



INTERNATIONAL CONFERENCE – KERALA

PROGRAMME SCHEDULE

7th International Conference on Nutraceuticals and Chronic Diseases (INCD-2025) & 11th Symposium on Translational Cancer Research



Organizers: Society for Nutraceuticals and Chronic Diseases ● Society for Translational Cancer Research ●



Co-Organizers: University of Kerala: Dep. of Zoology | Dep. of Computational Biology and Bioinformatics |
Dep. of Botany | Dep. of Biotechnology ● Advanced Centre for Regenerative Medicine
and Stem Cell Research in Cutaneous Biology (AcREM STEM) ●

Centre of Excellence in Nutraceuticals, Govt. of Kerala ● BRIC-Rajiv Gandhi Centre for Biotechnology ● Kerala Academy of Sciences ●
Kerala University of Health Sciences ● National Ayush Mission Kerala ● Oushadhi ● Trivandrum Chamber of Commerce & Industry

6th October, Monday, 2025

8.00 am - 9.00 am:

Breakfast (CLIF, Dining Hall, University of Kerala)

8.30 am-9.45 am:

Registration (CLIF, University of Kerala, Karyavattom)

EMS Hall

10.00 am - 11.15 am:

INAUGURAL FUNCTION

Time	Programme	Speaker / Dignitary
10:00 am	Welcome Address	Dr. P. Sreejith <i>Organizing Secretary, INCD-2025; Head, Dept. of Zoology, University of Kerala</i>
10:05 am	Briefing on SNCD and STCR	Prof. Ajaikumar B. Kunnumakkara <i>General Secretary, SNCR Professor, Dept. of Biosciences & Bioengineering IIT, Guwahati</i>
10:10 am	Conference Through the Years	Prof. Oommen V. Oommen <i>President, SNCR and Secretary, STCR Former Chairman, Kerala State Biodiversity Board</i>
10:15 am	Presidential Address	Prof. Mohanan Kunnummal <i>Vice-Chancellor, University of Kerala and KUHS</i>
10:25 am	Inauguration	Dr. V. Narayanan <i>Chairman, ISRO & Secretary, Dept. of Space Govt. of India</i>
10:55 am	Special Address	Prof. A. Sabu <i>Member Secretary, KSCSTE, Govt. of Kerala</i>
11:05 am	Felicitations	Dr. S. Nazeeb <i>Member Syndicate, University of Kerala</i>
11:10 am		Dr. S. Shiburaj <i>Director, School of Life Science, Head, Dept. of Botany</i>
	Release of Abstract Volume	Dr. Sharmila A. Bapat <i>Director, NCCS, Pune</i>
	Presence	Prof. G.M. Nair <i>President, Kerala Academy of Science and Former Director, JNTBGRI</i>
		Prof. P.R. Sudhakaran <i>President, STCR and JC Bose Fellow</i>
11.15 am	Vote of Thanks	Dr. Ruby John Anto <i>Organizing Secretary, INCD-2025; Chief Scientist, Centre of Excellence in Nutraceuticals, Govt. of Kerala</i>

11.20 am - 11.45 am:

Tea/Coffee Break

11.45 am - 1.20 pm:

Keynote and Plenary Lectures (EMS Hall)

Chairpersons: Prof.Dr.P.R. Sudhakaran (*President, STCR*)
Prof. Dr. G.M. Nair (*Former Director, JNTBGRI*)

11.45 am - 12.15 pm:

Keynote Address: Dr. Sharmila Bapat, (*Director, NCCS, Pune*)
Title: *Cancer: A Riddle Wrapped in Cells and Heterogeneity*

12.15 pm - 12.40 pm:

PL:1: Dr.Anandharamakrishnan C, (*Director, CSIR NIIST, Thiruvananthapuram*)
Title: *FOODS 2.0: Towards a New Normal and Sustainable Future*

12.40 pm - 1.05 pm:

PL:2: Prof. D. Sakthi Kumar (*Toyo University, Japan*)
Title: *Application of nanoformulations as theragnostics material in the biomedical field to fight against cancers, Alzheimer's, and other diseases*

1.05 pm - 1.30 pm:

PL:3: Prof. Joseph Francis(*Centre for Comparative Oncology, Louisiana State University, USA*)
Title: *A Berry-Based Nutritional Product for the Treatment of Chronic Diseases.*

1.30 pm - 2.15 pm:

Lunch (CLIF, Dining Hall, University of Kerala)

Technical Session 1:

CV Raman Hall (CLIF)

2.15 pm - 3.55 pm:

DAILAB PIKNIKH Series 65

Chairpersons: Prof. Alok C. Bharti (*University of Delhi*)
Dr. Vivek Singh (*LV Prasad Eye Institute, Hyderabad*)

2.15 pm - 2.35 pm:

IL:1: Dr. Renu Wadhwa (*Nat. Inst. of Advanced Industrial Science and Technology, Japan*)
Title: *Cyclodextrins enhance anticancer and anti-stress activities of Ashwagandha and honeybee propolis extracts: experimental evidence*

2.35 pm - 2.55 pm:

IL:2: Dr.Sunil Kaul (*Nat. Inst. of Advanced Industrial Science and Technology, Japan*)
Title: *Alpha-Lipoic acid: A natural antioxidant and more*

2.55 pm -3.15 pm:

