February 8 -10, 2019

Medicinal Plants and Traditional Medicine - Ethnopharmacology at the Interface of Local and Global Needs

Organized by

Manipal College of Pharmaceutical Sciences
Centre for Integrative Medicine and Research
Manipal Academy of Higher Education, Manipal

In association with

Society for Ethnopharmacology, India
Saktigarh, Jadavpur, Kolkata

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Medicinal plants and traditional medicine and their usage in modern times have a wide scope for research and Ethnopharmacology which play an important tool in strengthening the delivery of healthcare. I am glad that the Society for Ethnopharmacology will have its 6th International Congress at Manipal being organised by Manipal College of Pharmaceutical Sciences and Centre for Integrative Medicine and Research of Manipal Academy of Higher Education. I wish the deliberations success with the active participation of the renowned delegates.

Dr. Ramdas M Pai  
Chancellor  
Manipal Academy of Higher Education, Manipal
I am glad to know the Sixth International Congress of the Society for Ethnopharmacology is being organized by the Manipal College of Pharmaceutical Sciences and the Centre for Integrative Medicine & Research of Manipal Academy of Higher Education. With the participation of many eminent international and National resource persons in the Conference, the deliberation will provide a deep insight into all aspects of Ethnopharmacology enriching the knowledge and experience of the delegates.

I wish this International Congress Great Success.

Dr. H S Ballal
Pro Chancellor
Manipal Academy of Higher Education, Manipal
I am extremely happy to know that the 6th International Congress of the Society for Ethnopharmacology, India (SFEC 2019) will be organized by Manipal College of Pharmaceutical Sciences (MCOPS) and Center for Integrative Medicine and Research (CIMR), Manipal Academy of Higher Education, Manipal, India in association with Society for Ethnopharmacology, India during February 8-10, 2019 at Manipal, Karnataka, India. This congress will focus on “Medicinal plants and traditional medicine-ethnopharmacology at the interface of local and global needs.” The congress will also be highlighting on several crucial and contemporary issues on the Ethnomedicine, Ethnopharmacology and medicinal plant research by renowned scientists across the globe. This will provide an ideal platform to the participants to present their research work, interact, debate and disseminate ideas amongst the distinguished professionals, eminent scientists, technologist, industrialist and traditional health care professionals.

On behalf of the organizing committee and Society for Ethnopharmacology, it is my pleasure to invite you to participate in this congress.

Dr. H Vinod Bhat  
Vice Chancellor  
Manipal Academy of Higher Education, Manipal
Dear Friends,

I am extremely happy to note that the 6th International Congress of the Society for Ethnopharmacology, India (SFEC 2019) will be organized by Manipal College of Pharmaceutical Sciences (MCOPS) and Center for Integrative Medicine and Research (CIMR), Manipal Academy of Higher Education, Manipal, India in association with Society for Ethnopharmacology, India during February 8-10, 2019 at Manipal, Karnataka, India. I see that the congress has its focus on “Medicinal plants and traditional medicine-ethnopharmacology at the interface of local and global needs.” And highlighting on several crucial and contemporary issues on the Ethnomedicine, Ethnopharmacology and medicinal plant research by the renowned scientists across the globe. This will provide an ideal platform to the participants to present their research work, interact, debate and disseminate ideas amongst the distinguished professionals, eminent scientists, technologist, industrialist and traditional health care professionals.

I am delighted to note that about 20 eminent international and national speakers, eminent scientists and researchers will be a part of this conference as resource persons. It’s heartening to note that there will be a Synergy Symposium of research on national drugs, workshops seminars, oral and poster presentations by Research Scholars and Scientists who are experts in the subject area of Ethnopharmacology and Traditional Medicines.

On behalf of MAHE, Manipal I wish all the best to all delegates, Eminent Scientists and Researchers.

Dr Poornima Baliga B
Pro Vice Chancellor (Faculty of Health Sciences)
Manipal Academy of Higher Education, Manipal
30 December 2018

Dear Prof. Udupa,

Thank you very much for inviting me as Special Guest of Honor to the 6th International Congress of Society for "Ethnopharmacology" on 8-10 February, 2019 at Manipal Academy of Higher Education, Manipal India. I shall be glad to be present during the ISE SFEC – 2019.

I would like to congratulate you for taking this initiative and wish you and your colleagues all success.

I take this opportunity to wish you, your family and your colleagues a very Happy New Year.

With warm regards,

Yours sincerely,

(Shekhar Dutt)

Prof. N. Udupa
Organized Chairman, SFEC 2019
Manipal College of Pharmaceutical Sciences
Manipal Dr, Madhav Nagar, Manipal,
Karnataka 576104
As Organizing Chairman of SFEC 2019 and Director – Research (Health Sciences), Manipal Academy of Higher Education, Manipal, it gives me immense pleasure to welcome the distinguished guests, eminent Scientific, Pharmaceutical and Ayurveda fraternity, renowned Speakers and Chairpersons and more than 400 delegates from all over India and abroad to participate in this International Conference during 8-10 February, 2019 here at the Eminent University Town, Manipal. The institutions organizing this conference are Manipal College of Pharmaceutical Sciences (MCOPS) and Centre for Integrative Medicine and Research (CIMR), constituents units of Manipal Academy of Higher Education (MAHE), Manipal, in association with Society for Ethnopharmacology, India. I am glad to mark a note that this prestigious international conference is being held immediately after MAHE received the status of Institute of Eminence (IoE) from Government of India, New Delhi. This conference is a versatile academic and research rejuvenation time for all of us as it is going to encompass myriad of topics of current interest, especially in the area of Ethnopharmacology, Ayurveda and Phytopharmaceuticals. Eminent scientists and key contributors from different wings of Pharmacy, Ayurveda, Ethnopharmacology, etc will take part in deliberations and the scientific sessions will immensely benefit the scientific community to update themselves with current findings and international standards. Poster sessions will help the presenters to showcase their research work and provide the opportunity to interact with renowned researchers. The theme "Medicinal Plants and Traditional Medicine – Ethnopharmacology at the Interface of Local and Global Needs" has been selected for this conference keeping in mind the highly dynamic contemporary happenings in the relative scientific domains at the local and global levels. I would like to acknowledge the assistance and continuous inputs and support of the Organizing committee and the office bearers of Society for Ethnopharmacology, India for the smooth conduct of this international conference. I look forward to welcome you all in person at this conference.

Dr. N Udupa
Organizing Chairman – SFEC 2019
Director – Research (Health Sciences)
Manipal Academy of Higher Education, Manipal
Dear Colleagues

Greetings and welcome to the university town, Manipal. I am delighted to present to you 6th international congress of Society for Ethnopharmacology held by Manipal College of Pharmaceutical Sciences and Centre for Integrative Medicine & Research, in association with Society for Ethnopharmacology. I am extremely happy to let you know that about 500 professionals are joining together to make this event a successful. Speakers and delegates from all across the globe are participating to exchange ideas and work together to bring positive change in the current practices.

India is a treasure of traditional knowledge and practices, which is hardly explored for reasons unknown. Conferences like this with such huge international participation will work on investigating traditional practices and knowledge which would serve to the global needs. Society for Ethnopharmacology is continuously striving hard to bring the local knowledge to forefront. This congress therefore reconnoitre the theme “Medicinal plants and traditional medicine, Ethnopharmacology at the interface of local and global needs” with global scientists, academicians and students.

Manipal college of Pharmaceutical Sciences has now pioneered the art of conducting conference with its vast experience. This conference is yet another feather in its cap. I have been fortunate to be a part of Manipal team. Organizing an event is an elated job, we have been working towards this conference for past one year. The fruit is born today. We as local organizing team have taken utmost care to cater to the needs of our guests, to make them comfortable and most importantly to give them right platform for exchange of ideas. An event of this scale may leave behind some shortcomings, which may kindly be excused. I am highly indebted to the organizing chairman Dr. N. Udupa for encouraging me to take up this responsibility. My Colleagues at Manipal College of Pharmaceutical Sciences and Division of Ayurveda, MAHE have actually carried the burden all through. I remain thankful to them. SFEC 2019 would have not seen the daylight without support, encouragement and guidance from Dr. Pulok Mukherjee, Secretary, Society for Ethnopharmacology and his team. I wish to thank them for trusting us. I wish a very successful, fruitful conference to all the participants.

Thank you

Dr. Saleemulla Khan
Principal PA. College of Pharmacy, Mangalore

Organizing Secretary, SFEC 2019
On behalf of the Society for Ethnopharmacology, India, we are delighted to welcome you all in the 6th International Congress of Society for Ethnopharmacology, India (SFE - India) [SFEC 2019], being organized by the Manipal Academy of Higher Education, Manipal, Karnataka, India during February 08-10, 2019 at Manipal, India. The theme of this event is “Medicinal Plants and Traditional Medicine - Ethnopharmacology at the interface of Local and Global Needs”.

Society for Ethnopharmacology, India (SFE – India), affiliated to the International Society for Ethnopharmacology (ISE), has the vision of providing an environment for knowledge sharing among academics, researchers, students, industries, healthcare practitioners, decision-makers and others interested in promotion and development of ethnopharmacology and medicinal plant throughout the world and thus to promote the traditional health practices at large for the betterment of healthcare for the society at large. The mission of the society is promotion and development of traditional medicine and medicinal plants with the major highlights on “Globalizing local knowledge and localizing global technologies”. For dissemination of knowledge the society used to organizes conferences, seminars, symposiums, workshops etc. in different parts of India and also publish newsletters, documents, books etc. We cordially invite you all to join this forum and encourage your colleagues and students to join and explore the opportunities.

On behalf of SFE-India, we would like to congratulate Team Manipal for taking keen initiatives with SFE India for organizing this congress and developing the scientific program, which deals with a variety of topics focused on promotion and development of Traditional Medicine and Ethnopharmacology with the involvement of eminent scientists and delegates throughout the globe. This congress will also include a special program of Synergy Forum 2019 for the promotion and development of Synergy research in Traditional Medicine and Medicinal Plant Research and Ethnopharmacology Conclave on “Interactive Meet with Traditional Healers for Documentation of Local Health Traditions (LHTs) and Ethno Medical Practices (EMPs)”.

This conference will consist of highly informative scientific deliberations and presentations by the scientists, researchers, traditional healthcare practitioners and industrial professionals in the field of Ethnopharmacology and natural product research from different part of the world. This conference will provide an ideal platform for interaction and dissemination of knowledge & ideas between scientists and other stakeholders. This will include Ethno-botany and Ethnopharmacological perspectives of Traditional Medicine, regulatory issue, quality control and standardization, pharmacovigilance and all other aspects of drug discovery development from natural resources. Synergy research is a still young field of research within the life sciences, but the elucidation and application of synergistic actions of compounds is of particular relevance and opens new perspectives for natural drugs. The development of newer drug from natural resources requires integration of hyphenated technologies and harmonization in various fields of science and technology; several such sessions will be undertaken in this congress to highlight different perspectives of natural product development.

The organizers of this conference have made every effort to make the scientific events more interactive with maximum input in every aspect of ethnopharmacology and medicinal plant research.

We are sure we will have a unique opportunity to develop fruitful collaborations and stimulating ideas for future research and development of Ethnopharmacology and medicinal plant research in every aspect. We wish you a pleasant stay and effective scientific interaction during this congress.

