



**BRIC**  
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**IBSD**  
Promoting Bioresources



# 11th Convention

## Society for Ethnopharmacology, India

### [SECON 2024]



International Conference on  
“Bioeconomy from Bioresources:  
Promoting Traditional Resources of NER for Viksit Bharat”

**November 15-16, 2024**

*Organized by*

**BRIC-Institute of Bioresources and Sustainable Development  
(BRIC-IBSD)**  
[www.ibsd.gov.in](http://www.ibsd.gov.in)

**&**

**Society for Ethnopharmacology, India  
(SFE, India)**  
[www.ethnopharmacology.in](http://www.ethnopharmacology.in)



## PROGRAMME SCHEDULE



**Venue: Chintan Bhawan, Gangtok, Sikkim, India**



# 11<sup>th</sup> Convention

## Society for Ethnopharmacology, India



*International Conference on*  
**“Bioeconomy from Bioresources:  
 Promoting Traditional Resources of NER for Viksit Bharat”**  
 November 15-16, 2024

Chintan Bhawan, Gangtok, Sikkim, India

### TENTATIVE PROGRAM SCHEDULE

#### DAY 1: Friday: November 15, 2024

Registration: 08:30 – 9:30 AM

#### HALL 1: INAUGURATION OF THE INTERNATIONAL CONFERENCE & INAUGURAL LECTURES: 10:00 – 11:30 AM

10:00 – 10:05 AM

LIGHTNING OF THE INAUGURAL LAMP

10:05-10:15 AM

*Welcome Address:*

**Prof. Pulok K. Mukherjee**, Director, BRIC-Institute of Bioresources and Sustainable Development (BRIC-IBSD)

**“Bioeconomy from Bioresources:  
 Promoting Traditional Resources of NER for Viksit Bharat”**

10:15 – 10:45 AM

*Inaugural Lecture:*

**Dr Rajesh S. Gokhale**, Secretary, Department of Biotechnology, Government of India, New Delhi

**“Bioeconomy for Viksit Bharat – BioE3 Policy”**

10:45 – 10:50 AM

*Address by:*

**Vaidya Rajesh Kotecha**, Secretary, Ministry of AYUSH, Government of India, New Delhi

10:50 – 10:55 AM

*Address by:*

**Shri Vishvajit Sahay**, Additional Secretary & Financial Adviser, Dept. of Biotechnology, Govt. of India, New Delhi

10:55 – 11:00 AM

*Address by:*

**Prof. J P Tamang**, Vice Chancellor (i/c), Sikkim University Gangtok, Sikkim

11:00 – 11:05 AM

*Address by:*

**Dr. C K Katiyar**, Vice President, Society for Ethnopharmacology (SFE), India

11:05-11:20 AM

*Keynote Addresses by:*

**Dr. Rabinarayan Acharya**, Director General, CCRAS, Ministry of AYUSH, Government of India, New Delhi

**“Ayurveda and the Bioeconomy: Harnessing Traditional Knowledge for Sustainable Development ”**

11:20 – 11:40 AM

**Prof. Rudolf Bauer**, Professor, Institute of Pharmaceutical Sciences, Dept. of Pharmacognosy, Karl-Franzens-Universität Graz, Graz, Austria.

“Why we have overlooked active principles in Ethnopharmacological Research”.

11:40 AM – 11: 45 AM

*Vote of thanks:*

**Dr. Lokesh Deb**, Organizing Secretary, SECON 2024, Scientist, BRIC-IBSD

**NATIONAL ANTHEM**

### HALL 1: Scientific Lecture Session I: 11:45 AM – 01:00 PM

#### *Chairpersons:*

**Dr. Debsish Das**, Director, BRIC-ILS, Bhubaneswar, India

**Dr. Rawiwan Charoensup**, Associate Professor, Applied Thai Traditional Medicine, Mae Fah Luang University, Chiang Rai, Thailand

Speaker	Title
<b>Dr. Suraksha S. Diwan</b> Scientist -F, NER (Scientific Decision Unit) Department of Biotechnology, Govt. of India, New Delhi, India	“Biotechnological interventions for bioresources development in the North-eastern region through DBT-NER Division”
<b>Dr. Dulal Panda</b> Director NIPER-Mohali Mohali, Punjab, India	“Natural products as anticancer drugs
<b>Professor Ullas Kolthur-Seetharam</b> Director Centre for DNA Fingerprinting and Diagnostics (CDFD), Hyderabad, India.	Translating basic discoveries to national missions: Gaganyaan and Malnutrition

### HALL 2: Scientific Lecture Session II: 11:30 AM – 01:00 PM

#### *Chairperson:*

**Dr. T K Mukherjee**, Former Scientist, CSIR-NISCAIR, New Delhi

**Dr. Nihar Ranjan Bhuyan**, Principal, Himalayan Pharmacy Institute, Majitar, Sikkim

Speaker	Title
<b>Dr. Debajit Mahanta</b> Director Centre for Bioresources and Sustainable Development Kimin, Arunachal Pradesh	Advancing Bioeconomy through Sustainable Utilization of Bioresources in Arunachal Pradesh
<b>Dr. Evelyn Wolfram</b> Professor Zurich University of Applied Sciences Wädenswil, Switzerland	“Future Perspectives on Natural Remedies – From Traditional knowledge to quality and evidence in the digital age”
<b>Dr. Lalchandami Tochwang</b> Principal Scientific Officer, Mizoram Science, Technology and Innovation Council, Aizawl, Mizoram, India	Bioprospecting Medicinal Plants in Mizoram: Focus on Anti-Cancer Properties
<b>Dr. Dilip Ghosh</b> Director Nutriconnect Sydney, Australia	Unlocking the ageing process: ‘Ashwagandha’ for Vitality, Stress, Sleep and Cognitive Enhancement



