



# INCAM 2026

7<sup>TH</sup> EDITION HOSTED BY IIT KANPUR

## UNDERSTANDING AYUSH THROUGH MODERN SCIENCE

### Objectives

This programme bridges AYUSH with modern science through data-driven biomedical methods to scientifically validate traditional concepts.

- Biomedical signal acquisition, measurement, data analysis for Ayurveda.
- Modelling, predictive frameworks for physiological, mechanical effects.
- Diagnostic devices, physics theories linking traditional, modern knowledge.

**ORGANISED BY IIT MADRAS COLLABORATORS**  
**Prof V Srinivasa Chakravarthy & Prof C Lakshmana Rao**



**11 JULY 2026**

**2:00 PM TO 6:00 PM**

**IIT KANPUR  
KALYANPUR, KANPUR,  
UTTAR PRADESH  
208016**

## EVENT HIGHLIGHTS

### Programme Structure

#### PART A

- Scientific Understanding of AYUSH by Prof C Lakshmana Rao, IITMadras
- Keynote talk by Prof V Srinivas Chackravarthy, IITMadras
- Contributed papers

#### PART B

- Invited Talks on Diagnosis & treatment of Autism

#### PART C

- Panel Discussion on contribution of CFTI's for understanding of Autism

### Expected Outcomes

Key outcomes include scientific challenges in AYUSH, inter-paradigmatic frameworks, and collaborative research roadmaps with AYUSH and tech institutes.

- Identifies scientific challenges and opportunities in Ayurveda/Homeopathy research.
- Frameworks for dialogue between traditional medicine and modern science.
- Roadmap for AYUSH-tech collaborations, funded programmes, workshops, initiatives.

# PROGRAMME

## CONTENT

### Focus of the Programme

This programme explores how modern science, engineering, and data-driven methods can help scientifically characterise AYUSH concepts and practices. The emphasis is on biomedical signal acquisition, measurement, data analysis, modelling, and predictive frameworks to study mechanical, physiological, and regulatory effects described in AYUSH. Particular attention is given to diagnostic and therapeutic devices and physics-based theories that enable meaningful dialogue between traditional knowledge systems and contemporary science.

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### Programme Structure

#### Part A: Keynote & Contributed Papers (90 minutes)

**Introduction:** *Scientific Understanding of AYUSH* – by Prof C Lakshamana Rao

**Keynote Talk:** *Rethinking the Tridosha Theory of Ayurveda: A Bio-Thermodynamic Perspective*

Speaker: Prof. V Srinivas Chackravathy, IITMadrass

Paper 1: *Investigating lipid-vesicle mediated curcumin-transport pathways in turmeric-milk*

Authors: Vimal Parashar, Saumendra Kumar Bajpai

Paper 2: *Spectroscopy, acoustics, and AI-based studies of nanoparticles formed from ultra-diluted homoeopathic medicines*

Authors: Ritika Hassija Narula, Shalu Goyal, Swati Rani, Ved Prakash Meena, Subhash Kaushik, Anil Kumar Nain, Vikas Chauhan, Sweta Singh, Sheetal Budhiraja, Rakesh Kumar Sharma

Paper 3: *Contact Analysis in Swedhanam Treatment of Ayurvedic Therapy*

Authors: V Revanth Reddy, Lakshmana Rao, P Karthik

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#### Part B: Invited Talks (60 minutes)

- *Yukti Vyapāśraya: Scientific Characterisation of Rational Therapeutics*  
Speaker: Dr. GRR Chakravathy, SJSACH, Chennai
  - *Daivavyapasraya Chikitsa – Unmada & Apasmara: wrt Autism Spectrum Disorder*  
Speaker: Dr Rishi Manivannan, Director, Vaidyarishi Ayurveda
  - *Role of Daiva vyapashraya chikitsa in the management of Autism*  
Speaker: Prof Shripathi Acharya, Muniyal Institute of Ayurveda Medical Sciences
  - *Bridging Neurodiversity, Tradition, and Technology*  
Speaker: Dr. P. K. Partheeban, Swabhimaan Trust – Holistic Solutions for Autism
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#### Part C: Panel Discussion (60 minutes)

An interactive panel discussion focusing on future research pathways, interdisciplinary collaborations, and institutional mechanisms to advance scientific characterisation of AYUSH using systems science, technology, and integrative research frameworks.