Prof. Pulok K. Mukherjee, PhD, FRSC, FNASc
Secretary - Society for Ethnopharmacology, Kolkata, India &
Chairman - Scientific Services, SFEC 2019 &
Director - School of Natural Product Studies
Jadavpur University, Kolkata 700032, WB, India
www.pulokmukherjee.in

Mr. Birendra Kumar Sarkar
President
Society for Ethnopharmacology
Kolkata, India
The 6th International Congress of the Society for Ethnopharmacology, India (SFEC 2019) will be organized by Manipal College of Pharmaceutical Sciences (MCOPS) and Centre for Integrative Medicine and Research (CIMR), Manipal Academy of Higher Education, Manipal, India in association with Society for Ethnopharmacology, India during February 8-10, 2019 at Manipal, Karnataka, India. This congress will focus on “Medicinal Plants and Traditional Medicine- Ethnopharmacology at the interface of local and global needs”. The congress will also be highlighting on several crucial and contemporary issues on the Ethnomedicine, Ethnopharmacology and Medicinal Plant Research by the renowned scientists across the globe. This will provide an ideal platform to the participants to present their research work, interact, debate and disseminate ideas amongst the distinguished professionals, eminent scientists, technologists, industrialists and traditional health care professionals. On behalf of the organizing committee and Society for Ethnopharmacology, it is our pleasure to invite you to participate in this congress and explore the opportunities.

Prof. N Udupa
Organizing Chairman, SFEC 2019

Dr. Pratim Banerji
President, SFE-India

Dr. Subhash C Mandal
EC Member, SFE – India & Convener, SFEC 2019

Prof. Pulok K Mukherjee
Secretary, SFE-India

Dr. Basavaraj Hadapad
Joint Organizing Secretary, SFEC 2019

Mr. Birendra K Sarkar
Vice President, SFE-India

Dr. Saleemulla Khan
Organizing Secretary, SFEC 2019

Mr. Indraeneel Das
Vice President, SFE-India

**Manipal Academy of Higher Education (MAHE)**

The Manipal Academy of Higher Education (MAHE) is a Deemed to be University under section 3 of the UGC Act 1956 and also a pioneer in higher education services with 60-year-old legacy of excellence. MAHE also owns and operates campuses in Sikkim and Jaipur in India, Nepal, Malaysia, and Antigua in the Caribbean. Over 28,000 students from 57 different nations live, learn and play in the sprawling University town. It also has nearly 2500 faculty and almost 10000 other support and service staff, who cater to the various professional institutions in health sciences, engineering, management, communication and humanities. A part of the Manipal Group, the deemed to be University is ISO 9001:2008 and ISO 14001: 2004 certified, and has won the prestigious IMC Ramkrishna Bajaj National Quality Award and the International Asia Pacific Quality Award in 2007-2008. The university ranks among top 250 Universities in the world as per QS Ranking. Every constituent institute has world class facilities and pedagogy, which are constantly reviewed and upgraded to reflect the latest trends and developments in higher education.

For further details please visit: [www.manipal.edu](http://www.manipal.edu)

**Manipal College of Pharmaceutical Sciences (MCOPS)**

Manipal College of Pharmaceutical Sciences (MCOPS): A constituent unit of MAHE, Manipal established in 1963 is a premier pharmaceutical teaching and research institute in India. Ranked #7 amongst Pharmacy Institutions of India by NIRF, MHRD, Govt. of India in 2018 and among top 251-300 range by subject Pharmacy and Pharmacology in QS World Ranking. MCOPS stands as hallmark of quality education and research in India and most preferred destination for students. It offers DPharm, BPharm, MPharm, PharmD, PharmD Post Baccalaureate and PhD programs.
**Center for Integrative Medicine and Research (CIMR)**

Center for Integrative Medicine and Research (CIMR) is a new addition to MAHE educational spectrum offering education and research in the traditional and holistic medicine. Multidisciplinary research is need of the hour and CIMR is striving hard to bring in innovation and value for the existing ideas and practices. The center involves Ayurveda, Siddha, Homoeopathy and Pharmacognosy. The center is offering many short term certificate courses to professional as value addition to their existing knowledge and expertise.

**Society for Ethnopharmacology (SFE)**

Society for Ethnopharmacology (SFE), India is registered under the West Bengal Society Registration Act and also affiliated to the International Society for Ethnopharmacology. The society was formed in 2013 and has made its presence throughout the country, which provides networking opportunity for development and promotion of medicinal plants and ethnopharmacology. The society works on dissemination of knowledge in this area through different local chapters made in different parts of India with major highlights on “Globalizing local knowledge and localizing global technologies”.

For further details please visit: [www.ethnopharmacology.in](http://www.ethnopharmacology.in)

**International Society for Ethnopharmacology (ISE)**

International Society for Ethnopharmacology (ISE) is an International scientific organization of researchers dedicated to the interdisciplinary study of the pharmacological actions of plants, animals, insects, and other organisms used in medicines of indigenous and modern, past and present cultures. The major objective of the ISE is to promote Ethnopharmacology as a scientific field of research. The Journal of Ethnopharmacology is dedicated to the exchange of information and understandings about people's use of natural products and their bio-prospecting.

For details please visit: [www.ethnopharmacology.org](http://www.ethnopharmacology.org)

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### Opportunities for Sponsorship/ Collaboration

This multidisciplinary program will address several crucial research issues for the promotion and development of the natural products especially from medicinal plants. A series of keynote, plenary lectures by internationally renowned scientists in the field of medicinal plant research will be focused on specific key areas. The congress will offer an ideal platform for networking opportunity to the industries, academicians, scientists, regulators and those who are involved in the medicinal plant research.

- Ethnomedicinology and Ethnopharmacology in drug discovery and development
- Evidence based validation of traditional medicine
  - Evaluation of safety, efficacy and quality of botanicals
  - Pharmacological evaluation of medicinal plants
  - Identification and documentation of medicinal plants and traditional resources
  - Quality control and standardization of Botanicals
  - Bioprospecting of medicinal plants products – an approach towards drug discovery
- Integrative approach for promotion and development of traditional medicine
- Development and evaluation of herbal formulation from botanicals
  - IP rights, patents and regulatory affairs of medicinal plants
- Conservation & propagation of rare, endangered & threatened medicinal plants
- Plant breeding, Genetics & Biotechnology

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**Major Highlights of the Congress**

- Ethnomedicine and Ethnopharmacology in drug discovery and development
- Evidence based validation of traditional medicine
  - Evaluation of safety, efficacy and quality of botanicals
  - Pharmacological evaluation of medicinal plants
  - Identification and documentation of medicinal plants and traditional resources
  - Quality control and standardization of Botanicals
  - Bioprospecting of medicinal plants products – an approach towards drug discovery
- Integrative approach for promotion and development of traditional medicine
- Development and evaluation of herbal formulation from botanicals
  - IP rights, patents and regulatory affairs of medicinal plants
- Conservation & propagation of rare, endangered & threatened medicinal plants
- Plant breeding, Genetics & Biotechnology
Executive Committee Members of SFE-India

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Mr. Das - Vice President
Mr. S Saha - Mentor
Mr. S U Saha - Mentor
Mr. B K Sarkar - Vice President
Dr. C K Katiyar

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Dr. S Karmakar
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Dr. N Udupa - Manipal Chapter
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Associates of SFE-India

Amit Kar
Joydeb Chanda
Subhadeep Banerjee
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Local Organizing Advisory Body

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Vice Chancellor, JSS University, Mysuru

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Professor, Dept. of Pharm. Technology Jadavpur University, Kolkata, India
Member of Executive Council SFE, India

Dr. Milind J Umekar
Vice President, APTI

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Chancellor
MAHE, Manipal

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CEO and MD
Manipal Education and Medical Group, Bengaluru

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Pro Vice-Chancellor, MAHE, Manipal

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Vice-Chancellor, MAHE, Manipal

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Pro Vice-Chancellor (QA), MAHE, Manipal

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Pro Vice-Chancellor - Faculty of Health Sciences, MAHE, Manipal

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Registrar, MAHE, Manipal
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Research Director (Health Sciences)
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Dr. Vineendra S Ligade
Dr. Mudukrishna B S
Dr. Girish Pai K
Mrs. Ruchi Verma
Mrs. Jayshree U
Proposed International Speakers

Dr. Rudolf Bauer, ISE, Austria  
Dr. Guillermo Schmeda Hirschmann, ISE, Chile  
Dr. Michael Heinrich, ISE, UK  
Dr. J N (Kobus) Eloff, Pretoria, ISE, South Africa  
Dr. Marco Leonti, Cagliari, ISE, Italy  
Dr. Gudrun Ulrich-Merzenich, ISE, Germany  
Dr. Gail B Mathady, ISE, USA  
Dr. Caroline Weckerle, ISE, Germany  
Dr. Khozirah Shaari, Malaysia  
Dr. Hannah Jennings, UK  
Dr. Alexander Panossian, Sweden  
Dr. Muhklesur Rahman, UK  
Dr. Alvaro Viljoen, South Africa  
Dr. Rawiwan Charoensup, Thailand  
Dr. E Yesilada, Turkey  
Dr. Md. A Rashid, Bangladesh  
Dr. Motlalepula G Matsibisa, South Africa  
Dr. H Fukui, Japan  
Dr. Dilip Ghosh, Australia  
Dr. F C Braga, Brazil  
Dr. J Wijayabandara, Sri Lanka  
Dr. Gunter Vollmer, Germany  

Dr. Marc Beyruthy, Lebanon  
Dr. Domenico Delfino, Italy  
Dr. Iris C Zampini, Argentina  
Dr. Zhao Zhonzhen, Hong Kong  
Dr. Ibrahim Jantan, Malaysia  
Dr. Yuan S Chang, Taiwan  
Dr. S C Bachar, Bangladesh  
Dr. Elin Y Sukandar, Indonesia  
Dr. O P Ajagbonna, Nigeria  
Dr. Roberto Saavedra, Chile  
Dr. Md. Fawzi Mahomoodally, Mauritius  
Dr. H Mizuguchi, Japan  
Dr. Harpal S Buttar, Canada  
Dr. Thomas Efferth, Germany  
Dr. Ting-Chao, USA  
Dr. Med. Gunther Spahn, Germany  
Dr. Andreas Bender, UK  
Dr. Pradeep Visen, Canada  
Dr. Noritaka Tokui, Japan  
Dr. Harald G. Schweim, Germany  
Dr. Yoshi Mi Ninari, Japan  
Dr. Md. Shah Arfan, Bangladesh

Proposed National Speakers

Dr. C K Kokkate, Belagavi  
Dr. B Suresh, Mysuru  
Dr. Y K Gupta, New Delhi  
Dr. Subhra Chakraborty, New Delhi  
Dr. Bhushan Patwardhan, Pune  
Dr. Amit Agarwal, Bengaluru  
Dr. Mohd. Aslam, New Delhi  
Dr. C K Katiyar, Kolkata  
Dr. Srinivas Acharya, Udupi  
Dr. D C Katooch, New Delhi  
Prof. Ramesh K Goyal, New Delhi  
Dr. T K Mukherjee, New Delhi  
Dr. D K Mitra, New Delhi  
Dr. Neeraj Tandon, New Delhi  
Dr. R Uma Shankar, Bengaluru  
Dr. Narendra Bhatt, Pune  

Dr. Sanmoy Karmakar, Kolkata  
Mr. Shekhar Dutt, New Delhi  
Dr. Jitendra Kumar, Gurgaon  
Dr. Sanjaya K S, Koppa  
Dr. Satyanarayana B., Manipal  
Mr. Indraneel Das, Kolkata  
Mr. B K Sarkar, Kolkata  
Dr. Alka Mukne, Mumbai  
Dr. Mutthu Swamy, Manipal  
Prof. Pulok K Mukherjee, Kolkata  
Dr. Prakash R Itankar, Nagpur  
Dr. Sayeed Ahmad, New Delhi  
Dr. Sathiyanarayanan L, Pune  
Dr. Jitendra Kumar, Gurgaon  
Dr. R. Govindarajan, Bengaluru  
Dr. A. S. Raghavendra, Hyderabad
# PROGRAMME SCHEDULE

