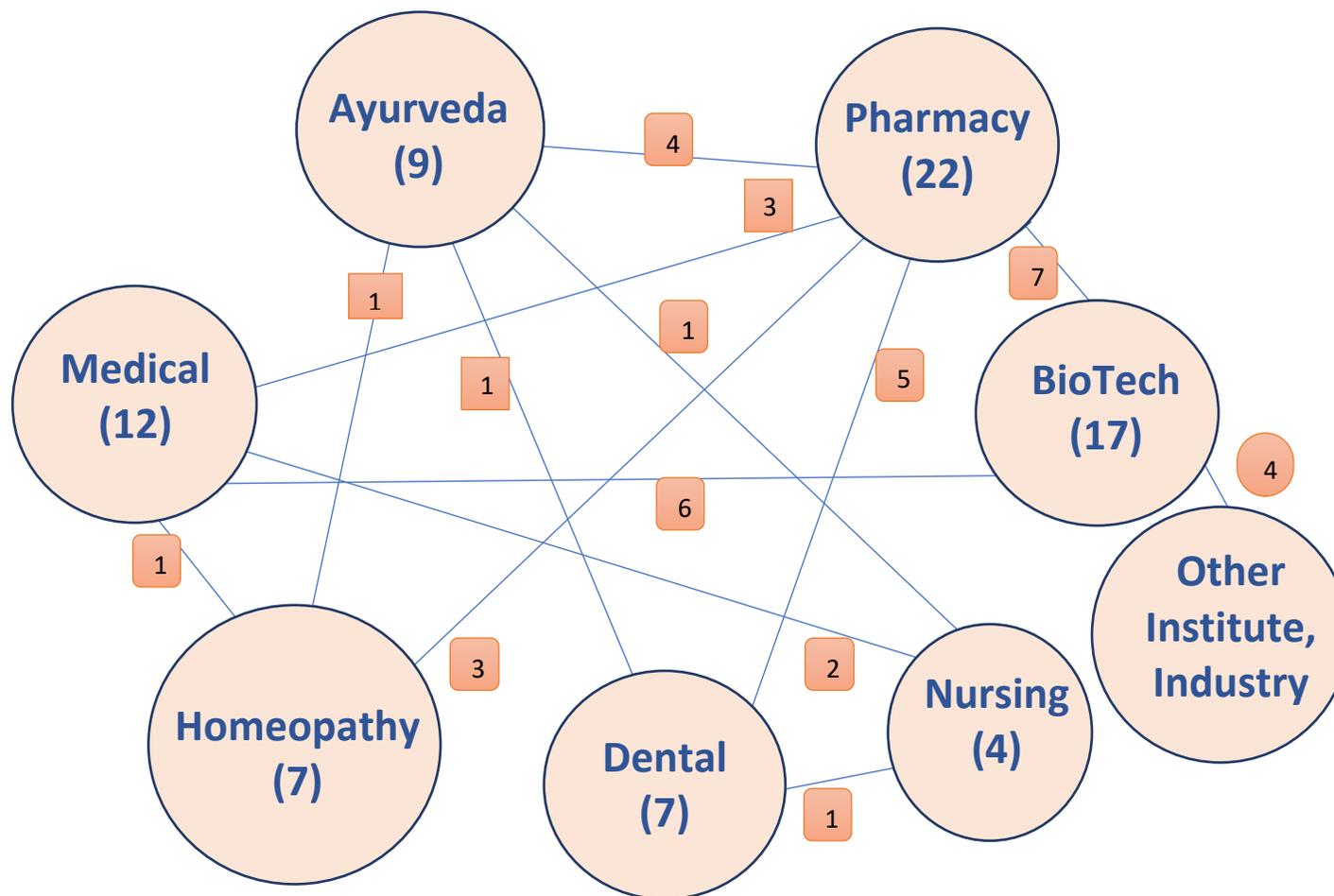
**STATISTICS / LINKAGES**





## LINKAGES

The constituent colleges of DPU have undertaken a total of 78 interdisciplinary research projects during 2014-2019. Many of these projects are collaborative works within different DPU institutions while some are with external agencies. The diagram below presents these linkages between DPU institutions for interdisciplinary projects, the numbers on the arrows correspond to the number of projects during the recent five years. The numbers along with the names of institutions show the total number of interdisciplinary projects at that institution ranging from 4 at nursing college to 22 at the Pharmacy college.



## RESEARCH PROJECTS (2014 - 2019)

**DR. D. Y. PATIL HOMOEOPATHIC MEDICAL COLLEGE & RESEARCH CENTRE, PUNE**

### LIST OF INTERDISCIPLINARY RESEARCH PROJECTS

Sr. No	Title of the project	Institutions involved	Name of the investigators	Year	Duration	Outcome in the form of papers/ patents/ conference/ training
1	A study of literature of Homoeopathic therapeutics and Ayurvedic Dravya Guna in a few Indian drugs	Dr. D. Y. Patil Ayurvedic College and Hospital, Pune;	Dr. Chaphekar P.A Dr. Changade J.V.	2014-15	1 year	NIL
2	Assessment of Homoeopathic preparation of Sulphur with the help of UV spectroscopy.	Dr. D. Y. Patil College of Pharmacy, Pune	Dr Parth Aphale Dr. Asha Thomas	2014-15	1 year	Paper published
3	Analysis of mother tinctures with the help of high performance thin layer chromatography.	Dr. D. Y. Patil College of Pharmacy, Pune.	Dr Parth Aphale Dr. Asha Thomas	2014-15	1 year	Paper published
4	Qualitative analysis of Calendula Homoeopathic Mother Tincture with the help of high performance thin layer chromatography	DYP College of Pharmacy & DYPHMC.	Dr D.B. Sharma, Dr. Vipul Gandhi, Dr. Parth Aphale	2018-2019	1 year	Paper publication in process
5	Evaluation Of Conium Maculatum And Thuja Occidentalis Homoeopathic Mother Tincture On Proliferation And Apoptosis Of MCF7 Breast Cancer Cell Line.	Dr D Y Patil Homoeopathic Medical College and DPU Molecular diagnostic Laboratory	Dr. Vipul Gandhi, Dr.Ramesh Bhonde,Dr D B Sharma	2019-2020	2 year	NIL

**DR. D. Y. PATIL UNITECH SOCIETY'S  
DR. D.Y. PATIL INSTITUTE OF PHARMACEUTICAL SCIENCES AND RESEARCH,  
LIST OF INTERDISCIPLINARY RESEARCH PROJECTS**

