

Mr.GOPKUMAR P.



Address for Correspondence:

Associate Professor,
Department of Pharmachemistry

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Objective

- To excel in the field of pharmaceutical research and teaching, and to be a part of the growth-oriented team with a challenging environment.

Personal Skills

- *Ability to work in a team.*
- *Hard working nature with high commitment.*
- *Capable of implementing creative thoughts.*
- *Strong communications skills.*
- *Excellent interpersonal, writing, verbal communication and research skills*

Academic Qualification

Ph. D: Worked on the project entitled: “*Studies on microbial biotransformation for the synthesis of stereoselective novel pharmaceutical drug precursors and their pharmacological evaluation*” Worked under the supervision of **Dr. Gopal Mugeraya, Prof and Head**, Department of chemical Engineering, NITK surathkal, Karnataka, India (2005-2008).

M.Pharm. (Pharmaceutical chemistry) from S.C.S. College of Pharmacy, Harapanahalli, Rajiv Gandhi University of Health Sciences, year (1998-2000) Karnataka, INDIA.

DISSERTATION TOPIC: Synthesis and Pharmacological screening of 6-fluoro-7-(substituted)-(2-N-P-anilinsulphonamido) benzothiazole

B.Pharm from Shri Siddhaganga College of Pharmacy, Tumkur.Bangalore University,Karnataka State, INDIA (1997).

Managing Editor:

Research Journal of Pharmaceutical, Biological and Chemical Sciences

Journal Reviewer:

Bentham Science Publishers, “Letters In Drug Design & Discovery”

Personal Details:

Father's Name : PRABHAKARA ACHARYA
Date of Birth : 2nd June 1972.
Nationality : Indian
Languages Known : English, Hindi, Kannada, Malayalam and Tamil.
Marital Status : Married

Awards:

- **First Best paper award** from National Level Symposium “CHEMEXCEL -2007” conducted by Indian Society For Technical Education AND DEPARTMENT OF CHEMICAL ENGG, Bapuji Institute of engineering and Technology. Davangere.
- **First Best paper award** in National Level student Technical paper contest “Aagama 08” conducted by MIC college of Technology, Kancikacherla, Krishna Dt. AP, 2008.
- **Best paper award** in National level Technical Symposium “CHEM-WIZ 2008” conducted by chemical Engineering Association and Dept of chemical Engineering, Chaitanya Bharathi Institute of Technology, Hyderabad, AP, March 2008.
- **First Best paper award** at National Conference on Biomedical engineering NCBME 2007 from Indian biomedical association and biomedical department, Manipal institute of technology.
- **Best paper award** at National seminar on “Reactions’ 07” conducted by Chemical Engineers association and Department of Chemical Engineering ST. PETER’S Engineering College, Chennai, 2007.
- **First Best paper award** in National Level student Technical paper contest “Aagama 08” conducted by MIC college of Technology, Kancikacherla, Krishna Dt. AP, 2008.
- **Second best paper award** in National Level Symposium “CHEMEXCEL -2008” conducted by Indian Society For Technical Education (ISTE) AND Department of Chemical Engg, Bapuji Institute of engineering and technology, Davangere,

Research Publications

Paper Published:

Gopkumar P*, B. Shivakumar, E.Jayachandran A.N.Nagappa and L.V.G.Nargund
“Synthesis and biological activity of 6-fluro, 7-(substituted)-(2-N-P-anilino sulphonamido) benzothiazole”, Indian J. Heterocyclic Chem. Vol11, July-Sept, 2001, 39-42.

Gopkumar P*, Gopal Mugeraya and Sridevi G.” Biotransformation of the 1, 8-cineole by *Rhizopus arrizus*” Journal of Pharmacy and Chemistry (An international research journal of Pharmaceutical and Chemical Sciences) October - December 2007. 1, 10-14, 2007.

Gopkumar P*¹, Gopalmugeraya¹, Sridevi² “Fungal mediated biotransformation of E-guggulsterone” Journal of Chemical and Pharmaceutical Sciences, 32-34, Volume – 2, January’2009 - March’2009.

N.K. Sathish, **Gopkumar. P.**, M. Bhagavanraju, K. Hemamalini, ,V.Narendra and V.V.S. Rajendra prasad “synthesis and evaluation of fexofenadine analogue for antihistaminic, anticholinergic and sedative activities” Asian journal of chemistry, vol., 19, no 6(2007), 4809-4816.