IL:3: Dr.Kazumi Hirano (*Nat. Inst. of Advanced Industrial Science and Technology, Japan*)
Title: *Molecular Evidence for the Anti-stress Properties of Fucoxanthin -relevance to Alzheimer's disease*

3.15 pm - 3.35 pm:

IL:4: Prof.Pratap Kumar Pati (*Dept. of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab*)
Title: *Biotechnological interventions in Withania Species*

3.35 pm - 3.55 pm:

IL:5: Prof.Ajaikumar B.Kunnumakkara (*Cancer Biology Laboratory, IIT, Guwahati*)
Title: *Why Ashwagandha withanolide-Withaferin-A for oral cancer?*

Parallel Session

Young Researchers Session: Janaki Ammal Hall(CLIF)

- 2.15 pm - 3.45 pm: **Chairpersons:** Prof. Swapna T. S (*University of Kerala*)
Dr. Amaresh Kumar Singh (*BHU, Varanasi*)
Dr. V.Rajmohan (*Govt.Ayurveda College, Thiruvananthapuram*)
- 2.15 pm - 2.25 pm: **OP1: Keerthana CK** (*BRIC-RGCB, Thiruvananthapuram*)
Title: *Uttroside B potentiates immunogenic apoptosis against hepatocellular carcinoma*
- 2.25 pm - 2.35 pm: **OP2: Anusmita Shekher** (*Dept. of General Surgery, BHU, Varanasi*)
Title: *Alterations in the Expression of Metabolism-Related Long Non-coding RNAs in Breast Cancer Spheroids as Triggered by Therapeutics*
- 2.35 pm - 2.45 pm: **OP3: Akhlaq Ali Mehra** (*Dept. of Biochemistry, University of Kerala*)
Title: *Therapeutic Potential of a polyherbal nutraceutical Biologicals (PNBio) on inflammation in Experimentally induced Non-alcoholic Fatty Liver Disease*
- 2.45 pm - 2.55 pm: **OP4: Harshita Gupta** (*Dept. Industrial Biotechnology, Gujarat Biotechnology University, Gandhi Nagar*)
Title: *The role of TMAO, and its gut microbiota precursors in atherosclerosis*
- 2.55 pm - 3.05 pm: **OP5: Jilu Jaffet** (*LV Prasad Eye Institute, Hyderabad*)
Title: *Optimizing and characterizing mesenchymal stem cells derived from the human lacrimal gland and their secretome for potential therapeutic applications in dry eye disease*
- 3.05 pm - 3.15 pm: **OP6: Aswathy R. Devan** (*Dept. of Pharmacognosy, Amrita Vishwa Vidyapeetham, Kochi*)
Title: *Combination of the Dietary Flavonoid Kaempferol with Sorafenib Synergistically Enhances Anti-Tumor Efficacy in Xenograft and Orthotopic models of Hepatocellular Carcinoma with Improved Pharmacological Safety*
- 3.15 pm - 3.25 pm: **OP7: Evangeline Surya Hermon** (*BRIC-RGCB, Thiruvananthapuram*)
Title: *STIL as a Key Regulator of Stemness and Drug Resistance in Colorectal Cancer*
- 3.25 pm - 3.35 pm: **OP8: Krishna R** (*BRIC-RGCB, Thiruvananthapuram, India*)
Title: *Study of STIL Mediated Crosstalk between SHH and Wnt Pathways in Colorectal Cancer*
- 3.35 pm - 3.45 pm: **OP9: Chandana Reghukumar** (*CSIR-NIIST, Thiruvananthapuram*)
Title: *A Comparative Evaluation of Organelle-Targeted Photosensitizers for Photodynamic Therapy in Breast Cancer Cells*
- 3.45 pm - 3.55 pm: **OP10: Shabnam Malik** (*Division of Cancer Immunology and Microbiology, Medicine and Oncology, University of Texas Rio Grande Valley, USA*)
Title: *Advancements in Early Detection of Hepatocellular Carcinoma*
- 3.55 pm - 4.15 pm: **Tea/Coffee Break**

Technical Session 2

CV Raman Hall (CLIF)

4.15 pm - 6.15 pm:

Chairpersons: Prof. V.B. Sameer Kumar (*Central University of Kerala*)
Dr. Viji Vijayan (*University of Kerala*)

4.15 pm - 4.35 pm:

IL:6: Dr. Ravi Shankar Lankalapalli (*CSIR-NIIST, Thiruvananthapuram*)
Title: *Harnessing Natural Products Through Contemporary Synthetic Organic Approaches*

4.35 pm - 4.55 pm:

IL:7: Dr. Rashmi Mishra (*BRIC-RGCB, Thiruvananthapuram*)
Title: *Amalaki Rasayana Based Therapeutic Model Shows Galectin-3 C-Epitope Oligomers as Both Therapeutic Target and Drug Efficacy Monitoring Panel Biomarker in Cardiac Hypertrophy*

4:55 pm - 5.15 pm:

IL:8: Dr. Payal Rani (*Dept. of Nutrition and Dietetics, Manav Rachna International Institute of Research and Studies, Faridabad*)
Title: *Milk-Derived miRNAs Hidden Bioactive Components and Their Stability under Ultra-Heat and UV Treatments*

5.15 pm - 5.35 pm:

IL:9: Dr. Sameer Gupta (*Dept. of Zoology, BHU, Varanasi*)
Title: *Ameliorative Effects of Floral Extract of Clitoria ternatea in Chronically Stressed Mice Fed with Cafeteria Diet: Role in Adipose Tissue Homeostasis*

5.35 pm - 5.55 pm:

IL:10: Dr. Sindhu E.R. (*Malabar Cancer Centre, Thalassery*)
Title: *Molecular Mechanisms Underlying the Pharmacological Activities of Lutein*

5.55 pm - 6.15 pm:

IL:11: Dr. Ashutosh Kumar (*NIPER, Mohali*)
Title: *Role of Phytopharmaceuticals on Mitochondrial Dysfunction in Experimental Diabetic Neuropathy*

Parallel Session

Young Researchers Session: Janaki Ammal Hall (CLIF)

4.15 pm - 6.05 pm:

Chairpersons: Prof. Jayakumaran Nair (*University of Kerala*)
Dr. Hrideek TK (*MD, Oushadhi*), Dr. K.B Rameshkumar (*JNTBGRI, Palode*)

4.15 pm - 4.35 pm:

IL12: Lekshmi R. Nath (*Dept. of Pharmacognosy, Amrita School of Pharmacy, Amrita Vishwa Vidyapeetham*)
Title: *An Eight-Year Journey with Kaempferol: An Integrated Pipeline from Preclinical Evaluation and Clinical Translation*

4.35 pm - 4.45 pm:

OP11: Ayana R Kumar (*Dept. of Pharmacognosy, Amrita Vishwa Vidyapeetham*)
Title: *PEGylated Liposome-Mediated Delivery of Kaempferol: Enhanced Safety, Pharmacokinetics, Biodistribution, and Anti-tumor Activity*

4.45 pm - 4.55 pm:

OP12: Anurag Mishra (*Dept. of Physics, BHU, Varanasi*)
Title: *Comparative Chemical Analysis of Withaniasomnifera with Modern Medicines for Stress and Insomnia*

4.55 pm - 5.05 pm:

OP13: Uma Ranjan Lal (*Dept. of Natural Products, NIPER, Mohali*)
Title: *Ayurvedic Formulations, Phytopharmaceuticals, Natural Bio-actives -An Introduction to Research and Innovation Perspectives*

5.05 pm - 5.15 pm:	OP14: Sandhya Padmakumar (School of Biotechnology, Amrita Vishwa Vidyapeetham) Title: Essential Oils as SUMOylation Regulators in Respiratory Infections: A Host-Directed Strategy Against <i>K. pneumoniae</i>
5.15 pm - 5.25 pm:	OP15: Mohd Salman (LV Prasad Eye Institute, Hyderabad) Title: Understanding congenital hereditary endothelial dystrophy pathogenesis: using <i>SLC4A11</i> knockout and knockin cellular model generated via CRISPR/Cas9 gene editing
5.25 pm - 5.35 pm:	OP16: Arya R.S (RCC, Thiruvananthapuram) Title: Preparation and Characterization of Lupeol-Loaded Liposomes: A Nutraceutical- Nano delivery Based Approach Against Triple-Negative Breast Cancer
5.35 pm - 5.45 pm:	OP17: Vidya Sabu , (RCC, Thiruvananthapuram) Title: Enhanced therapeutic efficacy of andrographolide encapsulated β -cyclodextrin nanosponges for Papillary Thyroid Carcinoma
5.45 pm - 5.55 pm:	OP18: Mukesh Kumar Manickasamy (Cancer Biology Laboratory, IIT-Guwahati) Title: Targeting <i>SLC22A17</i> by miR-16-5p Impedes Hallmarks of Triple-Negative Breast Cancer
5.55 pm - 6.05 pm:	OP19: Vivek K. Kashyap (University of Texas Rio Grande Valley, USA) Title: Curcumin attenuates smoking and Drinking Activated NF- κ B/IL-6 Inflammatory Signaling Axis in Cervical Cancer
EMS Hall	
6-15 pm - 7.00 pm:	Public Lecture: Prof. Sanjay Behari , Director, SCTMIST, Thiruvananthapuram
7.00 pm - 8.00 pm:	Cultural Programme: SARGALAYA, (Students, Dept. of Zoology)
8.00 pm - 9.00 pm:	Dinner (CLIF)