<b>Sr. No.</b>	<b>Title of project</b>	<b>Investigators</b>	<b>Institutions involved</b>	<b>Duration (From-To Year)</b>	<b>Outcome in terms of papers/patents</b>
1	In-silico designing of new chemical entities	Dr. A. B. Thomas Dr. Swami	Dr. D. Y. Patil IPSR and Dr. D. Y. Patil Biotechnology and Bioinformatics	2018 - till date	Work in progress
2	Drug resistance and anticancer Screening of the new chemical entities	Dr. A. B. Thomas Dr. N. Nawani	Dr. D. Y. Patil IPSR and Dr. D. Y. Patil Biotechnology and Bioinformatics	2018 - till date	Work in progress
3	Aayush project on Herb drug interactions	Dr. A. B. Thomas Dr. A. Dubewar	Dr. D. Y. Patil IPSR and Dr. D. Y. Patil College of Ayurveda and research centre	2018 - till date	Project submitted
4	Quantitative analysis of Calendula homeopathic mother tincture using HPTLC	Dr. A. B. Thomas Dr. Parth	Dr. D. Y. Patil IPSR and Dr. D.Y. Patil Homoeopathic Medical College & Research Centre	2018 - till date	1 Publication
5	Implantable bone regenerative scaffolds	Dr. R. V. Badhe Dr. S. Kheour Dr. N. Nawani	Dr. D. Y. Patil IPSR, Dr. D. Y. Patil Dental College and Dr. D. Y. Patil Biotechnology and Bioinformatics	2018 - till date	1 publication 1 award 1 Patent 3 presentations
6	Cartilage regeneration from dental pulp stem cells	Dr. R. V. Badhe Dr. Lakshmi Shetti	Dr. D. Y. Patil IPSR and Dr. D. Y. Patil Dental College	2018 - till date	3 presentations
7	Cartilage and Bone regeneration from dental pulp stem cells	Dr. R. V. Badhe Dr. S. Kheour	Dr. D. Y. Patil IPSR and Regenerative Medicine Research Lab	2018 - till date	1 publication 3 presentations
8	Anti-acne project	Dr. S. S. Bhujbal Dr. Neelema Dharkar	Dr. D. Y. Patil IPSR and Patil College of Ayurveda and research centre	2018 - till date	Work in progress
9	Aayush project on Tobacco cessation submitted	Dr. S. S. Bhujbal Dr. Neelema Dharkar	Dr. D. Y. Patil IPSR and Patil College of Ayurveda and research centre	2018 - till date	Project submitted
10	Leaf base species identification an Artificial Intelligence approach	Dr. S. S. Bhujbal Dr. Minal Wani	Dr. D. Y. Patil IPSR and Dr. D. Y. Patil Biotechnology and Bioinformatics	2019 - till date	Yet to start the study

Sr. No.	Title of project	Investigators	Institutions involved	Duration (From-To Year)	Outcome in terms of papers/patents
11	DRDO - Clinical Trials	Multiple departments	Dr. D. Y. Patil IPSR and Dr. D. Y. Patil Medical College and Research Center	2019 - till date	Yet to start the study
12	Neurological assays	Dr. V. R. Undale Dr. N. Nawani	Dr. D. Y. Patil IPSR and Dr. D. Y. Patil Biotechnology and Bioinformatics	2018-till date	Work in progress
13	Preclinical evaluation for anticancer activity	Dr. V. R. Undale Dr. Rajesh	Dr. D. Y. Patil IPSR and Dr. D. Y. Patil Biotechnology and Bioinformatics	2018-till date	Yet to start the study
14	In-silico designing of new chemical entities	Dr. S. S. Chitlange Mrs. S. Chandani Mrs. S. Gandhi Dr. Swami	Dr. D. Y. Patil IPSR and Dr. D. Y. Patil Biotechnology and Bioinformatics	2016-2019	2 publication
15	Clinical development of BCG vaccine for prevention and treatment of diabetes mellitus	Dr. S. R. Desai Dr. V. S. Gokhale	Dr. D. Y. Patil IPSR and Dr. D. Y. Patil Medical College and Research Center	2019-till date	Pre-clinical study Protocol designing in progress
16	Effect of stem cells on hyperglycemia	Dr. S. R. Desai Dr. R. R. Bhonde	Dr. D. Y. Patil IPSR and Dr. D. Y. Patil Dental College	2019-till date	Pilot study completed
17	Effect of stem cells (gingival and umbilical cord) on diabetic wound	Dr. S. R. Desai Dr. R. R. Bhonde	Dr. D. Y. Patil IPSR and Dr. D. Y. Patil Dental College	2019-till date	Pre-clinical study Protocol approved, work in progress
18	Effect of stem cells (adult and children dental pulp) on diabetic wound	Dr. S. R. Desai Dr. R. R. Bhonde	Dr. D. Y. Patil IPSR and Dr. D. Y. Patil Dental College	2019-till date	Pre-clinical study Protocol approved, work in progress
19	Development of m-health tool to improve the patients' access to safety monitoring and increase the reporting of adverse events related to vaccines and drugs in pediatric population	Dr. S. R. Desai Dr. Sharad Agarkhedkar	Dr. D. Y. Patil IPSR and Dr. D. Y. Patil Medical College and Research Center	2019-till date	Pre-clinical study Protocol approved, work in progress
20	Clinical study to evaluate safety and efficacy of treatment of Obesity	Dr. S. R. Desai Dr. D. G. Dipankar	Dr. D. Y. Patil IPSR and Dr. D. Y. Patil College of Ayurveda and research	2019-till date	Work in progress

