

Scientific Writing and Its Utility in Quality Improvement

Journal club was inaugurated in the college and a class on “Scientific Writing” was conducted by Prof.K.R Sundaram , Head of the Department of Biostatistics , Amrita Institute of Medical Sciences, Cochin on 4th December 2017.

Journal club is a platform to develop the critical appraisal skills and also to acquire up-to-date evidenced based knowledge in the field of research. Prof. Dr. K.R. Sundaram, Head, Department of Biostatistics ,AIMS, Kochi, inaugurated the journal club of Nirmala College of Pharmacy and delivered a lecture on **scientific writing and its utility in quality improvement** for the 3rd and 4th B-Pharm and Pharm D students and faculty members on 4th the December 2017.

The program has started at 9:30 am at college seminar hall by the welcome speech by Dr. Suja Abraham, Associate Professor, Department of Pharmacy Practice. The program has progressed further by the enthusiastic presidential address by Dr. David Banji, Principal of the college. Mr. Dhanish Joseph, Assistant Professor, Dept of Pharmaceutics gave an introduction about the journal club and the instructions to be followed for the presentation. He concluded by highlighting its importance in pharmaceutical research and introduced the speaker and invited him for his deliberation.

Prof. Dr. K.R. Sundaram has started his talk on scientific writing, regarding preparation of research protocol and elaborated the various statistical methods and its application in medical and pharmaceutical research. He explained the methodology of preparation of journal articles, along with modifications to be made as per the suggestion of referees comment.

After a long and lengthy discussion the day came to end and the program has been officially concluded and closed by Dr. David Banji by presenting the memento and certificate to the speaker.



Prof. Dr. K.R. Sundaram, inaugurating the journal club



Mr. Dhanish Joseph, giving an introduction about Journal Club

PRINCIPLES OF WRITING RESEARCH PROTOCOL

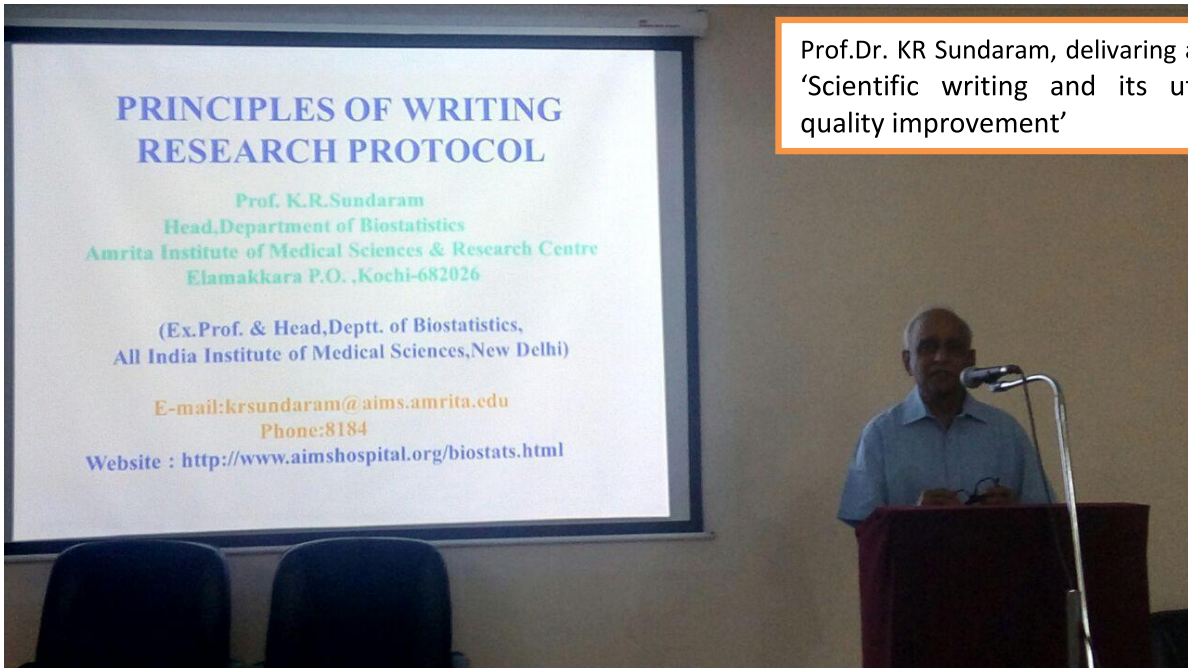
Prof. K.R.Sundaram
Head, Department of Biostatistics
Amrita Institute of Medical Sciences & Research Centre
Elamakkara P.O. , Kochi-682026

