

National Conference on Status and Prospects of

MEDICINAL PLANT RESOURCES

and Herbal Technology



July 26-28 2007

Programme and Abstracts



Organized By :

Post Graduate and Research Department of Botany
Saraswathi Narayanan College (Autonomous)
Perungudi, Madurai - 625 022. Tamilnadu.



**NATIONAL CONFERENCE ON STATUS AND
PROSPECTS OF MEDICINAL PLANT RESOURCES AND
HERBAL TECHNOLOGY
26-28 JULY, 2007
MADURAI**

**VENUE : SEMINAR HALL
SARASWATHI NARAYANAN COLLEGE**

PROGRAMME

THURSDAY 26TH JULY-2007

- 09.00 am : Registration
- 10.00 am : Inauguration
- Welcome Address : *Dr.K.K. Natarajan*
- Presidential Address : *Thiru.N. Thiagarajan*
- Inaugural Address : *Prof.Dr. S. Kannaiyan*
Chairman,
National Biodiversity Authority,
Government of India
- Felicitation : *Prof.S. Suriyanarayanan*
Principal
- 11.15 am : Tea
- 11.45 am : Keynote Address
Nanotechnology in Pharmaceutical
Sciences - Herbal Medicine
Prof.Dr. N. Narayanan
Head, Department of Pharmaceutical Sciences,
Madras Medical College, Chennai .
- 01.00 Pm : Lunch
- 01.45 pm
- Technical Session I : Seminar Hall
- Invited Lecture : Medicinal Plant Diversity
- Knowledge and use

BODIVERSITY AND ETHNOBOTANY

Paper Presentation and Discussion

1. EXOTIC PLANTS AND CONSERVATION OF NATIVE SPECIES IN THE GRASSLANDS OF NILGIRIS
S. Paulsamy, D. Suresh and M. Sivashanmugam
2. BIODIVERSITY ASSESSMENT OF ABANDONED FOREST PLANTATIONS OF KANNAVAM IN KERALA WITH SPECIAL REFERENCE TO ITS ETHANOBOTANICAL PERSPECTIVES
E.S. Abhilash, and A.R.R. Menon,
3. PREDICTION OF TIME REQUIREMENT FOR THE NATURAL RECLAMATION OF SOIL IN LIME MINED HABITAT
M. Jayakumar, S. Manorama and S. Paulsamy
4. RESTORATION OF VEGETATION THROUGH THE SEEDING OF NATIVE MEDICINAL PLANTS IN A LIME MINED WASTELAND, COIMBATORE
S. Manorama, D. Suresh, S. Paulsamy and R. Anitha
5. CONSERVING FLORAL DIVERSITY OF SADURAGIRI HILLS
S.P. Anandan, R. Arivukkaran and Babu
6. TRADITIONAL KNOWLEDGE OF MEDICINAL PLANTS IN VELLIMALAI FOREST OF WESTERN GHATS OF TAMILNADU, INDIA.
R. Manimaran, K. Dharmar, and C. Pitchairamu
7. ETHNOBOTANICAL STUDIES ON PIRANMALAI FOREST OF EASTERN GHATS, TAMILNADU, INDIA.
C. Pitchairamu and K. Muthuchelian
8. ETHNOBOTANICAL REPORT OF SOME UNANI MEDICINAL PLANTS USED FOR ASTHMA IN COIMBATORE DISTRICT
K. Venkatesan, R. Murugeswaran and M.D. Alam

