



AMITY UNIVERSITY
UTTAR PRADESH



**UNIVERSITY OF SCIENCE AND
TECHNOLOGY, MEGHALAYA**

***National Conference on
JPR in Bio Sciences for Scientists from
North-East Indian States***

Sponsored by:



ICAR

माकृअनुप



ICMR

**Date : 21st - 23rd July, 2015
Venue : USTM**

AMITY UNIVERSITY
UTTAR PRADESH

In collaboration with

UNIVERSITY OF SCIENCE & TECHNOLOGY, MEGHALAYA (USTM)

Techno City, Kling Road, 9th Mile, Baridua, Ri-Bhoi, Meghalaya -793101



**National Conference on IPR in Bio Sciences for Scientists from North- East
Indian States**

July 21 to 23, 2015

CONTENTS

| | |
|---|--------------|
| 1. Genesis of the workshop | 1-2 |
| 2. Organizers | 3- 4 |
| 3. Agenda | 5-7 |
| 4. Report | 8-11 |
| 5. News reports | 12-13 |
| 6. List of participants | 14-18 |
| 7. Conference photographs | 19-27 |



GENESIS OF THE WORKSHOP

The Trade Related Intellectual Property Rights makes patents available in all fields of technology, including biotechnology, provided they are new, capable of industrial application, and involve an inventive step. Therefore, it is of utmost importance to understand the importance of IPRs and take necessary measures to protect the IP being generated by young researchers/ scientists and faculty working in various fields of research and development for its future licensing and commercialization.

During recent past Amity Institute of Microbial Technology (AIMT), Amity University Uttar Pradesh, Noida has organized several national/ international conferences on IPR sponsored by national/ international agencies such as NAAS, DBT, ICMR and USPTO. The first workshop organized by us on '*IPR Management in Indian Agriculture under changing R&D Scenario – Implications of WTO, PVP&FR & Biodiversity Acts*', was sponsored by National Academy of Agricultural Sciences and held on 17th Oct, 2008 at Amity University Uttar Pradesh, Noida.

The second in series '*Indo-US Sponsored International Congress-cum-Workshop on IPR*' was organized during Oct 5 to 7, 2009. More than 100 participants from India and abroad, representing the academic research institutions, industry, law firms, government and non government organizations deliberated on important issues related to IPR. Apart from fundamentals of IP, the academic sessions covered the issues in the fields of Public Private Partnership, Technology Transfer, Traditional Knowledge, Agriculture and Biotechnology. The deliberations of the congress have been published in the book entitled "*Protecting Intellectual Property in Life Sciences; Ed. Dominic Keating, Ajit Varma, Abha Agnihotri*".

The workshop on '*Intellectual Property and Commercialization in Biotechnology*' sponsored by BIO, was organized on 13 Nov, 2013 that explored the basics of patent protection and commercialization, the role of technology transfer offices in universities, and the effect of existing and proposed laws and regulations on the innovation ecosystem in the biotechnology area in India and USA.

Followed by this *Indo- US Conference-cum- workshop on IPR*', Jan 29-31, 2014 was jointly organized by USPTO and AIMT- Amity University, and sponsored by DBT

and ICMR. Intensive deliberations on IPR were held under five technical sessions covering twenty four presentations by invited speakers who deliberated on diverse issues on IP protection in life sciences domain in India and abroad. Fifty three abstracts were submitted for poster presentations by the participants.

During the conclusion and recommendation of the Indo - US IPR conference 2014, it was emphasized that there is a need to hold more such workshops at regular intervals at diverse locations for better awareness and understanding of IP issues by scientists and researchers, specially those working in remote areas, giving rise to the genesis of the proposed workshop for the benefit of researchers and scientists from north east states of our country.

Considering the importance of IPR in the area of life sciences, the National Conference on IPR in Bio Sciences for Scientists from North- East Indian States was organized by Amity University Uttar Pradesh, Noida in collaboration with University of Science and Technology, Meghalaya. The primary objective of the workshop was to unfold the fundamental aspects and applications of IP for its benefit to all stakeholders, with special reference to those working in North Eastern states of India. The technical sessions during the three day workshop will address five thematic areas:

- The genesis and legal issues in IPR Regime
- Traditional knowledge and Neutraceuticals
- Biodiversity, GI and PPV&FR
- IPR in Bio Sciences and Allied areas
- Technology Development and Management

The lead and plenary lectures were delivered by senior scientists/ technocrats from Universities/ Research Organizations and legal experts with specific time slot for interactive discussions. The workshop was attended by 84 participants including graduate, post graduate, Ph.D. fellows and Postdoc students, faculty members, scientists, government officials, policy makers, members of print and electronic media, R&D organizations which are involved in generation and application of knowhow and innovation, leading to economic growth and development.