(Ex.Prof. & Head, Deptt. of Biostatistics,
All India Institute of Medical Sciences, New Delhi)

E-mail: krsundaram@aims.amrita.edu
Phone: 8184

Website : <http://www.aimshospital.org/biostats.html>

Prof.Dr. KR Sundaram, delivering a talk on
'Scientific writing and its utility in
quality improvement'



NILA-V: One Day National Seminar on “Drug Design and Optimisation of Drug Delivery Systems” and Poster Presentations.

One Day National Seminar on “Drug Design and Optimisation of Drug Delivery Systems” was conducted on **9th November 2017** at NESTT by the Department of Pharmaceutics Msgr. Dr. Cherian Kanjirakombil, Vicar General & Manager of Educational Institutions, Kothamangalam Diocese, inaugurated the seminar. The sessions were handled by **Dr.S. Jubie, Assistant Professor, Department of Pharmaceutical Chemistry, JSS College of Pharmacy, Ooty** on the Topic **“Structure based drug design: An overview and case studies”** and **Dr. N. Jawahar, Assistant Professor, Department of Pharmaceutics, JSS College of Pharmacy, Ooty** on the Topic **“Design of Experiment: A software approach for the optimization of drug delivery system”**. Delegates from an overall of about twenty-one different pharmacy institutions attended the seminar. Poster presentation competitions were also conducted as a part of the seminar. 117 posters from 5 disciplines in pharmacy, competed in the event. Faculties and students from different colleges participated. Faculty from different pharmacy colleges along with internal evaluators evaluated the posters.





Session by Dr. N. Jawahar, Assistant Professor, Department of Pharmaceutics, JSS College of Pharmacy, Ooty



Poster Presentation

ദേശീയ സെമിനാർ നാളെ

മുവാറ്റുപുഴ: കേരള ശാസ്ത്ര സാങ്കേതിക പരിസ്ഥിതി കൗൺസിലിന്റെ സഹകരണത്തോടെ മുവാറ്റുപുഴ നിർമ്മല കോളജ് ഓഫ് ഫാർമസിയിൽ നാളെ ദേശീയ സെമിനാർ നടത്തുന്നു.

ഡ്രഗ് ഡിസൈൻ ആൻഡ് ഷെഡ്യൂൾഡ് ഡ്രഗ് ഡെലിവറി സിസ്റ്റംസ് എന്ന വിഷയത്തിൽ നടത്തുന്ന സെമിനാർ കോത

മംഗലം രൂപത വികാരി ജനറാൾ മോൺ ചെറിയാൻ കാഞ്ഞിരക്കൊമ്പിൽ ഉദ്ഘാടനം ചെയ്യും. ഇന്ത്യയിലെ പ്രമുഖ കോളജുകളിൽനിന്ന് പ്രതിനിധികൾ പങ്കെടുക്കുമെന്ന് കോളജ് അഡ്മിനിസ്ട്രേറ്റർ ഫാ. ജോസ് മത്തായി മൈലാടിയത്ത്, പ്രിൻസിപ്പൽ ഡോ. ഡേവിഡ് ബാബി എന്നിവർ അറിയിച്ചു.


ദേശീയ സെമിനാർ

മുവാറ്റുപുഴ: കേരള ശാസ്ത്ര സാങ്കേതിക കൗൺസിലിന്റെ സഹകരണത്തോടെ മുവാറ്റുപുഴ നിർമ്മല കോളജ് ഓഫ് ഫാർമസി ഡ്രഗ് ഡിസൈൻ ആൻഡ് ഷെഡ്യൂൾഡ് ഡ്രഗ് ഡെലിവറി സിസ്റ്റംസ് എന്ന വിഷയത്തിൽ സംഘടിപ്പിച്ച ദേശീയ സെമിനാർ കോതമംഗലം രൂപത വികാരി ജനറാൾ മോൺ. ചെറിയാൻ കാഞ്ഞിരക്കൊമ്പിൽ ഉദ്ഘാടനം ചെയ്തു.