Gopkumar P. and Sridevi G Paper entitled “Fast Dissolving Tablets for Promethazine Theoclate” published in INDIAN DRUGS 41(9)September 2004.

Vrushabendra Swamy **Gopkumar P**, Syed Mansoor Ahmed “Antidiarrhoeal Activity of Terminalia catappa Linn. Leaf extracts in rats” Asian journal of chemistry, Vol.18, No 2 (2006), 1236-1242.

Syed Mansoor Ahmed , Vrushabendra Swamy **Gopkumar P.**, “Anti diabetic activity of *Terminalla catappa Linn* leaf extract in Alloxan- induced Diabetic rats” IJPT, vol.4, no1, Jan 2005, 36-39.

Sridevi G*, Mugeraya Gopal, **Gopkumar P** and Shilpi.” Bioelectro Analytical Study of Colon-Specific Prodrug Using Modified Carbon Paste Electrode” International Journal of Pharmacy and Chemistry, .1. 25-30, 2007

Swamy B.M *,. **Gopkumar P**, Nataraj KS, Jayaveera K.N, Sridevi G. “Anti-diarrheal potential of *Aegle marmelos* Corr. Root bark extract in rats” Online Pharmacology Journal, 21, 22-28, 2

Vrushabendra Swamy. B.M **Gopkumar P** , Nataraj KS and Sridevi G, “Study on the diuretic activity of *hygrophiliaauriculata* whole plant in albino rats” Int. J. Chem. Sci.: 5(5), 2007, 2411-241

Sridevi G*, Mugeraya Gopal and **Gopkumar P** “A High Sensitivity Amperometric Biosensor for Azocompound Detection Using Laccase as Biorecognition Element” International Journal of Chemical and bimolecular Engg. Issue 4, 32-41, 2009.

Sridevi G*, Mugeraya Gopal and **Gopkumar P** “Studies on biosignal based sensor development for sulfasalazine detection” International Journal of chemical science. published in April 2009 issue.

Sridevi G*, Mugeraya Gopal and **Gopkumar P** “Detection of Orange G using Novel Bioelectrocatalytical Method” International Journal of Osteoporosis and Metabolic Disorders. Issue 2. 21-26 2008

Sridevi G*, Mugeraya Gopal and **Gopkumar P** “Amperometric Biobased Sensor for azocompound Detection Using Laccase as Biorecognition Element” International Journal of Chemical and Pharmaceutical Sciences. Issue 2, 12-22, 2009.

Sridevi G*, Mugeraya Gopal, **Gopkumar P** and Shilpi.” Bioelectric Analytical Study of Colon Specific Prodrug Using Modified Carbon Paste Electrode” International Journal of Pharmacy and Chemistry, October - December 2007. Vol.1. Issue 1. 25-30.

Sridevi G*, Mugeraya Gopal and **Gopkumar P.**” Evaluation of biobased sensor for azodye detection” International Journal “Journal of Applied science” June 2008 6 Issue.

Sridevi G, B. M. Vrushabendra swamy, K. S. Nataraj, and P. **Gopkumar** “Study on The Diuretic Activity of Hygrophilia Auriculata Whole Plant in Albino Rats” International Journal of Chemical Sciences: 5(5), 2007, 2411-2415.

Ashoka Shenoy M*, Sridevi G, **Gopkumar P** and C.S.Shastry. “Evaluation of immunomodulatory activity of the Ethanolic extract of Naravelia zeylanica leaves”, accepted in Journal of Chemical and Pharmaceutical Sciences.

Ashoka Shenoy M*, Sridevi G, **Gopkumar P** and C.S.Shastry. “Antianxiety activity of Anxy, A Polyherbal Preparation”, published in Pharmacologyonline 1: 928-936 (2009)

Sridevi G*, Ashoka Shenoy M, **Gopkumar P** and C.S.Shastry. “Pharmacological Basis for Antianaphylactic, Antihistaminic and Mast cell stabilization activity of Ocimum sanctum”, accepted in The Internet Journal of Pharmacology.

International Conferences:

Gopkumar P*, Gopal Mugeraya, and Sridevi G., “**Production of Biotransformed Hydroxy derivatives of 1, 8-cineole using submerged fermentation by *Rhizopus arrizus***” has been accepted for the presentation in **INDO-ITALIAN International Conference on Green & Clean Environment (GCE-2008)** organized and sponsored by Embassy of Italy, New Delhi in association with MAEER’s College of Engineering, Pune, India.