**National Conference on IPR in Bio Sciences for Scientists from North- East
Indian States**

July 21 to 23, 2015

ORGANIZERS

PATRON-IN-CHIEF

Dr. Ashok K. Chauhan

Founder President RBEF

(The foundation of Amity institutions and the sponsoring body of Amity
Universities)

Chairman, AKC Group of Companies

PATRONS

Sh. Atul Chauhan

Chancellor

Amity University Uttar Pradesh

Noida, UP

Sh. M. Hoque

Chancellor

University of Science & Technology

Ri-Bhoi, Meghalaya

Dr. (Mrs.) Balvinder Shukla

Vice Chancellor

Amity University Uttar Pradesh

Noida, UP

Dr. PG Rao

Vice Chancellor

University of Science & Technology

CHAIRPERSONS

Prof. (Dr.) Ajit Varma

Distinguished Scientist & Prof. of Eminence
Amity Institute of Microbial Technology
Amity University Uttar Pradesh, Noida, UP

Dr. RK Sharma

Pro Vice Chancellor
University of Science & Technology
Ri-Bhoi, Meghalaya

ORGANIZING SECRETARIES

Dr. Amit C Kharkwal

Dy. Director & Head, Amity Institute of Microbial Technology
Amity University Uttar Pradesh, Noida, UP

Dr. Manash J Nath

Assistant Professor
University of Science & Technology
Ri- Bhoi, Meghalaya

CONVENER

Dr. Abha Agnihotri

Head Center for Agricultural Biotechnology
& Professor, Amity Institute of Microbial Technology
Amity University Uttar Pradesh, Noida, UP

CO-CONVENER

Dr. Durlov Saikia

Assistant Professor
University of Science & Technology
Ri- Bhoi, Meghalaya



AMITY UNIVERSITY
UTTAR PRADESH



UNIVERSITY OF SCIENCE AND
TECHNOLOGY, MEGHALAYA

National Conference on IPR in Bio Sciences for Scientists from North-East Indian States

July 21 to 23, 2015

**Venue: Conference Hall, University of Science and Technology,
Meghalaya**

Agenda

| 21st July, 2015 | Session/ Speaker | Title of Talk |
|-----------------------------------|--|--|
| 09:30-11:00 hrs | Registration & Networking Tea | |
| 11:00-11:45 hrs | Inauguration | |
| 11:45-12:00 | Tea | |
| Technical Session I | IPR in Biosciences: Background and Importance | |
| 12:00-12:45hrs | Plenary Lecture 1 Dr. Abha Agnihotri , Head Centre for Agricultural Biotechnology & Prof. Amity Institute of Microbial Technology, Amity University Uttar Pradesh, Noida | The Genesis and Overview of IPR Regime in India |
| 12:45-13.30 hrs | Key Note Address Dr PG Rao , Vice Chancellor, University of Science & Technology, Meghalaya | The Need and Status of IP in Indian Education System |
| 13.30- 14.30 hrs | Lunch | |
| Technical Session II | Traditional knowledge and Nutraceuticals | |
| 14.30-15:15 hrs | Plenary Lecture 2.1 Prof. N C Talukdar , Director, Institute of Advanced Study in Science and Technology, DST, Govt. of India, Guwahati | Traditional Knowledge Based Drug Discovery- North East India Context |
| 15.15-16.00 hrs | Plenary Lecture 2.2 Dr. Sadhna Srivastava , Scientist 'E' ICMR, Ministry of Health & Family Welfare, New Delhi | Emerging Issues of IPR in Nutraceutical and Traditional Knowledge |
| 16.00- 16.15 | Tea | |
| 16.15-17:00 hrs | Lead Lecture 2.1 Dr. Pronobesh Chattopadhyay , Scientist 'E', Defence Research Laboratory, DRDO, Tezpur | Need for IP Protection in Herbal Pharmaceutical |

| | | Industry |
|-----------------------------------|---|--|
| 22nd July, 2015 | | |
| Technical Session III | Biodiversity, GI and PPV& FR | |
| 10:00- 10:45 hrs | Plenary Lecture 3 Dr. Hanchinal , Chairperson, PPV&FRA Ministry of Agriculture, Govt. of India | Plant Diversity Conservation and Intellectual Property Rights |
| 10:45-11.30 hrs | Lead Lecture 3.1 Dr Jyoti Datta , Professor, Veterinary College, Guwahati | GI and Potentials in the North-East |
| 11:30- 11:45 hrs | Tea | |
| 11:45- 12:30 hrs | Lead Lecture 3.2 Dr. Mukul Kumar , Associate Professor, College of Horticulture and Forestry, Central Agricultural University, Pasighat, AP | Relevance of PPV&FR act under Agricultural Scenario of North East States of India |
| 12:30-13:15 hrs | Lead Lecture 3.3 Dr. Ramachandra Laha , Professor and Dean, School of Life Science, Mizoram University | Biodiversity of Plants in North East India |
| 13.15-14:15 hrs | Lunch | |
| Technical Session IV | IPR in Bio Sciences and Allied areas | |
| 14.15-15:00 hrs | Plenary Lecture 4 Dr. Amit Kharkwal , Dy. Director & Head, Amity Institute of Microbial Technology, Amity University Uttar Pradesh, Noida | Rootonic: A Case Study in Microbial Technology Commercialization & IP issues |
| 15.00-15.45 hrs | Lead Lecture 4.1 Dr. Pritom Chowdhury Toklai Tea Research Institute, Jorhat | Scenario of IPR Protection in Drug Development: Regulation and Product Patents |
| 15.45- 16.00 | Tea | |
| 16.00-16:45 hrs | Lead Lecture 4.2 Dr Kshitij Kumar Singh , Assistant Professor Amity Institute of Advanced Legal Studies Amity University Uttar Pradesh, Noida | IP Issues in Biotechnology: India and EU Countries |
| | | |