കോളജ് അഡ്മിനിസ്ട്രേറ്റർ ഫാ. ജോസ് മത്തായി മൈലാടിയത്ത്, പ്രിൻസിപ്പൽ ഡേവിഡ് ബാബി എന്നിവർ പ്രസംഗിച്ചു. എസ്. ജൂബി, എൻ. ജവഹർ എന്നിവർ ക്ലാസ് നയിച്ചു. രാജ്യത്തെ വിവിധ കോളജുകളിൽ നിന്നുള്ള പ്രതിനിധികൾ പങ്കെടുത്തു.



മുവാറ്റുപുഴ നിർമ്മല കോളജ് ഓഫ് ഫാർമസിയിൽ നടന്ന ദേശീയ സെമിനാർ കോതമംഗലം രൂപത വികാരി ജനറാൾ മോൺ. ചെറിയാൻ കാഞ്ഞിരക്കൊമ്പിൽ ഉദ്ഘാടനം ചെയ്യുന്നു. പ്രിൻസിപ്പൽ ഡേവിഡ് ബാബി, അഡ്മിനിസ്ട്രേറ്റർ ഫാ. ജോസ് മത്തായി മൈലാടിയത്ത്, എസ്. കുച്ചുസ്വാമി തുടങ്ങിയവർ സമീപം.



VIMALAGIRI INTERNATIONAL SCHOOL
MUVATTUPUZHA (I.C.S.E.)



NILA-IV: One day national symposium on “Impact of genetic variation on the drug receptor targets and its exploration”

Department of Pharmacology NCP ,has conducted one day national symposium on “Impact of genetic variation on the drug receptor targets and its exploration” on 6th May 2017.The event was cosponsored by SERB ,DST and KSCSTE .The first session on elaboration of influence of genetic variation on drug receptor target was handled by Dr. David Banji, Prof.& Director of Research ,RIPER ,AP.He explained various genetic disorders with the types of alterations in genomes and the need for prescribing individualized medication. The second session was handled by Dr. Aiswarya Deshmokh, Principal, SSVBIP, Gujarat on global outlook on the management possibilities on genetic variation and receptor target linkage. She explained the PK/PD effects of drugs when the target proteins were mutated by single gene polymorphism. The third session was handled by Mr. Sivansh Pandey Manager Pharmacovigilance Accenture, Bangalore on role of Pharmacovigilance in the scenario of genetic variations and receptor targets. He explained ADR due to genetic disorders and treatment failures associated with that.





NILA III: One day National Seminar on the topic ‘Novel Approaches to Drug Design and Molecular Modelling’

Nirmala College of Pharmacy, Dept. of Pharmaceutical Chemistry has conducted one day National Seminar on the topic ‘Novel Approaches to Drug Design and Molecular Modelling’ on **Saturday, the 5th November 2016**. The event was co-sponsored by Kerala State Council for Science, Technology and Environment. The seminar was commenced at 10.00 am. **Dr. P. Perumal**, Principal, Nirmala College of Pharmacy welcomed the gathering. Seminar was inaugurated by **Rev. Msgr. Dr. George Oliappuram**, Manager, **Rev. Fr. Jos Mathai Mailadiath**, Administrator presided the function and Chief guest **Dr. T. M Joseph, Principal**, Nirmala College Muvattupuzha delivered the chief guest address. **Prof. John Joseph**, Academic advisor expressed the vote of thanks.

The first session on the same day morning was handled by **Dr. Senthil Raja A**, Associate Professor of Pharmaceutical chemistry, Department of Pharmaceutics, IIT, Banaras Hindu University, Varanasi, UP. He explained “**Current Approaches of Molecular Modelling in Drug Design & Discovery**”, The session was chaired by Ms. Anu Jayamol Mathew, Assistant Professor, Nirmala College of Pharmacy, Muvattupuzha. It was very informative and has given rise to new horizons in understanding fundamental concepts and principles of molecular modelling, write from classical quantum mechanics to modern molecular mechanics followed by classification and specific applications of molecular modelling methods in conceptualising and translating the molecules from computer to clinically useful drugs. The current trends and future scope of molecular modelling were also covered. The talk has really motivated the research scholars and delegates in understanding Molecular Modelling in Drug Design & Discovery.