Gopkumar P*, Gopal Mugeraya, and Sridevi G “ **Microbial Transformation of Bioactive Natural compound**” presented in **International Conference on Biotechnology (INCOB-2008)** organized by the school of Biotechnology , Chemical and Biomedical Engineering, VIT University , Vellore, during Feb 6th-8th 2008.

Gopkumar P*, Gopal Mugeraya and Sridevi G. “*Selective microbial transformation reactions for the synthesis pharmaceutically important drug precursor* ” presented in the **second International Conference**, on Pharmaceutical Sciences, Technology and Practice held at J. S. S. College of Pharmacy, Ooty, during February 24-26, 2007.

Gopkumar P*, Gopal Mugeraya and Sridevi G “*Entrapment of enzyme within organic and inorganic materials for biosensor applications- comparative study*”, 2nd **International symposium** on Drug Discovery and Process Research (DDPR) held in JNMC Campus Belgaum during 10th to 12 Feb 2006, 151-152pp.

N Umashankar*, **Gopkumar P**, M L Verma , G Sridevi , M. R. Harish and C Rakhee, presented the paper “**Effectiveness of topical green tea against Methicillin resistant *Staphylococcus Aureus***” in the clinical cases session “Hair and nails/Pharmacology and drug therapy, 21st World Congress of Dermatology Held at Argentina September 30-oct 5, 2007

Gopkumar P*, Gopal M., Sridevi G. “**BIOTRANSFORMATION OF NATURAL STEROIDAL DRUG USING WHOLE-CELL BIOCATALYST**” has been accepted for presentation in **Industrial Biotechnology International conference 2008 (IBIC2008)** organized by The Italian association of chemical Engineering, Naples, Italy.

Sridevi G., Gopal Mugeraya and **Gopkumar P**. “*Laccase Enzyme Based Novel Bioelectrocatalytical Method for Detection of Orange G*” presented in the **International Conference on Biotechnology** to be held at ITALY, during July 6-9, 2008.

Sridevi G., Gopal Mugeraya and **Gopkumar P**. “*Biocatalysis of Steroid by Whole-Cell Biocatalysts*” presented in the **International Conference on Biotechnology** to be held at ITALY, during July 6-9, 2008.

Gopkumar P, N Umashankar G Sridevi, * M L Verma, M. R. Harish and C Rakhee, presented the paper “**Effectiveness of topical green tea against Methicillin resistant *Staphylococcus Aureus***” in the clinical cases session “Hair and nails/Pharmacology and

drug therapy, 21st *World Congress of Dermatology* Held at Argentina September 30-oct 5, 2007

Sridevi G., Gopal Mugeraya and **Gopkumar P.** "*Studies on Determination of Substrate specificity of Laccase Enzyme for Biosensor Development using Redox Potentials.*" presented in the *International Conference on Biotechnology* held at VIT, vellore during February 6-9,2008.

Sridevi G., Gopal Mugeraya and **Gopkumar P.** "*Determination of catalytic reaction parameters of laccase enzyme based on electrooxidation of azodyes.*" presented in the *International Conference on Biotechnology* held at VIT, Vellore during February 6-9, 2008.

Sridevi G., Gopal Mugeraya and **Gopkumar P.** "*Microbial Transformation of Bioactive Natural Compound*" presented in the *International Conference on Biotechnology* held at VIT, vellore during February 6-9, 2008.

Sridevi G., Gopal Mugeraya and **Gopkumar P.** "*Studies On Development Of Enzyme Based Biosensor For Quantification Of Amount Of Azoprodrug Release In Colon* " presented in the **second International Conference**, on Pharmaceutical Sciences, Technology and Practice held at J. S. S. College of Pharmacy, Ooty during February 24-26, 2007.

Sridevi G., Gopal Mugeraya and **Gopkumar P.** "*Selective microbial transformation reactions for the synthesis pharmaceutically important drug precursor* " presented in the **second International Conference**, on Pharmaceutical Sciences, Technology and Practice held at J. S. S. College of Pharmacy, Ooty during February 24-26, 2007.

Sridevi G., Gopal Mugeraya and **Gopkumar P.** "*Entrapment of enzyme within organic and inorganic materials for biosensor applications- comparative study*", 2th **International symposium** on Drug Discovery and Process Research (DDPR) held in JNMC Campus Belgaum during 10th to 12 Feb 2006, 151-152pp.