## Day 1  
**Friday, February 08, 2019**

**Registration:** 08:30 AM – 10:00 AM  
Venue: Dr T M A Pai Auditorium (3rd Floor)

**INAUGURATION:** 9:30 AM – 11:30 AM  
Chief Guest:  
**Dr. Poornima Baliga**  
Pro Vice Chancellor (Faculty of Health Sciences)  
MAHE, Manipal

Venue: Dr TMA Pai Auditorium (3rd Floor), Manipal Academy of Higher Education, Manipal, Karnataka

**INAUGURATION OF 6th INTERNATIONAL CONGRESS OF SFE-INDIA (SFEC 2019) AND SFE-INDIA ANNUAL AWARD PRESENTATIONS**

**TEA BREAK** (TIME: 11.30 AM – 11.45 AM)

**SESSION I:** 11.45 AM – 01.30 PM  
Venue: Dr. TMA Pai Auditorium (3rd Floor)

**CHAIRPERSONS**  
**Dr. N Udupa,** Organizing Chairman, SFEC 2019 & Research Director (Health Sciences), Manipal Academy of Higher Education, Manipal  
**Dr. Indraneel Das,** Vice President, Society for Ethnopharmacology, India

<table>
<thead>
<tr>
<th>SPEAKER</th>
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</table>
| **Lecture 1:** Dr. Pulok K Mukherjee  
Chairman, Scientific Services  
ISE-SFEC- 2018 & Secretary, SFE-India  
Kolkata, India | Introduction about the Congress:  
“Medicinal Plants and Traditional Medicine –Ethno-pharmacology at the Interface of Local and Global Needs” |
| **Lecture 2:** “Bisheswar Saha Memorial Award” Lecture  
Dr Manju Sharma  
Former Secretary  
Department of Biotechnology  
Govt. of India, New Delhi | “Utilization of Bioresources, Development and Application of Traditional Medicine for Human Welfare” |
| **Lecture 3:** Dr. Bhushan Patwardhan  
Vice Chairman,  
University Grant Commission, New Delhi, India | “Ethnopharmacology and Network Pharmacology” |
| **Lecture 4:** Dr. Caroline S. Weckerle  
Institute of Systematic and Evolutionary Botany,  
University of Zurich, Zurich, Switzerland | “Standards for conducting and reporting Ethnopharmacological Field Studies” |

**LUNCH BREAK**  
TIME: 01.30 PM - 02.30 PM  
VENUE: MAHE Food Court 3rd Floor
### SESSION II: 02.30 PM – 03.45 PM

**Venue: Interact - Hall Gb**

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<thead>
<tr>
<th>CHAIRPERSONS</th>
<th>SPEAKER</th>
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</thead>
<tbody>
<tr>
<td>Dr. Sreenivasa M. Reddy, Dept. of Pharmaceutics, Manipal College of Pharmaceutical Sciences, Manipal Academy of Higher Education, Manipal, India</td>
<td>Dr. JN (Kobus) Eloff, Faculty of Veterinary Medicine, University of Pretoria, Pretoria, South Africa</td>
<td>“Developing a product with higher in vitro and in vivo activity than commercial fungicides on fungal phytopathogens”</td>
</tr>
<tr>
<td>Dr. George Patani, Director, Inga Labs, Mumbai</td>
<td>Prof. Günter Vollmer, Molecular Cell Physiology and Endocrinology, Institut für Zoologie, Technische Universität Dresden, Zellescher, Dresden, Germany</td>
<td>“Dual pathway activation by natural compounds as key to breast cancer prevention?”</td>
</tr>
<tr>
<td></td>
<td>Prof. Subhra Chakraborty, National Institute of Plant Genome Research, Jawaharlal Nehru University Campus, New Delhi, India</td>
<td>“Engineering food crops for combating oxalate toxicity towards better plant and human health”</td>
</tr>
</tbody>
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**TEA-BREAK**

**TIME: 3.45 PM – 04.15 PM (Poster Viewing)**

### SESSION III: 02.30 PM – 03.45 PM

**Venue: Interact - Hall Gb**

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<tr>
<th>CHAIRPERSONS</th>
<th>SPEAKER</th>
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<tbody>
<tr>
<td>Prof. Md. Abdur Rashid, Department of Pharmaceutical Chemistry, Faculty of Pharmacy University of Dhaka, Bangladesh</td>
<td>Dr. Olatunde Peter Ajagbonna, Faculty of Veterinary Medicine, University of Abuja, Nigeria</td>
<td>“Chronotherapeutic influence of medicinal plants in myocardial infarction; our experience with Musanga cecropioides (MCW) in rats.”</td>
</tr>
<tr>
<td>Dr. Saleemulla Khan, Principal, P A College of Pharmacy, Mangalore, India</td>
<td>Dr. Subhash C Mandal, Directorate of Drugs Control, Dept. of Health &amp; Family Welfare, Kolkata, India</td>
<td>“Ashwagandha and its Formulations: Varying Regulatory status round the globe”</td>
</tr>
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<td></td>
<td>Dr. Ajay Sharma, Amity Institute of Pharmacy, Amity University of Madhya Pradesh, Gwalior, India</td>
<td>“Medicinal Plants and Traditional Medicine –Ethno-pharmacology at the Interface of Local and Global Needs”</td>
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<td></td>
<td>Dr. Mamta KV, SDM College of Ayurveda, Udupi, India</td>
<td>“Critical analysis of traditional Suthika Paricharya (puerperal care) vaning art in restoring maternal health”</td>
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**TEA-BREAK**

**TIME: 3.45 PM – 04.15 PM (Poster Viewing)**
### SESSION IV: 04.15 PM – 05.30 PM
**Venue:** Interact - Hall Ga

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<th>CHAIRPERSONS</th>
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<tbody>
<tr>
<td><strong>Dr. D Chamundeeswari,</strong> Coordinator, Chennai Local Chapter, SFE-India ; Faculty of Pharmacy, Sri Ramachandra University, Porur, Chennai</td>
<td>Dr. Harpal S. Buttar</td>
<td>“Clinically relevant interactions between drugs, herbal remedies and fruit juices: mechanisms of interactions and prescribing strategies”</td>
</tr>
<tr>
<td><strong>Dr. Bernd Merzenich,</strong> AG Synergy Research and Experimental Medicine University Clinic Centre Bonn, Germany</td>
<td>Lecture 13:</td>
<td><strong>Dr. Devinder Arora</strong></td>
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<tr>
<td></td>
<td>School of Pharmacy</td>
<td>“Medicinal Plants and Traditional Medicine – Ethno-pharmacology at the Interface of Local and Global Needs”</td>
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<td>Griffith University, Gold Coast</td>
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<td>Queensland, Australia</td>
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<tr>
<td><strong>Lecture 14:</strong></td>
<td><strong>Dr Liaquat Ali</strong></td>
<td>“Basic defects of diabetes mellitus in Bangalee population implication for medicinal plant research”</td>
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<td></td>
<td>Pothikrit Centre for Health Studies (PCHS), Sangskriti Bikash Kendra Bhaban, Panibag, Dhaka, Bangladesh</td>
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<tr>
<td><strong>Lecture 15:</strong></td>
<td><strong>Dr Anand K Choudhary</strong></td>
<td>“Safety profile of Ayurvedic medicines – An ingenious review”</td>
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<td></td>
<td>Dept. of Rasa Shastra, Institute of Medical Sciences, Banaras Hindu University, Varanasi, India</td>
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### SESSION V: 04.15 PM – 05.30 PM
**Venue:** Interact - Hall Gb

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<th>CHAIRPERSONS</th>
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<tr>
<td><strong>Dr. Motlalepula G Matsabisa,</strong> Department of Pharmacology, University of the Free State, Bloemfontein, South Africa</td>
<td>Dr. Sathyanarayana B</td>
<td>“Translational research in ethnopharmacology with special reference to Ayurveda”</td>
</tr>
<tr>
<td><strong>Dr. Basavaraj. S Hadapad,</strong> Division of Ayurveda, CIMR, Manipal Academy of Higher Education, Manipal</td>
<td>Lecture 16:</td>
<td><strong>Dr. A. Muthusamy</strong></td>
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<td></td>
<td>Muniyal Institute of Ayurveda Medical Sciences, Manipal, India</td>
<td>“Morphological and physiobiochemical responses of salinity stress in Withania somnifera – A medicinal plant for polyherbal preparation”</td>
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<tr>
<td></td>
<td>Department of Plant Sciences, School of Life Sciences, Manipal Academy of Higher Education, Manipal, India</td>
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<tr>
<td><strong>Lecture 17:</strong></td>
<td><strong>Dr. Papiya Bigonia</strong></td>
<td>“Safety assessment of phyto-pharmaceuticals following global standard guidelines”</td>
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<td></td>
<td>DSKM College of Pharmacy, RKDF University, Bhopal, India</td>
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<tr>
<td><strong>Lecture 18:</strong></td>
<td><strong>Dr. G Shrinivas Acharya</strong></td>
<td>“Effective treatment of lumbar radiculopathy with lashuna (Allium sativum Linn) rasayan”</td>
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<td>Principal, SDM Ayurveda College, Udupi, India</td>
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**CULTURAL EVENT**

**TIME:** 06.00 PM – 07.30 PM  |  **VENUE:** Dr. TMA Pai Auditorium (3rd Floor)

**CONFERENCE DINNER**

**TIME:** 07.30 PM - 09.00 PM  |  **VENUE:** MAHE Food Court 3rd Floor
### SESSION VI: 09:30 AM – 11:00 AM  |  Venue: Interact - Hall Ga

**CHAIRPERSONS**
- **Prof. Subhra Chakraborty**, National Institute of Plant Genome Research, Jawaharlal Nehru University Campus, New Delhi, India
- **Prof. Günter Vollmer**, Molecular Cell Physiology and Endocrinology, Institut für Zoologie Technische Universität Dresden, Zellescher, Dresden, Germany

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<th>SPEAKER</th>
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| **Lecture 20:** Dr. Indraneel Das  
Managing Director, Declibac Technologies (P), Ltd, Kolkata, India | “Abnormally Normal: presumed innocent until proven guilty” |
| **Lecture 21:** Dr. Zhang Hongjie  
School of Chinese Medicine, Hong Kong Baptist University, Hong Kong | “A concise antiviral evaluation system for discovery of antiviral compounds from plants in Lingnan region” |
| **Lecture 22:** Dr. D Chamundeeswari  
Faculty of Pharmacy, Sri Ramachandra University, Porur, Chennai | “Development of a nanotechnology based topical dosage form with selected medicinal plants for dermatophytes” |
| **Lecture 23:** Dr. M. Fawzi Mahomoodally  
Faculty of Science, University of Mauritius, Réduit, Mauritius | “Ethnozootherapy in the mascarene archipelago” |

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**TEA-BREAK**  
**TIME: 11.00 AM – 11.30 AM (Poster Viewing)**

### SESSION VII: 11.30 AM - 01.00 PM  |  Venue: Interact - Hall Ga

**CHAIRPERSONS**
- **Dr. Sathiyanarayanan L.**, Coordinator, Pune Local Chapter, SFE-India & Poona College of Pharmacy, Pune, Maharashtra, India.
- **Mr. Amitava Das**, JD Konsaultanci, New Delhi