#### Speakers:

Prof. C. Lakshmana Rao, Dr P K Partheeban, Dr GRR Chackravathy, Prof. Viswanath Kumar Ganesan

**Moderated by:** Prof. V. Srinivasa Chakravathy

# INVITED TALKS

## Rethinking the Tridosha Theory of Ayurveda: A Bio-Thermodynamic Perspective

**Speaker:** Prof. V Srinivas Chackravathy, IITMadras



**Overview:** The talk reinterprets Ayurveda's Tridosha theory (Vata, Pitta, Kapha) through bio-thermodynamics, linking ancient concepts to modern science like entropy and energy flow for precise health insights.

Rethinking the Tridosha Theory of Ayurveda from a bio-thermodynamic view bridges traditional wisdom with contemporary physiology.

- Vata aligns with information flow and movement in systems.
- Pitta parallels metabolic heat and energy transformation processes.
- Kapha relates to structural stability and entropy regulation.

## Time, place, strength. Yukti Vyapāśraya: Scientific Characterisation of Rational Therapeutics

**Speaker:** Dr. GRR Chakravathy, Professor & Vice-Principal, SJSACH, Chennai



**Overview:** Ayurveda blends subjective ancient principles with evidence-based science, urging research on Tridoshas via modern biodynamics and rational Yukti vyapasraya chikitsa for cross-disciplinary insights.

- Ayurveda as timeless, subjective yet evidence-based science needing modern research to bridge Tridosha limitations with biodynamics.
- Yukti vyapasraya chikitsa applies classic logical treatments, like anti-snidha herbs for Madhumeha mirroring HbA1C glucose control.
- Amalgamates biophysics, biochemistry, and bioenergetics to unify ancient Ayurveda with modern evidence-based validation.

## Daivavyapasraya Chikitsa – Unmada & Apasmara: wrt Autism Spectrum Disorder

**Speaker:** Dr Rishi Manivannan, Director, Vaidyarishi Ayurveda



**Overview:** : Daivavyapasraya Chikitsa modulates human existence's core matrix—body, mind, consciousness—like hardware-software-coding.

- Psychiatric/behavioral disorders arise from Dosha malfunctions in body (hardware), mind (software), or innate consciousness (coding).
- Epigenetics alters subtle data encoding via life experiences and desires.
- Unmada/Apasmara involve bio-electricity, electromagnetism, and consciousness data pathologies.

# INVITED TALKS

## Role of Daiva vyapashraya chikitsa in the management of Autism

**Speaker:** Prof Shripathi Acharya, Muniyal Institute of Ayurveda Medical Sciences Malipal India



**Overview:** : Daiva vyapashraya chikitsa uses spiritual practices like mantras and rituals to calm minds and manage autism effectively.

- **Key Practices:** Includes homa, mantra chanting, prayers, ratnas, pilgrimage, charity, and good conduct routines.
- **Benefits:** Reduces stress, enhances cognition/communication, stabilizes behavior, and treats neurological/psychosomatic issues.
- **Integration:** Combines with Yukti vyapashraya and Satvavajaya chikitsas; rooted in genetic/environmental autism causes.

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## Bridging Neurodiversity, Tradition, and Technology: A Scientific Roadmap for Autism Engagement in India

**Speaker:** Dr. P. K. Partheeban, Swabhimaan Trust

**Overview:** This talk outlines a scientific roadmap integrating neurodiversity acceptance, Ayurvedic traditions, and modern technology to enhance autism support across India.

- Identifies neurodiversity challenges within Indian cultural contexts.
- Bridges traditional Ayurvedic practices with tech interventions.
- Proposes AYUSH-tech collaborations for scalable engagement programs.



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**For sponsorship support on the event and individual sessions, kindly contact**

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