9. THE ROLE OF MEDICINAL PLANTS IN CUMBUM VALLEY (THENI DISTRICT), TAMIL NADU IN CURING THE CONTAGIOUS, INFECTIOUS AND PERENNIAL DISEASE.
G. Selvaraj and K. Muthuchelian
10. PRESENT STATUS OF SELECTED MEDICINAL CLIMBERS IN TAMILNADU
S. Sargunasundaram and M. Kumar
11. ETHNOBOTANY OF ALLIUM SPECIES IN NAGAPATTINAM DISTRICT TAMIL NADU
S. Rajasekaran, P. Sundaramoorthy, K. Sankar Ganesh, L. Baskaran and K. Sumathi
12. MEDICINAL FLORA IN THE WENLOCKDOWN GRASSLAND COMMUNITY OF NILGIRIS, THE WESTERN GHATS
D. Suresh, S. Manorama and S. Paulsamy
13. SACRED GROVES- HOT SPOTS OF BIODIVERSITY
R. Remya, C. Remya, R. Athira, and K. Divya.
14. ETHNOBOTANICAL USES OF SOME MEDICINAL PLANTS IN CUDDALORE DISTRICT
K. Sumathi, S. Rajasekaran, K. Sankar ganesh, L. Baskaran and P. Sundaramoorthy
15. ETHNOBOTANICAL VALUES OF *Cardiospermum helicacabum* L.
M. Lenin, P. Thamizhiniyan and S. Rajasekaran
16. ETHNO – MEDICINAL SURVEY AMONG MALAYALI TRIBALS OF KOLLI HILLS, TAMILNADU
K. Suresh and T. Selvin Jebaraj Norman
17. ETHNO MEDICINAL PRACTICES FOLLOWED BY PEOPLE OF KRISHNAGIRI DISTRICT OF TAMIL NADU
M.Ramasubramanian, N.Anandaraja, T.Radhakrishnan, N.S. Suganthi, R. Desingurajan and K.R.Srinivasan,
18. CONSERVATION OF MEDICINAL PLANTS IN THE SACRED GROVES
Marishetty Kumar, T.Sellathurai and K.Lalitha Sundari

- Technical session II : Hall No : 22
Invited Lecture : Biotechnological approaches for the conservation and sustainable utilization of medicinal plants
Dr.S. Seeni
Deputy Director
Tropical Botanic Garden and Research Institute, Trivandrum

TISSUE CULTURE AND GENETIC IMPROVEMENT

Paper Presentation and Discussion

19. RAPID *IN VITRO* MULTIPLICATION OF *Andrographis paniculata* NEES.: A VALUABLE MEDICINAL PLANT
J. Purukayastha, A. Paul, S. K. Singh and L. Sahoo
20. *IN VITRO* MASS MULTIPLICATION OF IMPORTANT MEDICINAL PLANT *Ophiorrhiza mungos* LINN.
P. Senthilkumar, S. Paulsamy and K. K. Vijayakumar
21. THE EFFECT OF GROWTH REGULATORS ON *IN VITRO* MORPHOGENETIC STUDIES OF *Plumbago rosea* LINN. A MEDICINAL PLANT
T. Sekar, M.Gopalakrishnan and Asha Saji
22. OPTIMIZATION OF DNA EXTRACTION IN CERTAIN FOREST TREE SPECIES FOR GENETIC IMPROVEMENT STUDIES.
M. Vishnupriya, M. Nithya and A. Kathambari
23. MICROPROPAGATION OF *TYLOPHORA INDICA* LINN.- A WIDELY USED MEDICINAL PLANT
T. Sekar and M. Gopalakrishnan
24. CALLUS INDUCTION FOR SECONDARY METABOLITE EXTRACTION IN ASHWAGANDHA
M. Mohanalakshmi, E. Vadivel and K. Rajamani
25. CALLUS INDUCTION AND EMBRYOGENESIS IN *Vigna mungo* (L.) HEPPEL.
V. Ganesan, R. Gnanasoundari, and P. Viji,

26. CALLUS INDUCTION AND EMBRYOGENESIS IN *Cajanus cajan* (L.) MILLSP.
V. Ganesan, P.Viji, and R.Gnana soundari
27. STUDIES ON CALLUS INITIATION, ORGANOGENESIS PATTERN AND PIGMENT COMPOSITION OF IN VITRO GROWN *Mentha arvensis* L.
M. Gomathi and K. Lingakumar
28. STUDIES ON *IN VITRO* PROPAGATION OF *Leucas aspera* L.
S. Amudha and Rajasekara Pandian
29. DEVELOPMENT OF CALLUS FROM *Bacaopa monniera* USING 2,4-D
M.Tamilarasan, and K.S.Subha.
30. CALLUS INDUCTION FROM LEAVES, STEM AND INFLORESCENCE EXPLANTS OF *Ocimum sanctum* (L)
M.S.Kavitha, S.Girija, E.G.Weseley, M.Rajasekara Pandian
31. RAPD ANALYSIS OF *IN VITRO* REGENERATED PLANTS OF *Baliospermum montanum* – A VALUABLE MEDICINAL PLANT
S. Prema, M. Baskaran, S. Rathinavel and K.K. Natarajan
32. CALLUS PRODUCTION OF *Tylophora indica* (BURM.F.) MERR. USING YOUNG LEAVES
T. Sellathurai, M. Baskaran, S. Rathinavel and K.K. Natarajan
33. *IN VITRO* MICROPROPAGATION OF *Theriophonum fisheri* THROUGH RHIZOME
T. Sellathurai S. Rathinavel and M. Kumar
34. ROLE OF BIOTECHNOLOGY IN GENETIC IMPROVEMENT OF MEDICINAL PLANTS
N.Aananthi, C.R Anandakumar and R.Ushakumari
35. *IN VITRO* PLANT REGENERATION OF *HELIANTHUS ANNUUS* - GROWTH AND SECONDARY METABOLITE PRODUCTION
S.Rashitha Parveen and R.Gunaseeli