The second session in the afternoon was handled by **Dr. Alex Joseph, Associate Professor, Department of Pharmaceutical Chemistry, Manipal College of Pharmaceutical Sciences, Mangalore**. The topic was on “**Structure Based Drug Design**”. The session was chaired by Dr. Minu B Pattasseril, Assistant Professor, Nirmala College of Pharmacy, Muvattupuzha. The session detailed on the increased attrition rates in drug discovery process and various reasons for these failures. The major focus was on how modern lead discovery strategies can be effectively utilized to minimize these failures. Rational drug design approaches like *De novo* structure based drug design aspects were discussed in detail with suitable case studies. A

case study on *De novo* structure based drug design of thymidylate synthase inhibitor as anticancer agent was deliberated. Another important aspect of structure based drug discovery like optimizing the drug target interactions for improving the selectivity and thus improving pharmacodynamics and pharmacokinetic properties has been discussed in detail with appropriate examples. The participants are benefitted in how to design a new drug moiety.

The third session was handled by **Dr. Anny Mathew, Professor, Dept. of Pharmaceutical Chemistry, Govt. Medical College, Kottayam**. The topic was “**QSAR and Drug Design**”. The session was chaired by Ms. Deepa Jose, Assistant Professor, Nirmala College of Pharmacy, Muvattupuzha. She explained about various methods and calculations involved in QSAR techniques and design of new drugs. She also given detailed information about various parameters and factors influencing QSAR.

The Valedictory function was started at 3.30 pm. **Ms. Deepa Jose**, Assistant Professor welcomed the gathering. **Dr. Marthakkutty Joseph, HOD, Dept. of Chemistry, Nirmala College Muvattupuzha**, delivered valedictory message. **Rev. Fr. Jos Mathai Mailadiath, Administrator** distributed the certificates to the delegates who has participated in the seminar. **Dr. Minu B Pattasseril**, Assistant Professor expressed the vote of thanks.





Prof. Dr. T M Joseph, Principal, Nirmala College, Muvattupuzha inaugurating the National Seminar



Rev. Msgr. George Oliapuram, Manager and President, Nirmala College Society addressing the gathering

NILA-II: A National Seminar on the topic ‘Herbal Drug Research- a Nano Molecular Level Exploration’

In Nirmala College of Pharmacy, Dept. of Pharmacognosy organised a National Seminar on the topic ‘Herbal Drug Research- a Nano Molecular Level Exploration’, as second module of NILA (Nirmala Ignites Learning Aspiration). The main aim of seminar was to inspire the young faculty and students towards the field of herbal drug research and to garner the current trends and views of herbal drug industry, its research and developments. The seminar also intends to develop entrepreneurs for cultivation and trade of drugs, and mainly focused on B.Pharm students to maintain a professional touch. The seminar commenced at 10.00 am on Saturday 24th September 2016, presided by **Rev. Fr.JosMathaiMailadiath**, Administrator, **Dr.P.Perumal**, Principal, Nirmala College of Pharmacy. Seminar was inaugurated by **Rev. Dr. George Thanathuparambil**, Higher Education Secretary, Kothamangalam Diocese in the presence of Chief guest **Sr. Dr.Tessy Joseph, S H.**, Head, Department of Botany, Nirmala College. It was followed by Plenary sessions and valedictory function.

The first plenary session was on the topic “**Biodiversity and Method of Conservation of Medicinal Plants**”, led by **Dr. Mathew Dan, Scientist E1, Plant Genetic Resources Division, JNTBGRI(Jawaharlal Nehru Tropical Botanical Garden and Research Institute), Thiruvananthapuram**. He explained different types of wild diversities and species diversities worldwide. He also detailed about in-situ and ex-situ conservation methods. He also pointed out the indirect human activities which makes loss of biodiversity. The strategy, action plan and rules of National Biological Diversity Act, Kerala Biodiversity Act and role of medicinal plants in Indian economy were also discussed. Topics like value of characterisation of medicinal plants and aromatic plants were also covered.

The second plenary session led by **Dr. B.Sabulal, Principal Scientist and Head, JNTBGRI ,Thiruvananthapuram**, was on the topic “ **Chemical and Spectral Approaches to Molecules of Natural Origin**”. The session detailed on isolation, identification, and biological assay processes. He also focussed on the basic principles and applications of spectroscopical methods in identification of phytochemicals highlighting examples. Discussed on genotypes and chemotypes with special reference to different species and new essential oil sources in plants. He pointed the reality of chemotaxonomical studies and methods UV induced visual cues in grasses and blue fluorescence emissions.