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<tr>
<th>SPEAKER</th>
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| **Lecture 24:** Dr. Eswara Reddy  
Drugs Controller General of India  
Government of India, New Delhi | “Regulatory Guidelines for Pharmaceuticals: Present and Future” |
| **Lecture 25:** Dr. U V Babu  
R & D, Himalaya Drug Company, Bengaluru, India | “Balancing Traditional Knowledge and Modern Science” |
| **Lecture 26:** Dr. Pradeep Visen  
Canada-India Collaborative Research on Natural Health Products, University of Toronto, Toronto, Canada | “Clinical Validation of Medicinal Herbs in the Management of Type-2 Diabetes” |
| **Lecture 27:** Dr. Sayeed Ahmad  
Faculty of Pharmacy, Jamia Hamdard (Hamdard University), Hamdard Nagar, New Delhi, India | “Metabolic Profiling of Medicinal Plants and Traditional Medicines for Globalization” |
**SESSION VIII: 11.30 AM - 01.00 PM**

**Venue:** Interact - Hall Gb

### CHAIRPERSONS

- **Dr Salahuddin**, Principal, Farooqia College of Pharmacy, Mysuru
- **Dr. Rajesh Singh Pawar**, Coordinator, Bhopal Local Chapter, SFE-India ; Director & Principal, Truba Institute of Pharmacy, TRUBA Campus, Bhopal, India

### SPEAKER

<table>
<thead>
<tr>
<th>Lecture</th>
<th><strong>SPEAKER</strong></th>
<th><strong>TITLE</strong></th>
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</table>
| Lecture 28: | Dr. MNA Rao | General Manager – R & D, Divi’s Labs
Hyderabad, India |
| Lecture 29: | Dr. Hanumatachar Joshi | Sarada Vilas College of Pharmacy
Mysore, India |
| Lecture 30: | Dr. Sitesh C Bachar | Department of Pharmacy
University of Dhaka
Dhaka, Bangladesh |
| Lecture 31: | Dr. Vijay Danapur | Vriksha Vijnan Pvt Ltd
Bengaluru, India |

### CONFERENCE LUNCH
**Time:** 01.00 PM - 02.00 PM  
**Venue:** MAHE Food Court 3rd Floor

**SESSION IX: 2.00 PM – 05.00 PM**

**Venue:** Interact - Hall Ga

### TEA BREAK
**Time:** 03.30 PM – 3.45 PM

### CHAIRPERSONS

- **Dr. Subhash C Mandal**, Directorate of Drugs Control
Dept. of Health & Family Welfare
Kolkata, India
- **Dr. T. K. Gopal**, Faculty of Pharmacy
Sri Ramachandra University
Porur, Chennai, India
- **Dr. K Sreedhara R Pai**, Manipal College of Pharmaceutical Sciences
MAHE, Manipal, India
- **Dr. Pallab Kanti Haldar**, Dept. of Pharmaceutical Technology
Jadavpur University, Kolkata
- **Dr. Kiranmai S Rai**, Melaka Manipal Medical College
MAHE, Manipal, India
- **Dr. M Manjunath Setty**, Manipal College of Pharmaceutical Sciences
MAHE, Manipal, India
- **Dr. Santanu Bhadra**, Scientific Writer
Novartis Healthcare Pvt. Ltd
Hyderabad, India
- **Dr. Krishnamurthy Bhat**, Manipal College of Pharmaceutical Sciences
Manipal, India
- **Dr. Srinivas Mutalik**, Manipal College of Pharmaceutical Sciences
MAHE, Manipal, India

### Abstract No.


**SFE - GENERAL BODY MEETING**
**Time:** 05.30 PM - 07.00 PM  
**Venue:** Interact – Hall Ga

**CONFERENCE DINNER**
**Time:** 07.30 PM - 09.00 PM  
**Venue:** MAHE Food Court 3rd Floor
<table>
<thead>
<tr>
<th>SESSION X: 02.00 PM - 05.00 PM</th>
<th>Venue: Interact - Hall Gb</th>
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<tbody>
<tr>
<td><strong>TEA BREAK</strong> TIME: 03.30 PM – 03.45 PM</td>
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<tr>
<td><strong>SYNERGY SESSION</strong></td>
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<tr>
<td>“Synergy Research on Natural Drugs and Compounds”</td>
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<td><strong>CHAIRPERSONS</strong></td>
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<tr>
<td>Dr. Caroline S. Weckerle, Institute of Systematic and Evolutionary Botany University of Zurich, Zurich, Switzerland</td>
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<td>Dr. JN (Kobus) Eloff, Faculty of Veterinary Medicine, University of Pretoria, Pretoria, South Africa</td>
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<td><strong>SPEAKER</strong></td>
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<tr>
<td><strong>Lecture 32:</strong></td>
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<tr>
<td>Dr. Gudrun Ulrich-Merzenich</td>
<td>“The Evolution of Contemporary Synergy Research and the Quantification of Synergism by the Combination Index Theorem”</td>
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<tr>
<td>Head, AG Synergy Research</td>
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<tr>
<td>University Hospital, Medical Clinic III</td>
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<tr>
<td>University of Bonn, Germany</td>
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<tr>
<td><strong>Lecture 33:</strong></td>
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<tr>
<td>Dr. Pulok K Mukherjee</td>
<td>“Synergy in Ayurveda and traditional Indian Systems of Medicine”</td>
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<tr>
<td>Director</td>
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<tr>
<td>School of Natural Product Studies</td>
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<tr>
<td>Jadavpur University, Kolkata</td>
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<td><strong>Lecture 34:</strong></td>
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<tr>
<td>Dr. Motlalepula G Matsabisa</td>
<td>“Innovation and Product development – At Interphase of IK and Pharmacology Scientific Research”</td>
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<tr>
<td>Director</td>
<td>The Pharmacology Research, Development and Value Addition of Traditional Medicines Research: Potential for Innovation and Commercialization for African Traditional Medicines”</td>
</tr>
<tr>
<td>Department of Pharmacology, University of the Free State, Bloemfontein, South Africa</td>
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<td><strong>Lecture 35:</strong></td>
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<tr>
<td>Dr. A. S. Raghavendra</td>
<td>“Plant Metabolomics as a powerful Tool to study medicinal Plants: Applications to Turmeric and Ginger”</td>
</tr>
<tr>
<td>School of Life Sciences</td>
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<tr>
<td>University of Hyderabad, Hyderabad, India</td>
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<tr>
<td><strong>Lecture 36:</strong></td>
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<tr>
<td>Dr. Med. Günther Spahn</td>
<td>“Synergistic and complementary Approaches in Cancer Treatment: Natural Medicines, targeted Therapies and cytostatic Drugs: potential Benefits or Risks?”</td>
</tr>
<tr>
<td>Oncologist and Specialist for Internal Medicine, Mainz, Germany</td>
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<tr>
<td><strong>SFE - GENERAL BODY MEETING</strong> TIME: 05.30 PM - 07.00 PM</td>
<td>Interact – Hall Ga</td>
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<tr>
<td><strong>CONFERENCE DINNER</strong> TIME: 07.30 PM - 09.00 PM</td>
<td>Venue: MAHE Food Court 3rd Floor</td>
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ETHNOPHARMACOLOGY CONCLAVE

"Interactive Meet with Traditional Healers for Documentation of Local Health Traditions (LHTs) and Ethno Medical Practices (EMPs)"

INAUGURATION: 10.30 AM – 11.15 AM

TEA-BREAK  TIME: 11.15 AM – 11.30 AM

SECTION A: 11.30 AM - 01.00 PM

CHAIRPERSONS
Dr. Prakash R. Itankar, Coordinator, Nagpur Local Chapter, SFE-India Department of Pharmaceutical Sciences, R. T. M. Nagpur University, Nagpur, India
Prof. Sangam Keshari Das, Head, Dravyaguna Vijnana, Gomantak Ayurveda Mahavidyalaya and Research Centre, Goa, India

<table>
<thead>
<tr>
<th>SPEAKER</th>
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<tbody>
<tr>
<td>Prof. Pulok K Mukherjee, Secretary, Society for Ethnopharmacology, Kolkata, India</td>
<td>Introduction about the Conclave: “Local Heath Tradition (LHTs)- Drugs from our ancestors”</td>
</tr>
<tr>
<td>Dr. N Srikanth, Deputy Director General, Central Council for Research in Ayurvedic Sciences (CCRAS), Ministry of AYUSH, New Delhi</td>
<td>“Local Health Traditions (LHTs) and Ethno-Medical Practices (EMPs): An Insight into Systematic Documentation &amp; Drug Development”</td>
</tr>
<tr>
<td>Dr. Shekhar Dutt, Former Governor, Chhattisgarh, Former Secretary of AYUSH, Govt. of India</td>
<td>“Traditional Medicine Systems: Evolution and Development in India”</td>
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</table>

Lecture 40:
Traditional Healthcare Practitioners I

Lecture 41:
Traditional Healthcare Practitioners II

Lecture 42:
Traditional Healthcare Practitioners III
### SECTION B: 02.00 PM - 05.00 PM

**CHAIRPERSONS**

Dr. Alka Mukne, Coordinator, Mumbai Local Chapter, SFE-India; Bombay College of Pharmacy, Mumbai, India  
Dr. Sanmoy Karmakar, Dept. of Pharmaceutical Technology, Jadavpur University, Kolkata

**SPEAKER** | **TITLE**
--- | ---
**Lecture 43: “SFE-T. Sen Oration”** | Dr. T. K. Mukherjee  
Co-Former Scientist  
CSIR-NISCAIR, New Delhi  
“Traditional Medicine: Farm to Pharma”

**Lecture 44:**  
Dr. Hariramurthi G  
University of Trans Disciplinary Health Science and Technology  
Jarakabande, Bengaluru, India | “A participatory methodology to document traditional community healthcare practices”

**Lecture 45:**  
Dr. S Rajan  
Centre of Medicinal Plants Research in Homoeopathy,  
Central Council for Research in Homeopathy,  
The Nilgiris, Tamil Nadu  
“Medicinal Plants used by the Primitive tribal Groups of Nilgiri District for their Health Care Preservation- A Global Perception”

**Lecture 46:**  
Dr. Prakash R. Itankar  
Department of Pharmaceutical Sciences  
R. T. M. Nagpur University, Nagpur, India  
“Translational Research in Herbals: Moving from Past to Future”

**Lecture 47:**  
Dr. Pramod HJ  
Dept. of Pharm. Biotechnology  
KLE University, Belgaum, Karnataka, India  
“Ethnomedicinal Practices by Traditional Healers from Belagavi Region”

**SECTION C: 05.00 PM - 05.30 PM**

**Interactive session with Traditional Healers**  
The representatives of individual groups of Traditional healers from different parts of India will make interaction with Scientists, Doctors and Technologists based on their different activities from various places, states with varied culture and biodiversity.