03.15 pm : Tea
03.30 pm : Poster session

FRIDAY 27TH JULY-2007

10.00 am

Technical Session III : Seminar Hall
Invited Lecture : Innovative Phytochemical methods
and drug formulations
Dr.A.Saraswathi
Asst. Director and Head,
Captain Srinivasa Murthi Drug Research
Institute (CCRAS) Ministry of Health and
Family Welfare. Chennai.

11.00 am : Tea

PHARMACOGNOSY

Paper Presentation and Discussion

36. IN VITRO CYTOTOXICITY SCREENING OF SOME ASTERACEAE PLANTS BY TRYPHAN BLUE DYE EXCLUSION TECHNIQUE
S. Vijayalakshmi , M.J. Nanjan and B.Suresh
37. STUDIES ON PHYTOCHEMICAL SCREENING OF TRADITIONAL MEDICINAL PLANTS OF MARUDHAMALAIHILLS, COIMBATORE
P. Gurumoorthi and K.Janardhanan
38. EXTRACTION, PHYTOCHEMICAL SCREENING, ISOLATION, EVALUATION AND COMPARISON OF ANTIMICROBIAL ACTIVITIES OF ROOT AND LEAF EXTRACTS OF HEMIDESMUS INDICUS.
T. Sathish kumar, D. Sathis kumar, S.Mekalai Ponnu,
R.UmaMaheswari, and D.UmaMaheswari,
39. HERBAL THERAPEUTICS AND THEIR REGULATORY DIFFERENCES
G.VictorRajamanickam, N.Elayaraja, A.Sathya, P.Vivekananda,
S. Mahendran, and K.Ramesh.
40. SYNTHESIS AND BIOLOGICAL EVALUATION OF SOME NOVEL BIOACTIVE COMPOUNDS
R. Valarmathi, S. Agilandeswari, S. Karpagam Kumara Sundari, P. Seema, A. Tamilselvan and R. Senthamarai

41. SYNTHESIS AND BIOLOGICAL EVALUATION OF AMINOACID CONJUGATES OF FLURBIPROFEN.
Meena Tiwari, R. Saraswathy, Lokesh Upadhyay and R.Venkatakrisnan
42. PRELIMINARY PHYTOCHEMICAL INVESTIGATIONS AND ANTI-ULCER ACTIVITY OF THE FLOWERS OF *Musa paradisiaca* LINN.
G.Thamilarasi, C.Amudhadevi, N.Venkatachalam, B.Edwin Jose, D.Sathis Kumar and M.Sivaranjani.
43. HYPOGLYCEMIC ACTIVITY OF THE LEAVES OF *Polygala chinensis* LINN.,
C.Amudhadevi, G.Thamilarasi, S.Jebaseelan, N.Ilayaraja, D.Sathis Kumar and T.Shenbagapriya.
44. LEVELS OF ASCORBIC ACID IN SELECTED FRUITS AND VEGETABLES
K. Sreelekha, J.P.Poornima, and K.B.Renin Elizabeth.
45. PHARMACOGNOSTIC STUDIES ON LEAVES OF *Stereospermum colais*.
S.Latha , P.Jeyaraman and L. Suseela.
46. EVALUATION OF PHARMACOPOEIAL STANDARDS WITH REFERENCE TO AFTIMOON – WHOLE PLANT (*Cuscuta reflexa* ROXB.)
Rampratap Meena, Shamshad Ahmed Khan, S. Mageswari and M.D.Alam
47. STUDIES ON ANTIBACTERIAL ACTIVITY OF A MEDICINAL PLANT *Quercas infectoria* (LINN.)
J. Poorani, A. Sumaiya, and E. Srividhya.
48. EVALUATION OF ANTIMICROBIAL ACTIVITY OF *Clerodendrum serratum* and *clerodendrum viscosum*
P.Nilani, D.NagasamyVenkatesh, B.Duraisamy, M.K.Samantha, B.Suresh.V.Shankar, G.Syanmala, and A.K.Chandrasekharan .
49. CHEMICAL STANDARDIZATION STUDIES ON *Justicia tranquebariensis* L. – A TRADITIONAL DRUG SOURCE
B.Saritha ,J. Priya and P.Brindha

