

# Dr. GITANJALI BATMANABANE

## DIRECTOR

All India Institute of Medical Sciences-Patna

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## ACADEMICS

1. M.B.,B.S at JIPMER, Puducherry (under the University of Madras) in 1980
2. M.D (Pharmacology), Puducherry (under the University of Madras) in 1987
3. Ph.D (Pharmacology), Puducherry (under Pondicherry University) in 2003

## EXPERIENCE

<b>Professional</b>			
❖	Junior Resident, JIPMER, Puducherry	1984	1987
❖	Senior Resident in Pharmacology, JIPMER	1987	1990
❖	Assistant Professor of Pharmacology, JIPMER (ad-hoc)	1990	1991
❖	Assistant Professor of Pharmacology, JIPMER (regular)	1991	1993
❖	Associate Professor of Pharmacology, JIPMER	1993	1999
❖	Professor of Pharmacology, JIPMER	Nov 1999	Oct 2008
❖	Director-Professor of Pharmacology, JIPMER	Oct 2008	Mar 2009
❖	Professor of Pharmacology, JIPMER (as INI)	Mar 2009	Sep 2016
❖	Professor Senior Scale	Jul 2012	
❖	Head of the Dept. of Pharmacology, JIPMER	May 2016	Sep 2016
❖	Director AIIMS Bhubaneswar	Sep 30, 2016	Till date
<b>Research</b>			
❖	Technical Officer - Essential Drugs and Other Medicines, WHO-SEARO, New Delhi	April 2010	April 2012
❖	National coordinator for the Better Medicines for Children Project of WHO.	2010	2012
❖	Guide and co-guide for M.D and Ph.D students of JIPMER		
❖	Member of doctoral committees for Ph.D students		
❖	Recipient of extramural research grants from ICMR, UGC, DST&E, CCRH, CCRYN		

## ADMINISTRATIVE RESPONSIBILITIES

❖	Officer-in-charge, Department of Pharmacy, JIPMER	2004	2010
❖	Officer-in-charge, Purchase Section, JIPMER	2012	2014

❖	Head of Department of Medical Education, JIPMER	July 2013	June 2016
❖	Head of Department of Pharmacology, JIPMER	May 2016	Sep 2016
❖	Faculty (Finance), JIPMER	Sep 2014	Sep 2016
❖	Head of WHO Collaborating Centre for Training and Research in Essential Medicines and Rational Use of Medicines, JIPMER	Mar 2014	Sep 2016
❖	Convener, MCI Regional Centre for Faculty Development Programs	Mar 2015	Sep 2016
❖	Faculty (Admin.), JIPMER	May 2015	Apr 2016
❖	Nodal Officer, JIPMER	July 2015	Sep 2016

#### **Officer-in-charge, Department of Pharmacy, JIPMER**

- Introduced and implemented the double envelope system (Delhi model of procurement)
- Implemented e-tendering of medicines
- Implemented quality control measures for medicines
- Reduced stock-outs and expiry by stricter supply chain management and computerized inventory control.
- Implemented regular ABC analysis and continuous pharmacy education for pharmacists.
- Introduced medication counseling as a regular part of services for patients with chronic diseases.
- Organized pharmacy services for health camps conducted by JIPMER.

#### **Officer-in-charge, Purchase Section, JIPMER**

- Initiated and coordinated the JIPMER Purchase Manual
- Held training program for store-keepers and faculty on procurement procedures – first of its kind in JIPMER
- Increased transparency by instituting e-procurement
- Improved work-flow by instituting procedural processes, fixing turnaround times and increase in frequency of meetings for various purchase committees

#### **Head of Department of Medical Education, JIPMER**

- Planned and set-up two smart classrooms with state-of-the-art AV aids to conduct regular workshops in JIPMER (NTTC Hall 1 and NTTC Hall2).
- Established the skills lab in Dept. of Medical Education to ensure regular training on CPR for interns and nurses
- Established the MCI Regional Centre for Faculty Development Programs in JIPMER in March 2015
- Developed the SMART (Strengthen, Motivate, Augment, Retrain and Team-build) program for JIPMER employees and conducted (in 2014).
  - a.* training for MTS (orientation)
  - b.* coping with work stress (for nurses)
  - c.* motivational program for administrative staff (in three batches)
- Started a 3 day program in educational science for senior residents of JIPMER.