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|--|---|---|
| <p>23rd July, 2015</p> <p>Technical Session V</p> <p>10:00- 10:45 hrs</p> <p>10:45-11.30 hrs</p> <p>11:30- 11:45 hrs</p> <p>11:45- 12:30 hrs</p> <p>12.30-13:00 hrs</p> <p>13.00-13:30 hrs</p> | <p>Technology Development and Management</p> <p>Plenary Lecture 5 Dr. Shashank Mauria, ADG, IPR&TM, ICAR, Krishi Ansandhan Bhawan, New Delhi</p> <p>Lead Lecture 5.1 Mrs. Alaka Sengupta, Scientist ‘F’ CSIR- NEIST, Jorhat</p> <p>Tea</p> <p>Lead Lecture 5.2 Dr. Pritom Deb, Coordinator, TU, IPR Cell, Toklai Tea Research Institute, Jorhat</p> <p>Interactive session: questions and answers</p> <p>Valedictory Function & Recommendations</p> <p>Lunch</p> | <p>Intellectual Property and Technology Management in Agriculture- Indian Perspective</p> <p>Emerging Role of IP Management</p> <p>Weaving Intellectual Property Rights in Creativity, Knowledge Creation, Innovation and Technology Management</p> |
|--|---|---|

**Summary of the
National Conference on IPR in Bio Sciences for Scientists from North- East Indian
States**

Date: 21st to 23rd July 2015

Jointly organized by



AMITY UNIVERSITY
UTTAR PRADESH



UNIVERSITY OF SCIENCE AND
TECHNOLOGY, MEGHALAYA

Venue: Conference Hall, University of Science and Technology, Meghalaya

DAY I: 21st July 2015

Technical Session I on IPR in Biosciences: Background and Importance

- **Dr. Abha Agnihotri**, Head, Centre for Agricultural Biotechnology, AIMT, Amity University Uttar Pradesh, and Convener of the conference, in her opening remarks introduced and described about motto of the conference. She said that during the conclusion and recommendation of the Indo-US conference on IPR organized by Amity University in January 2014, it was emphasized that there is a need to hold more such conferences at regular intervals for better awareness and understanding of IP issues by scientists and researchers. A need was felt to organize location specific conferences at diverse locations, especially for those working in remote areas, giving rise to the genesis of the present conference for the benefit of researchers and scientists from north east states of our country. She presented her thoughts on *The genesis & overview of IPR Regime in India* where she talked about Trade Related Intellectual Property Rights, GATT & WTO policies & agreements, different forms of IPRs and its relevance, including the societal use of these rights for economic development of country. She also mentioned about various organizations that generate IPR knowhow & provide assistance in IP filing.

- A lecture on *IPR in Biosciences and its importance & need in education system* was delivered by **Dr. P.G. Rao**, Vice Chancellor, USTM where he highlighted the status of knowledge system in terms of IPR mostly in higher education sectors and R&D organizations. He argued that there is a much need of issues like IPR to be included in academic syllabi that promote and provide a proper channel of scientific research following the strict ethical norms.

Technical Session II on Traditional knowledge and Neutraceuticals

- **Prof. N.C. Talukdar**, Director, IASST, Guwahati delivered his lecture on *Traditional knowledge based drug discovery-North East India context* where he highlighted the potentials of drug discovery from plants in NE Region and how plant resources have been used by ethnic communities in their traditional way, generation after generation.

He shared his experience in Manipur how their team tried to convince tribal people with proper legal processes to know about the source & purpose of various plants whose products are sold as drug in local markets. He also highlighted the medicinal importance of many other wild plant species.

- **Dr. Sadhana Srivastava**, Scientist 'E', ICMR, Ministry of Health & Family Welfare, New Delhi delivered a talk on *Issues of IPR in Neutraceutical and Traditional Knowledge and related concerns* where she highlighted the significance of Traditional Knowledge specially in a country like India and various forms of IP protection for TKs. She also highlighted scenario of nutrition in India & about the Neutraceuticals products available in the market. She elaborated on the development & commercialization of Neutraceuticals products with IP norms and some strategies for how to change the trend in patenting Neutraceuticals.
- **Dr. Pronobesh Chattopadhyay**, Scientist 'E', Defence Research Laboratory, (DRDO) Tezpur spoke about the *Need for IP protection in Herbal Pharmaceutical Industry* where he highlighted the status of Vedic herbal medicines in present day context & how Indian ethno medicines are based on the Vedic knowledge. During his lecture he briefly described about the Abbreviated New Drug Application & its effect; the process of application for grant of approval & testing; Clinical & Unethical clinical trials in India.