7th October, Tuesday, 2025

08.00 am - 09.00 am:	Breakfast (CLIF, Dining Hall, University of Kerala)
08.30 am to 09.00 am:	Special Lecture: Prof. Bharath B. Aggarwal (Inflammation Research Center, San Diego, USA)
Technical Session 3	CV Raman Hall (CLIF)
09.00 am - 11.10 am:	Chairpersons: Prof. Subash Chandra Gupta (AIIMS, Guwahati) Dr. Dileep Vasudevan (BRIC-RGCB)
09.00 am - 9.20 am:	IL:13: Subhash C. Chauhan (Division of Cancer and Immunology, Department of Medicine and Oncology, University of Texas Rio Grande Valley, USA) <i>Title: Integration of Modern and Ancient Systems of Medicine: An Innovative Vision for the Future</i>
09.20 am - 9.40 am:	IL:14: Prof. Murali M. Yallapu (Division of Cancer and Immunology, Department of Medicine and Oncology, University of Texas Rio Grande Valley, USA) <i>Title: The Versatility of Tannic Acid in Cancer Nanomedicine</i>
09.40 am - 10.10 am:	PL:4: Prof. Dheer Singh (Vice-Chancellor, ICAR-National Dairy Research Institute, Karnal, Haryana) <i>Title: Milk Extracellular Nanovesicles-Based Smart Therapy for Bovine Mastitis caused by S.aureus</i>
10.10 am - 10.30 am:	IL:15: Prof. Akbarsha M. A (Jamal Vaccine Research Centre, Jamal Mohamed College (Autonomous), Tiruchirappalli) <i>Title: Drug Discovery for Cancer from Indian Traditional Medicines, Adopting Reverse Pharmacology</i>
10.30 am - 10.50 am:	IL:16: Prof. Subash Chandra Gupta (Dept. of Biochemistry, AIIMS, Guwahati) <i>Title: Multitargeting by a Limonoid Against Head and Neck Squamous Cell Carcinoma</i>
10.50 am - 11.10 am:	IL:17: Prof. Alok Chandra Bharti (Dept. of Zoology, University of Delhi) <i>Title: Phytochemicals target stemness in Cervical Cancer: A safe and effective alternative to specifically target Oct4-Sox2</i>
11. 10 am - 11.30 am:	Tea/Coffee Break
Technical Session 4	CV Raman Hall (CLIF)
11. 30 am - 1.30 pm:	Chairpersons: Prof. E A Siril (University of Kerala), Dr. Divya L (Calicut University)
11. 30 am - 11.50 am:	IL:18: Dr. Priya Srinivas (BRIC-RGCB, Thiruvananthapuram) <i>Title: Exploiting Tumour Microenvironmental Signals for Targeted Therapy in BRCA1-Deficient Triple-Negative Breast Cancer</i>

11. 50 am - 12.10 pm: **IL:19: Prof. Navneet Agnihotri** (Dept. of Biochemistry, Panjab University, Chandigarh)
Title: Modulation of cholesterol metabolic reprogramming by nutraceuticals: A therapeutic approach for colorectal cancer.
- 12.10 pm - 12.30 pm: **IL:20: Dr. Tessa Thomas Maliekal** (BRIC-RGCB, Thiruvananthapuram)
Title: EPHA2-Ephrin-B1 cis-interaction supports self-renewal ability leading to recurrence of oral cancer
- 12.30 pm - 12.50 pm: **IL:21: Dr. Vivek Singh** (L V Prasad Eye Institute, Hyderabad)
Title: Tear, Tissue, and Biomaterial: Regenerative Solutions and Diagnostics for Ocular Diseases
- 12.50 pm - 1.10 pm: **IL:22: Dr. Kathiresan Natarajan** (BRIC-RGCB, Thiruvananthapuram)
Title: Tuning the Cholinergic Symphony: Curcumin Boosts $\alpha 7$ nAChR signalling for Cell Survival
- 1.10 pm - 1.30 pm: **IL:23: Prof. V.B. Sameer Kumar** (Dept. of Genomic Science, Central University of Kerala)
Title: Carbon Quantum Dots synthesized from the medicinal plant *Centella asiatica* exhibit potential wound healing properties

Parallel session Technical Session 5

Janaki Ammal Hall (CLIF)

- 11.30 am – 1:30 pm:** **Chairpersons:** Dr. Sameer Gupta (BHU, Varanasi), Dr. Benno Periera F.G (University of Kerala)
11. 30am - 11.50 am: **IL:24: Dr. Sheema Khan** (Dept. of Immunology and Microbiology, University of Texas Rio Grande Valley, USA)
Title: Strategies for Enhancing K-Ras Therapies in Pancreatic Cancer
- 11.50 am - 12.10 pm: **IL:25: Dr. Ani V Das** (BRIC-RGCB, Thiruvananthapuram)
Title: Unfolding the role of PiwiL1 in HPV-associated cervical cancer cells
12. 10 pm - 12.30 pm: **IL:26: Dr. Sathyanarayanan B** (Muniyal Institute of Ayurveda Medical Sciences, Manipal)
Title: Critical appraisal of Trina Dhanya (minor millets) in cancer prevention
- 12.30 pm - 12.50 pm: **IL:27: Dr. Saja. K** (Dept. of Biochemistry, University of Kerala)
Title: Management of atherosclerosis: Role of sesame lignans
12. 50 pm - 1:10 pm: **IL:28: Dr. Karthika Rajeeve** (BRIC-RGCB, Thiruvananthapuram)
Title: Single-cell sequencing unveils unique human neutrophil population hijacked by *Chlamydia trachomatis* to dampen host immune response.
- 1.10 pm – 1.30 pm: **Special Lecture: Dr. Suma TK**, (ICMR, Emeritus Scientist, School of Public Health, KUHS, Thiruvananthapuram)
- 1.30 pm - 2.15 pm: **Lunch (CLIF, Dining Hall, University of Kerala)**

Technical Session 6

CV Raman Hall (CLIF)

2.15 pm - 2.55 pm:

Chairpersons: Prof. A. Helan (University of Kerala)

2.15 pm - 2.35 pm:

IL:29: Prof. ParthaRoy (Department of Biosciences and Bioengineering, IIT, Roorkee)

Title: Traditional use of Honey for a healthy gut: A mechanistic assessment for its role in the cure and management of gastrointestinal inflammation and allied disorders