**DR. D. Y. PATIL BIOTECHNOLOGY AND BIOINFORMATICS INSTITUTE, TATHAWADE, PUNE**

**LIST OF INTERDISCIPLINARY RESEARCH PROJECTS**

<b>Sr. No.</b>	<b>Title of the Research Project</b>	<b>Investigators</b>	<b>Institutions involved</b>	<b>Duration</b>	<b>Outcome of the project in terms of papers/patents/conference/training etc</b>
<b>INTERNATIONAL RESEARCH PROJECTS</b>					
1.	Comparative study of actinomycetes biodiversity in India and Tunisia: investigation of biotechnological enzymes and biological activities	Dr. Neelu Nawani Dr. Sofiane Ghorbel Dr. Noomen Hmidet	Dr. D. Y. Patil Vidyapeeth  Ecole Nationale D'Ingenieurs de Sfax, Tunisia	2013 - 2016	<b>2 research papers, 1 review</b> 1. A Binayke, S Ghorbel, N Hmidet, A Raut, A Gunjal, A Uzgare, N Patil, M Waghmode, N Nawani* (2018) Analysis of diversity of actinomycetes from arid and saline soils at Rajasthan, India. Environmental Sustainability. 1(1) 61-70. 2. Sofiane Ghorbel, Noomen Hmidet and Neelu Nawani (2015) Editorial on Recent Development in Production and Biotechnological Application of Microbial Enzymes. BioMed Research International Volume 2015, Article ID 280518, 2 pages 3. Divya Prakash and Neelu Nawani* (2014) A rapid and improved technique for scanning electron microscopy of actinomycetes. Journal of Microbiological Methods. 99: 54-57.
2.	The emergence and persistence of novel resistance to 3rd generation cephalosporins & carbapenem in bacteria in the environment	Dr. Neelu Nawani Dr. Jana Jass Dr. Abul Mandal	Dr. D. Y. Patil Vidyapeeth  University of Orebrö Sweden  University of Skövde, Sweden	2015 - 2017	<b>1 research paper, 2 abstracts</b> 1. Priti Prabhakar Yewale, Kiran Bharat Lokhande, Aishwarya Sridhar, Monika Vaishnav, Faisal Ahmad Khan, Abul Mandal, Kakumani Venkateswara Swamy, Jana Jass, Neelu Nawani (2019) Molecular profiling of multidrug resistant river water isolates: Insights into resistance mechanism and potential inhibitors. Environmental Science and Pollution Research, Accepted. 2. Priti P. Yewale, Aishwarya Shridhar, Prajakta A. Hatekar, A. Mandal, N. N. Nawani and J. Jass (2017) Molecular typing of antibiotic resistant bacteria isolated and identified as ESBL producers from polluted water reservoirs. Canadian Journal of Biotechnology. 1 (1): 117. 3. Prajakta A. Hatekar, Sushrut Kulkarni, Priti P. Yewale, A. Mandal, N.N. Nawani and J. Jass (2017) Genotypic characterization of multi-drug resistant coliform bacteria: Insights into their mechanisms of antibiotic resistance using Whole Genome Sequencing. Canadian Journal of Biotechnology. 1(1): 119.

Sr. No.	Title of the Research Project	Investigators	Institutions involved	Duration	Outcome of the project in terms of papers/patents/conference/training etc
<b>NATIONAL RESEARCH PROJECTS</b>					
3.	Identifying novel biomarkers of Chronic Obstructive Pulmonary Disease (COPD) for its early detection and prognosis.	Dr. Neelu Nawani Dr. Tushar Sahasrabudhe	Dr. D. Y. Patil Medical College, Hospital and Research Center	2015 - 2016	<b>1 research paper</b> 1. Bhoomika K., Neeta G. Wagle, Sagrika Chugh, T. Sahasrabudhe, A. Mandal, C. Eriksson & N. N. Nawani (2019) Algal biomass pellets as a possible remedy to reduce indoor air pollution from cook-stoves in rural Pune. Journal of Dental Research and Review. Accepted.
4.	Mitochondrial marker screening of GDM and post-partum T2DM Indian patients using FACS and Confocal microscopy technique	Dr. Nilesh Kumar Sharma Dr. Charusheela Gore	Dr. D. Y. Patil Medical College, Hospital and Research Centre	2015 - 2017	Nil
5.	Opportunities to Explore microbial Diversity for industrially important microbial products <b>(Academic - Industry Collaborative)</b>	Prof. Neelu Nawani Dr. Amit Ranjan Dr. Yasmin Mirza Dr. Rishi Jain,	Dr. D. Y. Patil Vidyapeeth Praj Industries Ltd. Pune	2017 - 2019	Nil, in progress

Sr. No.	Title of the Research Project	Investigators	Institutions involved	Duration	Outcome of the project in terms of papers/patents/conference/training etc
	<b>Project Funded by Govt. of India)</b>				
6.	Development of Biomedical Implants with a potential of orthopaedic uses (Non funded)	Dr.SoumyaBasu Dr Amit Ranjan  Dr.Somnath Bhattacharyya	Indian Institute of Technology, Chennai	2018 - 2019	<b>01 Research paper</b> 1. Pritam Banerjee, Chiranjit Roy, Mohamed A.-H. Gepreel, Amit Ranjan, SoumyaBasu, Somnath Bhattacharyya (2019) Probing Nanoscale Phase Separation at Atomic Resolution within $\beta$ -Type Ti-Mn Alloy: A Potential Candidate for Biomedical ImplantsACS Biomater. Sci. Eng.20195105005-5014 Impact factor 4.5
7.	Studies on the role of lectin pathway of complement components in neonatal sepsis	Dr. Rajesh Gupta  Dr.SharadAgarkhe dkar Dr.SudhirDnyaneshwar, Prof. Krishnan Hajela	Dr D Y Patil Medical College, Hospital and Research Centre	2019 - 2020	Nil, in progress
8.	Molecular study of HIV-1 viral genome to develop a robust copy number estimation tool and a genotyping assay against major groups of antiretroviral drugs including the integrase inhibitors.	<b>Dr.MinalWani</b>  <b>Dr.Rabindra N Misra</b>	Dr. D. Y. Patil Medical College, Hospital and Research Centre	2011 - 2015	<b>03 Research paper</b> 1. Acharya A, Vaniawala S, Parekh H, Misra RN, MinalWani and Pratap N Mukhopadhyaya, 2016. Human Immunodeficiency Virus: Discovery to Drug Resistance - A Review Update. BiolSyst Open Access 5(1): 154. doi:10.4172/2329-6577.1000154  2. Arpan Acharya, SalilVaniawala, Parth Shah, Harsh Parekh, RabindraNathMisra, MinalWani and Pratap N Mukhopadhyaya (2014). A robust HIV-1 viral load detection assay optimized for Indian sub type C specific strains and resource limiting setting. Biological Research (BioMed Central), 47:22. (Impact factor 1.13)  3. Arpan Acharya, SalilVaniawala, Parth Shah, RabindraNathMisra, MinalWani and Pratap N Mukhopadhyaya (2014). Development,