#### **Faculty (Finance), JIPMER**

- Reviewed entire Finance vertical and initiated revamping and restructuring of Finance & Accounts Wing to improve functional output, qualitative efficiency of duties performed in the wing.

- Implementation of IT in routine day to day activities.
- Implemented issuance of Pension Payment Order to the Institute Pensioners of JIPMER.
- Implemented direct credit system of monthly pension to Institute Pensioners of JIPMER through SBI as like Govt. Pensioners.
- Created a separate Fixed Deposit for a tune of 30 Crores and earmarked as Corpus Fund by adhering the directions of JIPMER Act, SFC with due approval of Director after meticulous analysis of JIPMER internal revenue for the last five years.
- Enforced collection of rent for the premises/ quarters occupied by other organizations like Bank, CPWD, Post Office, PAO and staff members of other than JIPMER.
- Fee for the foreign delegates/ WHO fellows who visit JIPMER for training.
- Successfully implemented SBI Collect Module for collections of revenue receipts from various sources of JIPMER to prevent Revenue loss.
- In order to ensure timely, smooth and student friendly fee collection system successfully implemented SBI Collect Module for all revenue receipts from Academic Section, Examination Wing and Hostels.
- For the first time ever in the history of JIPMER, the MBBS Entrance Exam Fee collection has been facilitated through SBI Collect Module and the same has been integrated with online application portal. As a result the ratio and quantum of refund rising due to wrong / multiple payments have considerably reduced and hands-on data is readily available for the Entrance Exam fee collected.
- Facilitated donations of kind from SBI under CSR scheme.
- Regularizing the purchase of equipment and consumables on need basis and of essential nature
- Proposed energy audit so as to reduce the monthly expenditure on electricity consumption.
- Adhering austerity measures of the Govt. with respect to the foreign visits for conference/ summits.
- Audit objection ratio (of AG audit) decreased due to streamlining of Finance and Accounts department. An Internal Audit Wing was established to execute the Internal Audit over bills disbursed, vouchers passed and records maintained in the Institute so as to have a thorough internal check and to avoid excess payment. As a result the CAG has given the statement that the Institute Accounts gives *a true and fair view*.
- Income Tax - TDS guidelines by initiating and obtaining TAN number so as to facilitate TDS deduction from salaries and other contingent bills.
- Electronic transfer of payment disbursement with respect to intramural and extramural projects for prompt payment to the PIs.
- Was instrumental in the procurement and implementation of “SFACTS – a fund based research software” in order to ensure timely and efficient bill disbursement system with respect to research activities.

### **Faculty (Admin.), JIPMER**

- Facilitated implementation of group insurance scheme for all staff of JIPMER on par with CGEGIS.
- Conducted DPC's for promotion & MACP to various categories of staff of JIPMER.
- Facilitated and implemented Outsourcing of security and house-keeping services in JIPMER on compliance with the orders of Ministry.
- Assisted the Chairman of RR Committee to frame/ amend Recruitment Rules as per DoPT guidelines.
- Facilitated and implemented Administrative software for the smooth functioning of Administration, Finance & Accounts, Purchase, Estate Section etc.,
- Initiated digitalization service books of JIPMER employees by adhering instructions on e-governance.