DAY II: 22nd July 2015

Technical Session III on Biodiversity, GI and PPV& FR

- **Dr. Atul Sharma**, Deputy Registrar, PPV&FR, Guwahati gave a talk on *Plant Diversity Conservation and IPR* where he explained about the objectives of PPV&FR Act, 2001 for protection of plant varieties in the country, that protects plant breeder's right & also accelerate seed industry with overall agricultural development of the country. He spoke on behalf of Dr. RR Hanchinal, Chairperson, PPV&FRA, Ministry of Agriculture; Govt. of India, who could not join the conference due to other official commitment. Dr Sharma presented the general functions & processes of the authority and explained the farmers, breeders and researchers rights under the act. He briefly explained different plant varieties of the country and its documentation process. He finally concluded his lecture by discussing Plant Variety Protection Appellate Tribunal.
- **Dr. Jyoti B. Datta**, Professor, Veterinary College, Assam Agricultural University, Guwahati delivered a speech on *GI and Potentials in the North-East* where she discussed on the purpose, scope, provisions and rationalization of GI & GI scenario in India. She beautifully explained the benefit of GI registration & Indian GI Act, 1999. During her lecture she explained about the recent developments made in this field. She concluded her presentation highlighting the GI potentials & resources in NE states.

- **Dr. Mukul Kumar**, Associate Professor, College of Horticulture and Forestry, Arunachal Pradesh talked about *Relevance of PPV&FR act under Agricultural Scenario of North East States of India* where he discussed the need of IPRs, the unfair trade practices & reason for introduction of PPV&FR Act. He showed the registerable plant varieties in India & discussed about the GI related to Darjeeling Tea, Nagpur Orange, Kashmiri Saffron, etc. He also discussed about the Convention of Biological Diversity & Implementation of BD Act.

Technical Session IV on IPR in Bio Sciences and Allied areas

- **Dr. Amit C. Kharkwal**, AIMT, Amity University Uttar Pradesh gave a talk on the *IP issues in microbial technology commercialization* where he explained about inventions in microbial technology and Indian Patent Act. He gave a detailed description of the significance and development of innovations in novel root endophyte i.e., *Piriformospora indica* resulting in the product development- Rootonic: its beneficial effects, various product patents based on rootonic, including one under PCT and technology transfer.
- **Dr. Pritom Chowdhury**, Technical Officer, Toklai Tea Research Institute, Jorhat gave a presentation on *Scenario of IPR protection in Drug Development: Regulation and Product Patents* where he explained about the IPRs in medical technology innovations & regulatory system. He discussed about the patent of synthetic drugs & natural products in India & abroad. He also mentioned that research is the key to innovation & IPR protection is the best possible way to reward the innovator. He concluded his talk by proposing a moral & ethical two way networking system from researcher to common people via. Government agencies & commercial organizations. He also argued that more active research has to be conduct on TK system.
- **Dr. Kshitij Kumar Singh**, Amity Institute of Advanced Legal Studies, Amity University Uttar Pradesh, presented his thoughts on *IP issues in biotechnology: India and EU countries* where he elaborately talked about the legal issues associated with biotechnological R&D activities. He explained various issues like traditional doctrines, genomics & bioinformatics, efficiency, novelty, discovery and invention, ethical and moral objections in this regards. He concluded his lecture by elaborating the legal procedures and patent practices of IPRs in India & EU countries.

DAY III: 23rd July 2015

Technical Session V on Technology Development and Management

- **Dr. Shashank Mauria**, ADG, ICAR, New Delhi gave the Plenary lecture on *Intellectual property and technology management in agriculture- Indian Perspective* where he discussed and explained about the farming management system of the country. Focusing on the traditional farming system of the villages of India, very nicely he showed the painful story of the farmers of the country. He discussed the proper procedure of IPRs in agricultural sectors, the errors & faults associated in the process

with their pros and cons. Very thoroughly he also explained the policies related to the IPRs for utilization, production and conservation of biological resources of the country. He highlighted the future foundations of ICAR and concluded his lecture by providing a networking plan for NE Region of the country.

