



The NGSMIPS Herald

The Official news letter of the Nitte Gulabi Shetty Memorial
Institute of Pharmaceutical Sciences, Mangalore



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VISION

To build a humane society through excellence in education and health care.

MISSION

To develop Nitte University as a centre of excellence, imparting quality education, generating competent, skilled manpower to face the scientific and social challenges with a high degree of credibility, integrity, ethical standards and social concern.

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'For Private Circulation Only'





N. Vinaya Hegde

Chancellor

Message

I am happy to know the College is bringing out a newsletter. I am sure this will be the mouthpiece to communicate with the outside world and show case the curricular and extracurricular activities of the students and faculty.

I wish the editorial team the best of luck,

N.V Hegde



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MESSAGE



Dear Dr. Shastry,

I am delighted to know that you are bringing out the first issue of the college bulletin "The NGSMIPS Herald". The NGSM Institute of Pharmaceutical Sciences is a leading institute of our country and we, in the University always look upon you as our premiere institute. We are proud of you.

I am sure, under your stewardship, the college will reach newer heights in converting our students knowledge into skill and skill into wisdom. Please keep up your strides and it is that extra mile and effort which makes a difference.

With best wishes,

Prof. (Dr.) M SHANTHARAM SHETTY
VICE CHANCELLOR,
NITTE UNIVERSITY

MESSAGE



Season's greetings and best wishes for a very happy and prosperous year 2010

The New Year has indeed started with a good note for NGSMIPS by securing excellent results in the examinations conducted by Rajiv Gandhi University of Health Sciences for both P.G and U.G in Pharmacy. Infact the last one year has been a professionally gratifying and successful one for us. Our institution has become the constituent college of the Nitte University.

In the near future our institution will be subjected to the accreditation process by NAAC of UGC and also by NBA of AICTE. I am sure we will be accredited with the highest possible grade and this brings about a quality assurance in pharmacy education as far as our institution is concerned.

Now our institution is ready to bring out a quarterly bulletin christened as "The NGSMIPS Herald". This is in addition to our regular biannual magazine *Pharmashine*. At this junction I wish to compliment and congratulate all the students, teachers and authorities who are involved in bringing out this first issue of this bulletin.

I wish the best of luck to all the students and my colleagues to face courageously the new challenges and grab the available opportunities to make the year 2010 a remarkable and successful one.

Dr.D.Satyanarayana
Director of P.G Studies and Research

From the Editor's desk



Friends,

At the outset, I wish you very happy and prosperous new year.

Since I joined NGSMIPS in November 2009, I am closely associated with the planning and execution of developmental work not only in NGSMIPS, but also in other institutions under Nitte University. The most important aspect that I noticed is the meticulousness with which the tasks were executed and documented in these institutions.

More than 25 educational institutions are under Nitte education trust, which was established in the year 1979 by great legal luminary Shri Justice K.S.Hegde. In the year 2008, Nitte University was established which has now grown into a centre of excellence under the dynamic leadership of Chancellor Sri Vinaya Hegde, Vice Chancellor Dr. Shantaram Shetty and other trustees.

NGSMIPS, one of the leading institutions in the country offers diploma to doctoral courses in pharmacy. It is offering M.Pharm. course in Pharmaceutics, Pharmacology and Pharmaceutical chemistry and is planning to introduce Pharm. D. course and additional branches in M.Pharm. during the academic year 2010-11.

Being a constituent unit of Nitte University, we have more flexibility to introduce courses which are very essential in the present industrial scenario. We intend to address the shortcomings of the present syllabi by introducing add on courses in consultation with stalwarts of Indian pharmaceutical industry and academics.

I am sure, the editorial team of "The NGSM Herald" will bring out more interesting topics concerning health sciences in its future issues. I request all its readers to send their critical comments so that we can achieve excellence. You may please contact us through e mail at :ngsmips@nitte.ac.in

With regards
C.S.Shastry

"The purpose of medicine is to prevent significant disease, to decrease pain and to postpone death... Technology has to support these goals-if not, it may even be counterproductive."

Dr. Joel J. Nobel

Campus Buzz

We have a new Principal

Dr. C.S Shastry took over the reins from Dr. E.V.S Subrahmanyam as the new principal of N.G.S.M Institute of Pharmaceutical Sciences, Paneer on October 23, 2009.

New Student Council for NGSMIPS

The student council inauguration of 2009 – 2010 took place on 6th January 2010 at the K.S.Hegde Auditorium, Deralakatte. Dr.D.satyanarayana, Director of PG Studies presided over the function. It was also an occasion for the freshers to show off their talents with great enthusiasm.