- As First Appellate authority for the administrative sections ensured prompt and timely disposal of first appeal on RTI's filed.
- Successfully conducted special recruitment drive for ST category - written test for recruitment to the post of Staff Nurse for the first time in the history of JIPMER
- Successfully conducted special recruitment drive for PwD - written test & skill test for recruitment to various posts as per the directions of the Ministry within a short period time.
- Successfully conducted written test & skill test for recruitment to the posts of LDC, Stenographer Grade – II, X – Ray Technician, etc. and ensured transparent selection process.
- Successfully conducted written test & interview for recruitment to the posts of Junior Residents & Senior Residents and ensured transparent selection process by revamping the entire selection process.
- Dealt with the court cases in a systematic manner to ensure justice to the Institute and also amicably solved various administrative issues pertaining to service matters of employees of JIPMER as per the rules and ensured no unwanted court cases are filed against the Institute.
- Assisted the Director to resolve various complicated Administrative issues for the welfare of employees.
- Efficiently conducted written test, skill test and interview for recruitment to various posts on contractual basis without violating Govt. rules and regulations.
- Has defined, derived and executed standard operating procedures for various stages of recruitment by proposing evaluation committee, selection committee, vigilance committee, etc., to ensure transparency and by which results were published on the same day.
- Facilitated and assisted Director in successfully conducting Governing Body and Standing Finance Committee Meetings of the Institute.

### **Nodal Officer, JIPMER**

- Ensured timely and prompt responses / replies to the communications from the Ministry of Health & Family Welfare and from various Govt. authorities with due approval of the Competent Authority.
- With due approval of the Competent Authority, ensured strict compliance measure with respect to Grievance redressal mechanism for the grievances raised through PG portal and from PMO office.
- As nominated by Director, JIPMER, successfully conducted written test for recruitment to the post of Staff Nurse, Directorate of Health Services, Andaman & Nicobar Administration which was withheld for more than 5 years.
- As deputed by Director, JIPMER, attended several meetings with the officials of Ministry of Health & Family Welfare, New Delhi.
- Ensured appropriate action on various anonymous letters by adhering guidelines of CVC.
- Facilitated and executed various assignments given by the Competent Authority from time to time.

## **SCIENTIFIC PUBLICATIONS**

### **Original Articles, Reviews etc.**

- **Gitanjali B**, Sivagnanam G, Raveendran R, Adithan C, Bapna JS. Effect of electroconvulsive therapy on alloxan induced diabetes in rats. Ind J Pharmacol. 1987;19:153-5.
- Raveendran R, Sivagnanam G, Adithan C, **Gitanjali B**, Bapna JS, Reddy S, Soundararaghavan S, Habeebullah S, Rajaram P. Antipyrine metabolism in patients with cancer of the cervix. Med Sci Res. 1988;16:647-8.