2.35 pm - 2.55 pm:

IL:30: Dr. Athmaja Thottungal (East Kent Hospitals, UK)

Title: The Integrative Role of Nutraceuticals and Lifestyle Medicine in Chronic Pain Management: Bridging Eastern and Western Perspectives with Insights from Indian Population

Industry presentations

CV Raman Hall (CLIF)

3.00 - 4.30 pm:

Chairpersons: Dr. Malini Laloraya (AcREM-STEM, University of Kerala)
Dr. EV Soniya (University of Kerala)

(12 Minutes each)

- State Bank of India
- Mane Kancore Ingredients Private Limited
- Arjuna Natural
- Vaidyaratnam Oushadhasala Private Limited
- Akay Natural Ingredients
- Sitaram Research Foundation
- Oushadhi and State Medicinal Plants Board

Parallel Session Technical Session 7

Janaki Ammal Hall (CLIF)

2.15 pm - 4.15 pm:

Chairpersons: Dr. Priya Srinivas (BRIC-RGCB)
Dr. Ani Deepthy (University of Kerala)

2.15 pm - 2.35 pm:

IL:31: Dr. Amrutha Swaminathan (IISER, Thiruvananthapuram)
Title: Tiny fish, big questions: Epigenetic control of brain formation

2.35 pm - 2.55 pm:

IL:32: Dr. Amaresh Kumar Singh (Dept. of Zoology, BHU, Varanasi)
Title: A novel polyherbal formulation to mitigate inflammation during osteoarthritis progression

2.55 pm - 3.15 pm:

IL:33: Dr. Uma Dutta (Dept. of Zoology, Cotton University, Guwahati)
Title: Polyherbal Synergy in Safeguarding the Stressed Heart: From Hypertrophy to Infarction

3.15 pm - 3.35 pm:

IL:34: Dr. Gurushankara H. P (Department of Zoology, Central University of Kerala)
Title: Neuroprotective phytochemicals from Curcuma longa: multi-targeted therapeutics for Alzheimer's disease

3.35 pm - 3.55 pm: **IL:35: Dr. Arpita Mukhopadhyay** (Dept. of Physiology, St. John's Medical College, Bengaluru)
Title: *Metabolomic signatures of Type 2 diabetes mellitus in adipose tissue*

3.55 pm - 4.15 pm: **IL:36:Dr.Kalpana Pai** (Dept. of Zoology, Savitribai Phule Pune University, Pune)
Title: *A Perspective on Nutraceuticals with Immunomodulatory and Therapeutic Potential for Infectious and Chronic Diseases*

4.15 pm - 4.30 am: **Tea/Coffee Break**

Parallel Session

Young Researchers Session: JanakiAmmal Hall (CLIF)

4.30 pm - 6.00 pm: **Chairpersons: Dr. Saja.K.** (University of Kerala), **Dr. Sunil Martin** (BRIC-RGCB), **Dr. Vijayasree A S** (Fathima Matha National College, Kollam)

4.30 pm - 4.40 pm: **OP20: Dr. Swati Dhasmana** (Division of Cancer Immunology and Microbiology, University of Texas Rio Grande Valley, USA) Title: *Impact of Transgenic MUC13 Overexpression on Gut Microbiota Composition and Chemokine Expression Profile in Mice*

4.40 pm - 4.50 pm: **OP21: Dr. Shweta Singh** (Dept. of Immunology and Microbiology, University of Texas Rio Grande Valley, USA) Title: *Microbiome and Multi-Omics Signatures in Hispanic Patients from Steatosis to Hepatocellular Carcinoma*

4.50 pm - 5.00 pm: **OP22: Dr. Mohammed Sikander** (Dept. of Immunology and Microbiology, School of Medicine, University of Texas Rio Grande Valley, USA) Title: *Novel anticancer therapy for cervical cancer*

5.00 pm - 5.10 pm: **OP23: Dr. Kavya. H. Das** (CSIR-NIIST, Thiruvananthapuram) Title: *Evaluation of Core Alzheimer's disease (AD) biomarkers by SERS-based immunoassay in SHSY5Y cell line*

5.10 pm - 5.20 pm: **OP24: Smrithi S** (Dept. of Zoology, University of Calicut) Title: *Biocompatible Tetrahydrocurcumin Reduced Metal Nanoparticles with Antioxidant, Anti-Inflammatory and Hemolysis Protective Potential*

5.20 pm - 5.30 pm: **OP25: Nimisha. M** (School of Biotechnology, Amrita Vishwa Vidyapeetham) Title: *Combating Candida albicans by targeting its virulence factors*

5.30 pm - 5.40 pm: **OP26: Dr. Shidhi. P.R.** (Dept. of Zoology, University of Kerala) Title: *Integrating Traditional Knowledge and Systems-based Approach to Identify Potential anti-hypertensive molecules*

5.40 pm - 5.50 pm: **OP27: Soumya. V. S** (Dept. of Zoology, St. Stephens College, Pathanapuram, Affiliated to University of Kerala) Title: *Comparative Analysis of Wrightia tinctoria Leaf Oil and Cisplatin in Inducing Apoptosis in Melanoma*