The NGSM Institute of Pharmaceutical Sciences is proud to introduce the members of the new student Council for the academic year 2009-2010.

Various members of the Student Council are as follows

President	Mr.Dave Nisarg Naitikkumar	III B.Pharm
Vice President	Mr. Mohammed Ajmal	II D.Pharm
General Secretary	Ms.Melissa Sherrel Pereira	II B.Pharm
Cultural Secretaries	1. Mr.Jasmin Kumar Patel	III B.Pharm
	2. Ms.P.Ashwini Pai	II B.Pharm
	3. Mr.Modi Ridam Mukesh Bhai	III B.Pharm
Sports Secretaries	1. Mr.Sriram Somayaji .B	III B.Pharm
	2. Ms.Sahana Kalkura	II B.Pharm
Literary Secretaries	1. Mr.Vivek Ghate. M	II B.Pharm
	2. Ms.Patel Naishi K	III B.Pharm
Magazine Secretaries	1. Ms.Stephanie Ammanna	I B.Pharm
	2. Mr.Vivek Ghate M	II B.Pharm
	3. Ms.Annett Melissa D'Souza	III B.Pharm
	4. Ms.Aseela K Aliar	III B.Pharm
	5. Mr.Malladi R A Pradeep	III B.Pharm
Wall Magazine	1. Ms.Safana	III B.Pharm
	2. Ms.Neema Zainuddin	III B.Pharm

Guest Lectures

Mrs. Mamatha Bhandary, Student Councilor, Nitte University delivered a lecture on, "Positive Attitudes and Assertiveness" on July 7, 2009. Students of B.Pharm and M.Pharm were present.

Mr. Suraj Prasad, Senior Manager (Strategy), from Nectar Life Sciences, Chandigarh addressed the faculty and M.Pharm students on 15th July, 2009 with a lecture on, "Future of Pharmacy; Scope and Opportunities"

A very interesting lecture was delivered by Dr. T.M Pramod Kumar, Professor, J.S.S College of Mysore to our P.G students on 27th July, 2009 on the significance of selecting the right journal for publication of research findings. The lecture was entitled, "Journal Impact factor and its applications."

Clinical Research is an emerging field now in India where pharmacy graduates might aspire to build a career. In light of this, the students of Final Year B.Pharm attended a lecture given by Ms. Deepa Rai and Mr. Kapil Sharma on , "Career Guidance and Clinical Research" on December 12, 2009.

Workshops

A regional level, one day seminar on, 'Qualitative Research Methodology and Regulatory affairs' was organized by the Nitte Gulabi Shetty Memorial Institute of Pharmaceutical sciences on 8th April, 2009. The seminar was sponsored by the Nitte Education Trust, Mangalore and the resource persons who delivered their



Inauguration of the Regional Seminar by Dr. Sudhaker Nayak, Registrar of Nitte University and looked on by Dr. E. V. S. Subrahmanyam, former Principal of NGSMIPS, Dr. D. Satyanarayana, Director of PG Studies and Dr. Narayana Charyulu, Vice Principal of NGSMIPS.



Dr. N. Udupa, Principal of MCOPS, Manipal delivers the opening lecture of the workshop

presentations were, Dr. B. Kalluraya, Professor, Department of Chemistry, Mangalore University. Dr. N.Udupa, Principal, Manipal College of Pharmaceutical Sciences, Manipal; Dr. Vishalakshi, Reader, Department of Material Sciences, Mangalore University, Mangalore; Mr. Manthan Janodia, Faculty, Department of Pharmaceutical Management, Manipal College of Pharmaceutical Sciences, Manipal. This workshop was coordinated by the Department of Pharmaceutics under Dr. R. Narayana Charyulu, HOD, Mr. Prabhakara Prabhu, Assistant Professor and Mr. Harish N.M, Senior Lecturer.

The Institution also organized a two day workshop on. 'Novel Concepts in Pharmaceutical Research' on 16th and 17th July 2009. The workshop was sponsored by the Rajiv Gandhi University of Health Sciences, Bangalore and Nitte University, Mangalore and coordinated again by Dr. R. Narayana Charyulu, Mr. Prabhakara Prabhu, and Mr. Harish N.M. A number of eminent academicians and research scientists graced this occasion. The speakers were Mr. Joe Paul Philip, DGM of U.S Vitamins; Mr. Suraj Prasad, Senior Manager, Nectar Life Sciences, Chandigarh; Dr. M.K. Unnikrishnan, Additional Professor, MCOPS, Manipal; Dr. K.K. Srinivasan, Professor, MCOPS, Manipal; Dr. P.N. Sanjay Pai, Professor, Al-Ameen College of Pharmacy, Bangalore and Dr. Sarasija Suresh, Professor, Al-Ameen College of Pharmacy, Bangalore. Prizes were distributed for the best research papers in the poster session.