Sr. No.	Title of the Research Project	Investigators	Institutions involved	Duration	Outcome of the project in terms of papers/patents/conference/training etc
					Validation and Clinical Evaluation of a low cost in-house HIV-1 drug resistance genotyping assay for Indian patients. PLOS ONE, 9(8) e105790. (Impact factor 3.8)
9.	Hepatitis B Virus genome based design of a genotyping and drug resistance assay and an <i>in-house</i> viral load estimation tool (Non funded)	<b>Dr.MinalWani</b>  <b>Dr.Rabindra N Misra</b>	Dr. D. Y. Patil Medical College, Hospital and Research Centre	2011 - 2017	<b>03 Research paper</b> 1. <b>Yashwant G Chavan, Sharad R Pawar, MinalWani, Amol D Raut, and Rabindra N Misra, 2017.</b> Hepatitis B Virus DNA polymerase gene polymorphism based prediction of genotypes in chronic HBV patients from Western India. African Health Sciences, 17(3): 762-772 (Impact factor 0.66) 2. Yashwant G Chavan, Sharad R Pawar, MinalWani, Amol D Raut, and Rabindra N Misra , 2017. A Multiplex Snapshot Assay for Rapid and Simultaneous Detection of Major HBV Drug Resistance Mutations Along with Precore (Pre-C) and Basal Core Promoter (BCP) Mutations. Res J Pharm BiolChemSci, 8(2), 2410-2418. (Impact factor 0.35)
10.	Virtual screening for novel quorum sensing inhibitors: Anti-virulence therapy against <i>Pseudomonas aeruginosa</i>	Dr.SarikaPawar  Dr.Shuchi Nagar	Dr. D. Y. PatilVidyapeeth Colabration between MDRC, Biotechnology and Bioinformatics Research Laboratory	2018 - 2020	<b>01 Research paper</b> 1. Shah S, Gaikwad S, Nagar S, Kulshrestha S, Vaidya V, Nawani N, Pawar S. (2018) Biofilm inhibition and anti-quorum sensing activity of phytosynthesized silver nanoparticles against the nosocomial pathogen <i>Pseudomonas aeruginosa</i> . Biofouling. 35(1) 34-49.
11.	Development of in vitro cellular model for post partum depression in Indian population	Dr.Neelima Dubey  Dr.Supraksh Choudhary	Dr. D. Y. Patil Medical College, Hospital and Research Centre	2018 - 2019	Nil, In progress

**DR. D.Y.PATIL DENTAL COLLEGE AND HOSPITAL, PIMPRI, PUNE**

**LIST OF INTERDISCIPLINARY RESEARCH PROJECTS**

<b>Sr. No</b>	<b>Title of the project</b>	<b>Institutions involved</b>	<b>Name of the investigators</b>	<b>Year</b>	<b>Duration</b>	<b>Outcome in the form of papers/ patents/ conference/ training</b>
1	In vitro study of anti-senescence activity of Mandukaparni ( <i>Centellasiatica</i> ) extract on Human Dental Pulp Stem cell with special reference to Vayasthapanakarma (Anti-aging).	Dr. D.Y. Patil college of Ayurved & Research Center ,Pimpri, Pune	Dr.Nilima Ghangale	2018-2019	3 years	On going
2	Evaluation of the effect of Gingival Mesenchymal stem cell and dental pulp stem cells in reducing chemical induce Hyperglycaemia in rat.	Dr. D.Y. Patil Institute of Pharmaceutical sciences & Research, Pimpri, Pune	Dr.Shivani Desai.	2018-2019	3 years	On going
3	Evaluation of the effect of Gingival Mesenchymal stem cell and umbilical cord stem cells in diabetic wound healing in rat.	Dr. D.Y. Patil Institute of Pharmaceutical sciences & Research, Pimpri, Pune	Dr.Shivani Desai.	2018-2019	3 years	On going
4	Evaluation of the effect of adult dental pulp stem cell and children dental pulp stem cells in diabetic wound healing in Wistar rat.	Dr. D.Y. Patil Institute of Pharmaceutical sciences & Research, Pimpri, Pune	Dr.Shivani Desai.	2018-2019	3 years	On going
5	Evaluation Of Conium Maculatum And Thuja Occidentalis Homoeopathic Mother Tincture On Proliferation And Apoptosis Of MCF7 Breast Cancer Cell Line.	Dr D Y Patil Homoeopathic Medical College and DPU Molecular diagnostic Laboratory	Dr. Vipul Gandhi, Dr.Ramesh Bhonde, Dr D B Sharma	2019-2020	2 year	NIL

**DR D Y PATIL MEDICAL COLLEGE AND HOSPITAL, PIMPRI, PUNE.**

**LIST OF INTERDISCIPLINARY RESEARCH PROJECTS**

<b>Sr. No.</b>	<b>Title of project</b>	<b>Investigators</b>	<b>Institutions involved</b>	<b>Duration (From -To Year)</b>	<b>Outcome in terms of papers/patents/conference/training, etc.</b>
1	Role of Ayurvedic rasayanaPippali ( <i>Piper longum</i> ) in osteogenic differentiation of human umbilical cord-derived mesenchymal stem cells in 3D culture and diseased animal models.	Dr. RR Bhonde , Director (Research), DPU Co-I: Dr. CG Raut, Director – Interdisciplinary Research; Dr. AV Tilak	1.DPU; 2.Dept of Pharmacology, DYPMC; 3.Central Research Facility, DYPMC	2 years from the date of approval (31/08/2019)	On Going
2	Investigation on the role of <i>GymnemaSylvestre</i> Homeopathic mother tincture in control and management of diabetes mellitus employing <i>in vitro</i> and <i>in vivo</i> models.	Dr.ParthAphale, Asso Prof & Head, Dept of Homeopathic Pharmacy Co-I: Dr. AV Tilak, Prof & Head, Dept of Pharmacology; Dr. RR Bhonde , Director (Research), DPU	1.Dept of Homeopathic Pharmacy, Homeopathic College, DPU; 2. Dept of Pharmacology, DYPMC; 3.DPU	2 years from the date of approval (31/08/2019)	
3	To explore the angiogenic and anti-angiogenic effect & toxicity of Ophidia group of homoeopathic medicines on yolk sac membrane (YSM) of chick embryo.	Dr.ParthAphale, Asso Prof & Head, Dept of Homeopathic Pharmacy Co-I: Dr. AV Tilak, Prof & Head, Dept of Pharmacology ;Dr.RR Bhonde , Director (Research), DPU	1.Dept of Homeopathic Pharmacy, Homeopathic College, DPU; 2. Dept of Pharmacology, DYPMC; 3.DPU	2 years from the date of approval (31/08/2019)	
4	Establishment of leech colony for characterization, hirudotherapy and other	Dr. Chandrashekhkar G Raut Director – Interdisciplinary Research, DYPMC.	1.Central Res Facility, DYPMC;	2 years from the date of	

