

## Curriculum Vitae of N.S. Nagarajan



### 1. Present position

Professor & Head, Department of Chemistry &  
Dean, Faculty of Rural Oriented Sciences

### 2. Educational Qualifications

M.Sc., Ph. D

### 3. Special training undergone

Undergone training in rural development in NIRD, Hyderabad

### 4. Teaching and Research Experience

35 years of UG & 27 years of PG teaching experience  
30 years of research experience in Chemistry of Natural Products

### 5. New courses / programmes Evolved / Organised

Evolved along with other faculty members a two year M.Sc (Chemistry) –  
Non-semester ( Week end ) course  
Evolved a one year Post Graduate Diploma programme in “ Herbal Processing,  
Drug design & Development” – Approved by the authorities of GRI

### 6. Laboratories / Department established

Renovated UG & PG laboratories of the Department of Chemistry as Head of the  
department of Chemistry with financial assistance from DST-FIST and SAP-UGC

### 7. Involvement in Institute Development

Served / serving in the Institute as

N.S.S. Programme Officer for 4 years

Programme Co-ordinator for N.S.S for 2 years

Resident Warden for 3 years

Coordinator for Coaching Centre for Tamilnadu Professional Courses Entrance  
Examinations (CCPEE) for 3 years

Contoller of Examinations for 3 years

Head of the department of Chemistry for 3 years (2001 – 2004) and from  
Feb 2007 till date

Member of Academic Council since 1986

Member of Senate since 2008

Dean of the Faculty of Rural Oriented Sciences since 2008

Chairman for Council for Self Supporting Programmes for 1 year

Co-ordinator for M.Sc (Chemistry) – Non-semester (week end ) course  
for 7 years

Coordinator for M.Phil (Chemistry) programme since 2007

Coordinator for Steering Committee for NAAC Re-accreditation  
Coordinator for Choice Based Credit system for 6 years

8. Research Guidance  
Has 30 years of research guidance in Chemistry of Natural Products - both phytochemical and pharmacological examination aspects of medicinal plants
9. Research projects undertaken  
Has completed two research projects in the area of chemical and biological aspects of medicinal plants , one from the un assigned grants of UGC and the other from L RAMP

## 10 List of publications

1. Studies on the antihyperlipidemic properties of *Averrhoa bilimbi* fruit in rats  
S. Ambili, A. Subramoniam, **N.S. Nagarajan** , Journal of Planta Med., 75 (2009) 55.
2. Antilithiatic activity of leaves of *Dalbergia rubiginosa* (Roxb), N.S.  
Nagarajan, V.Nandagopalan, R.Senthamarai, A.J.M. Christina and A.M. Ismail  
Hamdard Medicus, 1, (2008) 227-31
3. Antioxidant activity of *Dalbergia rubiginosa* (Roxb) against ethanol induced liver Damage,N.S. Nagarajan, V.Nandagopalan, R. Senthamarai and A.M. Ismail,  
Journal of Natural Products and Medicine, 10, 2006,84
4. Two new isoflavonoids from the roots of *Dalbergia congesta*(Grah, )R.Priya Rao, Manoj C. Narayanan, Sethuraman M. Gopalakrishnan and **Nagarajan N. Shanmugam**, *Journal of Asian Natural Products Research*, 8(1-2), 2006, 143- 48
5. Dalsympathetin, a new isoflavone gentiobioside from *Dalbergia sympathetica*, N.S.Nagarajan, M.G.Sethuraman, C.N.Manoj and R.Priya Rao, *Natural Product Research*, 20(2), 2006, 195 -196
6. Antidiabetic and antihyperlipemic effects of *Cleomeo felina*, N.S. Nagarajan, N.Muruges, P.Thirupathy kumaresan, N. Radha and A. Murali, *Fitoterapia*, 76, 2005, 310 – 315
7. Piperidone derivative from *Dalbergia sympathetica*, N. Shanmugam Nagarajan, R.Priya Rao, C. Narayanan Manoj and M. Gopalakrishnan Sethuraman, *Magnetic Resonance in Chemistry*, 43, 2005, 264 – 265