### HALL 3: Flash Talk Session I: 11:30 – 01:00 PM

[Max. 20 presentations] Approx... @3+1 min/ presentation

**Dr. Asis Bala**, Associate Professor, IASST, Guwahati, India

**Dr. Thidarat Duangyod**, Assistant Professor, Medicinal Plants Innovation Centre, School of Integrative Medicine, Mae Fah Luang University, Chiang Rai, Thailand

**Dr. Pravaree Phuneerub**, Assistant Professor, Medicinal Plants Innovation Centre, School of Integrative Medicine, Mae Fah Luang University, Chiang Rai, Thailand

**Dr. Pramod HJ**, Coordinator, SFE Belgaum Local Chapter & Head-Pharm. Biotechnology KLE University, Belgaum, Karnataka, India

**Dr. Subhadip Banerjee**, School of Natural product Studies, Jadavpur University, Kolkata

**Dr. Gayatri Thapa**, Asst Prof. Himalayan Pharmacy Institute, Majhitar, Sikkim, India

Page | 3

### LUNCH & NETWORKING:

01:00 – 02:00 PM

### HALL 1: Inauguration & SFE- Annual Award Ceremony:

02:00 – 03:00 PM

02:00 – 02:05 PM	<i>Address by:</i> <b>Prof. Pulok K. Mukherjee</b> , Director, BRIC-Institute of Bioresources and Sustainable Development (BRIC-IBSD), Imphal, Manipur.
02:05 – 02:10 PM	<i>Address by:</i> <b>Dr. Rabinarayan Acharya</b> , Director General, CCRAS, Ministry of AYUSH, Government of India, New Delhi
02:10 – 02:15 PM	<i>Address by:</i> <b>Shri Vishvajit Sahay</b> , Additional Secretary & Financial Adviser, Dept. of Biotechnology, Govt. of India, New Delhi
02:15 – 02:20 PM	<i>Address by:</i> <b>Prof. Rudolf Bauer</b> , Professor, Institute of Pharmaceutical Sciences, Dept. of Pharmacognosy, Karl-Franzens-Universität Graz, Graz, Austria.
02:15 – 02:25 PM	<i>Address by:</i> <b>Shri G. T. Dhungel</b> , Hon'ble Minister, Culture Department/ Health & Family Welfare Department, Secretariat, Gangtok, Sikkim
02:25 – 02:35 PM	<i>Address by:</i> <b>Shri Tshering Thendup Bhutia</b> , Hon'ble Minister, Departments of Commerce and Industries, Tourism and Civil Aviation, Gangtok, Sikkim, India
02:35 – 02:55 PM	<i>Address by:</i> <b>Mr. Shri Indraneel Das</b> , Vice President, Society for Ethnopharmacology, India

### SFE AWARD CEREMONY

02:55 – 03:00 PM	<i>Vote of Thanks:</i> <b>Dr. Pardeep K Bhardwaj</b> , Joint Organizing Secretary, SECON 2024 & Scientist, BRIC-IBSD
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## HALL 1. Scientific Lecture Session III: 03:00 – 04:30 PM

### Chairperson:

**Dr. Sandeep Tambe, IFS**, Secretary, Science & Technology Department, Govt. of Sikkim  
Gangtok, Sikkim, INDIA

**Prof. Pallab K Haldar**, Director, School of Natural Product Studies, Jadavpur University, Kolkata

Page | 4

Speaker	Title
<b>Prof. Sanjay Jachak</b> Professor Department of Natural Products NIPER, Mohali S.A.S. Nagar, Mohali, India	“Application of Ayurinformatics and Sophisticated Analytical Techniques in Research and Development of AYUSH Medicines and Natural Products”
<b>Dr. Priya Srinivas</b> Scientist-G & Dean Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram, Kerala, India	Anticancer phytochemicals from <i>Plumbago zeylanica</i> for BRCA1 defective Triple Negative Breast Cancers
<b>Dr. Sanjeeb K Sahoo</b> Scientist-F Institute of Life Sciences (ILS) Bhubaneswar, Odisha, India	Phytonanomedicine: A cutting-edge technology in cancer therapy
<b>Dr. Parichita Saha</b> Scientific Handling Editor Elsevier B.V., Chennai, India	Publishing Your Scientific Work: Ethical Concerns, Generative AI Use, and Leveraging Elsevier’s Article Transfer Service.

## HALL 1: Scientific Lecture Session IV: 04:30 – 06:00 PM

### Chairperson:

**Dr. Arun Bandyopadhyay**, Director, Gujarat Biotechnological University, Gandhinagar, Gujarat, India.

**Dr. Sudip Kumar Dutta**, Senior Scientist (Hort./Fruit Science), ICAR Research Complex of NER Region, Gangtok, Sikkim

Speaker	Title
<b>Dr. Samuel Rai</b> Director Directorate of Cinchona and Other Medicinal Plants Mungpoo, Darjeeling, West Bengal	Present and Future Prospects of Major Medicinal Plants of The Directorate of Cinchona and other Medicinal Plants
<b>Dr. Rawiwan Charoensup</b> Associate Professor Applied Thai Traditional Medicine Mae Fah Luang University Chiang Rai, Thailand	Revolutionizing Thai Herbal Medicine through Research and Innovation
<b>Prof. Sitesh C Bachar</b> Professor Faculty of Pharmacy, University of Dhaka, Dhaka, Bangladesh	Degradation of Andrographolide in <i>Andrographis paniculata</i> Over One Year Storage
<b>Dr. Sayeed Ahmad</b> Professor Faculty of Pharmacy Jamia Hamdard, New Delhi, India	Modern aspects of drug discovery using Ayush: A case study with Phyto-MAP