Sr. No.	Title of project	Investigators	Institutions involved	Duration (From -To Year)	Outcome in terms of papers/patents/conference/training, etc.
	biomedical research purposes.	Co-I: GunvantYeola, Principal, Ayurvedic College, DPU; Dr. AV Tilak, Prof & Head, Dept of Pharmacology	2. Ayurvedic College, DPU; 3. Dept of Pharmacology, DYPMC;	approval (31/08/2019)	
5	Establishment of wild rodent colony for studies on characterization, zoonoses and other biomedical research purpose	Dr. Chandrashekhar G Raut Director – Interdisciplinary Research, DYPMC. Co-I: Dr. AV Tilak, Prof & Head, Dept of Pharmacology ; Dr. SS Talmale, ZSI, Akurdi, Pune	1. Central Res Facility, DYPMC; 2. Dept of Pharmacology, DYPMC; 3. ZSI, Akurdi, Pune	2 years from the date of approval (31/08/2019)	
6	Maintenance of human tumor xenograft / cancer cells in <i>in vitro</i> and <i>in vivo</i> systems for biomedical research	Dr. Chandrashekhar G Raut Director – Interdisciplinary Research, DYPMC. Co-I: Dr. CR Gore , Prof & Head, Dept of Pathology ; Dr. AV Tilak, Prof & Head, Dept of Pharmacology	1. Central Res Facility, DYPMC; 2. Dept of Pathology, DYPMC; 3. Dept of Pharmacology, DYPMC.	2 years from the date of approval (31/08/2019)	
7	Isolation of etiological agents from cases of gynaecological problems	Dr. Chandrashekhar G Raut Director – Interdisciplinary Research, DYPMC. Co-I: Dr. HG Deshpande, Prof & Head, Dept of ObGy Dr. AV Tilak, Prof & Head, Dept of Pharmacology	1. Central Res Facility, DYPMC; 2. Dept of OBGy, DYPMC; 3. Dept of Pharmacology, DYPMC.	2 years from the date of approval (31/08/2019)	
8	Establishment of ready to use cellular scaffold for treatment of muco-gingival deformities	Dr. Chandrashekhar G Raut Director – Interdisciplinary Research, DYPMC.	1. Central Res Facility, DYPMC;	2 years from the date of approval (31/08/2019)	

Sr. No.	Title of project	Investigators	Institutions involved	Duration (From -To Year)	Outcome in terms of papers/patents/conference/training, etc.
	around natural teeth and dental implants	Co-I: Dr. Sharath Setty , Prof & PG Guide, Dept of Periodontology, Dental College, DPU ; Dr. AV Tilak, Prof & Head, Dept of Pharmacology	2.Dept ofPeriodontology, Dental College, DPU; 3.Dept of Pharmacology, DYPMC.		
9	Effect of undernutrition on cardiovascular gene expression in Wistar rat colony	Dr.Bageshree N Pande, Asst Prof, Dept of Physiology, DYPMC; Co-I: Dr. AV Tilak, Prof & Head, Dept of Pharmacology Dr. Chandrashekhar G Raut Director – Interdisciplinary Research, DYPMC.	1. Central Res Facility, DYPMC; 2. Dept of Physiology, DYPMC; 3. Dept of Pharmacology, DYPMC.	2 years from the date of approval (31/08/2019)	
10	Effect of gestational diabetes mellitus on offspring of undernourished mothers	Dr. Nivedita NageshraoSirdesai, Asst Prof, Dept of Physiology; Co-I: Dr. AV Tilak, Prof & Head, Dept of Pharmacology; Dr. Chandrashekhar G Raut Director – Interdisciplinary Research, DYPMC.	1. Central Res Facility, DYPMC; 2. Dept of Physiology, DYPMC; 3. Dept of Pharmacology, DYPMC.	2 years from the date of approval (31/08/2019)	

**DR. D. Y. PATIL COLLEGE OF NURSING, PIMPRI, PUNE**

**LIST OF INTERDISCIPLINARY RESEARCH PROJECTS**

<b>Sr. No.</b>	<b>Name of the Department</b>	<b>Statement</b>	<b>Interdisciplinary Collaboration</b>	<b>Year</b>	<b>Duration</b>	<b>Outcome in the form of papers/ patents/ conference/ training</b>
1	Dr. Mrs. Rupali Salvi	A comparative study to assess risk factors of glaucoma among adults residing in selected urban and rural areas	Ophthalmology Department	2019-20	1 year	ongoing
2	Ms. Sucheta Yangad	A study to assess the effectiveness of Yoga Therapy on stress reduction among the female employees of Dr. D. Y. Patil College of Nursing	Ayurvedic College	2019-20	1 year	ongoing
3	Ms. Vaishali Jagtap	A study to assess the common dental problems among school going children studying in selected schools of PCMC	Dental College	2019-20	1 year	ongoing
4	Mrs. Jayabala Aghamkar	Menstrual irregularities with body weight, stress and eating habits among Nursing students.	Nutrition & Dietetics Department	2019-20	1 year	ongoing