**SFE - GENERAL BODY MEETING** | TIME: 05.30 PM - 07.00 PM  | Interact – Hall Ga

**CONFERENCE DINNER** | TIME: 07.30 PM - 09.00 PM  | Venue: MAHE Food Court 3rd Floor
**SESSION XI: 09.00AM - 11.15 AM**

**Venue: Interact - Hall Ga**

**CHAIRPERSONS**
- Dr. T. K. Mukherjee, Former Scientist, CSIR-NISCAIR, New Delhi
- Dr. C. Mallikarjuna Rao, Professor and Principal, Manipal College of Pharmaceutical Sciences, Manipal

**SPEAKER**

<table>
<thead>
<tr>
<th>Lecture 51:</th>
<th>Dr. K Satyamoorthy</th>
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<tbody>
<tr>
<td><strong>TITLE</strong></td>
<td>“Control of Phenotypes by Prakriti Specific Epigenetic Modifications”</td>
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<tr>
<th>Lecture 52:</th>
<th>Prof. Md. Abdur Rashid</th>
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<tbody>
<tr>
<td><strong>TITLE</strong></td>
<td>“Highly Oxygenated Bioactive Flavonoids From Nicotiana plumbaginifolia (Solanaceae)”</td>
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<tr>
<th>Lecture 53:</th>
<th>Dr. R Govindarajan</th>
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<tbody>
<tr>
<td><strong>TITLE</strong></td>
<td>“Stevia rebaudiana (Bert.) Bertoni – Sweetener and beyond”</td>
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<tr>
<th>Lecture 54:</th>
<th>Dr. Sanmoy Karmakar</th>
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<tr>
<td><strong>TITLE</strong></td>
<td>“Challenges with natural products in DMPK profiling”</td>
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**SESSION XIII: 09.00 AM – 11.15 AM**

**Venue: Interact - Hall Gb**

**CHAIRPERSONS**
- Dr. Sitesh C Bachar, Department of Pharmacy, University of Dhaka, Dhaka, Bangladesh
- Dr. Satyanshu Kumar, Directorate of Medicinal and Aromatic Plants Research, Boriavi, Anand, Gujarat, India

**SPEAKER**

<table>
<thead>
<tr>
<th>Lecture 55:</th>
<th>Dr. Alka Mukne</th>
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<tbody>
<tr>
<td><strong>TITLE</strong></td>
<td>“Herbal Drug Research : Gearing Up for the 22nd Century”</td>
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<tr>
<th>Lecture 56:</th>
<th>Dr. Pallab Kanti Halder</th>
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<tr>
<td><strong>TITLE</strong></td>
<td>“Zebra fish: Model for diabetes screening”</td>
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<tr>
<th>Lecture 57:</th>
<th>Dr. Guruprasad KP</th>
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<td><strong>TITLE</strong></td>
<td>“Impact of Guduchi on DNA repair and cognition in Wild type and Alzheimer’s models of Drosophila”</td>
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<tr>
<th>Lecture 58:</th>
<th>Dr. Sathiyarayanan L.</th>
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<td><strong>TITLE</strong></td>
<td>“Herb-Drug Interaction Prospects And Challenges In Global Healthcare Scenario”</td>
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<tr>
<th>Lecture 59:</th>
<th>Dr. Marc Beyruthy</th>
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<tr>
<td><strong>TITLE</strong></td>
<td>“Medicinal Plants and Traditional Medicine –Ethno-pharmacology at the Interface of Local and Global Needs”</td>
</tr>
</tbody>
</table>

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**VALEDICTORY SESSION & PRIZE DISTRIBUTION**

**TIME: 11.45 AM - 01.30 PM**

**VENUE: Interact – Hall Ga**

**LUNCH**

**TIME: 01.30 PM - 02.30 PM**

**VENUE: MAHE Food Court 3rd Floor**
## INauguration of Poster Session and Exhibition

by 

Dr Narayana Sabhahit  
Registrar, MAHE, Manipal, India  
08 February 2019 | 2.00 PM

### Poster Session - I

**Chairpersons**

- **Dr. Prakash R Itankar**, Dept. of Pharmaceutical Sciences, RTM Nagpur University, Nagpur, India  
- **Dr. Md. Ruhul Kuddus**, Department of Pharmacy, University of Dhaka, Bangladesh  
- **Dr. O P Ajagbonna**, Faculty of Veterinary Medicine, University of Abuja, Nigeria  
- **Prof. Mehedi Masud**, Department of Pharmacy, University of Dhaka, Bangladesh  
- **Dr. R Thirumalai Kumaran**, Faculty of Pharmacy, Sri Ramachandra University, Porur, Chennai, India

**Time Schedules 08 February 2019**

- **Poster set up**: 1.00 PM – 2.00 PM
- **Poster viewings and Authors present**: 3.45 PM – 4.15 PM
- **Poster removal and Certificate distribution**: 4.30 PM  

**Poster No:**  
A1 – A132

### Poster Session - II

**Chairpersons**

- **M. Fawzi Mahomoodally**, Department of Health Sciences, University of Mauritius, Réduit, Mauritius  
- **Dr. Md. Kaiserul Islam**, Department of Pharmacy, University of Dhaka, Bangladesh  
- **Dr. Roshan S**, Department of Pharmacognosy, Deccan School of Pharmacy, Hyderabad, India  
- **Dr. Alok Pal Jain**, RKDF College of Pharmacy, Sarvepalli Radhakrishnan University, Bhopal, India

**Time Schedules 09 February 2019**

- **Poster set up**: 8.30 AM – 9.00 AM  
- **Poster viewings and Authors present**: 11.00 AM – 11.30 AM  
- **Poster removal and Certificate distribution**: 11.30 AM  

**Poster No:**  
A133 – A266
Activities of Society for Ethnopharmacology, India

The Society for Ethnopharmacology (SFE) is a registered society under the West Bengal Society Registration act and affiliated to the International Society for Ethnopharmacology (ISE). The ISE is an international scientific organization of researchers dedicated to the interdisciplinary study of the pharmacological actions of plants, animals, insects, and other organisms used in medicines of indigenous and modern, past and present, cultures. The society is also committed to the preservation and conservation of such practices for future generation.

After the grand success of the 12th International Congress of International Society for Ethnopharmacology (ISE) organized by the School of Natural Product Studies, Jadavpur University Kolkata in February 2012, the Society for Ethnopharmacology, India (SFE – India) was constituted in 2013. The Society is extremely grateful to Late Dr. APJ Abdul Kalam, former President of India, for his inspiration and support since its inception.

The Society for Ethnopharmacology, India (SFE - India) was constituted by the eminent academicians, researchers, industrialists and others with the vision of providing an environment for knowledge sharing among industrialists, researchers, students, healthcare-practitioners, decision-makers and others interested in promotion of Ethnopharmacology and medicinal plant. The mission of the society is promotion and development of traditional medicine and medicinal plants through dissemination of knowledge and development of collaboration and cooperation with the its vision on “Globalizing local knowledge and localizing global technologies”

The society organizes conferences, seminars, symposiums, workshops etc in different parts of India for discussion and sharing knowledge on different issues for cultivation, production, quality evaluation, safety, clinical studies, biological screening and several other issues of natural product research. The Society helps in forming bridge between the academia and industry for developing cost effective natural remedies. Presently the Society has several local Chapters with dynamic Coordinators for individual chapters and over 600 members across the country. To recognize the outstanding contribution in the area of medicinal plant research and Ethnopharmacology, the Society has instituted several awards which are conferred during the International congress of the society every year. This year these awards is being conferred to the dignitaries as mentioned below:

a) SFE - Lifetime Achievement Award - "Bisheswar Saha Memorial Award"
   Dr. (Mrs.) Manju Sharma, Former Secretary Department of Biotechnology, Govt. of India

b) SFE - Outstanding International Ethnopharmacologist Award - "Pranab Banerji Memorial Award"
   Dr. JN (Kobus) Eloff, Phytomedicine Programme, Faculty of Veterinary Medicine, University of Pretoria, Pretoria, South Africa

c) SFE - Outstanding National Ethnopharmacologist Award - “Harihar Mukherjee Memorial Award”
   Dr. Marthanda Varma Sankaran Vaiyathan, Founder Vice Chancellor, Manipal Academy of Higher Education, Manipal, Karnataka, India

d) SFE - ZANDU Award for “Best Research on Plant Drugs” – supported by Emami Ltd., Kolkata
   Prof. Anand K Choudhary, Dept. of Rasa Shastra, Institute of Medical Sciences, Banaras Hindu University, Varanasi, India

e) SFE - Outstanding Service Award – “Pratim Banerji Memorial Award” – supported by Parkar Robinson Pvt. Ltd., Kolkata
   Dr. N. Udupa, Research Director, Manipal Academy of Higher Education, Manipal, Karnataka, India & Organizing Secretary, SFEC – 2019 & Coordinator, Manipal Local Chapter, SFE-India

f) SFE- Dr. Tuhinadri Sen Oration Award
   Dr. T. K. Mukherjee, Former Scientist, CSIR-NISCAIR, New Delhi

g) SFE - Herbal Industry Leader Award
   Dabur India Pvt. Ltd., Asaf Ali Road, New Delhi, India

h) SFE – Special Recognition Awards
   Dr. Saleemulla Khan, Principal, PA College of Pharmacy, Mangalore & Joint Organizing Secretary, SFEC 2019
   Dr. Harpal S. Buttar, Department of Pathology & Laboratory Medicine, University of Ottawa, School of Medicine, Ottawa, Ontario, Canada

i) SFE – Outstanding Local Chapter Award
   SFE-India, Delhi Local Chapter

j) SFE- Young Ethnopharmacologist Award - “Dr. PK Debnath memorial Award”

Society of Ethnopharmacology (SFE-INDIA) is dedicated for the dissemination of knowledge and information through different educational programmes throughout India and also to serve as a bridge between industry and academia for development of products, process for value addition and promotion of medicinal plants as well as herbal medicines used in ancient system of medicine and folklore and sharing of experience on the scientific evaluation of Ethnopharmacology of HMs for betterment of healthcare of the society. The major activities of the society are:
• Dissemination of knowledge for promotion and development of Ethnopharmacology and medicinal plants.
• To carry out the objectives of International Society for Ethnopharmacology.
• Organizing conferences, seminars, symposiums, workshops etc. in different parts of India.
• Promotion and development of Ethnopharmacology, Herbal Medicines, medicinal plants and other natural products in India.
• Promotion of the healthcare of the society.
• Sharing knowledge on various issues on cultivation, production and validation of traditional medicine, quality & safety evaluation, pre-clinical screening & clinical studies and several other issues of natural products.
• Act as a resource at local level for individuals including students interested in Ethnopharmacology.
• Encourage career growth and Knowledge empowerment of its members.
• Publishing journals, newsletters, documents, books, etc. for promotion of knowledge in the field of natural product research.

For dissemination of knowledge, several chapters of the society has been made at Guwahati, Bhopal, Chennai, Delhi, Manipal, Mumbai, Nagpur, Belgaum, Pune with active leaderships of the local chapter coordinators from different parts of India (Table 1). The society has organized several seminars, conference etc. throughout the country since its inception. These activities of SFE-INDIA have been shown in Table 2.