- **Gitanjali B**, Raveendran R, Zutshi S. Adverse drug reaction monitoring - a review. *J Applied Med.* 1990;16:151-2.
- **Gitanjali B**, Vijayaraghavan MV, Seshubabu G, Shashindran CH, Chandrasekar S. Prescription auditing in short fevers - The JIPMER experience. *Natl Med J India.* 1990;3(6):306-7.
- **Gitanjali B**, Adithan C, Raveendran R, Shashindran CH, Chandrasekar S. Pharmacokinetics of a single dose of digoxin in patients with uncomplicated type II diabetes mellitus. *Int J Clin Pharmacol Ther Toxicol.* 1992;30(4):113-6.
- **Gitanjali B**, Shashindran CH, Sethuraman KR. Atenolol-induced selective muscle fatigue. *Post Marketing Surveillance.* 1992;6:91-2.
- Bapna JS, Tekur Uma, **Gitanjali B**, Shashindran CH, Pradhan SC, Thulasimani N, Tomson G. Drug utilization at primary health care level in Southern India. *Eur J Clin Pharmacol.* 1992;43:413-5.
- **Gitanjali B**, Shreeram G, Sethuraman KR. Obstructive sleep apnea in a hypertensive obese patient. *Indian Heart J.* 1993;45(3):221-2.
- **Gitanjali B**. Unnecessary injections increase the risk of AIDS transmission. *World Health Forum.* 1993;14:291-2.
- **Gitanjali B**, Sivagnanam G, Raveendran R, Shashindran CH. Ascorbic acid delays the development of tolerance to amphetamine induced anorexia but does not affect the reverse tolerance which develops to the locomotor activity. *Indian J Exp Biol.* 1994;32:540-3.
- Raveendran R, **Gitanjali B**. Conflict of interest. *Lancet.* 1997;349:1173-4.
- **Gitanjali B**, Shashindran CH, Tripathi KD, Sethuraman KR. Are drug advertisements in Indian edition of BMJ unethical? *BMJ.* 1997;315:459-60.
- **Gitanjali B**, Shashindran CH. Sleep medicine: An emerging medical specialty. *J Applied Medicine.* 1987;23(10):809-11.
- **Gitanjali B**. Effect of the karnatic music raga "Neelambari" on sleep architecture. *Indian J Physiol Pharmacol.* 1998;42(1):119-122.
- **Gitanjali B**, Raveendran R. Teaching research methodology to postgraduates: Is dissertation the only method? *Natl Med J India.* 1988;11(1):23-5.
- Rauniar GP, **Gitanjali B**, Shashindran CH. Comparative effects of hyoscine butylbromide and atropine sulphate on sleep architecture in healthy human volunteers. *Indian J Physiol Pharmacol.* 1998;42(3):395-400.
- **Gitanjali B**. Establishing a sleep polysomnography laboratory in India – Problems and pitfalls. *Sleep.* 1998;21(4):41-2.
- **Gitanjali B**, Rauniar GP, Shashindran CH. Effect of hyoscine butylbromide and atropine on heart rate during nocturnal sleep. *Indian J Exp Biol.* 1998;36:1216-20.
- **Gitanjali B**. Ethics and examinership. *Natl Med J India.* 1998;11(6):209.
- **Gitanjali B**, Raveendran R, Shashindran CH. Objective Structured Practical Examination in pharmacology for medical laboratory technicians. *Indian J Physiol Pharmacol.* 1999;43(2):242-6.
- Shashindran CH, **Gitanjali B**. Adverse Drug Reaction Monitoring. *Hlth Admin.* 1999;19(1):20-21.
- **Gitanjali B**. Developing lifetime pharmacology skills in India. *Essential Drugs Monitor.* 1999;27.
- **Gitanjali B**, Adithan C. Status report on chemotherapeutic agents. *Indian J Pharmacol.* 2000;32(4): S33-S42.
- **Gitanjali B**. Peer review – process, perspectives and the path ahead. *J Postgrad Med.* 2001;47(3): 210-4.
- Thomas VD, Vinod Kumar S, **Gitanjali B**. Predictors of nocturnal oxygen desaturation in chronic obstructive pulmonary disease in a south Indian population. *J Postgrad Med.* 2002;48(2):101-4.