5.50 pm - 6.00 pm: **OP 28: Dr. Sheeba. K.** (DCBB, University of Kerala) Title: *AI-Integrated LSTM-Based Docking Approaches for Identifying Nutraceutical Phytochemicals Targeting Dengue*

- PP:11: Nayanika Saikia** (Dept. of Zoology, Cotton University, Guwahati)
Title: *Protective Role of a Polyherbal Formulation in mitigation of Acrylamide-induced gonadal disorder in Murine model*
- PP:12: Sonali Dey** (Dept. of Zoology, Cotton University, Guwahati)
Title: *Phytotherapeutic Potential of a Novel Polyherbal Formulation of Tinospora cordifolia, Neolamarckia cadamba, and Moringa oleifera against STZ-Induced Type 2 Diabetic Wistar Rats*
- PP:13: Mohammad Kazan** (Dept. of Biotechnology, University of Kerala)
Title: *Effect of sesamol on high-fat diet-induced endothelial dysfunction in Sprague-Dawley rats*
- PP:14: Amrutha S** (Dept. of Zoology, University of Kerala)
Title: *Evaluation of Brahmi Ghrutham for Healthy Aging Effects in Caenorhabditis elegans: An Alternative Model Approach*
- PP:15: Anjana M Babu** (AcREM-Stem, Dept. of Zoology, University of Kerala)
Title: *Identification of Bacterial Dysbiosis Signatures In Androgenetic Alopecia*
- PP:16: Sreekumar U Aiswarya** (Centre for Excellence in Nutraceuticals, KSCSTE, Govt. of Kerala)
Title: *Evaluation of Solanum nigrum Linn. extract and its bioactive components, Uttroside B and Uttronin as potential nutraceuticals against HCC and Metabolic diseases*
- PP:17: Dhannya Renuka** (School of Biotechnology, Amrita Vishwa Vidyapeetham, Kollam)
Title: *Essential oils modulate antibiotic-mediated persister cell formation of Acinetobacter baumannii*
- PP:18: Raichal B George** (School of Biotechnology, Amrita Vishwa Vidyapeetham, Kollam)
Title: *Modulatory Effect of Essential Oils on Non-albicans Candida Species Pathogenesis*
- PP:19: Rajesh Kumar Singh** (Dept. of Dravyaguna, BHU, Varanasi)
Title: *Development of Synergistic Phytochemical Formulations for Chemosensitization in Gallbladder Cancer*
- PP:20: Siddhartha Singh** (BRIC-RGCB, Thiruvananthapuram)
Title: *Cardiac Rejuvenation: Targeting Aging Pathways with Amalaki Rasayana Using Multi-Omics*
- PP:21: Junaida M.I.** (DCBB, University of Kerala)
Title: *Computational design of a multi-epitope peptide vaccine targeting Leptospira surface antigen Lsa46*
- PP:22: Delphin R.D.** (DCBB, University of Kerala)
Title: *Transcriptomic Analysis Reveals the Impact to fLIX1L Gene Silencing in Liver Cancer*
- PP:23: Aswathy T.R.** (DCBB, University of Kerala)
Title: *In-silico and in-vitro study on anti-oral ulcer properties of Solanum nigrum*
- PP:24: Arya K.R.** (DCBB, University of Kerala)
Title: *Exploring the Anti-Angiogenic Properties of Celastrus paniculatus through Computational and Experimental Approaches*
- PP:25: Gopukrishnan R.** (DCBB, University of Kerala)
Title: *Rational Design of Peptidic Inhibitors Against GSK3 for the treatment of Alzheimers Disease*
- PP:26: Souparnika BR** (Dept. of Endocrinology, Dr. ALM PG Institute of Basic Medical Sciences, University of Madras)
Title: *Small molecule inhibitor of ALDH1A1 reduces clonogenic survival and induces autophagy and apoptosis in human metastatic cervical cancer cells*

- PP:11: Nayanika Saikia** (Dept. of Zoology, Cotton University, Guwahati)
Title: *Protective Role of a Polyherbal Formulation in mitigation of Acrylamide-induced gonadal disorder in Murine model*
- PP:12: Sonali Dey** (Dept. of Zoology, Cotton University, Guwahati)
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Title: *Essential oils modulate antibiotic-mediated persister cell formation of Acinetobacter baumannii*
- PP:18: Raichal B George** (School of Biotechnology, Amrita Vishwa Vidyapeetham, Kollam)
Title: *Modulatory Effect of Essential Oils on Non-albicans Candida Species Pathogenesis*
- PP:19: Rajesh Kumar Singh** (Dept. of Dravyaguna, BHU, Varanasi)
Title: *Development of Synergistic Phytochemical Formulations for Chemosensitization in Gallbladder Cancer*
- PP:20: Siddhartha Singh** (BRIC-RGCB, Thiruvananthapuram)
Title: *Cardiac Rejuvenation: Targeting Aging Pathways with Amalaki Rasayana Using Multi-Omics*
- PP:21: Junaida M.I.** (DCBB, University of Kerala)
Title: *Computational design of a multi-epitope peptide vaccine targeting Leptospira surface antigen Lsa46*
- PP:22: Delphin R.D.** (DCBB, University of Kerala)
Title: *Transcriptomic Analysis Reveals the Impact to fLIX1L Gene Silencing in Liver Cancer*
- PP:23: Aswathy T.R.** (DCBB, University of Kerala)
Title: *In-silico and in-vitro study on anti-oral ulcer properties of Solanum nigrum*
- PP:24: Arya K.R.** (DCBB, University of Kerala)
Title: *Exploring the Anti-Angiogenic Properties of Celastrus paniculatus through Computational and Experimental Approaches*
- PP:25: Gopukrishnan R.** (DCBB, University of Kerala)
Title: *Rational Design of Peptidic Inhibitors Against GSK3 for the treatment of Alzheimers Disease*
- PP:26: Souparnika BR** (Dept. of Endocrinology, Dr. ALM PG Institute of Basic Medical Sciences, University of Madras)
Title: *Small molecule inhibitor of ALDH1A1 reduces clonogenic survival and induces autophagy and apoptosis in human metastatic cervical cancer cells*