50. GASTROPROTECTIVE ACTIVITY OF *Albizia lebbek* (L) IN ACETIC ACID AND EHTANOL INDUCED ULCER IN RATS
A.Jaswanth, S. Akilandeswari, R. Valarmathi, A. Tamilselvan, R. Pavithra and R. Senthamarai
51. CHEMOTAXONOMIC RELATIONSHIP OF *Artemisia pallens* and *Artemesia paevisflora*
R. Parthasarathy and P. Brindha
52. PHARMACO – PHYTOCHEMICAL CHARACTERISATION OF *Gymnema sylvestre* (Retz.)R.Br.
M. S. Subramanian and N. H. Sathishkumar
53. ANTIBACTERIAL ACTIVITY OF LEAF EXTRACTS OF *Naringi crenulata* (ROXB.) NICOLS
K.H.Smila and M. Rajasekara Pandian
54. IN VITRO ANTIOXIDANT POTENTIAL OF *Sphaeranthus indicus*.
K.G.Ashwathy.
55. MICRO MORPHOLOGICAL STANDARDIZATION OF *Dodonea viscosa* LINN.
M. Deepa and P. Brindha
56. ISOLATION, IDENTIFICATION, BIOCHEMICAL SCREENING AND PRODUCTION OF ANTIBIOTICS FROM ACTINOMYCETES.
T. Sathish kumar, D. Sathis kumar, S.Mekalai Ponnu, R.UmaMaheswari, and D.UmaMaheswari,
57. STANDARDIZATION STUDIES ON *Swarnapatradi curna*.
R.Sivasubramanian and P.Brindha
58. PHARMACOGNOSTICAL STUDIES ON *Premna tomentosa* Willd. WITH REFERENCE TO EPIDERMAL TISSUE SYSTEM
S. Anbazhakan, S.M. Nagarajan and G. Jayanthi
59. EXPLORATION OF MEDICINAL PROPERTIES OF WATTAKAKA VOLUBILIS L.
K .Pandi Durai, and SM. Sundarapandian
60. SCREENING ANTIBACTERIAL ACTIVITY OF *Camellia sinensis*, *Coffea arabica* AND *Achras sapota*
J. Shabeena Merrin and S.Rajendran