- **Gitanjali B**, Ananth R. Effect of acute exposure to loud occupational noise during daytime on the nocturnal sleep architecture, heart rate, and cortisol secretion in healthy volunteers. *J Occup Health*. 2003;45:146-52.
- **Gitanjali B**, Raveendran R, Pandian DG, Sujindra S. Recruitment of subjects for clinical trials after informed consent: Does gender and educational status make a difference? *J Postgrad Med*. 2003;49:110-3.
- **Gitanjali B**, Dhamotharan R. Effect of occupational noise on the nocturnal sleep architecture of healthy subjects. *Indian J Physiol Pharmacol*. 2003;47:415-22.
- **Gitanjali B**. Citing books as references: A student's dilemma. *Indian J Pharmacol*. 2003;35(6):401.
- Sivagnanam G, Thirumalaikolundusubramanian P, Namasivayam K, **Gitanjali B**. Study of the knowledge, beliefs and practice of sleep among medical undergraduates of Tamilnadu, India. *MedGenMed*. 2004;6(4):5.
- **Gitanjali B**. The other side of OSPE. *Indian J Pharmacol*. 2004;36:388-9.
- **Gitanjali B**. Academic dishonesty in Indian Medical Colleges. *J Postgrad Med*. 2004;50:282-5.
- **Gitanjali B**. The ICMJE statement on compulsory clinical trial registration: Should Indian journals follow suit? *Indian J Med Ethics*. 2005;2:74-5. (Reprinted with permission in *Indian J Pharmacol* 2005; 37(6): 207-8)
- **Gitanjali B**. Shashindran CH. Curriculum in clinical pharmacology for medical undergraduates. *Indian J Pharmacol*. 2006;38(Suppl 2):S108-S113.
- **Gitanjali B**. Shashindran CH. Formulating a curriculum in clinical pharmacology for medical undergraduate students in India. *Indian J Pharmacol*. 2006;38(Suppl 2):S105-S107.
- Vimalavathini R, Agarwal SM, **Gitanjali B**. Educational program for patients with type-1 diabetes mellitus receiving free monthly supplies of insulin improves knowledge and attitude, but not adherence. *Int J Diab Dev Ctries*. 2008;28:86-90.
- Vimalavathini R, **Gitanjali B**. Effect of temperature on the potency and pharmacological action of insulin. *Indian J Med Res*. 2009;130:166-9.
- **Gitanjali B**, Manikandan S. Availability of five essential medicines for children in public health facilities in India: A snapshot survey. *J Pharmacol Pharmacother*. 2011;2:95-9.
- **Gitanjali B**, Weerasuriya K. The curious case of zinc for diarrhea: Unavailable, unprescribed and unused. *J Pharmacol Pharmacother*. 2011;2:225-9.
- **Gitanjali B**. World Health Organization bids adieu to Hans Hogerzeil - the dynamic director of essential medicines and pharmaceutical policy. *J Pharmacol Pharmacother*. 2011;2:308-9.
- Raveendran R, **Gitanjali B**. Alternatives to Animals in Teaching: Experience in an Indian Medical School. *Altex Proceedings*. 8th World Congress, Montreal 2011.
- Manikandan S, **Gitanjali B**. National list of essential medicines of India: The way forward. *J Postgrad Med*. 2012;58:68-72.
- Ananthkrishnan N, Arora NK, Chandy G, **Gitanjali B**, Sood R, Supe A, Nagarajan S. Is there need for a transformational change to overcome the current problems with postgraduate medical education in India? *Natl Med J India*. 2012;25:101-8.
- Williams K, Thomson D, Seto I, Contopoulos-Ioannidis DG, Ioannidis JPA, Curtis S, Constantin E, **Batmanabane G**, Hartling L, Klassen T. Standard 6: Age groups for pediatric trials. *Pediatrics*. 2012; 129(3):S153-S160.
- Contopoulos-Ioannidis DG, Seto I, Hamm MP, Thomson D, Hartling L, Ioannidis JPA, Curtis S, Constantin E, **Batmanabane G**, Klassen T, Williams K. Empirical Evaluation of Age Groups and Age-Subgroup Analyses in Pediatric Randomized Trials and Pediatric Meta-analyses. *Pediatrics*. 2012; 129(3):S161-S184.

- **Gitanjali B**, Jena PK, Dikshit R, Abdel-Rahman S. Using the Mercy method for weight estimation in Indian children. *Global Pediatric Health*. 2015;1-7. DOI: 10.1177/2333794X14566625
- Jayanthi M, Jain T, Dubashi B, Reddy KS, **Gitanjali B**. Prescription errors in cancer chemotherapy: omissions supersede potentially harmful errors. *J Pharmacol Pharmacother*. 2015;6:83-7.
- Nidanapu RP, Rajan S, Mahadevan S, **Batmanabane G**. Tablet Splitting of Antiepileptic Drugs in Pediatric Epilepsy: Potential Effect on Plasma Drug Concentration. 2016 *Pediatr Drugs* DOI 10.1007/s40272-016-0193-1s.

