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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Messages 2
Campus Buzz 3
Aliskiren-New Drug evaluation 4
Department Achievements 5
Congratulations to the Toppers 7
Student Council Inauguration & Sports Day 8

‘For Private Circulation Only’
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

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

Dr. Joel J. Nobel
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. satyanaryanaya, 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

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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”

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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 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, HOD, 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.

Campus News

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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 S39th 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 (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 hypokalaemia, 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)
DEPARTMENT ACHIEVEMENTS

DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

Research Publications

DR. D. SATYANARAYANA

3. Phytochemistry and Pharmacology of Indian Medicinal Plant Zizyphus Mauritiana Lamk; Research J. Pharmacognosy and Phytochemistry 2009; 1(1) : 5-10 REVIEW ARTICLE.

DR. K. ISHWAR BHAT


DR. JENNIFER FERNANDES


MR. REVANASIDDAPPA B.C.


MR. HIMANSHU JOSHI


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 Hemachandraacharya 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: Presentered 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 Hemachandra North Gujarat University, Patan (Gujrat) 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 Pouzhiyinadanadkal 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 Pouzhiyinadanadkal presented a poster at the 61st IPC with the topic “Evaluation of certain physicochemical properties of some newly synthesized 4-Thiazolidinodines” 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”.


4. Mr. Manoj Kumar Singh Chauhan presented a paper entitled “Synthesis, characterization and biological activity studies of some benznidazepine and isoxazoline 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 scenedizole for vaginitis. Yakugaku Zasshi., 129(5); 2009:569-574.
MRS. MARINA KOLAND
1. The Design and Characterization of SUBLingual Films of Ondansetro

MR. PRABHAKARA PRABHU
1. Synthesis and Investigation of Colon specific Polymeric prudug of
2. Synthesis and investigation of colon specific polymeric prudug of
3. Formulation and in *vitro* evaluation of sustained release tablets of
4. Development of a gellan gum based mucocadhesive in situ gels for buccal

MR. HARISH.N.M
1. Formulation and Evaluation of *in situ* gels containing Clotrimazole for
2. Improved Bioavailability of Peflloxacin using controlled release ocular
inserts. *Int J Pharm Sci*: 1(1); 2009: 71-78.
3. Development of a gellan gum based mucocadhesive in situ gels for buccal

MR. GURURAJA P.M
1. Anthelmintic activity of Tectona grandis Linn leaves. *Herbal Heritage*,
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
Brimonodine 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
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, Cycloexdrin 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
Polyaccharides 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 Poozhikanadakel 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 PHARMACOLOGY
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,
2. Analgesic activity of Bauhinia purpuria Linn. *Herbal Heritage*, 2009,
3. Hypoglycaemic effect of Leucas lavandulafolia Wild in Alloxan induced
4. Antimicrobial activity of Anthocephalus cadamba Linn. *Journal of
5. â-amyrin caprylate - A new triterpene isolated from the leaf of Bauhinia

**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

MR. ULHAS PRAKASH D’SOUZA
1. Antimicrobial activity of Anthocephalus cadamba Miq. *Herbal Heritage*,

MR. PRASANNATHISHMA
1. Evaluation of hepatoprotective activity of Bauhinia purpurea linn Flower

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 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 a 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.
Congratulations to the Toppers!

Aisha
I D Pharm

Iyer Kartik Suresh
II D Pharm

Melissa Sherrel Pereira
I B Pharm

Jashttha
II B Pharm

Sharal Janice Rodrigues
III B Pharm

M. Anil Karthik
IV B Pharm

Scholarship

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.

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

Ravi Kumar
II M Pharm, Pharmacology

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