**HALL 2: Industry Connect: Business Meet**  
**“Dr. Muhammed Majeed Memorial Session” 03:00 – 05:00 PM**

**Shri Vishvajit Sahay**, Additional Secretary & Financial Advisor, Department of Biotechnology, Govt. of India, New Delhi

**Introductory remark & Perspective of the Program:**

**Prof. Pulok Kumar Mukherjee**, Organizing Chairman, SECON 2024 & Director, BRIC-IBSD

**Coordinator: Dr. C K Katiyar**, Vice President, Society for Ethnopharmacology, India

**Shri. Indraneel Das**, Vice President, Society for Ethnopharmacology, India

**Panellist:**

<b>Dr. Anju Majeed</b> Executive Group Chairperson Sami-Sabinsa Group Limited Bangalore, INDIA	<b>Shri Prakash Chettri, SCS</b> Secretary Tourism & Civil Aviation Department Govt. of Sikkim, Gangtok, Sikkim
<b>Shri. M. Ravikumar, IFS</b> Director, MSME, Commerce and Industries Department, Govt. of Sikkim Gangtok, Sikkim, India	<b>Mr. Vallabh Mulay</b> Manager - Research & Tech. Pharmanza Herbal Pvt. Ltd Gujarat, India
<b>Shri K. B. Subba</b> Asst. Scientific Officer Department of Science & Technology Govt. of Sikkim, Gangtok, Sikkim	<b>Dr. R Govindrajan</b> Chief Innovation Officer Kapiva New Delhi
<b>Mrs. Chanda Rani Rai</b> Managing Director Government Food Preservation Factory, Govt. of Sikkim	<b>Shri Tshering Dorjee Gamcho</b> Join Director Department of Industry Govt. of Sikkim Gangtok, Sikkim
<b>Dr. MA Nambi</b> Research Coordinator Care Keralam Thissur, Kerala, India	<b>Dr Lal Hingorani</b> Managing Director Pharmanza Herbal Pvt. Ltd Gujarat, India
<b>Dr. Arvind Saklani</b> Vice President Sami-Sabinsa Group Limited Bangalore, INDIA	<b>Dr. S. Anbalagan, IFS</b> Chief Executive Officer In-Charge of SOFDA Organic Farming, Horticulture Department Govt. of Sikkim, Gangtok, Sikkim, India
<b>Dr. Sandeep Tambe, IFS</b> Secretary Science & Technology Department, Govt. of Sikkim Gangtok, Sikkim, INDIA	<b>Dr. U V Babu</b> Head- Research and Development Himalaya Drug Company Bengaluru, Karnataka
<b>Dr. Subhra Devi</b> Meira Foods Haobam Marak Keisham Leikai, Keisham Leirak, Manipur, India	<b>Dr. Aboli Girma</b> DGM-R&D Natural Remedies Pvt. Ltd., Bangalore, Karnataka, India
<b>Dr. Rawiwan Charoensup,</b> Associate Professor Applied Thai Traditional Medicine, Mae Fah Luang University Chiang Rai, Thailand	<b>Dr. Sanjoy Tamoli</b> Founder & Director Target Institute of Medical Education & Research Mumbai, MH, India
<b>Shri Anish Chakraborty</b> Chairman Seacom Skills University Bolpur, Santiniketan	<b>Dr Suresh L</b> Business head, Natural Remedies Pvt Ltd. Natural Remedies Pvt. Ltd., Bangalore, Karnataka, India

<b>Prof. Sitesh C Bachar</b> Professor Department of Pharmacy University of Dhaka, Bangladesh	<b>Shri Paul C. Rai</b> Entrepreneur Assam Ligzay, East Sikkim
<b>Dr. Teruaki Watanabe</b> TMH Green Pvt Ltd. New Delhi, India	<b>Mr. Vijay Kumar Mangla</b> General Manager – Site Head, Formulation Operations Glenmark Pharmaceuticals Ltd. Ranipool, Gangtok, Sikkim
<b>Mr. Vinod Kumar Nigam,</b> General Manager (Production) Indchemie Health Specialities Pvt. Ltd. Kumrek, Rangpo, East Sikkim	<b>Mr. Om Prakash Yadav</b> General Manager G. K. Burman Herbal & Health Care Jholunge, Maneydara, Sikkim, India
<b>Mr. Vivek Cintury</b> Entrepreneur Nature's gift startup, Majhitar Rangpo, East Sikkim.	<b>Dr. Dinesh Baid,</b> Integrated Finance Division Under Secretary, Department of Biotechnology Govt. of India, New Delhi