## Editorials

- **Gitanjali B**. Animal experimentation in teaching: time to sing a swan song. *Indian J Pharmacol*. 2001;33(2):71.
- **Gitanjali B**. The CONSORT statement: A versatile tool. *Indian J Pharmacol*. 2001;33(4):247.
- **Gitanjali B**. Plagiarism: The new plague? *Indian J Pharmacol*. 2001;33(6):395.
- **Gitanjali B**. Plagiarism-II. *Indian J Pharmacol*. 2002;34(2):70-1.
- **Gitanjali B**. Cutting the foot to fit the shoe. *Indian J Pharmacol*. 2002;34(5):300.
- **Gitanjali B**. Plagiarism III. *Indian J Pharmacol*. 2002;34(6):377-8.
- Subramoniam A, **Gitanjali B**. CPCSEA - a double edged sword. *Indian J Pharmacol*. 2003;35(2):71-2.
- **Gitanjali B**. Pharmacoepidemiology in India: Falling into a rut? *Indian J Pharmacol*. 2003;35(3): 137.
- **Gitanjali B**. Bags, banquets and boring speeches – the bane of conferences. *Indian J Pharmacol*. 2003;35(6):348.
- **Gitanjali B**. The M.D.(Pharmacology) examinations: A call for better standards. *Indian J Pharmacol*. 2004;36:339-40.
- **Gitanjali B**. New wine in new bottles... *Indian J Pharmacol*. 2004;36(2):63-4.
- **Gitanjali B**. Identifying a research topic: The problem is the problem... *Indian J Pharmacol*. 2005; 37(2):67-8.
- **Gitanjali B**. Training students in research methodology: are we doing enough? *JK Science*. 2006;8: 1-3.
- **Gitanjali B**. Valethamate bromide: Is there any proof of efficacy and safety in labour? *J Pharmacol Pharmacother*. 2010;1:2-3.
- **Gitanjali B**. The National Essential Medicines List of India: Time to revise and purge the mistakes. *J Pharmacol Pharmacother*. 2010;1:73-4.
- **Gitanjali B**. Calling a spade a spade...why editors are uncomfortable to say it as it is. *J Pharmacol Pharmacother*. 2012;3:1-3.
- **Gitanjali B**. Are we going to allow the last nail on the coffin of animal experimentation to be nailed? *J Pharmacol Pharmacother*. 2012;3:215-6.
- **Gitanjali B**. When angels fall...Are we lowering the standards of medical education in India? *J Pharmacol Pharmacother*. 2013;4:1-3.
- **Gitanjali B**. Antidotes: Where are they when needed? *J Pharmacol Pharmacother*. 2014;5(1):1-3.
- **Gitanjali B**. Why patients in pain cannot get God's own medicine? *J Pharmacol Pharmacother*. 2014;5(2):81-2.
- Manikandan S, **Gitanjali B**. The Three R's of Written Assessment - the JIPMER experience. *J Pharmacol Pharmacother*. 2016;7(3):115-7.

## Books

- Raveendran R, **Gitanjali B**. A Practical approach to PG dissertation. New Delhi: Jaypee Brothers Medical Publishers; 1997.

- **Gitanjali B**, Raveendran R, Shashindran C.H. A manual of practical exercises in pharmacology. Puducherry: Indian Pharmacological Society; 1999.
- Raveendran R, **Gitanjali B**, Manikandan S. A Practical approach to PG dissertation. 2<sup>nd</sup> edition. Hyderabad: PharmaMed Press; 2011.

### **Chapters in books**

- **Gitanjali B**. Scientific fraud and misconduct. In: Naik SR, Aggarwal R, editors. Communication for biomedical scientists. New Delhi: Indian Council of Medical Research; 2003.
- **Gitanjali B**. Sleep Medicine - Awareness & Diagnosis. In: Bhattacharya PK, editor. Medicine update. Volume VII. Assam: APPICON; 2003.
- **Gitanjali B**, Weerasuriya K. Essential medicines and rational drug use. In: Parthasarathi G, Nyfort- Hansen K, Nahata MC, editors. A Textbook of Clinical Pharmacy Practice. Essential Concepts & Skills. 2<sup>nd</sup> edition. Hyderabad: Universities Press; 2012.
- **Gitanjali B**. The IMRAD structure. In Sahni P, Aggarwal R, editors. Reporting and Publishing Research in the Biomedical Sciences. New Delhi: National Medical Journal of India; 2015.