**DR DY PATIL COLLEGE OF AYURVED & RESEARCH CENTER, PIMPRI, PUNE-18**

**LIST OF INTERDISCIPLINARY RESEARCH PROJECTS**

<b>Sr. No.</b>	<b>Title of The Project</b>	<b>Investigator</b>	<b>Institution Involved</b>	<b>Duration of Project</b>	<b>Outcomes in Terms of The Paper/Patent/Conference etc.</b>
1	Antibacterial Effectiveness of Natural products alone and in combination with Calcium hydroxide Medicaments-An Invitro microbiological Study.	1.PhD-Dr. Uday Londhe, (Asst.Prof. Dental College) 2.Co-Guide-Dr Arati Dubewar (Prof. & HOD RSBK Dept)	Dr. DY Patil Dental College, Dr DY Patil College of Ayurved & Research Center, Pimpri, Pune-18	2017-2018	On Going
2	Comparative Evaluation of post extraction healing edification with & without Azardiraeta indica	1.Trivina kumara Domah PG student Dental college 2. Co-Guide-Dr Arati Dubewar (Prof. & HOD RSBK Dept)	Dr. DY Patil Dental College, Dr DY Patil College of Ayurved & Research Center, Pimpri, Pune-18	2018-2019	On Going
3	A Study of Literature of Homoeopathic therapeutics and Ayurvedic Dravyaguna in few Indian drugs	1.PI-Dr. Chaphekar P. A. MD (Hom), 2.Co.PI: Dr. Changade. MD (Ayurved)	Dr. DY Patil Homoeopathic Medical College, Pune with Dr. D.Y. Patil Ayurvedic medical college,Pune.	Completed (2018)	---
4	Comparative study of diuretic of Borrhevia diffusa ( Punarnava –Red) & Trianthaema portulacastrum ( Punarnava-White ) in rats (Vivo)	1.PI- Dr. Jayshree v. Changade (Prof), 2.Co-PI Dr. Vaishali Udale (Asso. Prof. of Pharmacology)	Dr. D.Y.Patil institute of pharmaceutical sciences & research & Dr.D.Y.Patil College of Ayurveda and Research Centre.	2018 –2020	On Going
5	Pharmaceutico-physicochemical and In-Vivo pharmacokinetic (bioavailability) study of Mukta Pishti and Mukta Bhasma	1.Vd.Amol Waghmar, 2.Vd.Payal Wavhal (PG Student)	Dr.D.Y.Patil College of Ayurveda and Research Centre.& Dr. D.Y.patil institute of pharmaceutical sciences & research	2018 (On Going)	Copyright( In Process ) for Development of Pharmacokinetic(Bioavailability) evaluation design model for ayurvedic medicines.

Sr. No.	Title of The Project	Investigator	Institution Involved	Duration of Project	Outcomes in Terms of The Paper/Patent/Conference etc.
6	A Comparative Pharmaceutico And Physico-Chemical Study Of Different Dosage Forms Of Nagaradi Kashay	Vd. Amol Waghmare, M. D. Asso. Professor (RSBK Dept)	Dr. D.Y. Patil College Of Ayurved And Research Centre, Pmpri,Pune-411018 & D.Y.Patil institute of pharmaceutical sciences & research	2019	Patent( In Process)
7	“An Associational study of Ayurvediya Prakruti and Modern cardiovascular Physiological parameters in healthy individuals.”	<b>1.PI-</b> Dr.(Mrs.) Borade N.G. <b>Co PI-</b> 1) Archana Atul Jadhav 2) Dr.Ramya Jaykumar 3)Dr. Ashwini Patil 4) Dr. Smita Shamrao Kadu 5) Dr Sheetal Uttamrao Roman 6) Dr. Krishna P. Deshpande	Department of kriya Sharir ,Dr.D.Y.Patil College of Ayurveda & research centre,Pimpri,Pune. <b>AND</b> Department of Physiology ,Dr.D.Y.Patil Medical college	2019	On Going
8	“An Associational study of Ayurvediya Prakruti and Modern Respiratory Physiological parameters in healthy individuals.”	<b>1.PI-</b> Dr.P.A.Babel. <b>Co PI-</b> 1) Dr.Archana Jadhav. 2)Dr. S.S. Kadu 3)Dr.S.U.Roman. 4)Dr. K.P. Deshpande 5)Dr. S. A. Aradhye	Department of kriya Sharir ,Dr.D.Y.Patil College of Ayurveda & research centre,Pimpri,Pune. <b>AND</b> Department of Physiology ,Dr.D.Y.Patil Medical college	1year (2017) Completed	-
9	Pharmaceutico analytical study of guduchi Ghana & guduchi sattva & comparative pre-clinical study W.S.R. to immunomodulatory activity	1.Dr.Nilima Dharkar 2.Vd. Sabale rahul shantaram(PG Student)	Pharmacy college	2015-2018 Completed	--
10	Pharmaceutical study of kaadya churna & it tooth paste W.S.R. to shell life study & antimicrobial activity ( In vitro study )	1.Dr.Nilima Dharkar 2.Vd. Ankita Deshmukh (PG Student)	Dr. D.Y. Patil Arts, science & Commerce college	2016-2019 Completed	--

Sr. No.	Title of The Project	Investigator	Institution Involved	Duration of Project	Outcomes in Terms of The Paper/Patent/Conference etc.
11	Pharmaceutical activity of different storage form of mankyadi kanduhar yog	1.Dr.Nilima Dharkar 2.Vd. Jayashree vinod Neve (PG Student)	ACS college DPU	2016-2019	Completed
12	Acute & subacute toxicity study of talanko rasa	1.Dr.Nilima Dharkar 2.Vd. Sonali kakde (PG Student)	Pharmacy college AND Dr. D.Y patil college	2017-2020	On Going
13	Pharmacatigo analytical & im-victro antidandruff study of milotpaladi lapa & its shampoo	1.Dr.Nilima Dharkar 2.Vd.Swamini Chavanke (PG Student)	ACS college of DPU	2017 -2020	On Going
14	Evaluation of anxilytic activity of vitex negundo in rati	1.Dr.Nilima Dharkar 2.Dr. Makarand Jadhav (PG Student)	Medical college DPU	2017	Completed
15	Assignment of the efficacy of Guduchi (Tinopora cordifolia) Ogecium gingivitis & place A clinic microbial study	1.Dr.Nilma Dharkar 2.Dr. Nayar (PG Student)	Dental college	2018 Completed	Sent for publication

## EVENTS

### INTERDISCIPLINARY RESEARCH: NEED OF THE HOUR

SCIENCE DAY CELEBRATION ON 28-2-2019

**Program Venue** : Medical College Auditorium

**Program Time** : 2:30pm to 4.30 pm.

#### DESCRIPTION :

On 28<sup>th</sup> February 2019, DPU celebrated National Science day between 2.30 to 4.30 pm. The Program Schedule was:

1. Presentation by 10 constituent colleges of Dr D Y Patil.
2. Panel discussion on the topic of : Interdisciplinary Research: Need of the hour.

Dr Pradnya Kakodkar, Prof, Department of Public Health Dentistry hosted the event and welcomed The Hon'bl Vice Chancellor Sir Dr N J Pawar, Director (Research) Dr Ramesh Bhonde, Registrar sir Dr A N Suryakar, distinguished guest, senior faculty, PhD and PG students for the event .

The program began with discussing the theme of the Science day "Science for People and People for Science". 10 colleges under DPU ambit participated in the event. Each representative spoke about the scientific research strength of their individual college and also the thrust areas for interdisciplinary research.

Dr D B Sharma, principal of Dr D Y Patil Homeopathy college spoke about the different medical condition that can be treated with Homeopathic medicine and the need to collaborate with pharmacy to Re-invent the Homeopathic medication.