Release of the Abstracts of the National Level Technical Symposium by Dr. Arunachalam Kumar, Dean, KSHEMA, Deralakatte.



Dr. M.K. Unnikrishnan speaking at the Scientific Session.



Poster Session of the Symposium.



Dr. K. Ishwar Bhat, HOD of Dept. of Pharmaceutical Chemistry hands over a souvenir to Dr. Sanjay Pai.

NGSMIPS host to the RGUHS Mysore Zone Throwball and Tennikoit Tournament for Women

The Institution was proud to play host to the various teams that arrived here to take part in the Rajiv Gandhi University of Health Sciences, Mysore Zone Throwball and Tennikoit Tournament for women on 2nd – 3rd December 2009. The Tournament was inaugurated by Dr.Rajendra Prasad, Dean of A.B Shetty Dental College, Deralakatte. The team from Father Muller’s College of Nursing, Mangalore bagged the First Place and the team from SDM College of Naturopathy and Yogic Sciences, Ujire, won the Second Place. In the Tennikoit Tournament the team from SDM College of Naturopathy and Yogic Sciences, Ujire, won the First Place with the team from SDM Ayurveda College, Hassan was the runners up.

Sports Day

The Sports Day was held on 8th January 2010 at Mangala Stadium, Mangalore. The sports meet was declared open by Dr.R.Narayana Charyulu, Vice Principal & HOD of Pharmaceutics, NGSMIPS, Paneer, Deralakatte. A number of events were planned for the day in which most students participated with true sportsmanship.

NGSMIPS Students shine at the Inter Pharmacy Sports Meet

The college team won the First place in the Volleyball competition (boys) and Throwball competition (girls) at the Inter Pharmacy Sports Meet 2009-10 held at Srinivas College of Pharmacy on Nov. 26, 2009. They also won the First place in Carrom (Singles) and Second place in Table Tennis (Singles).

New Appointments

Ms. Divya Jyothi, *M.Pharm* was appointed as Junior Lecturer in the Department of Pharmacognosy. She also happens to be an alumnus of this institution.

Mr. Abhishek Kumar, *M.Pharm* was appointed Junior Lecturer in the Department of Pharmaceutical Chemistry

Promotions

Dr. Jennifer Fernandes from the Dept. of Pharmaceutical Chemistry and Dr. Chandrashekar K.S from the Dept. of Pharmacognosy were promoted to Professors. Dr. Jane Jacob, Dept. of Pharmaceutical Chemistry and Mrs. Marina Koland, Dept. of Pharmaceutics were promoted to Associate Professors from September 2009 onwards.

ALISKIREN: New Drug Evaluation

ARPIT SHAH
M.PHARM

Introduction :

Aliskiren was co-developed by the Swiss pharmaceutical companies Novartis and Speedel. It was approved by the U.S. Food and Drug Administration in 2007 for the treatment of primary hypertension.

About the drug

Aliskiren is an orally active renin inhibitor licensed for the treatment of essential hypertension. In short-term studies, it was effective in lowering blood pressure either alone or in combination with valsartan and hydrochlorothiazide and had a low incidence of serious adverse effect.

What is it ???

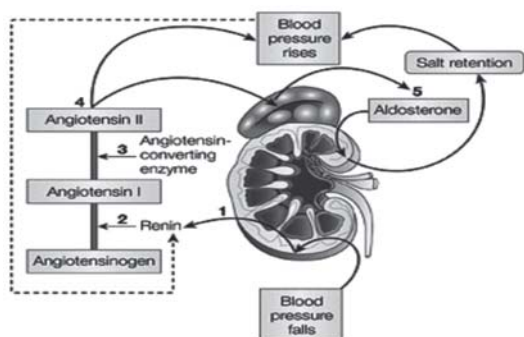
As said before aliskiren is licensed for the treatment of essential hypertension.

It inhibits plasma renin activity directly, thereby reducing generation of angiotensin II.

The recommended dose is 150mg once daily, which may be increased to 300mg daily if blood pressure remains uncontrolled.

How does it act ??

Fig:1



- Renin is the first enzyme in the renin-angiotensin-aldosterone system which plays a role in blood pressure control.
- Renin cleaves angiotensinogen to angiotensin I, which is in turn converted by (ACE) to angiotensin II. Angiotensin has both direct and indirect effects on blood pressure.
- It directly causes arterial smooth muscle to contract, leading to vasoconstriction and with it an increase in blood pressure.
- Angiotensin also stimulates the production of aldosterone, which causes the tubules of the kidneys to increase re-uptake of sodium and water, increasing plasma volume and blood pressure.