### **AWARDS, DISTINCTIONS, PRIZES**

- BMJ South Asia Award for Best PG Thesis of the year 2015 to Dr. M. Anbarasan (PG student of Dr.B.Gitanjali)
- Ex Pharm Prize to for best oral presentation for the paper entitled “Impact of a sensitization program to reduce medication errors in intensive care units of JIPMER” at the 6th National and 3rd International Annual Conference of Indian Society for Rational Pharmacotherapeutics held at Puducherry during November 21-22, 2014.
- First prize for oral presentation for the paper entitled “Impact of a sensitization program to reduce medication errors in intensive care units of JIPMER Hospital” at the 6th Annual Conference of Indian Pharmacological Society – Puducherry Chapter 2015 held at Mahatma Gandhi Medical College on February 12, 2015.
- First prize in oral presentation for paper entitled “Comparison of efficacy and safety of controlled release morphine with immediate release morphine for cancer pain in palliative care patients – a randomized double blind controlled study” at the National Conference on Clinical Research and Personalised Therapy (NCCP 2015) held at Puducherry on 30th & 31<sup>st</sup> December 2015.

### **EXTRAMURAL RESEARCH GRANTS**

- From Indian Council of Medical Research - Principal Investigator of project entitled "Sleep polysomnography as a predictor of response to ECT in depression"
- From WHO/SAREC: Co-investigator of project entitled - "Use of antibiotics in the community - a study from South India "
- From Department of Science, Technology and Environment: Principal Investigator of project entitled "Effect of occupational noise on sleep architecture of healthy subjects".
- From University Grants Commission : Principal Investigator of project entitled "Ethnic differences in the Pharmacodynamics and pharmacokinetics of alprazolam"
- From Central Council for Research in Yoga and Naturopathy : Principal Investigator of project entitled "Effect of yoga based therapy in chronic insomnia”
- From Central Council for Research in Homeopathy : Principal Investigator of project entitled “Effect of homeopathic drugs used in insomnia on serum melatonin and cortisol levels in healthy volunteers”

### **EXTRA –CURRICULAR AND OTHER ACADEMIC ACTIVITIES**



- Section Editor for Clinical Pharmacology, Journal of Pharmacology and Pharmacotherapeutics (2008 onwards)
- Associate Editor, Indian Journal of Pharmacology (2000 to 2006)
- Assistant Editor, Indian Journal of Pharmacology (1994-1998)
- President of JIPMER Faculty Association 2007-2009; and 2013-2014
- Staff advisor to JIPMER Students Association 2008-2009
- Coordinator for the JIPMER Golden Jubilee souvenir committee
- Postgraduate Diploma in Bharatha Natyam and nattuvangam – Natyakalalayam School of Dance, under guru K.N.Dandayudhapani Pillai, Chennai.
- Diploma in Bharatha Natyam – Kalalaya School of Dance
- Member, Expert Committee for Selection and Use of Essential Medicines, 2009, 2013, & 2015, World Health Organization, Geneva.
- Member, Expert Panel on Drug Evaluation, World Health Organization, Geneva, 2014
- Life-member, Indian Pharmacological Society
- Life-member, Indian Society for Rational Pharmacotherapeutics
- Executive member Indian Sleep Research Society
- Life-member, Educators for Rational Use of Medicines
- Chairperson, Institute Ethics Committee – Puducherry Institute of Medical Sciences, Kalapet (2013 – till date)
- Chairperson, Institute Ethics Committee – Siddha Regional Research Institute, Kuyavarpalayam, Puducherry (2009-2011)
- Chairperson, Institute Scientific Research Committee, Puducherry Institute of Medical Sciences, Kalapet (2012-2013)
- Member, Human Ethics Committee of Mahatma Gandhi Medical College and Research Institute, Pillaiyarkuppam, Puducherry (2008-9)