Table 1: Details of the local chapter coordinators of SFE-India

<table>
<thead>
<tr>
<th>NAME OF THE CHAPTER</th>
<th>NAME OF THE COORDINATOR</th>
<th>DETAILS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belgaum, Local Chapter</td>
<td>Dr. Pramod HJ</td>
<td>Coordinator, Belgaum, Local Chapter &amp; Head-Pharm. Biotechnology KLE University, Belgaum, Karnataka, India</td>
</tr>
<tr>
<td>Bhopal, Local Chapter</td>
<td>Dr. Rajesh Singh Pawar</td>
<td>Coordinator, Bhopal, Local Chapter &amp; Professor, Faculty of Pharmacy VNS Group of Institutions, Bhopal, M.P., India</td>
</tr>
<tr>
<td>Chennai, Local Chapter</td>
<td>Dr. D Chamundeeswari</td>
<td>Coordinator, Chennai, Local Chapter &amp; Principal, Faculty of Pharmacy, Sri Ramachandra University, Porur, Chennai, India</td>
</tr>
<tr>
<td>Delhi, Local Chapter</td>
<td>Dr. Sayeed Ahmad</td>
<td>Coordinator, Delhi, Local Chapter &amp; Department of Pharmacognosy and Phytochemistry, Faculty of Pharmacy, Jamia Hamdard (Hamdard University), Hamdard Nagar, New Delhi, India</td>
</tr>
<tr>
<td>Guwahati, Local Chapter</td>
<td>Dr. Chandana Barua</td>
<td>Coordinator, Guwahati, Local Chapter &amp; Professor - Dept. of Pharmacology &amp; Toxicology College of Veterinary Science, Khanapara, Guwahati, India</td>
</tr>
<tr>
<td>Manipal, Local Chapter</td>
<td>Dr. N Udupa</td>
<td>Coordinator, Manipal, Local Chapter &amp; Principal, Manipal College of Pharmaceutical Sciences, Manipal, Karnataka, India</td>
</tr>
<tr>
<td>Mumbai, Local Chapter</td>
<td>Dr. Alka Mukne</td>
<td>Coordinator, Mumbai, Local Chapter &amp; Faculty, Bombay College of Pharmacy Kalina, Santacruz (E), Mumbai, MH, India</td>
</tr>
<tr>
<td>Nagpur, Local Chapter</td>
<td>Dr. Prakash R Itankar</td>
<td>Coordinator, Nagpur, Local Chapter Associate Professor - Department of Pharmaceutical Sciences, R. T. M. Nagpur University, Nagpur, MH, India</td>
</tr>
<tr>
<td>Pune Local Chapter</td>
<td>Dr. Sathiyanarayanan L.</td>
<td>Coordinator, Pune Local Chapter Associate Professor - Dept of Pharmaceutical Chemistry Bharati Vidyapeeth University Poona College of Pharmacy, Pune, MH, India</td>
</tr>
</tbody>
</table>
Some activities of the Society for Ethnopharmacology, India and its different local chapters:

- The International Conclave on “Ethnopharmacology, Ethnomedicine and Traditional Health Practices: Global Scenario” was organized by Society for Ethnopharmacology, Kolkata, India (SFE-India) jointly with World Ayurveda Foundation, Bengaluru, Karnataka at Ahmedabad, Gujarat, India as a part of 8th World Ayurveda Congress & AROGYA Expo (8th WAC), during December 16-17, 2018. The major thrust areas of the conference included “Learning from nature and our ancestor: Tradition meets Innovation”. There was interactive session between traditional health practitioner and the scientists. The program was accomplished with a great success with an overwhelming response of more than 300 participants from different states of the country.

- The 1st International Conference on “Globalisation of Traditional Medicine” was organized by the School of Health Science, Mae Fah Luang University in association with the Society for Ethnopharmacology, India at Mae Fah Luang University, Chiang Rai, Thailand during December 6-7, 2018. The scientific program deals with a variety of topics focused on development of health care through herbs will be addressed. We are very much thankful to all the colleagues of the School of Health Science, particularly Dr Rawiwan, Organizing Secretary and her esteemed group members of Mae Fah Luang University, Chiang Rai, Thailand for taking keen initiatives with SFE India for organizing this event and developing the scientific program. This program had more than 70 scientific presentations with participation over 200 delegates from different parts of world.

- The Mumbai Local Chapter of SFE-India was organized National Seminar on “Nutraceuticals: Recent Trends and Advances” at Bombay College of Pharmacy, Mumbai, MH, India on November 30, 2018. This program was attended by more than 250 participants and had several scientific presentations. We would like to express our sincere thanks to Dr. Alka Mukne, Coordinator, Mumbai Local Chapter, SFE-India and her active team member for organizing this event.

- The 5th Convention of SFE-India and the National Symposium on “Promotion and Development of Indian Medicinal Plants – special reference to Brahmi (Bacopa monnieri)” was organized by the School of Natural Product Studies, Jadavpur University in association with Society for Ethnopharmacology, India (SFE-India) at Jadavpur University, Kolkata on September 7-8, 2018. This convention has evidenced with participation over 350 participants from different states of the country and had more than 105 scientific presentations including oral and poster session.

- The 3rd International Conference (Innopharm 3) on “Academic and Industrial Innovations: Transition in Pharmaceutical, Medical and Biosciences” was organized by the Bhopal Local Chapter of SFE-India at Kala Academy, Panjim, Goa during October 22-23, 2018. The Society is very much thankful to Dr. Rajesh Singh Pawar for organizing such event for the promotion and development of SFE-India at large. This event was attended by more than 300 delegates and had several scientific presentation including oral and poster presentation.

- National conference entitled “Ethno-medicine and Traditional Health Practices in Northeast region of India” was organized in the collaboration with the NIPER Guwahati and the Society for Ethnopharmacology, India on 25th August 2018 at NIPER Guwahati, Mirza Campus, Assam (INDIA). This conference focused on current issues related to drug discovery & development from medicinal and aromatic plants with their quality evaluation, validation and safety aspects. Distinguished deliberations provided information and new idea for activities within the frame of medicinal and aromatic plants of Northeast India. Young scholars to showed their progress and research potentials in herbal technology research. Researchers, scientists, pharmaceutical and chemical industries, drug regulatory bodies participated in discussions on development of nutraceuticals or phytopharmaceuticals from herbal sources and their sustainable development in Northeast region of India.

- The 18th Annual International Congress of International Society for Ethnopharmacology (ISE) and the 5th International Congress of the Society for Ethnopharmacology (SFE), India (ISE-SFEC 2018) was organized by the Society for Ethnopharmacology, India during January 13-15, 2018 in association with the Department of Pharmacy, Faculty of Pharmacy, University of Dhaka. The theme of the congress was ‘Ethnopharmacology & Drug Development: Innovation meets Tradition’ at Nabab Nawab Ali Chowdhury Senate Bhaban, University of Dhaka. It was focus on several crucial and contemporary issues on the scientific study based on of Ethnopharmacology and medicinal plants by the renowned scientists throughout the world. The scientists, educationists, students, regulatory bodies and manufacturers from 32 countries had attended. Moreover, about 150 Indian scientists, educationists, manufacturers and students were also participated in this big event. The total of 850+ delegates or participants attended this congress on traditional medicine including 650 from Bangladesh. That had provided an ideal platform for the participants to present their research work, interact, debate and disseminate of ideas amongst the distinguished professionals, eminent scientists, technologist and
industrialist from different parts of the world. Through this congress our students, teachers, manufacturers and regulatory body have enriched their knowledge and expertise through exchanging their views and ideas with national and foreign participants. This acquired knowledge definitely will help us to produce quality traditional medicines for the peoples of Bangladesh. You know that this definitely will fulfill the objectives of MoU signed between the Secretary, Ministry of AYUSH, GoI and Secretary, Ministry of Health & Family Welfare (MoHFW), GoI mentioned in article -2. Speakers from different parts of the world had given emphasis on herbs and plants as essential drugs in primary healthcare as it is derived from nature, which is very safe and useful for human body. They pointed out the feasibility of Traditional Medicines in Bangladesh mentioning the huge global markets as India and China is doing. The speakers both from home and abroad also emphasized on more evidence based scientific research activities with the medicinal plants of Bangladesh.

- The 4th Convention of SFE-India; the National Symposium on “Ashwagandha” and Ethnopharmacology conclave on “Uses of Medicinal Plants by Traditional Healers of India – Local Health Tradition” was organized School of Natural Product Studies, Jadavpur University in association with Society for Ethnopharmacology, India (SFE-India) at Jadavpur University, Kolkata on September 09-10, 2-17. This convention has evidenced participation of over 300 participants from different states of the country and had more than 110 scientific presentations including oral and poster session.

- SFE-India Nagpur Local Chapter organized a “National Conference of Traditional Community Health Practitioners for Conservation of Lokswasthya parampara” on 22nd July 2017 in association with Maharashtra State Biodiversity Board, Forest Development Corporation of Maharashtra, at Mission India Campus, Khadgaon, Nagpur. This program was attended by about 800 delegates comprising healers, physicians of various pathy, scientists, researchers from various institutes and students. SFE-India thanks to Dr. Prakash R Itankar, Coordinator, Nagpur, Local Chapter and his team for organizing this event.

- National level Conference was organized by Chennai local chapter of SFE-india on “Current Perspectives in Herbal Drug Regulations- Global Scenario” at Sri Ramchandra University, Porur, Chennai during June, 27-29, 2017. This program was attended by about 300 delegates including different prominent scientists and researchers throughout India. SFEIndia is thankful to Dr. D. Chamundeewari, Coordinator, SFE-India Chennai local chapter for organizing this event.

- Several invited lectures by distinguished speakers were arranged by the SFE-India, Kolkata on emerging topics on Ethnopharmacology and promotion of medicinal plants by the Society office at Kolkata and also in collaboration with School of Natural Product Studies, Jadavpur University, Kolkata in every year to discuss different aspects of Natural Product Research by eminent scientists throughout the globe.

- A special issue on “Ethnopharmacology and validation of Traditional Medicine” was developed by Society for Ethnopharmacology, India and published in Indian Journal of Traditional Knowledge; Volume 14 (4), (October 2015). This special issue was edited by Dr. Pulok K Mukherjee; Dr. Tapan K Mukherjee. This issue is available in http://nopr.niscair.res.in/handle/123456789/32961.

- A special issue on “Ayurveda” was published in Journal of Ethnopharmacology, Elsevier Science, USA; Volume 197, Pages 1-306 (February 2017). This was an initiative by Society for Ethnopharmacology, India to promote Traditional Medicine. This special issue was edited by Dr. Pulok K Mukherjee; Dr. CK Katiyar and Dr. Bhushan Patwardhan. This issue is available in https://www.sciencedirect.com/science/journal/03788741/197/supp/C

- A special issue on Ashwagandha will be published in Journal of Ethnopharmacology, Elsevier Science, USA. This is an initiative by Society for Ethnopharmacology, India to promote Indian Medicinal Plants at large. This special issue will be edited by Dr. Pulok K Mukherjee; Dr. CK Katiyar and Dr. Bhushan Patwardhan.

- The society is publishing the News letter regularly in different aspects for development and promotion of medicinal plants and Ethnopharmacology. We are very excited by the keen interest of our members of SFE from a diverse number of institutes and industries throughout the country to share the knowledge in this regard.

With our limited strength, esteemed efforts and keen interest of our members we have been working for the promotion and development of medicinal plants and ethnopharmacology in various ways. We cordially invite you all to join SFE-India in our efforts of “Globalizing local knowledge; localizing global technologies” for a healthier tomorrow, capitalizing the very rich heritage and culture that is so ethnic, so ancient and yet so Indian.

Prof. Pulok K Mukherjee, PhD, FRSC
Secretary
Society for Ethnopharmacology, India
23/3 Saktigarh, Jadavpur, Kolkata 700032

Dr. Birendra K Sarkar
President
Society for Ethnopharmacology, India
23/3 Saktigarh, Jadavpur, Kolkata 700032
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Vice-President

Dr. Pulok K. Mukherjee  
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Mr. Sibeswar Saha  
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GPS, USA
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Dr. Sayeed Ahmed
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Dr. Alka Mukne
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Dr. Rajesh S Pawar
Bhopal, Madhya Pradesh, India

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Associate

Mr. Joydeb Chanda
Associate

Mr. Bhaskar Das
Associate

Ms. Seha Singha
Associate
International Conclave ‘Ethnopharmacology, Ethno-medicine and Traditional Health Practices - Global Scenario’ during 8th World Ayurveda Congress & Arogyo Expo 2018 at Ahmedabad, Gujarat, India from December 16-17, 2018

International Conclave ‘Globalisation of Traditional Medicine’ during December 6-7, 2018 at Mae Fah Luang University, Ching Rai, Thailand

We are very much grateful and thankful to him for his great inspiration, which leads to the formation of Society for Ethnopharmacology, India (SFE-India).
4th Convention of Society for Ethnopharmacology, India during September 09-10, 2017
at Jadavpur University, Kolkata, India

18th Congress of ISE & 5th Congress of SFE (ISE SFEC-2018) during January 13-15, 2018 at
University of Dhaka, Dhaka, Bangladesh
National Conference on ‘Traditional Community Health Practitioners for Conservation of Lokswasthya parampara’ on 22nd July 2017 was organized by SFE-India, Nagpur Local Chapter at RTM Nagpur University, Nagpur, MH, India

Meeting of Society for Ethnopharmacology, India for ‘Promotion of Ethnomedicine’ was organized by SFE-India, Pune Local Chapter on August 05, 2017 at Poona College of Pharmacy, Pune, MH
Indian Journal of Traditional Knowledge
A Special Issue on
Ethnopharmacology and Validation of Traditional Medicine
Edited by
Dr. Pulok K Mukherjee; Dr. Tapan K Mukherjee
IJTK Vol. 14 (4); October 2015
http://nopr.niscair.res.in/handle/123456789/32961

Journal of Ethnopharmacology
Special Issue on Ayurveda
Edited by
Pulok K Mukherjee, Katiyar C. K. and Bhushan Patwardhan
Volume 197, Pages 1-306 (2 February 2017)

Journal of Ethnopharmacology
Special Issue on Ashwagandha
(Upcoming issue) - 2019
Edited by
Pulok K Mukherjee, Katiyar C. K. and Bhushan Patwardhan
To recognize the outstanding contribution in the area of Ethnopharmacology and medicinal plant research, the Society for Ethnopharmacology, India has instituted several awards. The society received several Nominations for the annual awards 2019. We are happy to confer these awards to those who have made potential contribution in this area.