## HALL 2: Scientific Lecture Session V: 05:00 – 06:30 PM

### **Chairperson:**

**Prof. A. K. Pandey**, Dean, College of Horticulture, Bermiok, Doring, Sikkim, India

**Shri. Amitavo Das**, Treasurer, Society for Ethnopharmacology, Kolkata, India

Speaker	Title
<b>Dr. Sujit Sarkar</b> Scientist Indian Agricultural Research Institute Regional Station Kalimpong, WB, India	Documentation and Validation of Traditional Knowledge for Sustainable Mandarin Cultivation in Sikkim And Darjeeling Himalaya
<b>Dr. Nishanth</b> Senior-Research Scientist Research & Development, Pankajakasthuri Ayurvedic Medical college & PG Center, Kerala, India	Success in Developing Therapeutics from Location-Specific Ethno- Dermatological Knowledge: Efficacy of Malayali Tribal Plant-Based Herbal Cream and Gel for Wound and Burn Management
<b>Dr. Rajendran Silambarasana</b> Junior-Research Scientist Research & Development Pankajakasthuri Ayurvedic medical College & PG centre, Kerala, India	Network pharmacology and molecular docking-based mechanism study to explore the multitarget pharmacological mechanism of an ayurvedic polyherbal formulation against Chronic Obstructive Pulmonary Disease
<b>Dr. Deshworjit Singh Ningombam</b> Assistant Professor Jadonang Memorial College Pheidekpi, Imphal, Manipur	Ethnomedicinal aspects of some epiphytic orchids in foothills of Himalaya in tea garden area of Dooars region in West Bengal, India.
<b>Dr. Jayanthi Sivaraman</b> Professor Vellore Institute of Technology Vellore, Tamil Nadu, India	Network analysis and autodock based virtual screening for therapeutics in lung cancer
<b>Dr. Somasish Ghosh Dastidar,</b> Associate Professor Kasturba Medical College, Manipal Academy of Higher Education Manipal, Karnataka, India	Noncanonical Drugs Alleviate Neuroinflammation and Improve Motor Function in Parkinson's Disease Model

**Dr. Shiddamallayya N**

Research Officer (Botany) & Nodal Officer  
Medicinal Plant Research Section  
Central Council for Research in Ayurvedic Sciences,  
New Delhi, India

Ethnomedicinal Knowledge Among the  
Population of Unakoti And North Tripura  
Districts of India

**Prof. Rajasekaran Chandrasekaran**

Professor  
School of Bio Sciences and Technology, Vellore  
Institute of Technology  
Vellore, Tamilnadu, India

Impact of micropropagation on conservation  
& sustainability of MAPs – A case study

Page | 7

**Dr. Sanjeeb Kalita**

Scientist,  
Centre of Excellence for Bioresources and Sustainable  
Development  
Kimin, Arunachal Pradesh

Plant Volatile Nanoemulsions Resensitize  
*Pseudomonas aeruginosa* to Benzalkonium  
Chloride

**HALL 3: Young Researcher Competition:****03:00 – 06:00 PM [Max. 25 presentations] @6 +2 min/ presentation**

**Dr. Rudolf Bauer**, Professor, Institute of Pharmaceutical Sciences, Karl-Franzens-Universität Graz,  
Graz, Austria

**Dr. Debprasad Chattopadhyay**, EC Member, Society for Ethnopharmacology, Kolkata, India

**Dr. Sayeed Ahmad**, Professor, Department of Pharmacognosy and Phytochemistry, Jamia Hamdard  
New Delhi, India.

**Dr. Nagendra Thakur**, Head and Associate Professor, Department of Microbiology, Sikkim  
University, Gangtok, Sikkim

**Dr. Ashutosh Pandey**, Scientist, National Institute of Plant Genome Research, New Delhi

**Dr. Sirinan Suwannaporn**, Medicinal Plants Innovation Centre, School of Integrative Medicine, Mae  
Fah Luang University, Chiang Rai, Thailand

**POSTER PRESENTATION SESSION I:****11:30 AM – 01:00 PM****(08 Evaluators)****POSTER PRESENTATION SESSION II:****03:30 AM – 05:00 PM****(08 Evaluators)****CULTURAL PROGRAM: 07:00 – 08:00 PM**

**[Traditional Dances of Sikkim: Lepcha, Bhutia, Maruri, Tamang &  
Solo song performances ]**

**CONFERENCE GALA DINNER:****08:00 – 09:30 PM**



## DAY 2: Saturday: November 16, 2024

### HALL 1: Scientific Lecture Session VI: 09:00 – 10:30 AM

#### Chairperson:

**Dr. B. C Basistha**, Director (Biotechnology Division), Department of Science & Technology and Climate Change, Government of Sikkim, Gangtok, Sikkim

**Dr. Debprasad Chattopadhyay**, EC Member, Society for Ethnopharmacology, Kolkata, India

Page | 8

Speaker	Title
<b>Prof. Mohd. Fahad Alajmi</b> Professor College of Pharmacy King Saud University Saudi Arabia	Development of unambiguous quality standards of Rose oil using nontargeted multivariate analysis
<b>Dr. Rakesh Maurya</b> Former Chief Scientist Medicinal and Process Chemistry Division Central Drug Research Institute Lucknow, India	Application of traditional knowledge in search of potential leads for drug discovery
<b>Dr. Debasis Chattopadhyay</b> Director National Institute of Plant genome Research New Delhi	Genomics based discovery of genes and pathways involved in the biosynthesis of therapeutic compounds in medicinal plants
<b>Dr. Arvind Saklani</b> Vice President Sami-Sabinsa Group Limited Bangalore, India	Potential bioresources in North-East India: opportunity and challenges