Sridevi G., Gopal Mugeraya and **Gopkumar P.** "*Surface Chemistry principles for creating reactive fiber surfaces for enzyme immobilization*", 2th **International symposium** on Drug Discovery and Process Research (DDPR) held in JNMC Campus Belgaum during 10th to 12 Feb 2006, 153-154pp.

National Conferences:

Gopkumar P* and Jitenrakumar “**Utilization of White Biotechnology process for the production of drug Intermediates using renewable raw material**” presented in the National Level student Technical paper contest “**Aagama 08**” conducted by MIC college of Technology, Kancikacherla, Krishna Dt. AP, on 1st -2nd Feb 2008. **(Has Won the First Prize Award)**.

Gopkumar P*., Gopal Mugeraya , Sridevi G and Jiatndrakumar “**Application of biocatalyst renewable raw materials and utilization of renewable raw materials for the production of stereoselective drug intermediates**” presented in National level Technical Symposium “**CHEM-WIZ 2008**” conducted by chemical Engineering Association , Dept of chemical Engineering, Chaitanya Bharathi Institute of Technology, Hyderabad, AP, during 4th -5th March 2008. **(Has Won the Second Prize Award)**.

Gopkumar P*., Gopal Mugeraya , Sridevi G “**Application of renewable raw materials and utilization of biocatalyst for the production of stereoselective drug intermediates**” Presented in National level conference on Environment and safety ENVISAFE 08 held Dept of Environmental Engineering KIT’S college of Engineering , Kolhapur, on 12 -13 Jan 2008.

Gopkumar P*., Gopal Mugeraya and Sridevi. “**Statistical method of fungal media optimization for maximum biotransformation of 1, 8 Cineole**” presented in the “Indian society for Medical statistics (ISMS) Silver Jubilee National Conference-2007, Held at Manipal University, Manipal. From Nov 30th to Dec 2nd, 2007.

Gopkumar P*., Gopal Mugeraya, Sridevi G and Niveditha “**Studies on Biotransformation of 1.8.ceniole by using Rhizopus arrizhus with respect to media composition**” presented in National seminar on Forest and microbial diversity and its relevance, conducted by UGC New Delhi and Karnataka Biodiversity Board, Bangalore., held at Dept of Microbiology, post graduate centre, Cauvery campus, Madikeri, Mangalore University on 29th, 30th Dec 2007.

Gopkumar P*., Gopal Mugeraya, Sridevi G and Pavana “**Studies on Biotransformation of 1.8.ceniole by using Aspergillus niger with respect to media composition**” presented in National seminar on Forest and microbial diversity and its relevance, conducted by UGC New Delhi and Karnataka Biodiversity Board, Bangalore., held at Dept of Microbiology, post graduate centre, Cauvery campus, Madikeri, Mangalore University on 29th, 30th Dec 2007.

Gopkumar P*. Gopal Mugeraya, Sridevi G. and Sugat “**Extraction Isolation and Process for the Production of Alkaloid present in *Adhatoda vasica* ”** presented in the National Level Symposium “**CHEMEXCEL -2007**” conducted by ISTE AND DEPARTMENT OF CHEMICAL ENGG, Bapuji Institute of engineering and technology, Davangere, Oct 31, 2007**(Has Won the First Prize Award)**.

Gopkumar P*, Gopal Mugeraya, and Sridevi G., “*Growth media Optimization for Maximum Biotransformation of the 1, 8- Cineole*” presented in the National seminar on “Recent Advances in Chemical Engineering NCRACE 2007” conducted by Department of Chemical engineering SRM University Kattankulathur on Oct 12, 2007.

Sridevi G., Gopal Mugeraya, **Gopkumar P** and Shilpi. “Evaluation of Biosignal Based Sensor for Sulfa Drug Monitoring” presented in the National Conference on Biomedical engineering NCBME 2007 “conducted by Biomedical Engineering Society of India and Manipal institute of Technology, Manipal, Oct, 5-6, 2007. (Has Won the First Best paper Award)

Sridevi G., Gopal Mugeraya, **Gopkumar P.** and Lister. H. Falleiro “An Electrochemical approach to the studies of Biobased Redox Reaction: potential application in Biosensor Development ” presented in the National Level Symposium “CHEMEXCEL - 2007” conducted by ISTE AND DEPARTMENT OF CHEMICAL ENGG, Bapuji Institute of Engineering and technology, Davangere, Oct 31, 2007 (**Has Won the Second Prize Award**)

