

**5th International Conference on Nutraceuticals and Chronic Diseases on
Pharmaceuticals and Nutraceuticals for Cancer and Other Chronic Diseases**

October 7-9, 2022

Organized by Department of Zoology, University of Delhi

Scientific Program

Day 1, October 7, 2022, Friday

7:30 AM- 8:30 AM **Registration and Breakfast** @Conference Centre Foyer

8:30-10:45 AM Plenary Session 1: DAILAB PIKNIKH #43 Therapeutic Potential of Nutraceuticals (Stress, and Cancer)

@Conference Hall A **Chairpersons:** Dr. Sunil Kaul, Prof. Lalit Kumar & Prof. Anju Katyal **Session**

Coordinator: Dr. Kamlesh Kumari

8:30-8:40 AM **Welcome and Opening Remarks**

8:40-9:05 AM **PL1: Molecular Link Between Stress and Cancer: Nutraceutical Interventions** Dr. Renu Wadhwa
National Institute of Advanced Industrial Science; Technology (AIST), Tsukuba, JAPAN

9:05-9:25 AM **PL2: Computational and Experimental Insights to the Multimodal Activities in Ashwagandha-derived
Withanolides** Prof. Durai Sundar Indian Institute of Technology (IIT)-Delhi, New Delhi, INDIA

9:25-9:45 AM **PL3: Discovery and Preclinical Development of Small Molecule Targeting Paclitaxel-resistant Cancer
Stem Cells in Triple Negative Breast Cancer** Dr. Fayaz A. Malik CSIR-Indian Institute of Integrative
Medicine, Srinagar, Jammu & Kashmir, INDIA

9:45-10:05 AM **PL4: New Natural Solutions for Treatment of Oral Cancer** Dr. Ajaikumar B. Kunnumakkara Indian
Institute of Technology (IIT-G), Guwahati, Assam, INDIA

10:05-10:25 AM **PL5: Biotechnology in the Pursuit of a Healthy Society and Boosting the Global Bioeconomy** Prof.
Pratap K. Pati Guru Nanak Dev University, Amritsar, Punjab, INDIA

10:25-10:45 AM **PL6: Realtime Luciferase-based Reporter Systems for Nutraceutical Screenings** Dr. Yoshihiro Ohmiya
National Institute of Advanced Industrial Science & Technology (AIST), Osaka, JAPAN

10:50– 11:30 AM **Coffee/Tea Break** @Conference Centre Foyer

11:30 AM-1:00 PM: Inaugural Ceremony & Public Lecture 1 @Conference Hall A **Chairpersons:** Prof. Rina

Chakrabarti & Prof. Kalpana Pai **Session Coordinators:** Dr. Vanika Gupta & Dr. Shashank K.
Maurya

12:10-1:00 PM **PT1: Therapeutic Adjuvants for Cancer and Covid19** Prof. Bhushan Patwardhan Savitribai Phule Pune
University, Pune, Maharashtra, INDIA

1:00-2:00 PM **Lunch Break/Concurrent Poster Sessions** @Conference Centre Foyer

2:00-4:00 PM Parallel Session 1a: Nutraceuticals in Neurological and Neuromuscular Disorders @Conference Hall A

Chairpersons: Prof. Dulal Panda & Prof. Namita Agrawal **Session Coordinator:** Dr. Kamlesh
Kumari

2:00-2:20 PM **IL1: Pax Genes and Microglia in Neurological Diseases** Prof. Rajnikant Mishra Banaras Hindu
University, Varanasi, Uttar Pradesh, INDIA

2:25-2:45 PM **IL2: Adult Life Phase Specific Dopaminergic Neuroprotective Efficacy of Curcumin is Mediated through
Differential Regulation of Dopamine Metabolism: Insights from Drosophila Model of Parkinson's
Disease** Prof. Sarat C. Yeniseti Nagaland University, Lumani, Nagaland, INDIA