“SFE - Lifetime Achievement Award - 2019”

“Bisheswar Saha Memorial Award” – which has been instituted by the society with the help of Mr. Sibeswar Saha, in memory of his beloved father Sri. Bisheswar Saha.

Dr. (Mrs.) Manju Sharma is a distinguished biologist; nationally and internationally recognized for her monumental contributions in promotion of science and technology, in particular the emerging field of biotechnology. With her vision, dedication and sustained efforts she is largely responsible for the rapid progress of biotechnology research, application and commercialization in our country. She has played a pivotal role in taking up the cause of women in science and application of science and technology for the benefit of women, disadvantaged people and rural areas. Born in February, 1940 trained as a Plant Scientist; she took a first class M.Sc. from Lucknow University in 1961 and received the Birbal Sahni Memorial Gold Medal. Since 1974 she joined the Department of Science and Technology, Planning Commission, Scientific Adviser to the PM, and Department of Biotechnology and played a key role in promoting S & T in general and Biosciences in particular. She is a nominated member of State Planning Board, Government of Himachal Pradesh and Chairperson of the Vision Group, Government of Orissa; and Member of the Biotechnology Advisory Council, Govt. of Gujarat. She has conceptualized and set up the Biotech Consortium India Ltd. (BCIL) to bridge the gap between industry, academia and research. Dr. Manju Sharma has extensive international experience as a resource person for UN Organizations, as a Regional Coordinator of Farmer-Centered Agricultural Resource Management (FARM) on Biotechnology and Biodiversity; coordination and monitoring of eight participating countries, the establishment of gene bank for Medicinal and Aromatic plants, and act as the coordinator for G-15 countries. She was responsible for the bilateral international agreements with US, Sweden, Tunisia, Russia, Slovenia etc. She was elected to the Executive Committee and Council of Indian Science Congress Association and served as Chairperson and Member Secretary of many scientific Committees, Task Forces and Research Advisory Councils. As Secretary, DBT, she has taken many initiatives to convert the idea into products and processes like diagnostic kits for AIDS; new drugs; vaccines; biofertilizers; etc. which was transferred to the industry. She was the General President of Indian Science Congress Association in 1998; President of Association of Microbiologists of India for 1999; President of Vigyan Parishad, Allahabad, and honored by the Andhra Pradesh Academy of Sciences as Distinguished Scientist on “International Year of Women”. She was elected as the President of Orchid Society of India and Fellow of Indian Society of Agricultural Biochemists. All India Conference of Intellectuals honored her DELHI RATAN in 2003. She is a Fellow of Third World Academy of Sciences; Fellow of National Academy of Agricultural Sciences. She has been conferred Indian Science Writers’ Association (ISWA) Fellowship 2000 and National Academy of Sericulture Sciences Fellowship 2003. Indian Women Scientists Association felicitated her lifetime contribution for biotechnology and as a source of inspiration for young women scientists. The Indian Science Congress Association conferred Dr. BP Pal Memorial Award 2001; Government of Madhya Pradesh conferred Pt. Jawaharlal Nehru National Award 2000 and Govt. of Uttar Pradesh with Vigyan Gaurav award. She achieved tremendous international recognition as member and chairperson of various international committees. As the Fellow and Past President of the National Academy of Sciences, she continues to contribute in the growth of the Academy in all scientific activities. She received NASI’s Platinum Jubilee Gold Medal for her lifetime contributions in Academy’s growth from the Prime Minister of India on 6th October, 2006; National Senior Women Bioscientist Award, and Padma Bhushan by Govt. of India in 2007. Recently she received Archana Sharma Memorial Award of NASI, Allahabad. From Purdue University, Indiana, USA she received an Honorary Doctorate in Science in May 2012; and Honorary Doctorate from Orissa University of Agriculture & Technology in December 2011. Presently she is holding the distinguished women scientist Chair of NASI.

Based on her outstanding contribution for the promotion of Science and Technology of our country, the Society for Ethnopharmacology, India is honored to confer the “SFE Lifetime Achievement Award - 2019” to Dr. (Mrs.) Manju Sharma.
“SFE Outstanding International Ethnopharmacologist Award – 2019”

“Pranab Banerji Memorial Award” - instituted by the society.

Prof. JN (Kobus) Eloff is the founder of the interdisciplinary PhytoMedicine Programme, Faculty of Veterinary Science, University of Pretoria. Previously, he was the executive Director of National Botanic Gardens and Research Director of National Botanical Institute. He has supervised 48 MSc and 49 PhD students. He is served as the Editor of several reputed journals. He has also served as the editorial board member of several reputed scientific journals. He has published more than 300 research and review article having > 10800 citations, h-index 50. Prof. Eloff has managed several projects leading to African Herbal Pharmacopoeia. He has registered several patents and transferred to industries based on his research work. Prof. Eloff served as the executive committee member of several national and international boards. He has received several laurel awards from national and international agencies including International Horticultural Society Bronze medal, South African Association Botanists Silver, Gold medal and honorary Life Membership, SA Akademie vir Wetenskap en Kuns Havenga Gold medal, National Science and Technology Forum Eskom Prize for capacity development and gold medal from the Academy for Science of South Africa (ASSAf).

Based on the outstanding contribution of Prof. JN (Kobus) Eloff, Society for Ethnopharmacology, India is honored to confer him the “SFE - Outstanding International Ethnopharmacologist Award – 2019”.

“SFE Outstanding National Ethnopharmacologist Award – 2019”

“Harihar Mukherjee Memorial Award” – this award has been instituted by the society with the help of Prof. Pulok K. Mukherjee, in memory of his beloved father Sri Harihar Mukherjee.

Dr. M S Valiathan is the Honorary Research Professor and Founder Vice Chancellor, Manipal Academy of Higher Education, Manipal. Dr. Valiathan is a prominent scientist, who has contributed immensely in the field of Science and Technology, Medicine, Ayurveda and Indian System of Medicine. Dr Valiathan is the member of many task-force committees of Government of India. He was the President of the Indian National Science Academy and National Research Professor of the Government of India. In 2005, he was honoured with the prestigious Padma Vibhushan for his contributions to health technology in India. In 1999, he was made a Chevalier in the order of Palmes Academiques, an honour bestowed by French government. He received the Dr. Samuel P. Asper International award from the Johns Hopkins University Medical School in 2009 for his contributions to international medical education. Dr Valiathan has also published several research papers and books. Dr. Valiathan has received several honorary degrees, fellowships and awards from different organization. Currently, Dr. Valiathan is engaged in promoting research in basic sciences, based on the clues from Ayurvedic concepts and procedures.

Based on the outstanding contribution of Dr. Marthanda Varma Sanikaran Valiathan, in the field of Ayurveda, Ethnopharmacology and Medicinal Plant Research, the Society for Ethnopharmacology, India is honored to confer him the “SFE Outstanding National Ethnopharmacologist Award – 2019”

“SFE- Outstanding Service Award – 2019”

“Pratim Banerji Memorial Award” – this award has been instituted by Society for Ethnopharmacology supported by Parker Robinson Pvt. Ltd., Kolkata, in memory of beloved president of SFE-India Dr. Pratim Banerji.

Prof. N. Udupa has made outstanding contribution for the Promotion and Development of the Society for Ethnopharmacology, India through Manipal local chapter. He is the Research Director, Manipal Academy of Higher Education, Manipal, Karnataka State, India. Prof. Udupa is also the organizing chairman of the 6th International Congress of Society for Ethnopharmacology, India (SFEC - 2019). He has contributed a lot in the field of Ethnopharmacolgy & medicinal plant research and also published numerous research & review papers in reputed journals and books.

For his outstanding contribution for development and promotion of the Society for Ethnopharmacology, India and hosting the 6th International Congress of the society, SFE-India is honored to confer the “SFE Outstanding Service Award – 2019” to Prof. N. Udupa.
“SFE – ZANDU Award – 2019”

This award has been instituted by Society, supported by Emami Ltd., Kolkata for Best Research on Plant Drugs

Dr. Anand K Choudhary is currently working as Head, Department of Rasa Shastra & Bhaishya Kalpana (Ayurvedic Pharmaceutics), Faculty of Ayurveda, Institute of Medical Sciences, Banaras Hindu University, Varanasi. Dr. Choudhary has published more than 130 research and review paper and also edited one book and 03 book chapters. Dr. Choudhary work in different committee of Govt. of India and have received several awards. Dr. Choudhary is also associated with several journals as editor and editorial board members.

For the outstanding contribution of Dr. Anand K Choudhary in the field of medicinal plant research, Society for Ethnopharmacology, India is honored to confer the “SFEZANDU Award – 2019”.

“SFE-T Sen Oration Award – 2019”

This award is newly instituted by our society in the memory of Prof. Tuhinadri Sen, who was a very active member of the Society for Ethnopharmacology, India.

Dr. Tapan K Mukherjee was the scientist in CSIR - National Institute of Science Communication and Information Resources (NISCAIR), New Delhi after completing studies from Rajasthan University, Jaipur, Rajasthan. Dr Mukherjee served as an Editor, Medicinal & Aromatic Plants Abstracts (MAPA), and Indian Journal of Traditional Knowledge published by CSIR-NISCAIR, New Delhi. Dr Mukherjee was also associated with Traditional Knowledge Digital Library (TKDL) since its inception to create the Digital Library of Indian Traditional Knowledge systems for defensive protection through IPR. Dr Mukherjee has experience of more than 30 years of in Science Editing, Research, writing scientific articles, Preparing Presentations and reports. Dr. Mukherjee is the Fellow of Indian Botanical Society.

Based on his contribution in the field ethnopharmacology and traditional medicine, Society is honored to confer Prof. Mohammad Abdur Rashid the “SFE-T Sen Oration Award – 2019”.

“SFE - Special Recognition Award – 2019”

Dr. Saleemulla Khan is working as the Principal, PA. College of Pharmacy, Mangalore, Karnataka. Dr. Khan started his career as pharmacist in Abu-Dhabi, UAE, and then appointed as Lecturer in JSS College of Pharmacy, Ooty. Later, he joined in the Manipal College of Pharmaceutical Sciences Manipal as Senior lecturer. Dr Saleemulla Khan has published more than 35 research and review papers and 5 book chapters. Dr. Khan has received several awards including “Best Audio visual teaching material” from MAHE, Young investigator from International Research Society, Best poster award at Euro-India International Conference at Kerala. Dr. Khan is also serving as the active member of Manipal Local Chapter, Society for Ethnopharmacology. He is also the organizing secretary of the 6th International Congress of the Society for Ethnopharmacology (SFEC-2019) at Manipal, India.