### HALL 2: Scientific Lecture Session VI (09:00 – 10:30 PM)

#### Chairpersons:

**Prof. (Dr.) Gauthaman Karunakran**, Principal, Government Pharmacy College, Sikkim

**Prof. Niladri Bag**, Head & Professor, Department of Horticulture, Sikkim University, Gangtok, Sikkim, India

Speaker	Title
<b>Dr Gopala Srinivas</b> Scientist - G & Head Department of Biochemistry Sree Chitra Tirunal Institute for Medical Sciences and Technology, Thiruvananthapuram, Kerala, India	Resveratrol, An Autophagic Activator Augments Substrate-Mediated Mitochondrial Respiration And Efficiency In Cardiac Cells
<b>Dr. Prasoon K. Gupta</b> Principal Scientist, CSIR- Indian Institute of Integrative Medicine Canal Road, Jammu, India.	Discovery of bioactive metabolites from endangered Astavarga plant: <i>Roscoea purpurea</i>
<b>Dr Achintya Mitra</b> Assistant Director (Ay.) / Scientist Regional Ayurveda Research Institute Gangtok, Sikkim, India	Coelogyne Cristata Lindley, A Medicinal Orchid of North East India in Assuagement of Chronic Fatigue Syndrome

**Dr. Roy Upton**

Founder and Executive Director  
American Herbal Pharmacopoeia  
Scotts Valley, USA

The Global Spread of Ayurveda: Lessons from  
Traditional Chinese Medicine.

**Dr. Ashutosh Pandey**

Scientist  
National Institute of Plant Genome Research  
New Delhi, India

Metabolic engineering in food crops for  
enhancing nutritional value and food security

**HALL 1: Flash Talk Session II: 10:30 AM – 11:30 PM**

**[Max. 15 presentations] @4 min/ presentation**

**(5 Evaluators)**

**Prof. Sanjay Jachak**, Professor and Head, Department of Natural Products, NIPER, Mohali, S.A.S. Nagar, Mohali, Punjab, India

**Dr Muhamad Ibrahim**, Vice President Research And Development, Sami-Sabinsa Group Limited Bangalore, India

**Dr. Kalyen Roy**, Associate Professor, Govt Pharmacy College, Sikkim;

**Prof. Herbert Riepl**, Professor, Organic-analytical Chemistry Weihenstephan-Triesdorf university of applied Science, Schulgasse, Germany

**Dr. Rajyalakshmi K**, Head, Department of Pharmaceutical Chemistry, Vignan Pharmacy College Vadlamudi, Guntur, AP

**Dr. Alok Pal Jain**, Professor, Sir Atma Ram Institute of Pharmacy and Technology, Jabalpur, MP, India

**HALL 1: Scientific Lecture Session VII: 11:30 – 01:00 PM****Chairperson:**

**Prof. Subhra Chakraborty**, Former Director, National Institute of Plant Genome Research, New Delhi, India

**Dr. Teruaki Watanabe**, TMH Green Pvt Ltd., New Delhi, India

Speaker	Title
<b>Dr. Sudripta Das</b> Scientist-F, BRIC-IBSD Imphal, Manipur, India	Functional Genomic and Association Analysis of Biosynthetic pathways related to Identified Biochemical Markers for Value Addition by use of Nanoparticles and Artificial Intelligence models
<b>Prof. Rajib Bandyopadhyay</b> Professor Department of Instrumentation and Electronics Engineering, Jadavpur University, Kolkata, India	NIR spectroscopy for the quality evaluation of the natural products.
<b>Dr. Pardeep Kumar Bharadwaj</b> Scientist-E & in-charge BRIC- Institute of Bioresources and Sustainable Development Shillong, Meghalaya, India	Bioeconomy perspective of Panax sokpayensis as potential ginseng resource from Sikkim
<b>Dr. Rajyalakshmi K</b> , Head Department of Pharmaceutical Chemistry, Vignan Pharmacy College Vadlamudi, Guntur, AP	Kalmegh - Traditional Medicine

<p><b>Dr. J. K Shukla,</b> BRIC- Institute of Bioresources and Sustainable Development (IBSD) Shillong, Meghalaya, India</p>	<p>Revitalizing the Critically-Endangered Pluri-Annual Swertia Chirayita Cultivation Through Temporo-Spatial Agro-Technology Advancements and Synergistic Inter-Cropping Strategies In Meghalaya, Northeastern Region of India</p>
<p><b>Dr. Ch. Brajakishor Singh</b> Scientist BRIC-IBSD Sikkim, India</p>	<p>Studies on zingiber zerumbet for its chemical and biological properties</p>
<p><b>Dr. Karma G. Dolma</b> Associate Professor, Microbiology Department Sikkim Manipal Institute of Medical Sciences Sikkim Manipal University, Tadong, Gangtok, India</p>	<p>Surveillance of Foodborne pathogens in Northeast India: Sikkim Chapter</p>
<p><b>Dr. Lokesh Deb</b> Scientist-E BRIC- Institute of Bioresources and Sustainable Development (IBSD) -Regional Centre Gangtok, Sikkim, India</p>	<p>Traditional healthcare Practices of Sikkim Himalayas for treating Jaundice</p>
<p><b>Dr. Amit Kar</b> Project Scientist BRIC-IBSD, Impahl, Manipur, India</p>	<p>Phytopharmaceuticals: Exploring bioresources of NER</p>

## HALL 2: TRADITIONAL HEALERS MEET: 10:30 – 01:00 PM

### **Guests:**

**Shri. Shekhar Dutt, IAS**, Former Governor of Chhattisgarh, Former Defence Secretary, Govt. of India

**Shri. Suraj Thatal**, Director of Forest-cum-Chief Executive Officer, State Medicinal Plants Board, Government of Sikkim, Gangtok, Sikkim