- **Dr. Pritom Dev**, Intellectual Property Cell, Tezpur University on *Weaving IPR in creativity, knowledge creation, innovation and technology management*. In his talk he briefly highlighted the management strategies particularly in the field of biotechnology and others subjects as well. He mentioned that innovation is the key driver to the future in terms of ideation, realization and for societal benefits. He also showed the 5Ps Model (Promise to Practice to People at Purchasable Prices). He strictly mentioned that innovation is linked to market product in a cyclic manner. Explaining the tools & parameters of innovation technology, he discussed the management of IPR technology under The Knowledge Canopy. He stressed on proper documentation, maintaining and updating of management of IPR. He also highlighted some of the important problems associated with IPR in India. Finally he concluded his lecture highlighting the initiatives taken by the IPR Cell at Tezpur University for the protection of various resources of the region.
- The valedictory session was chaired by **Dr. P.G. Rao**, Vice Chancellor, USTM. In his valedictory speech he focused on Protection of IPRs and IPR Management where he appealed to protect the resources & utilize its products for benefit of the society. In long term process it is the society that is affected by any rules & regulations. With the proposal of **Dr. Shashank Mauria**, ADG, ICAR, New Delhi the members unanimously took a resolution that a special core group should be formed to create awareness about IPR in Northeastern region of the country.
- The conference was attended by 84 participants including 13 resource persons. Fourteen key note/ plenary lectures were delivered covering all aspects of intellectual property rights. The conference was concluded with presentation of summary of proceedings by Mr. S Changmai and vote of thanks by Dr. Manash J Nath, USTM, Meghalaya.

The Assam Tribune

77 YEARS OF SERVICE TO THE NATION

PUBLISHED SIMULTANEOUSLY FROM GUWAHATI & DIBRUGARH

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Meet on IPR in bio sciences begins

STAFF REPORTER

GUWAHATI, July 21: A three-day national conference on 'Intellectual Property Rights (IPR) in Bio Sciences for Scientists from North East Indian States' got under way at the University of Science and Technology Meghalaya (USTM) on the outskirts of Guwahati on Tuesday.

Organised by Amity University, Noida, Uttar Pradesh in collaboration with USTM, the conference is sponsored by the Indian Council for Agricultural Research (ICAR) and Indian Council of Medical Research (ICMR). About 100 scientists, research scholars, teachers and students are taking part

in the conference.

Delivering the inaugural address, Dr Abha Agnihotri, head of the Centre for Agricultural Biotechnology, said that while taking part in national seminars and meetings on matters relating to IPR, it was noticed that the participation of scientists and stakeholders from Northeast India in all such events was very minimal. To address this issue, this national conference has been organised in the Northeast itself so that a large number of participants can benefit from it.

In his welcome address, Dr PG Rao, Vice Chancellor of USTM, dwelt upon the need for creating more awareness about IPR among students and faculty members of Indian universities and insti-

tutions of higher and technical education.

Eminent scholars who addressed the plenary sessions on the first day of the conference were Prof NC Talukdar, Director, IASST, Guwahati; Dr Sadhna Srivastava, scientist, Ministry of Health & Family Welfare, Government of India; and Dr Pronobesh Chattopadhyay, Scientist, Defence Research Laboratory, DRDO, Tezpur, said a statement.

Many more eminent scientists and experts in the field of research and IPR will address the conference during the coming two days touching upon issues such as plant diversity conservation and IPR, GI and potentials in the Northeast, and relevance of PPV and FR Act under agricultural scenario of NE States, etc.

The Assam Tribune

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Price Rs. 6.00

Experts for formation of core group

STAFF REPORTER

GUWAHATI, July 23: Bio Science experts and technocrats from across the country, who had gathered for the three-day national conference on 'Intellectual Property Right in Bio Sciences for Scientists from North East Indian States' at the University of Science and Technology Meghalaya (USTM), unanimously took a resolution that a special core group should be set up for creating awareness about IPR in the North East.

The resolution was taken so that students, researchers, scholars and all other end users of technology could derive maximum benefit from it. This resolution came during the valedictory session of

the conference held on Thursday. In his presidential remarks, Dr PG Rao, VC of USTM, suggested that the core group could function from Guwahati and experts from ICAR, ICMR, Central-State-Private universities

Bid to create awareness about Intellectual Property Rights

could be its members.

On the concluding day, Dr Shashank Mauria, Additional Director General, ICAR New Delhi, deliberated on 'Intellectual Property and Technology Management in Agriculture - Indian Perspective.' He explained the economic values of different ecosystem services

and efforts of ICAR in the endeavour for cataloguing these values.

Dr Pritom Deb, coordinator of the IPR Cell at Tezpur University, spoke on 'Weaving Intellectual Property Rights in creativity, knowledge creation, innovation and technology management.' He gave a detailed description of the initiative undertaken by the Tezpur University in ensuring IPR of the *muga* and *mukha* designs of the Lakhimpur district.

Dr Jyoti B Dutta of Assam Agricultural University; Dr Abha Agnihotri of Amity University, UP; Dr Amit Kharkwal of AIMT; and Dr Mukul Kumar of the Central Agricultural University, Pasighat, also spoke on the concluding day of the meet, said a statement.