61. PHYTOCHEMICAL ANALYSIS AND ANTIBACTERIAL ACTIVITY OF *Cardiospermum hellicacabum*, A NATIVE MEDICINAL PLANT

M. Viji and S. Murugesan

PHARMACOLOGY

Paper Presentation and Discussion

62. LIVER ABSCESS – MEDICAL MANAGEMENT BY USING ALOE JUICE

J. Jeya Venkatesh.

63. COMPARATIVE STUDY ON *Melothria* SPECIES AND THEIR UTILITARIAN AND THERAPEUTIC ASPECTS

R. Arivukkarasu, A. Rajasekaran and S.Murugesan

64. PRELIMINARY PHYTOCHEMICAL STUDIES AND ANTIDEPRESSANT LIKE EFFECT OF *Nyctanthes arbor-tristis*

A.Krishnaveni and D.Ranganayagakulu

65. A STUDY ON THE DEVELOPMENT OF IMMUNITY IN THE COMMON CARP, *Cyprinus carpio* BY NEEMAZAL FORMULATION

V. Balasubramanian, N. Muthumurugan and P. Kaleeswaran

66. SEARCH OF HERBAL REMEDIES FOR MODULATION OF IMMUNE SYSTEM

N.Elayaraja, R.Uma Maheswari, D.Uma Maheswari, D.Sathis kumar

67. DEVELOPMENT OF AN HPLC METHOD FOR THE ESTIMATION OF METHOTREXATE IN RAT PLASMA.

C.Vijaya, D.Sridharan and A.Thenmozhi

68. IN-VIVO ANTIPROLIFERATIVE SCREENING OF *Cissus vitiginea* LINN IN EHRLICH ASCITIC CARCINOMA INDUCED SWISS ALBINO MICE

B. Kalaiselvi, L. Suseela and A.Jaswanth

69. ANTI DIABETIC ACTIVITY OF *Nymphaea pubescens*, WILLD IN ALLOXAN INDUCED DIABETIC RATS

E.Selvakumari, A.Jaswanth and L.Susheela

70. HYPOLIPIDEMIC ACTIVITY OF *Alpinia speciosa.*, K. SCHUM IN CHOLESTEROL FED ALBINORATS
T. Purushoth Prabhu and L. Susheela
71. PRELIMINARY PHYTOCHEMICAL STUDIES AND ANTIDEPRESSANT LIKE EFFECT OF *Argyreia nervosa*
A.Krishnaveni and D.Ranganayagakulu
72. *IN-VIVO* ANTITUMOR AND ANTI OXIDANT POTENTIAL OF *Hyptis suaveolens* AGAINST EHRlich ASCITES CARCINOMA CELL LINES
G. Sridharan and P. Brindha
73. ASSESSMENT OF THE ANTI INFLAMMATORY EFFECTS OF *Adenema hyssopifolium* G.DON IN ACUTE AND CHRONIC EXPERIMENTAL MODELS IN ALBINO RATS.
R. Arivukkarasu, A. Rajasekaran and S.Muruges
74. STUDIES ON SERUM ENZYMES AND PROTEINS IN STZ INDUCED MALE WISTAR DIABETIC RATS TREATED WITH *Ganoderma* EXTRACT.
Md.Nazneen Bobby, A. Usha Raja Nandini, M.Rajasekara Pandian
75. ANALGESIC AND ANTI INFLAMMATORY ACTIVITY OF *Cadaba indica* LAM LEAF EXTRACTS
S.Mahendran , U.Subhashini , N.Elayaraja , M.Ravikumar ,
P. Vivekananda, K. Ramesh
76. HEPATOPROTECTIVE EFFECT OF *Mussaenda frondosa* LINN IN ALBINO RATS INTOXICATED WITH CARBON TETRACHLORIDE
S.Shanthi , L.Suseela and A.Jaswanth
77. HERBS WITH ANTIVENOM ACTIVITY: ANTIDOTES FOR SNAKE POISON
N.Elayaraja, R.Uma Maheswari, D.Uma Maheswari and D.Sathis kumar
78. EVALUATION OF ANTIPYRETIC ACTIVITY OF AERIAL PARTS OF *Adenema hyssopifolium* G.DON . IN RAT MODEL.
R. Arivukkarasu, A. Rajasekaran and S.Muruges

79. STUDIES ON SERUM GLUCOSE CHOLESTEROL AND PROTEIN IN STZ INDUCED MALE WISTAR DIABETIC RATS TREATED WITH *Ganoderma* EXTRACT.
R. Thenmozhi Sritharankini and M.Rajasekara Pandian
80. EFFECT OF NEEM GOLD ON THE IMMUNE RESPONSE OF THE FINGERLINGS OF COMMON CARP, *Cyprinus carpio*
P. Kaleeswaran, N. Muthumurugan and V. Balasubramanian
81. A CASE STUDY ON THE THERAPEUTIC ACTION OF *Acalypha indica* ON SCABIES IN RABBITS
Deepan.K.Kishore
82. EVALUATION OF ANALGESIC AND ANTI-INFLAMMATORY ACTIVITY OF *Polyscias fruticosa* .L.HARMS
I.Arthi, P.Nilani, B.Duraisamy, P.Damodharan, Salecmullahkhan.and B. Suresh
83. SCREENING OF BIOACTIVE PRINCIPLES AND ANTIMICROBIAL ACTIVITY OF ENICOSTEMMA LITTORALE.
P. Murugan, Asaimani.B and S. Murugesan

10.00 am

Technical Session IV : Hall No 22

Invited Lecture : Herbal Research Opportunities for Young Scientists

Mr.P. Thirugnanansambandam

Rohini Global Marketing Pvt. Ltd.Chennai.