For his contribution to the society, SFE - India is honored to confer the “SFE - Special Recognition Award – 2019” to Dr. Saleemulla Khan.
“SFE - Special Recognition Award – 2019”

This award has been instituted by Society, supported by Emami Ltd., Kolkata for Best Research on Plant Drugs

Dr. Harpal Singh Buttar is working in the Department of Pathology & Laboratory Medicine, Faculty of Medicine, University of Ottawa, Ontario, Canada. He has earned his degree in Veterinary Medicine from Hissar (India) followed by M.Sc. and Ph.D. degrees in Pharmacology from the University of Alberta, Edmonton, Canada. Dr. Buttar has made valuable contributions in the prevention of cardiovascular diseases, obesity, and diabetes through dietary interventions and lifestyle modifications. He is elected as the Fellow of International College of Nutrition and International Academy of Cardiovascular Sciences (IACS). Dr. Buttar is a scientist of international stature, and has received many Honors/Awards/ Fellowships from India and Canada. He has served on the Editorial Boards of several international journals, authored/co-authored 110 research and review papers and 10 book chapters.

For his support to the activities of the Society, Society for Ethnopharmacology, India is honored to confer the “SFE Special Recognition Award - 2019 to Dr. Harpal Singh Buttar.

“SFE - Herbal Industry Leader Award – 2019”

Dabur India Limited (DIL) is one of the most trusted and oldest names of India and world’s leading Ayurvedic and Natural Health Care Company. Dabur has always believed strongly in the heritage and relevance of Ayurveda and has been involved in promoting this system of healthcare among its consumers. With a team of 126 scientists and state of the art equipment, Dabur’s research wing has been engaged in research in both classical/ ethical as well as OTC formulation. DIL driven organization with a solid track record in the industry of over 134 years. Dabur has launched a host of products based on the ancient science of Ayurveda and presented them to consumers in modern, ready to use formats under the aide of R&D. Dabur is versatile in the conservation / cultivation of medicinal plants from Kashmir to Kanyakumari in 22 states across the length and breadth of India. Dabur has conducted more than 300 Pre-clinical Safety Studies, more than 100 Pre-clinical Efficacy Studies, more than 75 Clinical Efficacy Studies.

Based on the contribution and outstanding business practice on promotion and development of medicinal plants and natural products, Society for Ethnopharmacology, India is honored to confer the “SFE - Herbal Industry Leader Award – 2019 to Mr. Mohit Malhotra, CEO on behalf of the Dabur India Ltd.

“SFE- Outstanding Local Chapter Award – 2019”

SFE-India, Delhi Local Chapter

Dr. Sayeed Ahmad, being a coordinator of SFE-India, Delhi Local Chapter, and his active team members has organized several workshops and meetings time to time to promote the society to a high extent. In the previous year, he also has attended the seminars and conferences organized by SFE-India to interact with the members and coordinators of the society along with his team.

Dr. Ahmed has been working a lot for the promotion and development of SFE-India through Delhi Local Chapter to achieve the mission of the society.

For the outstanding contribution of Delhi Local Chapter in his patronage, Society is honored to confer the “SFE- Outstanding Local Chapter Award – 2019” to Dr. Ahmad and his group.
Recipients of SFE-INDIA Awards for 2018:

- **SFE - Lifetime Achievement Award “Bisheswar Saha Memorial Award”:**
  Shri Sekhar Dutt, Ex-Governor of Chhattisgarh, India; Secretary, Ministry of Defence, Govt. of India and Secretary, Department of AYUSH, Govt. of India

- **SFE - Outstanding International Ethnopharmacologist Award: “Pranab Banerji Memorial Award”:**
  Dr. Rudolf Bauer, Head, Institute of Pharmaceutical Sciences at University of Graz, Austria

- **SFE-Outstanding National Ethnopharmacologist Award “Harihar Mukherjee Memorial Award”:**
  Prof. Samir Bhattacharya, Emeritus Professor at the School of Life Science, Visva Bharati University, Santiniketan, WB.

- **SFE-ZANDU award “Best Research on Plant Drug”:**
  Dr. Neeraj Tandon, Scientist G, Indian Council of Medical Research, Govt. of India, New Delhi, India

- **“SFE-T Sen Oration Award”**
  Prof. Abdur Rashid, Dean of the Faculty of Pharmacy, University of Dhaka, Bangladesh.

- **“SFE- Outstanding Local Chapter Award”**
  SFE-India, Nagpur Local Chapter; Dr. Prakash R Itankar, Coordinator

- **“SFE - Special Recognition Award”:**
  - Dr. Anna K Jäger, Associate Professor, University of Copenhagen, Denmark
  - Professor Mohammed Rahmatullah, Dean, Faculty of Life Sciences University of Development Alternative, Dhaka, Bangladesh.
  - Dr. Santanu Bhadra, Senior Scientific Writer, Novartis Healthcare Private Limited, Hyderabad, India
  - Prof. K R Mahadik, Principal, Poona College of Pharmacy, Pune, MH, India.

- **“SFE - Outstanding Service Award”:**
  Prof. Sitesh C Bachar, Chairman, Department of Pharmacy, Faculty of Pharmacy, Dhaka University, Dhaka, Bangladesh

- **“SFE - Herbal Industry Leader Award”:**
  Square Herbal and Neutraceutical Ltd., Bangladesh

Recipients of SFE-INDIA Awards for 2017:

- **SFE - Lifetime Achievement Award “Bisheswar Saha Memorial Award”:**
  Prof. S. P. Thyagarajan, Dean (Research) of Sri Ramachandra University, Porur, Chennai.

- **SFE - Outstanding International Ethnopharmacologist Award: “Pranab Banerji Memorial Award”:**
  Dr. Mark Blumenthal, Founder and Executive Director, American Botanical Council (ABC), Austin, TX, USA

- **SFE-Outstanding National Ethnopharmacologist Award “Harihar Mukherjee Memorial Award”:**
  Prof. Vaidya Kartar Singh Dhiman, Director General, Central Council for Research in Ayurvedic Sciences, Ministry of AYUSH, New Delhi.

- **SFE-ZANDU award “Best Research on Plant Drug”:**
  Dr. Surinder Kumar Sharma, Former Advisor Ayurveda, Ministry of AYUSH, Govt. of India, New Delhi.

- **SFE- Young Ethnopharmacologist Award – 2017 “P K Debnath Memorial Award”:**
  Dr. Sayeed Ahmad, Assistant Professor, Department of Pharmacognosy and Phytochemistry, Faculty of Pharmacy, Jamia Hamdard (Hamdard University), New Delhi.

- **“SFE-T Sen Oration Award – 2017”**
  Dr. Motialepula Gilbert Matsabisa, Director IKS Lead Programme, Department of Pharmacology, Faculty of Health Sciences, University of the Free State, Bloemfontein, South Africa

- **“SFE- Outstanding Local Chapter Award – 2017”**
  SFE-India, Guwahati Local Chapter; Dr. Chandana Baruah, Coordinator

- **“SFE - Special Recognition Award”:**
  Dr. Dinesh R. Shah is Provost of Uka Tarsadia University (UTU), Bardoli, Gujarat.

- **“SFE - Outstanding Service Award”:**
  Dr. Ramar Krishnamurthy, Director, C G Bhakta Institute of Biotechnology & Dean of Uka Tarsadia University, Bardoli, Surat.

- **“SFE - Herbal Industry Leader Award”:**
Recipients of SFE-INDIA Awards for 2016:

- **SFE - Lifetime Achievement Award “Bisheswar Saha Memorial Award”**: Prof. Ashok DB Vaidya, Research Director in Medical Research Centre, Kasturba Health Society, Mumbai.
- **SFE - Outstanding International Ethnopharmacologist Award: “Pranab Banerji Memorial Award”**: Dr. Robert Verpoorte, professor, Natural Products Laboratory, Institute of Biology, Leiden University, Netherlands.
- **SFE-Outstanding National Ethnopharmacologist Award “Harihar Mukherjee Memorial Award”**: Dr. Debprasad Chattopadhyay, Deputy Director, ICMR Virus Unit, Beliaghata, Kolkata.
- **SFE-ZANDU award “Best Research on Plant Drug”**: Dr. Ram Vishwakarma, Director, CSIR - Indian Institute of Integrative Medicine, Council of Scientific & Industrial Research, Jammu, India.
- **“SFE - Special Recognition Award”**: Dr. S. K. Pandey, Vice Chancellor Pt. Ravishankar Shukla University, Raipur, CG.
- **“SFE - Outstanding Service Award”**: Sri Birendra Kumar Sarkar, Managing Director and CEO, Parker Robinson Pvt. Ltd, Kolkata

Recipients of SFE-INDIA Awards for 2015:

- **SFE - Lifetime Achievement Award “Bisheswar Saha Memorial Award”**: Dr. Chadrakant Kokate, Vice Chancellor of KLE University, Belgaum, India.
- **SFE - Outstanding International Ethnopharmacologist Award: “Pranab Banerji Memorial Award”**: Dr. Geoffrey A. Cordell is the Emeritus professor of Pharmacognosy, College of Pharmacy, University of Illinois at Chicago.
- **SFE-Outstanding National Ethnopharmacologist Award “Harihar Mukherjee Memorial Award”**: Dr. Bhushan Patwardhan is the Professor and Director, Interdisciplinary School of Health Sciences, University of Pune, Pune, India.
- **SFE-ZANDU award “Best Research on Plant Drug”**: Dr. Ajay Kumar Singh Rawat, Head of the department of Pharmacognosy & Ethnopharmacology Division, National Botanical Research Institute (NBRI), Lucknow, India.
- **“SFE - Special Recognition Award”**: Mr. Birendra Kumar Sarkar, Managing Director, Parker Robinson Pvt. Ltd., Kolkata, India.
- **“SFE - Outstanding Service Award”**: Dr. Prakash Rambhauji Itankar, Dept. of Pharmaceutical Sciences, Rashtrasant, Tukadoji Maharaj Nagpur University, Nagpur, India.

Recipients of SFE-INDIA Awards for 2014:

- **SFE –Lifetime Achievement Award “Bisheswar Saha Memorial Award”**: Dr. Sukhdev Swami Handa, Former Director Indian Institute of Integrative Medicines & Professor, University Institute of Pharmaceutical Sciences, Panjab University, Chandigarh, India
- **SFE-Outstanding National Ethnopharmacology Award “Harihar Mukherjee Memorial Award”**: Dr. Y. K. Gupta, Professor and Head, Department of Pharmacology, All India Institute of Medical Sciences, New Delhi, India.
- **SFE – Outstanding International Ethnopharmacology Award “Pranab Banerji Memorial Award”**: Prof. Micheal Heindrich, Centre for Pharmacognosy and Phytotherapy, UCL School of Pharmacy, Univ. London.
- **“SFE - Best Entrepreneur Award”**: Mr. Birendra Kumar Sarkar, Managing Director, Parker Robinson Pvt. Ltd., Kolkata, India
- **“SFE - Merit of Excellence Award”**: Dr. S. P. Thyagarajan, Professor of Eminence and Dean (Research), Sri Ramachandra University, Porur, Chennai, India
- **“SFE - Outstanding Service Award”**: Dr. D. Chamundeswari, Principal, Faculty of Pharmacy, Sri Ramachandra University, Porur, Chennai
- **SFE - Herbal Industry Leader Award**: Natural Remedies Pvt. Ltd., Bangalore, India
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