Dr D G Deepankar , representative from Ayurved college discussed the different collaboration the college is already having with Medical and Dental college. Ayurved medicines are helping lot of conditions and patients who are facing side-effects of Allopathic drugs.

Dr Sharath Shetty , representative from Dental College spoke about the 17 research projects that the dental college is undertaking with the Biotechnology, Medical and Ayurved college. He also spoke about the state of art Regenerative Laboratory and invited people to come in for collaborative research.

Dr Neelu Nawani, representative from the Biotechnology college gave a detailed report of the different research grants that have been acquired by the college. They presently have a total grant of 25 crore rupees and also invited people for interdisciplinary research.

Dr Mrs Nisha Naik from Nursing college introduced the college and also explained about the simulation laboratory and invited professionals to come in for collaborative research.

Mr Vijay Kumar representative from Pharmacy college explained about the collaboration that the college has with all the colleges under the DPU ambit. They even have done collaboration with Art and Science college and the Dr D Y Patil School.

Ms Rituparna Ghosal representative of Optometry and Dr Asha Thomas from Pharmacy elaborated about their respective colleges.

Mrs A V Kulkarni , Principal of Engineering college stressed the need to initiate the Central Collaborative Research Centre (CCRC) where all the constituent colleges and come together and undertake collaborative research. Also, she reported that a manual can be prepared which highlights the strengths of all the constituent colleges and those interested can combine together to initiate research.

The presentations went on till 4:00 pm.

There after the Panel Discussion was initiated. Hon'ble Vice Chancellor Sir introduced the topic and discussed about the importance of interdisciplinary research and why it is important not do do research in isolation and team work will bring more success in the future.

Dr J K Pal, Dr Chitlange and Dr Banerjee expressed their ideas about interdisciplinary research.

Finally, Dr Ramesh Bhonde summed up all the comments and showed direction that in the future, steps will be taken to initiate interdisciplinary research under DPU and proposed the vote of thanks..



## **FIRST CONFERENCE ON TRENDS IN INTERDISCIPLINARY RESEARCH IN HEALTH SCIENCES.**

**Date:** 27-8-2019.

**Venue:** Auditorium, DR D Y Patil Medical College and Hospital, Pimpri, Pune.

### **DESCRIPTION**

Interdisciplinary Research is the need of the hour. DPU is taking its first step to provide a common platform to unite all the research scholars from different background to share their interdisciplinary work and create motivation to think “Out of the box ”utilizing the modern technology to generate new ideas for research in health, which will ultimately benefit the health of the community at large.

With this background, Dr D Y Patil Vidyapeeth organized the First Conference on Trends in Interdisciplinary Research in Health Sciences. Dr PradnyaKakodkar, organizing Secretary welcomed all the eminent guests on the dais and the invited delegates. Honorable Vice Chancellor Dr N J Pawar in the presence of Registrar Dr A N Suryakar inaugurated the conference. The Vice Chancellor delivered the Welcome address, marked the conference open and felicitated the guest speaker Ms Deepa Adiga, Scientist at Innovation Lab, TCS, Pune. Ms Deepa delivered lecture on Artificial Intelligence and Biomedical Research. The other guest speaker Dr Girish Tillu, Assistant Professor at the Interdisciplinary School at SPPU was felicitated by Dr Ramesh Bhonde, the organizing Chairman. Dr Tillu spoke about Transdisciplinary Research in Health Sciences. Dr Sarika Chaturvedi gave a brief description about Interdisciplinary Research. 104 delegates attended the conference from 8 different constituent colleges under DPU. 28 papers related to the interdisciplinary topics were presented. All the papers presented in the conference will be published as full papers in the DPU conference proceedings. During the valedictory program, Dr Ramesh Bhonde proposed Vote of Thanks and gave away certificates to the chairpersons, presenters and the participants. All the delegates were benefitted from this scientific deliberation and proposed that such event should take place on regular basis.

**Brochure:** See at <https://dpu.edu.in/documents/First-conference-on-Trends-in-interdisciplinary-research-in-health-sciences.pdf>

**Report:** See at <https://events.dpu.edu.in/event-details.aspx?eventid=1455&InstituteID=1>

## INTERDISCIPLINARY INTERACTIONS

A departmentwise presentation was conducted by Dr Pradnya Kakodkar, Dy Director(Research)and Dr Sarika Chaturvedi(Sr Research Scientist) at DR D Y Patil Vidyapeeth on 18-7-2019. The main objective was to identify areas for interdisciplinary research and orient them to think about such projects for the future. Each department presented their expertise and area for collaboration. The below is the compilation:

Department Name	Collaborating department
Samhita Dravyagun, Rasashastra, Kayachikitsa, SwasthaWritha	Pharmacology, Pharmacy, herbo-mineral study
Kriya sharer, SwasthaWritha, Agadtantra, Rasashastra	Biotechnology, Nano-technology , Nutri-ceuticals
Rognidhan	Pathology
Streeroga, SwasthaWritha	Physiotherapy
Shalya Tantra	Oncology/ Neurology
Panchakarma, Shalakyta tantra, SamahitaWritha, Kaumarbhritya	Modern Medicine





## VISIT TO THE INTERDISCIPLINARY SCHOOL OF HEALTH SCIENCES AT PUNE UNIVERSITY

**Visiting members:** Dr Ramesh Bhonde , Dr PradnyaKakodkar, Dr Sarika Chaturvedi.

**Date:** 18-9-2019, **Time:** 3:30 pm

### AGENDA:

1. To understand the working of the Interdisciplinary school.
2. To discuss and find out opportunities for collaboration.

### FACULTY FROM THE INTERDISCIPLINARY SCHOOL DURING THE MEETING:

1. Dr Aarti Nagarkar , Director.
2. Dr Girish Tillu, Asst Prof
3. Dr Preeti Chavan, Asst Prof

### OBSERVATIONS:

The department presently runs PhD course, certificate course, Approaches to evidence based ayurveda certificate course, Fellowship program, internship program and journal club.

The areas of research presently going on are focusing on the Public Health. Eg: Aging and Disability, urbanization, Social epidemiology, transition and women health, Nutrition, Integrated medicine, etc.

### COLLABORATIVE OUTCOMES:

The school is willing for collaboration to promote interdisciplinary research. They are open to ideas of guiding students from DPU and collaboratively conducting research work. The research projects will increase when we can offer fellowships and PhD courses.



## VISIT TO CONSTITUENT COLLEGES TO PROMOTE INTERDISCIPLINARY RESEARCH

To, promote Interdisciplinary Research under DPU, Dr Ramesh Bhonde , Director (Research) with his team visited the college on the respective days. The time slot was 11.30 to 12.30 noon.