CULTIVATION AND MARKETING

Paper Presentation and Discussion

84. STANDARDIZATION OF HERBAL MEDICINE
Krishna Veni and Santh Rani Thaakur
85. EFFECT OF TRIACONTANOL ON GROWTH AND ANDROGRAPHOLIDE CONTENT IN *Andrographis paniculata* (Burm.F) Wallich ex Nees.
V.Pandiyarajan and K.Muthuchelian

86. INFLUENCE OF IAA AND 2,4-D ON VEGETATIVE GROWTH, PIGMENT COMPOSITION AND BIOCHEMICAL CONSTITUENTS IN VEGETATIVELY PROPAGATED *Mentha arvensis* L.
V. Meenakshi and K. Lingakumar
87. STUDIES ON THE INFLUENCE OF SEED TREATMENT ON GERMINATION, SEEDLING CHARACTER AND VIGOUR INDEX OF KALMEGH (*Andrographis paniculata* Nees).
S. Ramkumar
88. GROWTH AND PRODUCTIVITY OF CERTAIN MEDICINAL HERBS UNDER NATURAL LOW LIGHT ECOSYSTEM
K. Balakrishnan and C.R. Anantha kumar
89. EFFECT OF INSECTICIDE EKALUX 25E.C ON THE ROOT TIPS OF *Allium sepa* L.
A.M. Ananda kumar
90. MEDICINAL CUCUMBER (*Cucumis sativas* L.) CULTIVATION UNDER GREENHOUSE USING SOIL LESS CULTURE.
S. Janapriya and D. Palanisamy
91. ROLE OF ORGANIC MANURES AND BIOREGULATORS ON ROOT YIELD AND ASSOCIATED CHARACTERS IN ASWAGANDHA (*Withania somnifera* L.) DUNAL)
M.Mohanalakshmi, E. Vadivel and K. Rajamani
92. STUDIES ON THE EFFECT OF WATERLOGGING ON GROWTH AND BIOCHEMICAL CHARACTERISTICS OF *Sorghum bicolor* L.
P. Gurusaravanan and V. Pandiyarajan
93. STUDIES ON COMMON FUNGAL DISEASES ON FEW VEGETABLES
P.Sathishkumar
94. VESICULAR ARBUSCULAR MYCORRHIZAL ASSOCIATION IN *Withania somnifera*
A.Subramanian, N. Nagarajan and S.N. Suresh
95. USES OF BIO MANURES IN RHIZOME PRODUCTION OF TURMERIC : AN EFFECTIVE MEDICINAL PLANT
S. Rajasekaran, P. Sundaramoorthy, K. Sankar ganesh, L. Baskaran, K. Sumathi and P. Unni Kannan

96. SPACING AND ORGANIC MANURES INFLUENCE ON YIELD AND OIL CONTENT IN OREGANO, *Oreganum vulgare* (LABIATAE)
G.Balakrishnamoorthy, V.Lakshmanan, S. Praneetha and S.Prema
97. PERFORMANCE OF MEDICINAL HERBS AT SHEVROY HILLS
G.Balakrishnamoorthy, V.Lakshmanan, S. Praneetha and S.Prema
98. GREEN AND DRY HERBAGE YIELD AT DIFFERENT SPACING AND NUTRIENT LEVELS IN MARJORAM (*Marjorana hortensis*)
G.Balakrishnamoorthy, S.Prema, V.Lakshmanan and S.Praneetha
99. EFFECT OF DIFFERENT LEVELS OF SPACING AND DIFFERENT TYPES OF MANURES IN ROSEMARY, *Rosemarinus officinalis* (Labiatae)
G.Balakrishnamoorthy, V.Lakshmanan, S. Praneetha and S.Prema
- 100.SPACING AND NUTRIENT LEVELS IN PARSLEY, *Petroselinum crispum* (UMBELLIFERAE)
G.Balakrishnamoorthy, V.Lakshmanan, S. Praneetha and S.Prema
- 101.NUTRITIONAL STUDIES AT DIFFERENT SPACING IN CLARY SAGE (*Salvia sclarea*)
G.Balakrishnamoorthy, V.Lakshmanan, S. Praneetha and S.Prema
- 102.ALLEVIATING EFFECT OF VIPUL ON GROWTH AND BIOCHEMICAL CHARACTERISTICS IN SALT STRESSED *Vigna radiata* (L.) Wilczek
Usha Maheswari, S. and V. Pandiyarajan,