**National Conference on IPR in Bio Sciences for Scientists from North- East
Indian States**

July 21 to 23, 2015

Participants list

| SL. NO. | NAME OF PARTICIPANT | DESIGNATION | ORGANIZATION/ ADDRESS |
|---------|-------------------------|------------------|--|
| 01 | Pankaj Das | Subject teacher | Ideal Academy, Jr. College, Nalbari, Assam |
| 02 | Ritu Parna Mahanta | Asst. Professor | Dakshin Guwahati B.Ed College, Guwahati |
| 03 | Maitrayee Chakravarty | Asst. Professor | Bilasipara College, Dhubri district, Assam |
| 05 | Kishore Kumar Bharali | Asst. Professor | Arya Vidyapeeth College, Guwahati |
| 06 | Arup Nama Das | Asst. Professor | Dept of Zoology, University of Science & Technology, Meghalaya |
| 07 | Bandana Deka | Asst. Professor | Dept of Zoology, SBNS College, Sualkuchi, Assam |
| 08 | Madulika Dutta | Asst. Professor | Dept of Chemistry, CNB College, Bokakhat, Assam |
| 09 | Ningo Mbam Ibungo Singh | Ph.D Scholar | Bashikhong, Manipur |
| 10 | Dr. Buddhadeb Das | Sr. Scientist | Tocklai Tea Research Institute, Jorhat, Assam |
| 11 | Mempuli Pegu | Research Scholar | Khanapara Lakhi nagar, near SIRD office, Guwahati |
| 12 | Alakesh Roy | Research Scholar | Morigaon college, Morigaon, Assam |
| 13 | Md. Mukutor Rahman | Research Scholar | Regional Institute of Science & Technology, Meghalaya |
| 14 | Prafulla Saikia | Research Scholar | Nagaon GNDG Commerce College, Nagaon, Assam |

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|----|-----------------------|-----------------------------------|--|
| 15 | Dr. Deboja Sharma | Asst. Professor | University of Science & Technology, Meghalaya |
| 16 | Dr. Bulbul Acharjee | Asst. Professor | University of Science & Technology, Meghalaya |
| 17 | Chitrallekha Kataki | Asst. Professor | University of Science & Technology, Meghalaya |
| 18 | Mrinmoy Das | Asst. Professor | University of Science & Technology, Meghalaya |
| 19 | Shyamanta Boro | Asst. Librarian | University of Science & Technology, Meghalaya |
| 20 | Nurul Islam Laskar | Director, CC, ERDF, & PhD scholar | University of Science & Technology, VIP Road, Guwahati- 36, Assam |
| 21 | Dr. Durlav Saikia | Asst. Professor | University of Science & Technology, Meghalaya |
| 22 | Gautam Gogoi | Asst. Professor | University of Science & Technology, Meghalaya |
| 23 | Sonal Roy | Research Scholar | University of Science & Technology, Meghalaya |
| 24 | Pankaj Jyoti Hazarika | Research Scholar | Sibsagar Commerce College, Sibsagar, Assam |
| 25 | Bikramaditya Barman | Teaching Assistant | University of Science & Technology, Meghalaya |
| 26 | Hemen Sarma | Research Scholar | Madhya Kampeeth College, Borka, Kamrup Rural District, Assam |
| 27 | Md. Ayez Ali | Associate Professor | Pub Kamrup College, Baihata Chariali, Kamrup Rural District, Assam |
| 28 | Probin Phanjom | Asst. professor | University of Science & Technology, Meghalaya |
| 29 | Muntasir Mustab Ahmed | Research scholar | University of Science & Technology, Meghalaya |
| 30 | Dr. Bhakhtiar Hussain | Associate Professor | University of Science & Technology, Meghalaya |

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|----|-------------------------|-----------------------------|--|
| 31 | Dr. Bhabananda Baruah | Associate professor | University of Science & Technology, Meghalaya |
| 32 | Dr. Milurani Das | Asst. professor | University of Science & Technology, Meghalaya |
| 33 | Dr. subhasis Roy | Asst. professor | University of Science & Technology, Meghalaya |
| 34 | Dr. Arnab Sen | Head, Div. of Animal Health | ICAR, Borapani, Meghalaya |
| 35 | Dr. Anjani Kr. Sen | Sr. Scientist, (Horti) | ICAR, Borapani, Meghalaya |
| 36 | Dr. Samir Das | Scientist | Animal Health, ICAR, Meghalaya |
| 37 | Dr. Jai Prakash Tyagi | Sr. Scientist | Plant Breeding, ICAR, Meghalaya |
| 38 | Dr. S. I. Bhuyan | Asst. Professor | University of Science & Technology, Meghalaya |
| 39 | Shabiha Nudrat Hazarika | Asst. Professor | University of Science & Technology, Meghalaya |
| 40 | Resume Boro | Asst Professor | University of Science & Technology, Meghalaya |
| 41 | Zacharias Tirkey | Asst Professor | University of Science & Technology, Meghalaya |
| 42 | Swapnali Saikia | Research Scholar | University of Science & Technology, Junali RGB Road, Guwahati |
| 43 | Derajul Hussain | Research Scholar | University of Science & Technology, K. B. Road, Lakhimpur, Assam |
| 44 | Sikha Sarma | Research Scholar | Kanya Mahavidyalaya, Geetanagar, Guwahati, Assam |
| 45 | Daisy Deka | Research Scholar | University of Science & Technology, Milan Nagar, Barpeta, Assam |
| 46 | Tahmina Begum | Research Scholar | College of Education, Christianbasti, Guwahati Assam |
| 47 | Bhanu Prabha Goyary | Research Scholar | College of Education, Boko, Kamrup, Assam |