**Dr. AVM Dilip Chandra Agarwal**, Vice Chancellor, Sikkim Manipal University, Tadong, Gangtok, Sikkim, India

### **Coordinators:**

**Prof. Prakash R Itankar**, Coordinator, SFE Nagpur Local Chapter & Associate Professor, Department of Pharmaceutical Sciences, R. T. M. Nagpur University, Nagpur, MH, India

**Dr. Pramod HJ**, Coordinator, SFE Belgaum Local Chapter & Head-Pharm. Biotechnology KLE University, Belgaum, Karnataka, India

**Dr. Pardeep K Bhardwaj**, Scientist – E & In-charge, BRIC-Institute of Bioresources and Sustainable Development (BRIC-IBSD), Meghalaya, India

### **Introductory remark & Perspective of the Program:**

**Prof. Pulok Kumar Mukherjee**, Organizing Chairman, SECON 2024 & Director, BRIC-IBSD

### **Speaker:**

**Dr. Heena Tabusum**, Scientist & Program Officer, Indian Council of Medical Research, New Delhi, India

**Dr. Sumit Aggarwal**, Scientist and Program Officer, Div. of Epidemiology and Communicable Diseases, Indian Council of Medical Research, New Delhi

### **Panellist:**

**Prof. Dhani Raj Chhetri**  
Professor & Head,  
Department of Botany, Sikkim University  
Gangtok, Sikkim

**Dr. Rajesh Joshi**  
Scientist - E  
G. P. Pant National Institute of Himalayan Environment (NIHE), Sikkim Regional Centre,  
Pangthang, Sikkim

<p><b>Dr Achintya Mitra</b> Assistant Director (Ay.) Regional Ayurveda Research Institute Gangtok, Sikkim</p>	<p><b>Dr. Sudip Kumar Dutta</b> Senior Scientist (Hort./Fruit Science) ICAR Research Complex of NER Region Gangtok, Sikkim</p>
<p><b>Ms. Pema Choden Bhutia</b> Joint Director, Department of Horticulture, Government of Sikkim Gangtok, Sikkim</p> <p><b>Prof. Sitesh C Bachar</b> Professor Faculty of Pharmacy University of Dhaka, Bangladesh</p>	<p><b>Shri Tshering Pintso Bhutia</b> Additional Director Forest/SMPB Government of Sikkim Gangtok, Sikkim</p> <p><b>Shri Tenzing Norbu Bhutia</b> Joint Director NTFP/SMPB, Govt. of Sikkim Gangtok, Sikkim</p>
<p><b>Dr. Thidarat Duangyod,</b> Assistant Professor Medicinal Plants Innovation Centre, School of Integrative Medicine, Mae Fah Luang University, Chiang Rai, Thailand</p>	<p><b>Dr. Kusum Devi</b> Professor and Principal Nitte College of Pharmaceutical Sciences, Bengaluru, Karnataka, India</p>
<p><b>Dr. Lydong Lepcha</b> Asst. Scientific Officer Department of Science &amp; Technology Govt. of Sikkim, Gangtok, Sikkim</p> <p><b>Shri. D. G. Shresthra</b> Principal Director (Biotechnology Division) Department of Science &amp; Technology and Climate Change, Government of Sikkim, Gangtok, Sikkim</p>	<p><b>Mr. Bhoj Kumar Pradhan</b> Traditional Healer Lower Timburbung Soreng, Sikkim</p> <p><b>Shri. D. T. Bhutia</b> Principal Director (Technology Transfer) Department of Science &amp; Technology and Climate Change, Government of Sikkim, Gangtok, Sikkim</p>
<p><b>Mr. Nirmal Kumar Awasthi</b> Traditional Healer Raipur, Chattisgarh</p>	<p><b>Mr. Prem Lal Limboo</b> Traditional Healer Jorbotey Sopakha Utterey West Sikkim</p>
<p><b>Mr. Laxman Mangar</b> Traditional Healer Ranka, East Sikkim</p>	<p><b>Mr. Dil Kumar Limboo</b> Traditional Healer Lower Radhu Dentam West Sikkim</p>
<p><b>Mr. Man Prasad Neopanay</b> Traditional Healer Luing Parbing upper Burtuk, East Sikkim</p>	<p><b>Mr. Shri Bhakta Chettri</b> Traditional Healer Yangyang, South Sikkim</p>
<p><b>Mrs. Tanaki Gurung</b> Traditional Healer Ranka, East Sikkim</p>	<p><b>Mr. Dhan Bir Kami</b> Traditional Healer Tanzi Blkmat Nachi South Sikkim</p>
<p><b>Mr. Yam Bahadur Rai</b> Traditional Healer Titirei botey, Rorathang, Pakyong, Sikkim</p>	<p><b>Mr. Sher Bahadur Shankar</b> Traditional Healer Maneybong borbotey Dentam, West Sikkim</p>
<p><b>Mr. Devi Ram Rai</b> Traditional Healer Ranka, East Sikkim</p>	<p><b>Mr. Pretiman Singh Chettri</b> Traditional Healer Mangan, North Sikkim</p>
<p><b>Mr. Dhan Bahadur Gurung</b> Traditional Healer Bulbasti, Namchi, South Sikkim</p> <p><b>Mr. Bal Bir Khati</b> Traditional Healer Yangyang South Sikkim</p>	<p><b>Mrs. Zyangkit Lepcha</b> Traditional Healer Dentam, West Sikkim</p> <p><b>Mr. Mon Raj Limboo</b> Traditional Healer Mangshila, North Sikkim</p>