- Aliskiren binds to the S3^{bp} binding pocket of renin, essential for its activity. Binding to this pocket prevents the conversion of angiotensinogen to angiotensin I.

Rationale for design

Many drugs control blood pressure by interfering with angiotensin or aldosterone. However, when these drugs are used chronically, the body increases renin production, which drives blood pressure up again.

Therefore, doctors have been looking for a drug to inhibit renin directly. Aliskiren is the first drug to do so.

Agents acting on the renin angiotensin system

1. Drugs such as, ACE inhibitors like captopril, enalapril, lisinopril, ramipril, delapril, etc.
2. ARB’s(angiotensin receptor blockers) like candesartan, losartan, olmesartan, telmisartan, valsartan etc.
3. Renin inhibitors like aliskiren and remikiren.

How safe is it ?

Aliskiren is well tolerated, with low discontinuation rates, in the study population.

Low incidence of hyperkalaemia, but in combination with valsartan hyperkalaemia is more frequent (about 4%).

Diarrhoea was the only adverse effect occurring significantly more frequently with aliskiren than placebo, and this was only in a subgroup in clinical trial receiving 600mg aliskiren.

Angioedema has been reported rarely.

Contraindication:

Aliskiren is contraindicated in pregnancy and should not be used with women of childbearing age.

When should it be used ?

At present there is no convincing evidence to support the choice of aliskiren above other, more established agents.

It has not been studied in combination with a number of these established agents, and its efficacy in severe hypertension is unknown.

Many hypertensive patients require more than one agent to control BP, and aliskiren may have a role as an add-on therapy in those with uncontrolled hypertension using traditional treatment algorithms.

References

1. Novartis Pharmaceuticals UK Ltd. Summary of product characteristics - Rasilez® (Aliskiren) www.emc.medicines.org.uk September 2007 (last accessed 04/02/08)
2. Oh, BH et al. Aliskiren, an oral renin inhibitor, provides dose dependent anti-hypertensive efficacy and sustained 24-hour blood pressure control in patients with hypertension. Journal of the Am Coll Cardiol 2007; 49:1157-63 (RCT)
3. Stanton A et al. Blood pressure lowering in essential hypertension with an oral renin inhibitor, aliskiren. Hypertension 2003; 42:1137-43 (RCT)

DEPARTMENT ACHIEVEMENTS

DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

Research Publications

DR. D. SATYANARAYANA

1. Compiled Update on the Root's of *Syzygium cuminii* (L) Skeel; *Research J. Pharm. And Tech.* 2(1): Jan-Mar. 2009; Page 138-140.
2. Synthesis and Antibacterial Activity of a New Series of 3-[3- (Substituted henyl)-1-Isonicotinyl-1H-Pyrazol-5-yl]-2H-Chromen-2-one Derivatives, *Arch.Pharm.Chem. Life Sci.*2009,342, 361-366..
3. Phytochemistry and Pharmacology of Indian Medicinal Plant *Zizyphus Mauritiana Lamk*; *Research J. Pharmacognosy and Phytochemistry* 2009; 1(1) : 5-10 **REVIEW ARTICLE.**
4. Anti-inflammatory activity of *alstonia scholaris* Root Bark., *Int. J. Pharmacol. Biol. Sci.* Vol. 3 (2) 2009, 115-117.
5. Anti-inflammatory activity of *Annona squamosa* Linn. *Biomedical & Pharmacology Journal*, Vol. 2(1), 17-20(2009).
6. Synthesis and Antimycobacterial activity of a Novel Series of Isonicotinylhydrazide Derivatives. *Arch. Pharm. Chem. Life Sci.*, 2009, 342,723-731