LATE ABSTRACTS - PHARMACOLOGY

Paper Presentation and Discussion

- 103.WOUND HEALING EFFECT OF CASSIA ALATA EXTRACT OINTMENT PREPARATIONS
S. Palanichamy, T. Venkatarathinakumar, V. Ganesan and S.Eswara sankaran
- 104.CHEMOPREVENTION OF N-NITROSODIETHYLAMINE INDUCED LIVER TULOURS IN RAT BY EXTRACT OF *Annona squamosa*

T. Venkatarathinakumar, B. Durgambigai, S. Palanichamy,
K. Shanmuga Rajan, B. Parimala Devi and K. Raadhika

105. SCOPE OF PHYTO CHEMICAL INDUSTRY

P.Saravanan and J.Jeya Venkatesh

- 01.00 pm : Lunch
02.00 pm : Technical sessions III and IV continuation
03.15 pm : Tea
03.30 Pm : Poster Session
04.30 pm : Valedictory Function

Dr.S.Vincent

Member Secretary

Tamil Nadu State Council for Science and
Technology, Chennai

- 05.00 pm : Vote of Thanks

Dr.S. Rathinavel

Organizing Secretary

SATURDAY 28TH JULY-2007

- 10.00 am to 04.00 pm : Field Visit

SP.A.No.1

CONSERVATION AND SUSTAINABLE USE OF MEDICINAL PLANTS

S. Kannaiyan

Chairman

National Biodiversity Authority

Government of India

India is one of the 17 mega diversity countries is gifted with a wide spectrum of biodiversity. Agro biodiversity focusing the portion of biodiversity revolves around plants, animals and microorganisms. Plant genetic variability, is very much useful to breed improved varieties and also to utilize in commercial purposes. Therefore they are given top most importance and being explored and conserved. It is estimated that the total biodiversity on the range of 3.25 million species to 1.4 billion species. According to the world conservation monitoring centre the total number of species described at the global level so far is around 1.7 million. Like food crops as well as commercial crops, medicinal plants are also having wide genetic variability and being exploited from time immemorial.

Human beings have been utilizing enormous direct economic benefits from biodiversity in the form of food, medicines and industrial products and has the potential for gaining many more. All our food comes from wild species brought into domestication. Besides, fire wood, timber and other industrial products are obtained from wild. Throughout the world almost a

quarter of all medical prescriptions are either for chemical compounds from plants or microorganisms or of synthetic variations. In India traditional doctors use 2,500 plants for medicinal purpose while Chinese have been using over 5,000 medicinal plants. Rubber, wood, paper, pesticides and many other natural products support our industries. Our half of food source and human nutrition is provided by rice, wheat, maize and potato.

India is the treasure of plants, among them 70 percent of the plants are spread across tropical forest of Western Ghats, Vindhyas Nagpur, Plateaus, Aravalli, Terai region, wide areas of Himalayas and North East. Among these plants more than 15,000 plants are medicinal plants and they grow well here because India is bestowed with favorable climatic and environmental conditions

Biodiversity is also precious "genetic library" maintained by several ecosystems. The potential of the genetic diversity of medicinal plants has not been tapped and thus their preservation and conservation is essential for economic benefit. There is also an intimate relationship between genetic diversity of medicinal plants and ecological processes. Natural habitat also preserve a reservoir of continuously evolving genetic material that enable various medicinal plants species to adapt changing conditions. According to the available information about 1,800 species are used in classical Indian systems of medicines, Ayurvedic uses 1,200, Siddha utilizes 900, Unani uses 700, Amchi uses 600 and 450 species are used by Tibetan.