S.No	College name	Date	Faculty
1.	Dental College	17-9-2019	Dr Ramesh Bhonde & Dr Sarika Chaturvedi
2.	Homeopathy college	18-9-2019	Dr Ramesh Bhonde & Dr Sarika Chaturvedi
3.	Ayurveda College	20-9-2019	Dr Ramesh Bhonde & Dr Sarika Chaturvedi
4.	Nursing College	24-9-2019	Dr Ramesh Bhonde & Dr Sarika Chaturvedi
5.	Physiotherapy College	25-9-2019	Dr Ramesh Bhonde & Dr PradnyaKakodkar
6.	Pharmacy college	27-9-2019	DR Ramesh Bhonde & Dr PradnyaKakodkar
7.	Global Business school	3-10-2019	DR Ramesh Bhonde & Dr PradnyaKakodkar
8.	Engineering college	4-10-2019	Dr Ramesh Bhonde & Dr PradnyaKakodkar
9.	Biotechnology	7-10-2019	Dr Ramesh Bhonde & Dr PradnyaKakodkar



## MEETING FOR SEQUENCE GENERATION OF THE INTERDISCIPLINARY MEETING AND DISCUSSION OF ROLE AND RESPONSIBILITIES.

**Date:** 28-11-2019 .

**Venue :** Implant Centre Council Hall, Dr D Y Patil Dental College and Hospital, Pimpri, Pune.

### DESCRIPTION

Hon'ble Vice Chancellor welcomed all the members. He briefly discussed the necessity of "Interdisciplinary Research" for a complete group of colleges of Dr. D. Y. Patil Vidyapeeth, Pimpri, Pune and stressed that there is a need to sensitize the entire institute about raising funds for research. The role and responsibilities of the constituent college co-ordinator were decided. It was emphasised that more members from every college should join the co-ordinator and a group has to be formed

Mr Avinash Thakur , CEO of the DPU Incubation Centre gave a introductory talk and covered the following points:

### **A preliminary roadmap by DPU Interdisciplinary Research .**

- Definition of Interdisciplinary Research.
- Strength.
- Special Interest group.
- Types of Interdisciplinary Research.
  - Academically Oriented Interdisciplinary Research.
  - Problem Focused Interdisciplinary Research.
  - Multidisciplinary Research.
  - Interdisciplinary Research.
- Motivation for Interdisciplinary Research
  - Policy Issue for Interdisciplinary Research.
  - Knowledge Transfer.
  - Research User Driven.
  - Single discipline.
- Factors that discourage Interdisciplinary Research.
  - Poor Career Structure.
  - Low esteem of Interdisciplinary Research by colleagues.
- Skills need for individual Research.
  - Understanding the language.
  - High tolerance of ambiguity
  - Willingness to learn from other discipline.
- Skills for Research Manager.

- Interdisciplinary background.
- Respect for other discipline.
- Good interpersonal & Team building skills.
- Proactive in engaging with other partners.
- Not too ambitious in their own field.
- Interested in wide range of subjects.
- Define Short term goals (At least for 2 yrs)
- Define middle term goals (At least for 5 yrs)
- Define long term goals (At least for 10 yrs)

Dr. Ramesh Bhonde started talking on next agenda point that is “Science Festival”. According to him it is very important to celebrate Science Festival for UG, Interns, PG, PhD scholars, Young staff. So, we will have to form a committee to conduct the activity.

**The thrust areas for the Students Science Festival will be:**

1. Trash to Treasure.
2. Solution to Pollution.
3. Multi-factorial therapeutic approach to lifestyle diseases.
4. Health Nutrition.

**The different events to be conducted**

1. Oral presentation (8+2 minutes)
2. 1-minute video competition.
3. Case solving.
4. Gallery walk (of innovative ideas as model or chart)
5. Patent Booth.
6. Panel Discussion.

The monthly meeting sequence was generated by a lottery method and all the members agreed for the same.

The meeting ended with Vote of thanks.



**Sequence of Interdisciplinary Meeting at the constituent college for the Year 2020.**

<b>S.No</b>	<b>Constituent College</b>	<b>Date</b>
<b>1.</b>	Dr. D. Y. Patil College of Nursing	3rd Week January
<b>2.</b>	Dr. D. Y. Patil Dental College & Hospital	3rd Week February
<b>3.</b>	Dr. D. Y. Patil Institute of Optometry & Visual Sciences	3rd Week March
<b>4.</b>	Dr. D. Y. Patil Medical College, Hospital and Research Centre	3rd Week April
<b>5.</b>	Dr. D. Y. Patil Homoeopathic Medical College & Research Center	3rd Week June
<b>6.</b>	Global Business School & Research Centre	3rd Week July
<b>7.</b>	Dr. D. Y. Patil Institute Pharmaceutical Sciences & Research	3rd Week September
<b>8.</b>	Dr. D. Y. Patil Institute of Technology	3rd Week October
<b>9.</b>	Dr. D. Y. Patil Biotechnology and Bioinformatics Institute	3rd Week November
<b>10.</b>	Dr D Y Patil Vidyapeeth.	3rd Week December

## **COURSE OFFERED**

### **PHD IN INTERDISCIPLINARY SCIENCE**

The goal of this program is to prepare the next generation scholars for research in two disciplines.

#### **PROGRAM EDUCATIONAL OBJECTIVES :**

1. To motivate and enable students to opt for higher levels of learning by research in this interdisciplinary field with the view of developing highly skilled professionals to work in Industry and academia.
2. The interdisciplinary nature of the course prompts intake of students from mixed disciplines creating the need to bring students from varying academic backgrounds to a common platform.
3. It allows students to bridge two or more academic disciplines.

## **FUTURE PLANS**

1. Science Festival for Students titled “UNMESH” to be organized once every year at DPU with the theme on Interdisciplinary Science. The UG,PG, interns, PhD scholars and budding faculty (with less than or equal to 3 years of experience) will participate.
2. Interdisciplinary meeting will be conducted once every month, wherein there will be presentation of scientific knowledge in the interdisciplinary field. One of the constituent colleges will host this event very month. The attendees of the program will be faculty, UG, PG, PhD scholars and interns.
3. Interdisciplinary conference to be conducted once very year in the month of September, soas to give platform to the researchers to show case their talent and ripple the knowledge.
4. Interdisciplinary projects will be promoted so that different departments come together for generating innovative ideas and on the broader perspectives the end result of the research should be beneficial to the community.