DR. K. ISHWAR BHAT

1. Synthesis, Characterisation and biological evaluation of some 1,3,5 – trisubstituted 2-pyrazolines. *Asian Journal of Chemistry*, Vol 21, No 5 (2009), 3376 – 3380.
2. Synthesis, Characterization and Antimicrobial studies of some substituted Pyrozolines from Aryloxy Acetyl Hydrazine. *Asian Journal of Chemistry*, Vol 21, No. 5 (2009), 3371 -3375.
3. Synthesis and Antimicrobial activity of some oxadiazole derivatives containing Quinoline moiety. *Journal of Pharmacy and Chemistry*. Vol . 3 (2009), 19 – 22.
4. Synthesis and Biological activity of some Aminobenzylated Mannich bases of benzaldehyde. *Asian Journal of Chemistry*. Vol 21, No. 6 (2009), 4960 – 4962.
5. Synthesis and Biological activity studies of some pyrazoline derivative containing quinoline moiety. *J.Ind.Council Chemists*, Vol.26 (2009), 1- 4.
6. Synthesis and Antimicrobial Activity of some new 2,5-Disubstituted 1,3,4-Thiadiazoles. *Journal of Chemical and Pharmaceutical Sciences*, Vol. 2, (2009), 141-145.
7. Synthesis and in-vitro study of novel aminobenzylated mannich bases as antibacterial agents. *J.Ind.Council Chemists* Vol. 26, No.1 (2009), 90-93
8. Quantitative spectrophotometric determination of sulphacetamide sodium in bulk and in pharmaceutical dosage form. *Journal of Pharmacy Research* Vol 3. Issue1 (2010), 47-48

DR. JENNIFER FERNANDES

1. Hypoglycemic and antihyperglycemic activity of methanolic root extract of *Ficus Racemosa* in normal and streptozocin induced diabetic Rats. *Pharmacologyonline*2:656-666(2009) (ISSN No-1827-8620)
2. Wound Healing Activity of *Calotropis gigantea* Root Bark in Rats. *Journal of Ethnopharmacology*, 125(2009) 178 181 (ISSN No 0378-8741)
3. Analgesic and anti-inflammatory activities of the hydroalcoholic extract from *Gloriosa superba* Linn. *International Journal of Green Pharmacy* Vol 3, Issue 3, July –Sept 2009
4. Pharmacological evaluation of ethanolic extract of flowers of *Tagetes erecta* on epilepsy, *Journal of Pharmacy Research*, 2009, 2(6), 1035-1038
5. Anti inflammatory activity ethanolic extract of root bark of *Caesalipina sappan* Research *Journal of Pharmaceutical Technology* 3(10):Jan-Mar.2010.

MR. REVANASIDDAPPA B.C.

1. Synthesis and biological studies of substituted triazinothiadiazoles. *Int J Chem Sci.* 2009; 7(1): 468-74.
2. Synthesis and biological studies of some novel schiff bases and hydrazones derived from 8-hydroxy quinoline moiety. *Int J Chem Tech Research* 2009; 1(4):1100-04.
3. Synthesis and biological studies of some novel thiazolidinones. *J Pharm Research* 2009; 8(3): 122-24.
4. Synthesis and biological evaluation of 2-aryl-5(8-quinolonoxymethyl) 1,3,4-oxadiazoles. *Ind J Het Chem* 2009; 18(2): 403-04.
5. Chloramine –T mediated synthesis of 1, 3, 4-oxadiazoles. *Oriental J Chem.*2009; 25(3); 707-10.
6. Synthesis and biological studies of some novel 2- azetidionones. *Int J Chem Tech Research* 2010; 2(1):129-32.
7. Synthesis and biological evaluation of some novel 1, 3, 5-trisubstituted Pyrazolines. *E-Journal of Chem* 2010;7(1): 235-39.

MR. HIMANSHU JOSHI

1. Anti-inflammatory Potential of *Memecylon Umbellatum* Root Extract. *International Journal of Pharmacological Biological Science*, 2009, Vol. III, 11-15.
2. Nephroprotective activity of *Memecylon umbellatum* (Burm) roots. *Herbal Heritage*, 2009, Vol. II:65-69.

PAPERS PRESENTED AT CONFERENCES/ WORKSHOPS ATTENDED

Dr. K. Ishwar Bhat presented a research paper “Synthesis, Characterization and biological activity studies of 1,3,4 – Oxadiazoles” in the 28th Annual Conference of *Indian Council of Chemists* held at Hemachandracharya North Gujarat University, Patan from 7th – 10th November 2009.

Dr. Jennifer Fernandes, Dr. Jane T Jacob & Mrs. Prerana Shetty attended a three-day workshop on ‘Cheminformatics and Approaches to Drug design’ conducted by VIT University, Vellore. December 11-13, 2009

Mr. Revana Sidappa presented the following papers at conferences: Presented poster presentation held at Sahyadri college, Shimoga on 11th March, 2009, in the one day UGC sponsored national conference on Nanochemistry-A Science of Diminished Dimensions on the topic—“Synthesis and biological evaluation of some novel 1,3,5-trisubstituted Pyrazolines”. Presented poster presentation held at Jodhpur (Rajasthan) on 3rd-4th Oct 2009, in the 14th annual national convention of Association of Pharmaceutical Teachers of India, on the topic-“Formazans- A novel series of potential biological agents”.