2:50-3:05 PM **IL3: Potential Applications of Nutraceuticals Guggulsterone in Neurological Dysfunction** Dr. Sidharth
Mehan ISF College of Pharmacy, Moga, Punjab, INDIA

3:05-3:20 PM **IL4: Comparative Analysis of Model System for Muscular Dystrophy** Dr. Narender University of Delhi,
New Delhi, Delhi, INDIA

3:20-3:35 PM **IL52: Targeting the Metabolic-inflammatory-circadian Network in Glioma: Implication in
Chemotherapeutics** Prof. Ellora Sen National Brain Research Centre, Manesar, Haryana, INDIA

3:35-4:00 PM **KL1: Novel Insights into the Regulation of Skeletal Muscle Mass** Prof. Ashok Kumar University of
Houston College of Pharmacy, Houston, Texas, USA [ONLINE]

2:00-4:00 PM Parallel Session 1b: Molecular Targets and Drug Delivery @Conference Hall B **Chairpersons: Prof.**

Laishram R. Singh & Prof. Sharmila Basu-Modak Session Coordinator: **Dr. Swati Singh**

- 2:00-2:25 PM **KL2: Recent Advances in Brain Targeting Using Polymerosomes of Bacosides and Lauric Acid: A Nanotechnology Update** **Prof. Veena Koul** Indian Institute of Technology-D, New Delhi, Delhi, INDIA
- 2:30-2:50 PM **IL5: Role of Small Molecules in Delaying the Growth and Inhibiting Therapeutic Resistance in Cancer** **Prof. Rana Pratap Singh** Jawaharlal Nehru University, New Delhi, Delhi, INDIA
- 2:55-3:15 PM **IL6: Green Synthesis of Silver Nanoparticles Capped with Phytochemicals and its Anticancer Potentiality in vitro** **Prof. Arun S. Kharat** Jawaharlal Nehru University, New Delhi, Delhi, INDIA
- 3:20-3:40 PM **IL7: Secondary Metabolites (Diterpenoids) as an Adjuvants for Cervical Cancer Therapy: Multi Target Therapeutic Approach** **Prof. Smita C. Pawar** Osmania University, Hyderabad, Telangana, INDIA
- 3:45-4:00 PM **IL8: Differential Expression of Mitotic Checkpoint Proteins and Its Clinical Impact in Advanced Ovarian Cancer Patients** **Dr. Vilas D. Nasare** Chittaranjan National Cancer Institute, Kolkata, West Bengal, INDIA

2:00-4:00 PM Parallel Session 1c: Doctoral Students Session-1 @Conference Hall C **Chairpersons: Dr. Anil M. Limaye**

& Prof. Vijay Rani Rajpal Session Coordinator: **Dr. Anannya Bandyopadhyay**

- 2:00-2:10 PM **OP1: Phaeanthine, a Compound Isolated from Cyclea peltata Induces Mitochondria Mediated Apoptosis by Down Regulating the Akt Signalling Pathway in Cervical Cancer Cell line, HeLa** **Alisha Valsan C** CSIR- National Institute for Interdisciplinary Science and Technology (CSIR-NIIST), Thiruvananthapuram, Kerala, INDIA
- 2:15-2:25 PM **OP2: Identification of Natural Compounds to Inhibit Sonic Hedgehog Pathway in Oral Cancer** **Hitarth Patel** Gujarat Cancer Research Institute, Ahemdabad, Gujarat, INDIA
- 2:30-2:40 PM **OP3: Calcimycin Induces Cell Death in Breast and Cervical Cancer Cell Lines via Intracellular Ca²⁺ and p38 MAPK Pathway** **Neha** Banaras Hindu University, Varanasi, Uttar Pradesh, INDIA
- 2:45-2:55 PM **OP4: Evaluation of Ergosterol and its Metabolites for their Anticancer Potential and Ability to act as Potential Liver X Receptor Agonists** **Yogain Taank** Panjab University, Chandigarh, Punjab, INDIA
- 3:00-3:10 PM **OP5: Elucidating Sers Guided Metabolic Glycan Labelling: an Appraisal of Metastatic Potential in Cancer Cells** **Madhukrishnan M** CSIR- National Institute for Interdisciplinary Science and Technology (CSIR-NIIST), Thiruvananthapuram, Kerala, INDIA
- 3:15-3:25 PM **OP6: Anti-microbial Activity of Green Synthesised Copper Nanoparticles using Aqueous Extract of Ocimum sanctum against upper Respiratory Tract Infection causing Organisms** **Pratheeka Rajan** Women's Christian College, Chennai, Tamil Nadu, INDIA
- 3:30-3:40 PM **OP32: Involvement of Adipocyte in the Regulation of Tumorigenic Potential of Breast Cancer Cells** **Sneha Soni** Central University of Rajasthan, Ajmer, Rajasthan, INDIA
- 4:00-4:30 PM **Tea/Coffee Break** @Conference Centre Foyer