| | | | |
|----|---------------------------|------------------------------|---|
| 48 | Sarojini Das | Research Scholar | Abhayaswari H. S. & M. P. School, Bongaigaon, Assam |
| 49 | Amellina. G. Momin | Research Scholar | Associate Professor, Mendipathar College, Meghalaya |
| 50 | Dr. S. C. Das | Dean, SOBS | University of Science & Technology, Meghalaya |
| 51 | Debasish Borah | Asst. Professor | University of Science & Technology, Meghalaya |
| 52 | Palme Borthakur | Asst Professor | University of Science & Technology, Meghalaya |
| 53 | Pallabi Hazarika | Asst. Professor | University of Science & Technology, Meghalaya |
| 54 | Dr. G. Palit | Asst Professor | University of Science & Technology, Meghalaya |
| 55 | Dr. Asad Ali | Asst. Professor | University of Science & Technology, Meghalaya |
| 56 | Rizual Karim | Asst Professor | University of Science & Technology, Meghalaya |
| 57 | Dr. Manash Jyoti Nath | Asst Professor | University of Science & Technology, Meghalaya |
| 58 | Shamikhu Changmai | Asst Professor | University of Science & Technology, Meghalaya |
| 59 | Angshuman Dutta | Asst Professor | University of Science & Technology, Meghalaya |
| 60 | Md. Tajuddin | Research Scholar | University of Science & Technology, Meghalaya |
| 61 | Mehbubun Rahman Choudhury | Research Scholar | University of Science & Technology, Meghalaya |
| 62 | Dipankor Gogoi | Student, 4 th Sem | University of Science & Technology |
| 63 | Anindita Das | Student, 2 nd Sem | University of Science & Technology |
| 64 | Akoi Yommin | Student, 4 th Sem | University of Science & Technology |
| 65 | Dibakar Borgohain | Teaching Asst | University of Science & Technology |

| | | | |
|----|---------------------|------------------------------|------------------------------------|
| 66 | Fahmida Saheen Bora | Asst Professor | University of Science & Technology |
| 67 | Dr. Gautam Sharma | Asso. Professor | University of Science & Technology |
| 68 | Jyotirmoy Saikia | Student, 4 th Sem | University of Science & Technology |
| 69 | Likha Tadh | Student, 4 th Sem | University of Science & Technology |
| 70 | Mohibul Hoque | Student, 4 th Sem | University of Science & Technology |
| 71 | Kago Gyaro | Student, 4 th Sem | University of Science & Technology |

National Conference on IPR in Bio Sciences for Scientists from North- East Indian States
July 21 to 23, 2015

PHOTOGRAPHS



**Lighting the lamp: Dr. PG Rao, VC USTM; Dr. Abha Agnihotri, AUUP;
Dr. Sadhana Srivastava, ICMR; Dr. Amit Kharkwal, AUUP; Dr. Jyoti B Datta, AAU**



**Dr. Sadhana Srivastava, IPR Unit, ICMR, Ministry of Health & Family Welfare, New
Delhi, being felicitated**

National Conference on IPR in Bio Sciences for Scientists from North- East Indian States
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Dr. PG Rao, Vice Chancellor USTM delivering the keynote address



Dr. Abha Agnihotri, Head CAB & Professor AIMA, Amity University Uttar Pradesh, Noida, being felicitated

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Dr. NC Talukdar, Director, IASST, DST delivering a plenary lecture



Dr. Pronobesh Chattopadhyay, Defence Research Laboratory, DRDO Tezpur, delivering a lead lecture

National Conference on IPR in Bio Sciences for Scientists from North- East Indian States
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Dr. AC Sarma, Deputy Registrar, PPV&FRA, Guwahati, delivering a plenary lecture



Dr. Jyoti B Datta, College of Veterinary Science, Assam Agricultural University, delivering a lead lecture

National Conference on IPR in Bio Sciences for Scientists from North- East Indian States
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Dr. Amit C Kharkwal, Dy. Director & Head, AIMS, Amity University Uttar Pradesh, Noida, being felicitated



Dr. Pritom Chowdhury, Bio-technologist, Toklai Tea Research Institute, Jorhat, delivering a lead lecture

National Conference on IPR in Bio Sciences for Scientists from North- East Indian States
July 21 to 23, 2015



Dr. Kshitij K Singh, AIALS, Amity University, Noida delivering a lead lecture



Dr. Shashank Mauria, ADG, IP & TM, ICAR delivering plenary lecture

National Conference on IPR in Bio Sciences for Scientists from North- East Indian States
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Dr. Shashank Mauria, ADG, IP & TM, ICAR being felicitated