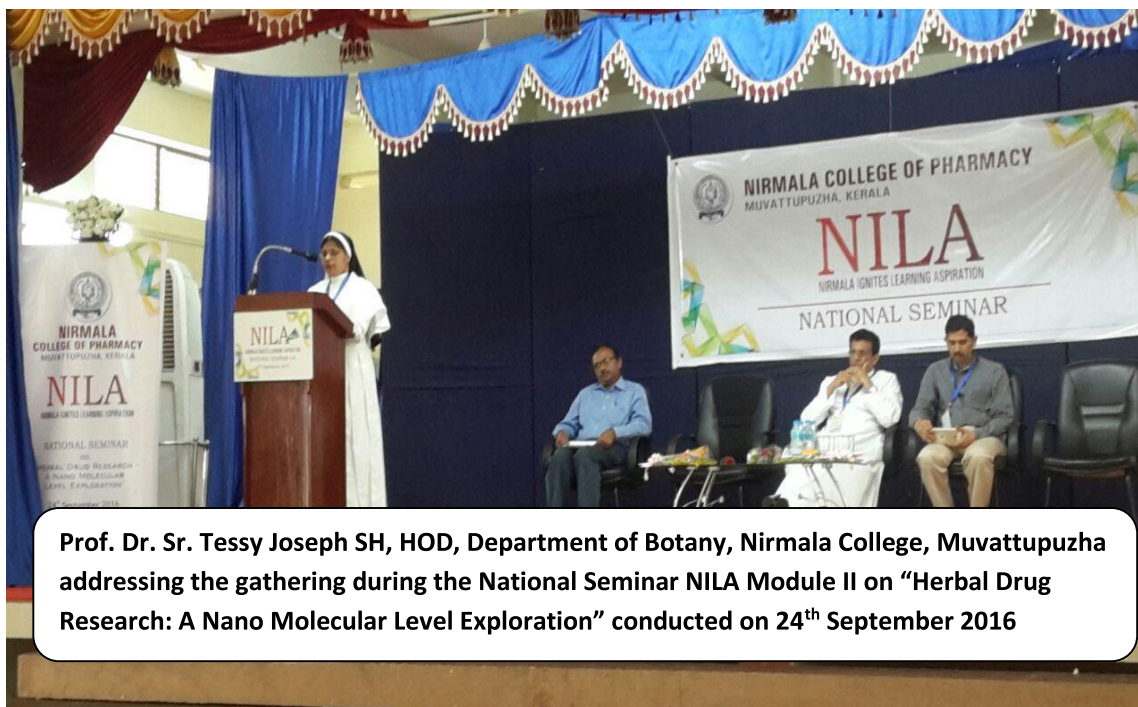
The third plenary session on the topic “**Gene Mapping and DNA Fingerprinting**” was led by **Dr.Reji J V, Associate Professor, Dept. of Biotechnology, Sathyabhama University, Chennai**. In the session, he explained about genome maps which are used to pinpoint the location of specific features on the chromosome of an organism. They are essential tools for comparing genomes of different species, for complete genome sequencing and also as a tool in identifying genes responsible for diseases or traits, he explained in detail about genome

restriction enzymes, physical mapping, genetic linkage mapping, fluorescence in-situ hybridisation, molecular markers like AFLP, RFLP, RAPD and so on.