PP:27: Anu Sasi (DCBB, University of Kerala)

Title: Nutraceuticals for immune, gut, and respiratory health: In silico prioritization of phytochemicals with anti-biofilm potential against Pseudomonas aeruginosa using graph neural networks and molecular docking.

PP:28: Vinod M.P. (DCBB, University of Kerala)

Title: Generative AI-Driven Discovery of Peach Phytochemicals as Potential Nutraceutical Candidates Targeting the SARS-CoV-2 Spike Protein

PP:29: Neenu Mohan (DCBB, University of Kerala)

Title: Mapping of Phytochemicals with Protein Targets using Machine Learning Approaches

PP:30: Arya V. V. (DCBB, University of Kerala)

Title: Insights into Nutraceutical Modulation of Atopic Dermatitis Using Computational Approach

PP:31: Jumna Sherin, (Dept. of Zoology, University of Calicut)

Title: Curcumin as a Nutraceutical Supplement: Enhancing Growth and Cellular

5.45 pm - 6.15 pm:

General Body Meeting

EMS Hall

5.15 pm – 6.15 pm

Documentary Screening: Ayurveda- The Double Helix of Life

6.15 pm - 7.15 pm:

Special Address

Prof.Ushy Mohandas

(CEO, Dr Ushy's Wisdom Works, Bangalore)

7.15 pm - 8.15 pm:

Cultural Program KERALEEYAM

8.30 pm - 9.30 pm:

Conference Dinner (Al Saj Arena, NH BYPASS, Kazhakkutam)

8th October, Wednesday, 2025

08.00 am-09.00 am:

Breakfast (CLIF, Dining Hall, University of Kerala)

Technical Session 8

CV Raman Hall (CLIF)

9.00 am - 11.30 am:

Chairpersons: Prof. Navneet Agnihothri (*University of Punjab*)
Dr. K.B Harikumar (*BRIC-RGCB*)

9.00 am - 9.30 am:

PL: 5: Prof.D. Karunakaran (*Dept. of Biotechnology, IIT Madras*)
Title: Harnessing AI to Unlock Synergies in Phytochemical-Based Nutraceuticals: Insights from Curcumin, Emodin, Plumbagin, and Allicin

9.30 am - 9.50 am:

IL:37: Dr.Shijulal Nelson Sathi (*Bioinformatics Laboratory, BRIC-RGCB*)
Title: Discovery of novel efflux pump inhibitor to combat multidrug-resistant S. aureus

9.50 am - 10.10 am:

IL:38: Dr. Dileep. K. Vijayan (*Jubilee Centre for Medical Research, Thrissur*)
Title: Computational approaches in natural product drug discovery

10.10 am - 10.30 am:

IL:39: Dr.Ajumeera Rajanna (*ICMR-NIN, Hyderabad*)
Title: Novel approaches to target cancer and cancer stem cells for therapy

10.30 am - 10.50 am:

IL:40: Dr.Unnikrishnan. U (*CVJ Centre for Synthetic Biology & Biomufacturing, CUSAT*)
Title: AI-Powered Transformation: De-Risking Innovation in the Nutraceutical Industry

10.50 am - 11.10 am:

IL:41: Dr. M.S.R. Murty (*Sygmoid Chemical Sciences, Hyderabad*)
Title: Designing Small Heterocyclic Molecules for Anticancer Therapy: Synthetic Strategies, Biological Insights, and AI-Driven Innovations

11.10 am - 11.30 am:

IL:42: Dr.Abhinand. C.S. (*IAV, Thiruvananthapuram*)
Title: Integrating artificial intelligence with traditional medicine: Bridging knowledge for nutraceutical innovation

Technical Session 9

Janaki Ammal Hall (CLIF)

9.00 am - 11. 30 am:

Chairpersons: Prof. Pratap Kumar Pati (*Guru Nanak Dev University*)
Dr. Guruvayoorappan C (*RCC, Thiruvananthapuram*)

9.00 am - 9.20 am:

IL:43:Dr.Nirakar Sahoo (*University of Texas Rio Grande Valley, USA*)
Title: Anthocyanins influence autophagosome signaling and metabolic stress in cancer cells

9. 20 am - 9.40 am:

IL:44: Dr.Manish K. Tripathi (*University of Texas Rio Grande Valley, USA*)
Title: YBX1 as a Therapeutic Target to Reverse Sorafenib Resistance in Hepatocellular Carcinoma

9.40 am - 10.00 am:

IL:45: Dr. Shrikanth Gadad (*University of Texas Rio Grande Valley, USA*)
Title: Regulation of Gene Expression through Isoform Switching and its Impact on Phenotypic Outcomes