Presented orally a paper under Pharmaceutical Chemistry section entitled “Synthesis and biological evaluation of some novel 1, 3, 5-trisubstituted Pyrazolines”. in the 28th annual conference of INDIAN COUNCIL OF CHEMISTS held at Hemachandraya North Gujrath University, Patan (Gujrath) from Nov 7th-10th 2009.

Mrs. Prerana Shetty presented a paper on, “Toxicity studies of alcoholic extract of *Saraca Indica* on Swiss albino mice and rats” at the 5th Kannada Vijnana Sammelana, Karnataka Science Congress, at Mangalore University, Sept. 2009 .

She attended a workshop on. “Study designs for evaluation of drugs acting on CNS in animals”, on 29th Aug 2009 conducted by the Department of Pharmacology, KMC Mangalore.

STUDENT ACHIEVEMENTS

The following PG students presented papers at various conferences:

1. **Ms.Elizabeth George Poozhikanadake** attended a 3rd Indian Association of Pharmaceutical Scientists and technologists (IAPST) Annual National Convention 2009 held at Manipal on November 15th 2009 with the theme of “Coordination and cooperation among Indian Pharma-researchers : A sparking ignition to make India a Global Pharma-leader of tomorrow”.
2. **Ms.Elizabeth George Poozhikanadake** presented a poster at the 61st IPC with the topic “Evaluation of certain physicochemical properties of some newly synthesized 4- Thiazolodinones” at the 61st Indian Pharmaceutical Congress held at Ahmedabad from December 11th to 13th 2009 with the theme of Pharma Vision -2009 : Building Trust in safety and efficacy of Medicines”.
3. **Ms.Suman** presented a paper entitled “ Analgesic and anti-inflammatory activity of root bark of *caressa apinarum*” at the 61st Indian Pharmaceutical Congress held at Ahmedabad on December 12, 2009.
4. **Mr.Manoj Kumar Singh** Chauhan presented a paper entitled “Synthesis, characterization and biological activity studies of some benzodiazepine and isooxazoline derivatives” at the 61st Indian Pharmaceutical Congress held at Ahmedabad on December 13, 2009

DEPARTMENT OF PHARMACEUTICS

Research Publications

DR. R. NARAYANA CHARYULU

1. Formulation and *in vitro* evaluation of *in situ* gels containing secnidazole for vaginitis. *Yakugaku Zasshi.*, 129(5); 2009:569-574.
2. Sustained Release of Metoprolol Tartarate from radiation-grafted pH-responsive hydrogels. *International Journal of Polymeric Materials.*, 48(1); 2009: 32-48.
3. Formulation and *in-vitro* evaluation of Chitosan films containing tetracycline for the treatment of periodontitis. *Asian journal of Pharmaceutics*, 3(2); April-June 2009:113-Development and characterization of Chitosan films containing ciprofloxacin for Periodontitis. *Int. J. Chem. Sci.*: 7(2), 2009, 1403-1411.
4. Formulation of chitosan-based ciprofloxacin and diclofenac film for periodontitis therapy. *Trop J Pharm. Res, February* 8(1); 2009: 33-41.

Department Achievements

MRS. MARINA KOLAND

1. The Design and Characterization of Sublingual Films of Ondansetron Hydrochloride. *International Journal of Chemical Sciences*: 7(4), 2009, 2927-2938.

MR. PRABHAKARA PRABHU

1. Synthesis and Investigation of Colon specific Polymeric prodrug of Ibuprofen with Cyclodextrin. *Asian Journal of Chemistry*, Vol.21, No.9(2009),6689 – 6694.
2. Synthesis and investigation of colon specific polymeric prodrug of Budesonide with cyclodextrin. *Indian J Pharm Educ Res*.Vol.43(3); 2009:295-299.
3. Formulation and *in vitro* evaluation of sustained release tablets of domperidone. *Research J Pharm and Tech* 2(2); April-June 2009: 358-362.
4. Development of a gellan gum based mucoadhesive *in situ* gels for buccal local delivery system of fluconazole. *Int J Chem Sci* 7(1), 2009, 315-326.

MR. HARISH.N.M

1. Formulation and Evaluation of *in situ* gels containing Clotrimazole for oral Candidiasis. *Ind J Pharm Sci*; 2009: July-August, Volume 71, Issue 4, 421-427.
2. Improved Bioavailability of Pefloxacin using controlled release ocular inserts. *Int J Pharm Pharm Sci*; 1(1); 2009: 71-78.
3. Development of a gellan gum based mucoadhesive *in situ* gels for buccal local delivery system of fluconazole. *Int J Chem Sci*;7(1), 2009, 315-326.