- 8 Studies on anti-inflammatory activity of *Dalbergia malabarica* (Prain), N.S.Nagarajan, R.Senthamarai, A.J.M. Christna and A.M.Ismail. *Advances in Pharmacology and Toxicology*, 6(1) **2005**, 45-49
- 9 Antioxidant activity and wound healing activity of the benzene extract of *Derris benthamii*, N.S.Nagarajan, P.Gnanasoundari and P.Thirupathy kumaresan *International Journal of Chemical Sciences*, 2 (1), **2004**, 116 – 119
- 10 Antiulcer activity of *Dalbergia sissoides* (Grah), N.S.Nagarajan, D.Sukumar pandiyan and P.Thirupathy kumaresan, *Advances in Pharmacology and Toxicology*, 5(1), **2004**, 53 – 57
- 11 Complete <sup>13</sup>C and <sup>1</sup>H spectral assignments of two isoflavones from the roots of *Dalbergia horrida*, C.N.Manoj, R.PriyaRao, N.S. Nagarajan and Muralitharan Kaliyaperumal, *Magnetic Resonance in Chemistry*, **2003**, 41, 227 - 228
- 12 Flavonoid constituents of *Dalbergia sissoids*, N.S. Nagarajan and V. Narayanan, *Fitoterapia*, 5, 430, **1988**
- 13 Chemical constituents of the roots of *Dalbergia sissoids*, N.S.Nagarajan and V. Narayanan, *Fitoterapia*, 4,341,**1988**
- 14 Two isoflavone galactosides from *Dalbergia spinosa*, N.S. Nagarajan and V. Narayanan, *Phytochemistry*, 27,2364,**1988**
- 15 Dalspinin and Dalspinosin- Two new isoflavones from *Dalbergia spinosa*, N.S.Nagarajan, P.V. Raman, V,Narayanan, N. Neelakantan and R.Gandhidasan,*Indian Journal of Chemistry*, 21 B, 385,**1982**

#### LIST PAPERS PRESENTED IN CONFERENCES / SEMINARS

1. Corrosion inhibition effect of *Dalbergia sympathetica* root extract for mild steel in H<sub>2</sub>SO<sub>4</sub> medium, T. Radha and N.S.Nagarajan National Conference on Materials Science, Annamalai University, Annamalai Nagar, 9<sup>th</sup> & 10<sup>th</sup> October **2009**, PP-33
2. Isolation, characterisation and Neuropharmacological Studies of the Phytoconstituents from *Dalbergia rostrata* N.S.Nagarajan, P. Gnanasoundari, P. Thirupathy Kumaresan, N. Murugesu, ICOB-5 & ISCNP-25 IUPAC International conference on Biodiversity and Natural Products, Kyoto, Japan, July 23-28, **2006**, P-304

3. Hepatoprotective activity of olibergin-A isolated from *Dalbergia rostrata*, N.S.Nagarajan, P. Gnanasoundari and P. Thirupathy Kumaresan, National seminar on Recent advances in Chemistry, Annamalai University, Annamalai Nagar, 10<sup>th</sup> & 11<sup>th</sup> March 2006 p 4.
4. Diuretic activity of the roots extract of *Dalbergia rubiginosa*, N.S. Nagarajan, V. Nandagopalan, R. Senthamarai and A.M. Ismail, National Seminar on Recent Trends in Applied Chemistry, St. Joseph's college, Tiruchirapalli, 10<sup>th</sup> & 11<sup>th</sup> Jan 2005, p 20
5. Antifertility activity of caviunin from *Dalbergia malabarica* in male Albino rats, N.S.Nagarajan, P. Thirupathy kumaresan and P. Gnanasoundari, National Seminar on Recent Trends in Applied Chemistry, St. Joseph's college, Tiruchirapalli, 10<sup>th</sup> & 11<sup>th</sup> Jan 2005, p 25
6. Anti-inflammatory activity of alcoholic extract of dried flowers of *Radermachera xylocarpa*, P. Thirupathy kumaresan, N.S. Nagarajan, P.Gnanasoundari and N. Muruges, National Seminar on Cheminformatics & Drug a design, Fatima college, Madurai, 29<sup>th</sup> & 30<sup>th</sup> September 2005, p. 14
7. Antipyretic activity of 5,7-dihydroxy,2'3'5'6'-tetramethoxy isoflavone from the alcoholic extract of *Dalbergia malabarica* leaves, N.S. Nagarajan, P. Gnanasoundari and P. Thirupathy kumaresan, National Seminar on Cheminformatics & Drug design, Fatima college, Madurai, 29<sup>th</sup> & 30<sup>th</sup> September 2005, p. 13
8. Hepatoprotective activity of flavonoids from the flowers of *Carteava maralinga*, N.S. Nagarajan, P.Gnanasoundari, P.Thirupathy kumaresan, K. Uma Alwar and A. Dhanraj National Seminar on Cheminformatics & Drug design, Fatima college, Madurai, 29<sup>th</sup> & 30<sup>th</sup> September 2005, p. 55
9. Antidespair activity of *Dolichandrone ursata*, N.S. Nagarajan, P. Thirupathy kumaresan, N. Muruges, National Seminar on Recent Trends in Isolation, Characterization, Synthesis and Biological Studies of Organic Compounds, Gandhigram Rural Institute, Gandhigram, 5<sup>th</sup> & 6<sup>th</sup> March 2004, p. 26.
10. Studies on the antihyperlipimic property of *Averrhoa bilimbi* (Linn) in the high fat diet fed rats, S. Ambili, A. Subramoniam & N.S. Nagarajan,