Panel discussion by resource persons

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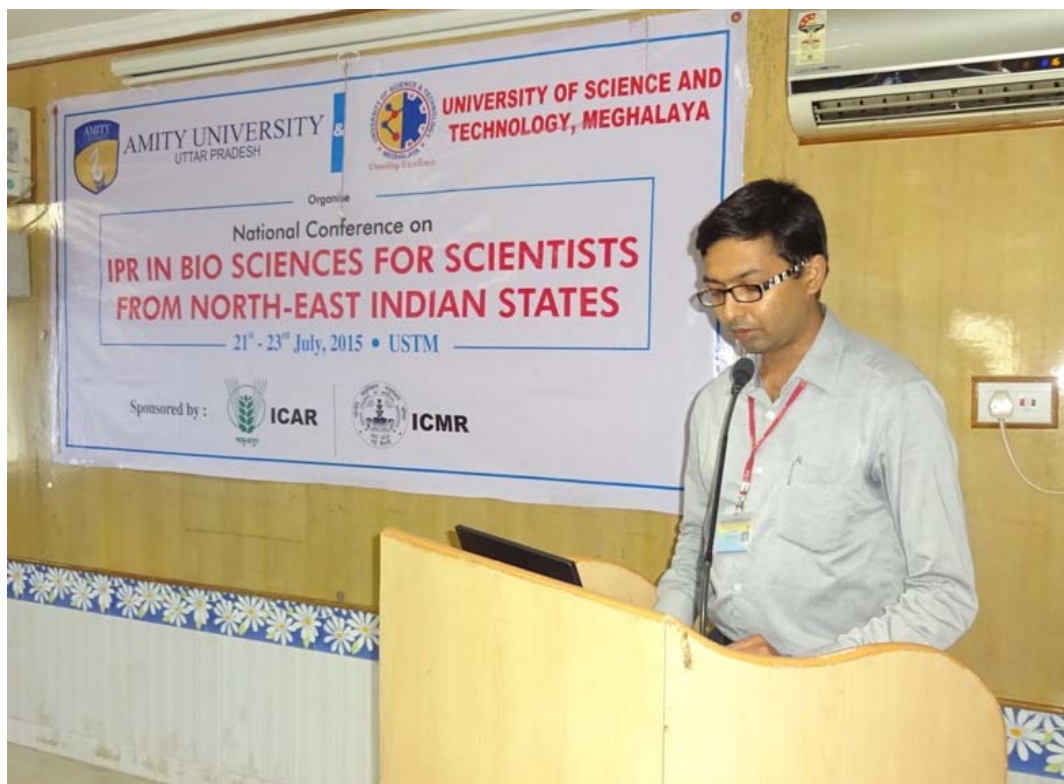


Valedictory session in progress



Mr. S Changmai, USTM, presenting the summary of the proceedings

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July 21 to 23, 2015



Dr. Manash J Nath, USTM, proposing vote of thanks



Ms. P Hazarika, Dr. JB Datta, Dr. MJ Nath, Dr. A Agnihotri, Dr. S Mauria, Dr. PG Rao, Dr. AC Kharkwal, Dr KK Singh, Dr. P Deb, Ms. P Borthakur

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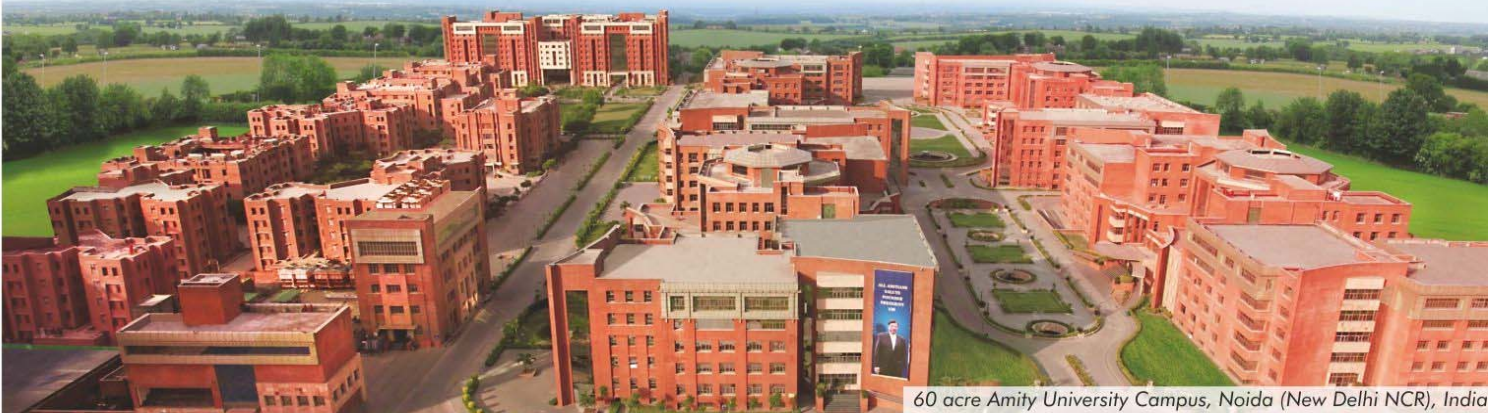
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