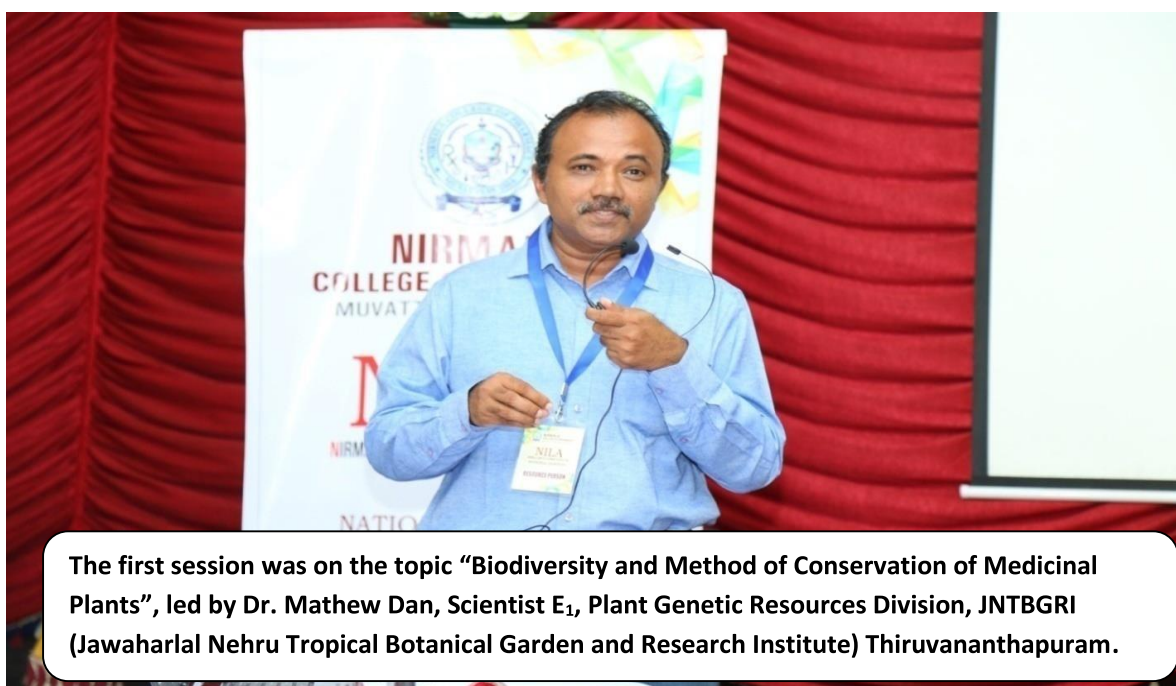
Seminar concluded with valedictory function. **Rev. Dr. George Karakunnel, Director of NESTT** delivered valedictory message and certificates for various institutions were distributed. In the seminar around 300 participants from different institutions were benefitted and was very informative and useful.



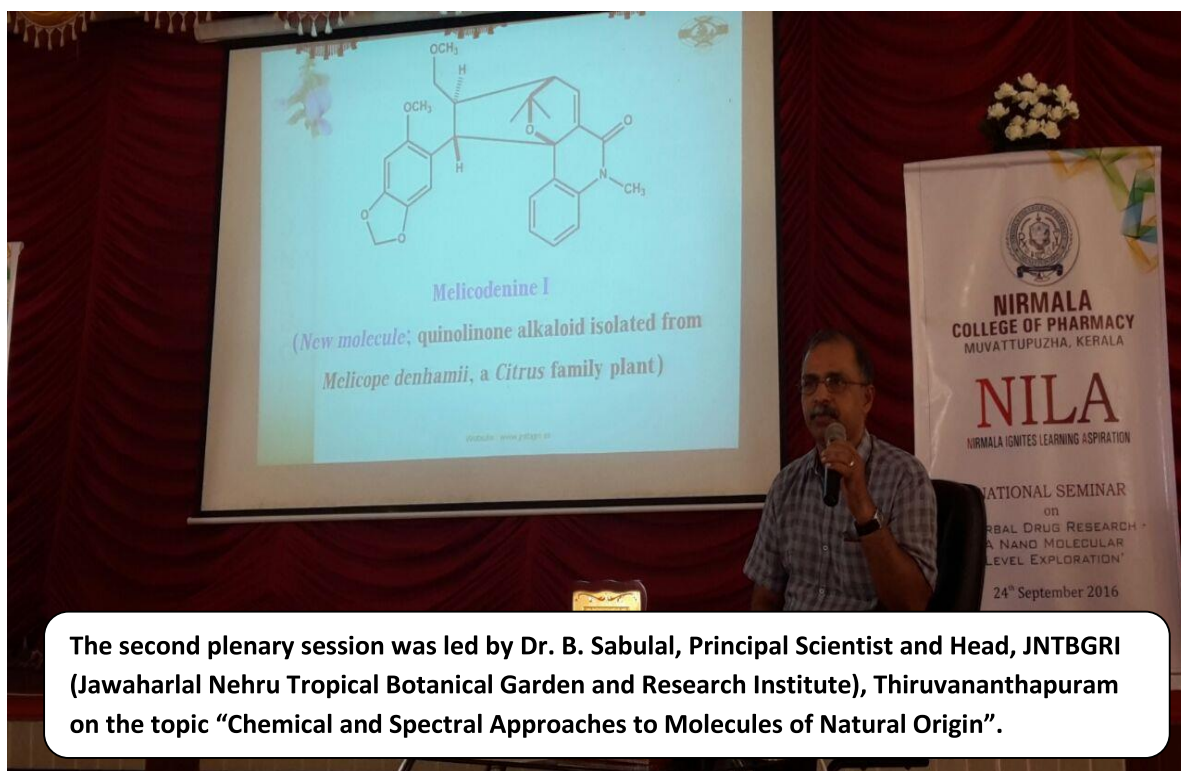
Rev. Dr. George Thanathuparambil, and Sr. Dr. Tessy Joseph S H inaugurating the National Seminar NILA Module II