Sridevi G., Gopal Mugeraya, **Gopkumar P** and Shilpi. “Design of carbon paste bioelectrode for the reagentless detection of eriochrome black T” presented in the National seminar on “Reactions’ 07” conducted by Department of Chemical Engineering ST. PETER’S Engineering College, Chennai, on Oct, 3-4, 2007, (Has Won the third best paper Award)

Gopkumar P., Sridevi G., and Swamy B.M., Presented paper at 55th I.P.C held at Chennai on “*Heptoprotective Activity Of Momordica Charantia Linn Against CCl4 Induced Hepatotxicity In Rats*”

Gopkumar P., Sridevi G., and Swamy B.M., Presented paper at 54th I.P.C held at Puna on “*Formulations containing Aloe gel for hair Growth*”.

Sridevi G., **Gopkumar P.**, and Swamy B.M., Presented paper at 55th I.P.C held at Chennai on “*Fast Dissolving Tablets of Promethazine Theoclate*”

Sathish N K, **Gopkumar P** Karvekar, Presented paper 55th I.P.C held at Chennai on “*Synthesis and Evaluation of various fexofenadine analogues*”

Sridevi G., **Gopkumar P.**, and Swamy B.M., Presented paper at 55th I.P.C held at Chennai on “*Selected Solubilization Techniques on the Dissolution Profile of a Non Polar Drug Refecoxcib*”

Gopkumar P., Sridevi G and Swamy B.M., Presented paper at APTI convention held at Hubli on “*Antibacterial and Ant fungal Activities of Ocimum Sanctum Leaf Extract*”.

Gopkumar P., Sridevi G and Swamy B.M., Paper entitled “*Heptoprotective Activity Of Moringa Olifera Linn Against CCl4 Induced Heptotoxicity In Rats*”, Presented paper at APTI. Convention.

Sridevi G **Gopkumar P.**, and Swamy B.M., Presented paper at **APTI** convention held at Hubli on “*Design and Optimization of Fast Dissolving Dosage forms for Promethazine theoclate*”.

Gopkumar P., Sridevi G and Swamy B.M., Presented paper at APTI convention held at Hubli on “*Antibacterial and Ant fungal Activities of Ocimum Sanctum Leaf Extract*”.

Gopkumar P., Sridevi G., and Swamy B.M., Presented paper at **APTI** convention held at Hubli on “*Effect of dissolution enhancers on dissolution profile of poorly soluble drug*”.

Sridevi G., Gopal Mugeraya, **Gopkumar P.** and Lister. H. Falleiro “Evaluation of Biosignal Based Sensor for Azodye Monitoring” presented in the National Level Symposium “Envisafe -2008” conducted by KIT, college of engineering and foundryman industrial association, Kolhapur, Jan 12-13, 2008.

Sridevi G., Gopal Mugeraya, Suchitra T.G., and **Gopkumar P.** “Determination of reactive Dye Eriochrome Black T using Bioelectrochemical Technique” presented in the National seminar on “Recent Advances in Chemical Engineering NCRACE 2007” conducted by Department of Chemical engineering SRM University Kattankulathur Oct 12, 2007.

Sridevi G., Gopal Mugeraya and **Gopkumar p.** “Statistically Designed Response Surface Optimization of Biological Treatment Method for Biodecolorization of Azodyes” has presented in the conference “National Conference on Biostatistics Engineering” to be conducted by Biostatistics society of India and KMC manipal from Nov 28, 2007.

Sridevi G., Gopal Mugeraya, Suchitra T.G., and **Gopkumar P.** “Bioconversion of Some Industrial Dyes By White-Rot Fungi: Potential Applications In Biosensor Development” presented in the National seminar on “Emerging Trends in Biochemistry – Health and diseases” conducted by Periyar university, Salem on 26 –27 February 2007.