<b>Mr. Ran Bahadur Rai</b> Traditional Healer Ladam machung Pakyong	<b>Mr. Tulshi Pradhan</b> Traditional Healer Lower Tingsunbong, Soreng
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<b>Mrs Purna Maya Gurung</b> Traditional Healer Chuba, Namchi, South Sikkim	<b>Mr. Dil Kumar Limboo</b> Traditional Healer Dentam, West Sikkim
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**HALL 3: ORAL PRESENTATION SESSION:  
10:00 AM – 11:30 PM**

**Evaluators:**

**Dr. C K Katiyar**, Advisor, Emami Ltd., Kolkata  
**Dr. Kakali Mukherjee**, EC Member, Society for Ethnopharmacology, Kolkata, India  
**Dr. Deepak Kumar**, Senior Scientist, CSIR-IICB, Kolkata  
**Dr. Satheesh Kumar Nanjappan**, Associate professor, NIPER, Kolkata, India  
**Dr. Aboli Girme**, DGM-R&D- Natural Remedies, Bengaluru, Karnataka, Indi

**HALL 3: Scientific Lecture Session VII:  
11:30 – 01:00 PM**

**Chairperson:**

**Dr. N. P. Sharma**, Deputy Director, Department of Science and Technology, Govt. of Sikkim  
**Dr. Ch. Brajakishor Singh**, Scientist, BRIC-IBSD, Sikkim, India

Speaker	Title
<b>Dr. Alexander Shikov</b> Professor Saint-Petersburg State Chemical Pharmaceutical University, St. Petersburg, Russia	Experience of using natural deep eutectic solvents for extraction of medicinal plants
<b>Dr. Rupika Delgoda</b> Professor Caribbean Centre for Research in BioScience University of the West Indies, Mona, Jamaica	
<b>Prof. Marco Leonti</b> Professor Department of Biomedical Sciences University of Cagliari, Italy	Retrospective Survey of Treatment and Outcomes of COVID-19 in the community of the UK and Italy
<b>Dr. Irena Choma</b> Professor Maria Curie-Sklodowska University in Lublin Lubin, Poland	

**LUNCH & NETWORKING**

**01:00 – 02:00 PM**

**HALL 3: Flash Talk Session II: 02:00 - 03:00 PM**

**[Max. 15 presentations] @4 min/ presentation**

**Dr. Prasson K Gupta**, Principal Scientist, CSIR-IIIM, Jammu, India  
**Dr. Thangjam Bipin Singh**, Assistant professor, Department of Environmental Science, D. M.  
College of Science, Dhanamanjuri University, Imphal, Manipur.  
**Dr. Lhamu Sherpa**, Expert in Medicinal & Aromatic Plants, Office of The Directorate of Cinchona &  
Other Medicinal Plants, Mungpoo, Dist. Darjeeling, West Bengal.;  
**Dr. Alagiyambai Mamoolan**, Project coordinator, Pankajakasthuri Ayurveda Medical College and  
PG Centre, Killy, Kattakkada, Kerala



**Dr. (Mrs.) Shraddha Manish Gupta**, Assistant Professor-Senior Scale, School of Health Sciences and Technology, UPES, Dehradun, India

**Prof. Rajasekaran Chandrasekaran**, Professor, School of Bio Sciences and Technology, Vellore Institute of Technology, Vellore, Tamilnadu, India

### HALL 1 Scientific Lecture Session VIII: 02:00 – 03:30 PM

**Chairperson:**

**Dr. H. Nanaocha Sharma**, BRIC- Institute of Bioresources and Sustainable Development (BRIC-IBSD), Imphal, Manipur, India

**Shri Anish Chakraborty**, Chairman, Seacom Skills University, Bolpur, Santiniketan

Speaker	Title
<b>Dr. Deepak Kumar</b> Scientist, CSIR-IIICB, Jadavpur, Kolkata	The Odyssey of "Red Gold": From Forest to Lab
<b>Dr. Nagendra Thakur</b> Head and Associate Professor Department of Microbiology Sikkim University, Gangtok, Sikkim	Temperature – A critical abiotic paradigm that governs bacterial heterogeneity in natural ecological system and expression of malto-oligosaccharide forming thermostable acidic $\alpha$ -amylase
<b>Dr. Khusboo Lepcha</b> , Assistant Professor and Head Department of Microbiology North Bengal University, Siliguri, WB	Thermophilic lignocellulose deconstructing microbial consortium developed from goat rumen contents
<b>Dr. Deepak Kumar</b> Research Officer (Chemistry) CCRAS-Central Ayurveda Research Institute, Bidhannagar, Kolkata	Biodiversification in phytocompound of <i>Hydrocotyle rotundifolia</i> originating from selected bio-geographical locations of the Indian subcontinent
<b>Dr Muhamad Ibrahim</b> Vice President Research And Development Sami-Sabinsa Group Limited Bangalore, India	Quality Standardization of selected high value medicinal plants in the northeast India: Phytochemicals isolation and Characterization.
<b>Dr. Kalyan Hazra</b> Research Officer (Chemistry) CCRAS-Central Ayurveda Research Institute Bidhannagar, Kolkata, India	Endurance of phytocompounds in classical preparation from the root of <i>Rauvolfia serpentina</i> : pharmaceutical dosage validation by liquid chromatography tandem mass spectrometry
<b>Dr. Ashok Kumar Sinha</b> Research Officer (Ay.) Regional Ayurveda Research Institute, CCRAS Tadong, Patna, Bihar, India	An ethnobotanical study of medicinal plants used by the tribes of Soreng district of Sikkim Himalaya
<b>Dr. Kumaraswamy Jeyaram</b> Scientist BRIC-IBSD, Gangtok, Sikkim	New dimensions of health promotion by fermented foods
<b>Dr Arundhati Bag</b> Associate Professor Department of Medical Biotechnology Sikkim Manipal Institute of Medical Sciences Tadong, Gangtok.	Medicinal plants grown in Sikkim with potential protective effect on diabetic kidney damage
<b>Dr. Anil Kumar Verma</b> Assistant professor Department of Microbiology Sikkim University Gangtok, Sikkim, India	Unraveling the potential of yak dung microflora in the conversion of lignocellulosic waste into bioenergy and associated value-added products - a sustainable approach