MR. GURURAJA P.M

1. Anthelmintic activity of *Tectona grandis* Linn leaves. *Herbal Heritage*, 2009, Vol. II: 97-99.
2. Attenuation of carbon tetrachloride induced Hepatotoxicity by Cow Urine distillate in rats. *Biomedical and environmental Sciences*, 2009, 22,345-347.

PAPERS PRESENTED AT CONFERENCES/ WORKSHOPS ATTENDED

Dr. R. Narayana Charyulu was invited as the Chair-Person of the scientific session at the International Conference on Drug Delivery at the P.S.G College Of Pharmacy, Coimbatore on January 29th and 30th, 2010.

Mrs. Marina Koland presented the following papers at conferences:

- “Design and evaluation of mucoadhesive microspheres of tizanidine hydrochloride for nasal delivery”. Poster presentation at the 14th Annual National Convention of Association of Pharmaceutical Teachers of India, October 2009, Jodhpur, Rajasthan.
- “Mucoadhesive microspheres of famotidine for gastro retentive drug delivery”. Poster presentation at the International Conference on Drug Delivery conducted by the P.S.G College of Pharmacy, Coimbatore on January 29th and 30th, 2010.

Mrs. Marina Koland and Mrs. Nisha Girish Shetty attended a two day workshop on “Challenges in Dissolution Testing in the 21st Century”, organized by the Indian Pharmaceutical Association, Regulatory Affairs Division, Karnataka State Branch in association with the American Association of Pharmaceutical Scientists at the Atria Hotel, Bangalore on the 15th and 16th May 2009.

Mr. Prabhakara Prabhu presented the following papers at conferences:

- Presented a paper entitled “Preparation and Evaluation of Niosomes of Brimonidine Tartrate as an Ocular Drug Delivery System” at 14th Annual National convention of Association of pharmaceutical teachers of India held from on October 3rd and 4th, 2009 at Jodhpur, Rajasthan.
- Presented an Oral presentation on “Investigation and Comparison of effectiveness of novel polymer khaya gum with guar gum for drug targeting to colon” at FIP Congress, Istanbul, Turkey, in the Industrial Pharmacy Session. The Presentation was elected by an International jury to compete for the Best Industrial Pharmacy Contribution -2009.

Mr. Sreedharan Nair attended a seminar cum workshop on, ‘Cultivation of Bio-diesel Plants, Energy Security, Waste Land Management and Mitigation of Climate Change’, organized by the Mangalore University in association with the Ministry of Environment & Forest, Government of India on 31 March, 2009.

Mrs. Nisha Girish Shetty attended the International Conference on Drug Delivery organized by the P.S.G College of Pharmacy, Coimbatore on 29th and 30th January, 2010

Mr. Harish N.M presented the following papers:

- Presented a paper entitled “Mucoadhesive, Cyclodextrin based topical *in situ* gels of Itraconazole” at the 14th Annual National convention of the Association of pharmaceutical teachers of India held on October 3rd and 4th, 2009 at Jodhpur, Rajasthan.
- Presented a paper entitled “*In Vitro* release of Clotrimazole from *In Situ* Gels aimed at Local Drug Delivery” at 69th International Congress of FIP 3 - 8 September, 2009 at Istanbul, Turkey.

RESEARCH GRANT

The Rajiv Gandhi University of Health Sciences, Bangalore, Karnataka, sanctioned **Mr. Prabhakara Prabhu** a Research Grant of Rs. 30,000/ in the year 2009, towards the project entitled “Investigation of Colon specificity of Polysaccharides in Pro drug synthesis and Formulations”

STUDENT ACHIEVEMENTS

The following PG students presented papers at various conferences:

Ms. Anju Thomas presented a paper as poster entitled, “Formulation and Evaluation of Buccal Patches Buccal Patches of Tramadol Hydrochloride” at the International Conference on Drug Delivery conducted by the P.S.G College Of Pharmacy, Coimbatore on January 29th and 30th, 2010.

Ms. Teresa George Poozhikanadake delivered an oral presentation of her research paper entitled, “Design and *in vitro* evaluation of Pentoxifylline polyelectrolyte complexes”

Ms. Anitha Thomas presented a paper as poster on ‘Computer Aided Drug Designing’ at the 61st Indian Pharmaceutical Congress held at Ahmedabad on December 12, 2009.