Extra Curricular Activities:

Paper presentation computer surfing, Interacting with people, Journal reading, analyzing the research data's, net surfing,. Active in the field of sports and represented college team for various group sports events

Computer Skill Set

- MS OFFICE, C-Language and Internet Applications
- Operating systems: Windows, graphical and statistical packages Like SPSS, Design Expert, MATLAB, CAD.
- Completed course in Foundation CA

Work Experience

- Worked in capacity of in charge principal in “Bahubali College of Pharmacy” Shravanbelagola for three years. ((1997-2001) Channarayapatna (Tq), Hassan (Dt)
- Worked as lecturer in Dept of pharmaceutical chemistry, S.A.C. College of pharmacy (AIMS campus) B.G. Nagar. Nagamangal (Tq), Mandya (Dt) (2001-2005).
- **Worked as** Research Scholar in the National Institute, department of Chemical Engineering, Biotechnology division, **NIT-K, Surathkal**, Karnataka, India. (three years)
- Worked as a **Professor** at Srinivas College of Pharmacy Valachil, Mangalore, affiliated to Rajiv Gandhi University of Health Sciences, Karnataka,India.
- Worked as **Evaluator, External & Internal Examiner, Observer, Squad chief** for Examinations in Rajiv Gandhi University Of Health Sciences Bangalore.
- Presently Working as Associate professor in Dhanvantary college of Pharmacy Kim, Surath, Gujarath.

Research interests and expertise:

- Synthesis of organic compounds, spectral characterizations and its pharmacological evaluation.
- Biotransformation of natural or synthetic bioactive compounds into pharmaceutically and chemically useful precursor's molecules using novel microbial / enzymatic methods.
- Extraction, isolation and development of biomarker compounds and medicinal agent from plant and microbial origin.
- Isolation, characterization of microbes, fungus and utilizing them for various industrial and environmental applications.
- Analytical method development for qualitative and quantitative analysis of pharmaceutical active ingredients

Sophisticated instruments know to handle

GC-Mass, GC FTIR, AAS, HPLC, UV, , HPTLC,, IC, fermentor, Biosensors, PCR machine, Electrophoresis, , multistation dissolution, SCM, Cyclic Voltametry.

Experience in method development, validation (Installation validation, process validation, and cleaning validation) and both qualitative and quantitative analysis. Gradation of solvents for HPLC based on nature and chemical structure of analyte. Fragmentation analysis and Interpretation of data for Mass, NMR and IR peak analysis.

Professional membership:

Member of Indian Pharmaceutical Association and ISTE.

Actively participated in various guest lectures and in scientific sessions held during 52nd, 53rd, 54th, 56th I.P.C and APTI Convection.

Additional Activities:

1. As convener of **National Conference** on “Introducing research in teaching institutions” at Srinivas College of Pharmacy, Mangalore on 11th November 2008.
2. As organizing committee member of National **pharmacy week** at Srinivas College of Pharmacy.
3. Involved in organizing **National workshop** on “Recent Developments in Industrial Biotechnology” at NITK Surathkal on Jul.16th 2006.
4. Involved in organizing **National workshop** on “Research Methodology” by the research scholars forum, at NITK Surathkal on 13 February 2007.
5. Conducted **Short term courses** on “Advanced Instrumentation” a week’s course.
6. Involved in setting up of sophisticated lab for **TIFAC-CORE** under mission **REACH** on “Industrial Biotechnology” in NITK Surathkal, which include basic Biotechnology lab with higher end instruments like **AAS, IC, HPLC, GCMS, TOC** and insitu Fermentors.
7. Actively involved in organizing the **International Alumni meet** in NITK Surathkal.
8. Principle co-investigator for the project proposal written to AICTE, New Delhi, For 9 lakhs in the year 2004, under the category “A” of Research Projects

Symposium / Seminar/ Training

- 1) Attained short-term training program on “Instrumental Analysis” Sponsored by ISTE and AICTE, New Delhi and Conducted by College of Pharmaceutical Sciences, Kakatiya University Warangal (A.P.) During 15th July to 21st t July 2002.
- 2) Participated in the program on “Intellectual Property Rights” conducted by Small Industries Service Institute, at valley international, on 23 March 2007.
- 3) Participated in the one day workshop on “Research Management “conducted by NITK Surathkal on 13 February 2007.
- 4) Participated in the National level seminar on “Industrial Biotechnology” conducted by NITK Surathkal on 20 June 2006.
- 5) Participated in the sensitization program on “Intellectual Property Rights” conducted by Small Industries Service Institute, at Majuran international, on 27-28 March 2007.
- 6) Attended a National level workshop on “Trends in Aerosol Technology: Effect on Climate and Health” held at NITK Surathkal on 16-18 November 2005.
- .
- 7) Attained short-term training program on “Pilot Plant Scale up Techniques and marketting of New Pharmaceutical Products”|Sponsored by ISTE and AICTE, New Delhi and Conducted by Manipal College of Pharmaceutical Sciences, (Karnataka) During 7th Oct to 21th Oct 2002.
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