National Seminar on Recent Trends in Isolation, Characterization ,  
Synthesis and Biological Studies of Organic Compounds, Gandhigram  
Rural Institute, Gandhigram, 5<sup>th</sup> & 6<sup>th</sup> March 2004, p.65

11. Modulating effect of *Dalbergia rubiginosa* against ethanol induced liver damage, N.S.Nagarajan, V. Nandagopalan, A.J.M. Christiana and R. Senthamarai, National Seminar on Recent Trends in Isolation, Characterization, Synthesis and Biological Studies of Organic Compounds, Gandhigram Rural Institute, Gandhigram, 5<sup>th</sup> & 6<sup>th</sup> March 2004, p. 64
  12. Antilithiatic effect of *Dalbergia rubiginosa*, N.S. Nagarajan, V. Nandagopalan, A.J.M. Christiana and R. Senthamarai, National Seminar on Recent Trends in Isolation, Characterization, Synthesis and Biological Studies of Organic Compounds, Gandhigram Rural Institute, Gandhigram, 5<sup>th</sup> & 6<sup>th</sup> March 2004, p. 48
  13. Dalhorrinin, a new acylated isoflavone glycoside from the roots of *Dalbergia horrida*, International Federation of World Conference of Pharmacy and Pharmaceutical Sciences, Sydney, 4<sup>th</sup> - 9<sup>th</sup> September, 2003
  14. Anti oxidant activity of *Dalbergia rostrata* leaves , International Federation of World Conference of Pharmacy and Pharmaceutical Sciences, Sydney, 4<sup>th</sup> - 9<sup>th</sup> September, 2003
12. Short term Courses / Symposium / Conferences organized
- a. Workshop on “ Theory and Hands on experience on X-ray crystallographic structure determination of drugs / drug like molecules, 14<sup>th</sup> & 15<sup>th</sup> March, 2008 ( **Sponsored by ICMR, CSIR and AYUSH** )
  - b. International Conference on “ The Challenges and Strategies for the sustainability of Safe drinking Water “ 25<sup>th</sup>- 27<sup>th</sup> Oct 2006, ( **Sponsored by UNICEF, CSIR, DST** )
  - c. Workshop on “ Herbal processing , Drug design and Development, 24<sup>th</sup> & 25<sup>th</sup> March 2006 (sponsored by **Department of Science & Technology, Govt. of India**)
  - d. Workshop on” Medicinal Plants-Perspectives, Prospects and Challenges” 19<sup>th</sup> & 20<sup>th</sup> Dec 2003 ( **sponsored by Indian Council of Medical Research**)

- e. Workshop on Revisiting CBCS Guidelines, Feb 2002
- f. “Regional Symposium on “Recent Trends in Heterocyclic Chemistry”,  
24<sup>th</sup> & 25<sup>th</sup> Feb **1996** ( sponsored by **University Grants Commission** )
- g. National Seminar on” Newer visitor in Bio-active agents: 20<sup>th</sup> &21<sup>th</sup> Dec  
**1999** (Sponsored by **Tamilnadu State Council for Science & Technology**)

13. Membership in Scientific Bodies / Association

Life Member of Indian Pharmacy Association

14. Resource Person

Resource person for invited lectures in a number of National seminars /  
Conferences /Refresher courses

15. Reviewer for journals

Reviewer in Magnetic Resonance in Chemistry

16. Recognition

Nil

17. Committee Member

Member of a number of committees ( in GRI only )

18. Fellowships Received

Nil

19. Foreign Countries visited

Thailand, Singapore, Australia, Japan, and Sri Lanka

20. Administrative Experience

Controller of Examinations (3 years)

Head of the Department of Chemistry ( 2002- 2005 and since Feb 2007

Dean, Faculty of Rural Orientd sciences since August 2008

21. Others

Nil