**Dr. Ramith Ramu**

Assistant Professor  
Department of Biotechnology and Bioinformatics  
JSS Academy of Higher Education & Research  
Mysuru, Karnataka, INDIA

Exploring whole green Jackfruit flour for MAPK3 inhibition in obesity-linked diabetes mellitus: a network pharmacology approach

## HALL 2: Scientific Lecture Session IX: 02:00 – 04:00 PM

Page | 14

### ROYAL SOCIETY OF CHEMISTRY SPECIAL SESSION

#### *Introductory remark & Perspective of the Program:*

**Prof. Pulok Kumar Mukherjee**, Organizing Chairman, SECON 2024 & Director, BRIC-IBSD

Speaker	Title
<b>Dr. Parasuraman Jaisankar</b> Chief Scientist CSIR-IICB, Kolkata.	Bioactive Novel Molecules from Andrographis Species and Holarrhena pubescens Bark for Cancer, Neurodegenerative, and Neglected Infectious Diseases.
<b>Dr. Snehasikta Swarnakar</b> Scientist CSIR-IICB, Kolkata, INDIA	Shatavarin IV, A Steroidal Saponin Inhibits Cellular Invasion of Gastric Cancer Cell Under-Hyperglycemic Condition
<b>Dr. S Indira Devi</b> Scientist-E, BRIC-Institute of Bioresources and Sustainable Development, Imphal, India	Bioprospecting of Microbial resources-leading towards health and promoting bio-based economy
<b>Panellist:</b>	
<b>Dr. Lokesh Deb</b> Scientist, BRIC-IBSD Sikkim, India	<b>Dr. K Jeyaram</b> Scientist, BRIC-IBSD Sikkim, India
<b>Dr. Ch. Brajakishor Singh</b> Scientist, BRIC-IBSD Sikkim, India	<b>Dr. Pardeep K Bhardwaj</b> Scientist, BRIC-IBSD Shillong, India
<b>Dr. J K Shukla</b> Scientist, BRIC-IBSD Shillong, India	<b>Dr. Sudripta Das</b> Scientist, BRIC-IBSD Imphal, India
<b>Mr. Bharat G Somkuwer</b> Scientist, BRIC-IBSD Mizoram, India	<b>Dr Sushil Kumar Chaudhary</b> , Project Scientist, IBSD-NODE, Shillong, Meghalaya
<b>Dr. Amit Kar</b> Scientist, BRIC-IBSD, Impahl, Manipur, India	<b>Dr. Kalyen Roy</b> , Associate Professor, Govt. Pharmacy College, Sikkim
<b>Prof. Dhani Raj Chhetri</b> Professor & Head, Department of Botany, Sikkim University Gangtok, Sikkim	<b>Dr. Biswajit Gopal Roy</b> , Assistant Professor, Department of Chemistry, Sikkim University Gangtok, Sikkim.
<b>Dr. Debajit Mahanta</b> Director Centre for Bioresources and Sustainable Development Kimin, Arunachal Pradesh	<b>Dr Achintya Mitra</b> Assistant Director (Ay.) / Scientist Regional Ayurveda Research Institute Gangtok, Sikkim, India
<b>Dr. Suraj Sharma</b> Principal(i/c), College of Pharmaceutical Sciences Sikkim Professional University, Gangtok, Sikkim	<b>Dr. Sanjeeb Kalita</b> Scientist, Centre of Excellence for Bioresources and Sustainable Development, Arunachal Pradesh

**POSTER PRESENTATION SESSION III:**

**11:30 AM – 01:00 PM**

**VALIDICTARY PROGRAM AND**

**AWARD DISTRIBUTION: 04:30 – 05:30 PM**

His excellency, **Shri. Om Prakesh Mathur**, Hon'ble Governor of Sikkim, Government of Sikkim, India

**Shri Vishvajit Sahay**, Additional Secretary & Financial Adviser, Dept. of Biotechnology, Govt. of India, New Delhi

**Prof. Pulok K. Mukherjee**, Chairman, SECON 2024 & Director, BRIC-IBSD

**Prof. Rudolf Bauer**, Professor, Institute of Pharmaceutical Sciences, Dept. of Pharmacognosy, Karl-Franzens-Universität Graz, Graz, Austria

**Shri Indraneel Das**, Vice President, Society for Ethnopharmacology (SFE), India

**Shri. Anish Chakraborty**, Chairman, Seacom Skills University, Bolpur, Santiniketan, WB, India  
Nodal Officer, BRIC-IBSD

**Vote of Thanks by:**

**Dr. Nanaocha Sharma**, Joint organizing Secretary, SECON 2024 & Scientist-F, BRIC-IBSD

**NATIONAL ANTHEM**