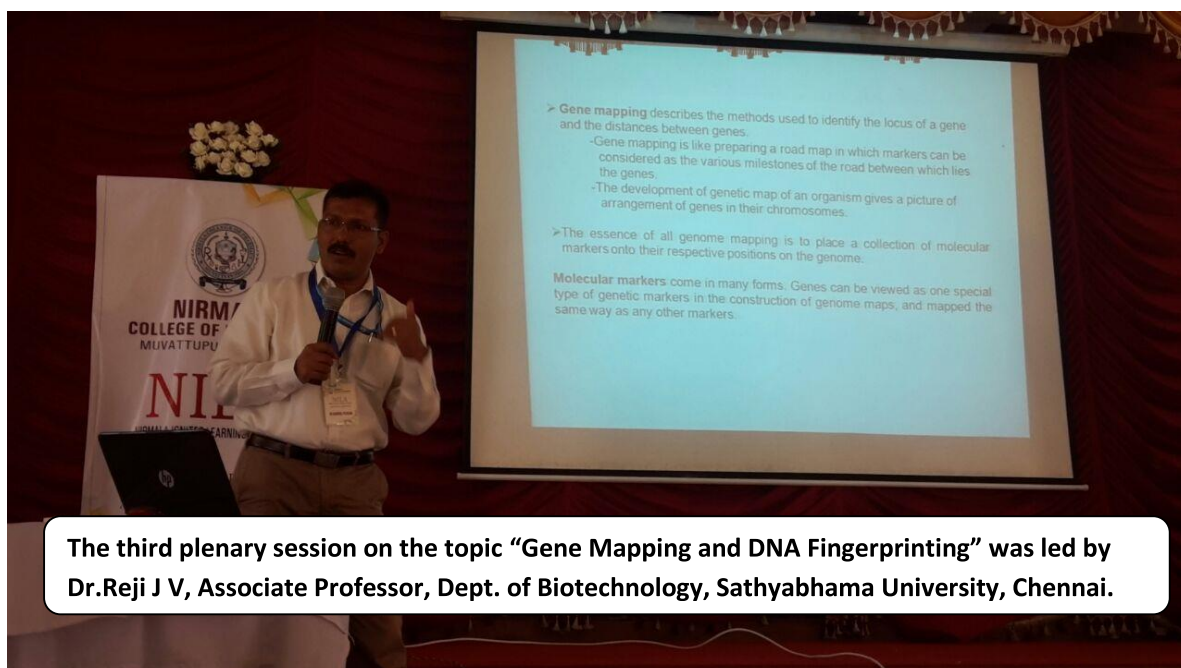
Prof. Dr. Sr. Tessa Joseph SH, HOD, Department of Botany, Nirmala College, Muvattupuzha addressing the gathering during the National Seminar NILA Module II on “Herbal Drug Research: A Nano Molecular Level Exploration” conducted on 24th September 2016



The first session was on the topic “Biodiversity and Method of Conservation of Medicinal Plants”, led by Dr. Mathew Dan, Scientist E₁, Plant Genetic Resources Division, JNTBGRI (Jawaharlal Nehru Tropical Botanical Garden and Research Institute) Thiruvananthapuram.



The second plenary session was led by Dr. B. Sabulal, Principal Scientist and Head, JNTBGRI (Jawaharlal Nehru Tropical Botanical Garden and Research Institute), Thiruvananthapuram on the topic “Chemical and Spectral Approaches to Molecules of Natural Origin”.



The third plenary session on the topic “Gene Mapping and DNA Fingerprinting” was led by Dr.Reji J V, Associate Professor, Dept. of Biotechnology, Sathyabhama University, Chennai.