DEPARTMENT OF PHARMACOGNOSY

Research Publications

DR.CHANDRASHEKAR K.S

1. Anti-inflammatory activity of *Bauhinia purpuria* stem bark extracts against carrageenan induced rat paw edema. *Herbal Heritage*, 2009, Vol.I:42:45.
2. Analgesic activity of *Bauhinia purpuria* Linn. *Herbal Heritage*, 2009, Vol. II: 94-96.
3. Hypoglycaemic effect of *Leucas lavandulaefolia* Wild in Alloxan induced Diabetic rats. *Journal of Young Pharmacists*, 2009, Vol. I, No.4:336-339.
4. Antimicrobial activity of *Anthocephalus cadamba* Linn. *Journal of Chemical and Pharmaceutical Research*, 2009, Vol.I(1), 268-270.
5. α -amyrin caprylate - A new triterpene isolated from the leaf of *Bauhinia purpurea* Linn. *Asian Journal of Research Chemistry*, 2009, 2(4),569-570.

Paper Presentation

Dr. Chandrashekar K.S presented a paper in oral presentation entitled, “Phytochemical and pharmacological investigation of *Bauhinia purpuria*” 28th India Council of Chemist Conference, November 7-10, 2009, Patan.

DEPARTMENT OF PHARMACOLOGY

Research Publications

DR.PRASHANTH SHETTY

1. Regioselective reaction: Synthesis and pharmacological study of Mannich bases containing ibuprofen moiety. *European Journal of Medicinal Chemistry*, available online 14th April 2009.
2. Regioselective reaction : Synthesis, characterization and pharmacological studies of some new mannich bases derived from 1,2,4 –triazoles. *European Journal of Med. Chemistry*. In press, online available 5th May 2009.

MR. ULHAS PRAKASH D'SOUZA

1. Antimicrobial activity of *Anthocephalus cadamba* Miq. *Herbal Heritage*, 2009, Vol. III: 146-147.

MR. PRASANNA SHAMA

1. Evaluation of hepatoprotective activity of *Bauhinia purpurea* linn Flower extract. *Herbal Heritage*, 2009, Vol. III: 113-119.

STUDENT ACHIEVEMENTS

Mr.Ravi Kumar J, participated and presented a poster entitled, “*Effect of combination of quetiapine with carbamazepine and fluvoxamine on liver function using rats*” in International conference on *Current Status and Future Perspective in Pharma Sciences* organized by PES College, Bangalore, 19th – 21st November 2009.

He also presented a poster having title “*Effect of combination of Quetiapine in combination with carbamazepine, phenobarbitone Fluoxetine & Fluvoxamine on liver function using rats*”, in the International Conference on Integrative and Personalized Medicine at the 42nd Annual Conference of the Indian Pharmacological Society at Kolkatta, 10th – 12th December, 2009.

Ms. Padmashree presented the following papers at conferences:

- “*In vitro* Evaluation of Anticataract activity of a Lipophilic analogue of Vitamin B₁”. Poster was presented at the National Conference on “*Medical biotechnology and Clinical research*” held at JN Tata Auditorium, IISC Campus, Bangalore on 2nd and 3rd Oct 2009.
- “Evaluation of anti oxidant activity of the latex of *Artocarpus heterophyllus lam*” as poster during the 3rd Indian Association of Pharmaceutical Scientists & Technologists (IAPST) Annual National Convention, 2009 at Manipal on November 15, 2009
- “Effect of benfotiamine on sugar induced cataract *in vivo* nd *in vitro*” as poster at the 61st Indian Pharmaceutical Congress-2009 held at Nirma University, Ahmedabad on 12th December.

Congratulations to the Toppers!



Aisha
I D Pharm



Iyer Kartik Suresh
II D Pharm



Melissa Sherrel Pereira
I B Pharm



Jashitha
II B Pharm



Sharal Janice Rodrigues
III B Pharm



M. Anil Karthik
IV B Pharm



Mr. Harish N. M at the 69th International Congress of FIP, Istanbul, Turkey, September, 2009



Mr. Prabhakara Prabhu, Assistant Professor giving an oral presentation at the 69th International Congress of FIP, Istanbul, Turkey, September, 2009

Scholarship



Ravi Kumar
II M Pharm,
Pharmacology

The Trustee of the Sir Ratan Tata Trust has awarded Mr.Ravi Kumar J (Department of Pharmacology) a scholarship (Covering tuition fees for the academic year 2009 -2010) of Rs.50,000/- under the trust's scholarship in India programme. By Sir Ratan Tata Trust, Mumbai – 400001.

The Rajiv Gandhi University of Health Sciences, Mysore Zone Throwball and Tennikoit Tournament at NGSMIPS



Student Council Inauguration



Sports Day



Book Post