- 10.00 am - 10.20 am: **IL:46: Dr. Anupam Dhasmana** (University of Texas Rio Grande Valley, USA)
Title: *MUC13-directed protein-protein interactions in pancreatic cancer cell lines*
- 10.20 am - 10.40 am: **IL:47: Dr. Dae Joon Kim**, (University of Texas Rio Grande Valley, USA)
Title: *Protein tyrosine dephosphorylation signaling in the prevention of environmental skin carcinogenesis*
- 10.40 am - 11.00 am: **IL:48: Dr. Sumit Biswas** (BITS, Pilani, Goa)
Title: *Nutraceuticals Towards Prevention of Biofilm Formation: Treasures from the Konkan and Malabar*
- 11.00 am – 11.20 am: **IL:49: Dr. Ashi Augustine** (Vaidyaratnam Ayurveda Research Institute)
Title: *Multi-Targeted Nutraceutical Intervention of poly herbal combination: Supporting Glycemic and Lipid Health in Metabolic Syndrome*
- 11.30 pm - 11.45 am: **Tea/Coffee Break**
- 11.45 am - 1.30 pm: **Panel Discussion: CV Raman Hall (CLIF)**

(Theme: Nutrition, Nutraceuticals, and Chronic Diseases)

Name	Designation / Affiliation
Dr. Satheesan B	Moderator (Director, MCC, Kannur)
Prof. G. M. Nair	Former Director, JNTBGRI
Prof. Thomas Mathew	Former DME, and School of Public Health, KUHS
Prof. Indu P. S.	Principal, Kasaragod Medical College
Prof. Anilkumar MV	SFRA, KUHS
Dr. Mony Kuriakkose	Medical Director, Karkinos Healthcare
Dr. A. Sreekumar	Chairman, WellGenome Biotechnology Pvt.Ltd.
Dr. Sreejith N. Kumar	Endocrinologist, Diabetes Care Centre, Thiruvananthapuram
Dr. Anand Marthanda Pillai	Interventional Cardiologist, Ananthapuri Hospital
Dr. AR Sarika	KSCSTE-Kerala Biotechnology Commission
Dr. Sheela Karalam	Chief Scientist, Vaidyaratnam Ayurveda Research Institute
Dr. Ruby John Anto	Chief Scientist, Centre for Excellence in Nutraceuticals

1.00 pm - 2.00 pm: Lunch (CLIF, Dining Hall, University of Kerala)

Special Lectures

Chairpersons: Dr. Pradeep Kumar (University of Kerala), Prof. Ajaikumar B. Kuunumakkara (IIT, Guwahati)

- 2.00 pm - 2.20 pm: Dr. Satheesan B, Director (MCC, Thalassery, Kannur)
Title: *Nutraceuticals in Cancer: Current Status and Challenges*
- 2.20 pm - 2.40 pm: Prof. Gopakumar (Registrar, KUHS)
Title: *Nutraceuticals in Ayurveda: Contemporary Insights and Future Directions*
- 2.40 pm - 3.00 pm: Anoop Ambika (CEO, Kerala Startup Mission)
Title: *Startup Ecosystem in Kerala*
- 3.00 pm - 3.20 pm: Dr. A. Sreekumar (CMD, WellGenome Biotechnology)
Title: *Role of Nutraceuticals in Personalized & Precision Medicine*

- 3.20 pm - 3.40 pm: Dr. Sreejith N Kumar (*Endocrinologist, Diabetes Care Centre, Thiruvananthapuram*)
Title: *Evolutionary Principles to Overcome Lifestyle Diseases in Humans*
- 3.40 pm - 4.00 pm: Dr. Sheela Karalam (*Chief Scientist, Vaidyaratnam Ayurveda Research Institute*)
Title: *Ayurvedic Nutraceuticals: Insights from Traditional Dietetics and Formulations*

4.00 pm - 5.00 pm: VALEDICTORY SESSION

Time	Programme	Speaker / Dignitary
4.00 pm	Welcome Address	Dr. Ruby John Anto , Organizing Secretary, INCD-2025 Chief Scientist, Centre of Excellence in Nutraceuticals, Govt. of Kerala
4.05 pm	Conference Recap	Prof. P.R. Sudhakaran , President, STCR and J.C. Bose Fellow
4.15 pm	Presidential Address	Prof. Oommen V. Oommen President, SNCR and Secretary, STCR Former Chairman, Kerala State Biodiversity Board
4.25 pm	Chief Guest's Address	Prof. A. Bijukumar Vice-Chancellor, KUFOS, Cochin
4.40 pm	Valedictory Address and Prize Distribution	Dr. R. Rejnish Kumar , Director, RCC, Thiruvananthapuram
4.55 pm	Special Address	Prof. G.M. Nair President, Kerala Academy of Sciences and Former Director, JNTBGRI
5.05 pm	Future Perspectives	Prof. Ajaikumar B. Kunnumakkara General Secretary, SNCR Professor, Dept. of Biosciences & Bioengineering IIT, Guwahati
5.10 pm	Vote of Thanks	Dr. P. Sreejith Organizing Secretary, INCD-2025; Head, Dept. of Zoology, University of Kerala

5.15 pm – 5.30 pm: Tea/Coffee Break

Sincere
Thanks!

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