4:30-6:30 PM Parallel Session 2a: Cancer Genomics, Metabolic Disorders and Personalized Medicine @Conference Hall

A **Chairpersons: Prof. B.C. Das & Prof. Rana Pratap Singh** Session Coordinator: **Dr. Mamta Tripathy**

- 4:30-4:55 PM **KL3: Clinical Assessment of Vitamins for Various Diseases** **Prof. Ravinder J. Singh** Mayo Clinic, Rochester, Minnesota, USA
- 4:55-5:15 PM **IL9: The Role of SPDEF in Prostate Cancer Progression and Therapy Resistance: Regulation of YAP1/TAZ-TEAD Transcriptional Networks by SPDEF** **Prof. Hari Koul** LSUHSC-School of Medicine, New Orleans, Los Angeles, USA
- 5:15-5:35 PM **IL10: Past, Present and Future of Therapeutics of Obesity, a Long Ignored Chronic Disease** **Dr. Kameswara Rao Badri** Morehouse School of Medicine, Atlanta, Georgia, USA
- 5:35-5:55 PM **IL11: Parental Folate Deficiency and Development of Insulin Resistance in Offspring** **Dr. Jyotdeep Kaur** Postgraduate Institute of Medical Education and Research, Chandigarh, Punjab, INDIA
- 5:55-6:10 AM **IL36: Bacteriocins at Work: Role of Gut Bacteriome in Obesity Management by Regulating Lipogenesis in Hosts** **Dr. Rekha Kumari** Miranda House, University of Delhi, New Delhi, Delhi, INDIA
- 6:10-6:35 PM **KL4: Bridging Gaps in Genomics and Health Equity Research** **Prof. Anil Shanker** Meharry Medical College and Vanderbilt University, Nashville, Tennessee, USA [ONLINE]

4:30-6:30 PM Session 2b: Emerging Anti-cancer Phyto-Nutraceuticals-1 @Conference Hall B **Chairpersons: Prof.**

Neeta Sehgal & Prof. S.N. Das Session Coordinator: **Dr. Ashish Kumar Singh**

- 4:30-4:55 PM **KL5: Releasing the Differentiation Block and Induction of Differentiation of Leukemic Blast Cells with a Natural Compound; Esculetin** Prof. Daman Saluja Dr. B.R. Ambedkar Center for Biomedical Research, University of Delhi, New Delhi, INDIA
- 5:00-5:20 PM **IL12: Effects of Natural Polyphenols on Molecular Pathogenesis of Tobacco-associated Tongue Carcinoma** Prof. Prabhudas S. Patel Gujarat Cancer & Research Institute, Ahmedabad, Gujarat, INDIA
- 5:25-5:45 PM **IL13: Synthesis and Evaluation of Glutamine-conjugated Organotin (IV) Schiff Base Compounds as Potential Anticancer Agents** Prof. Navneet Agnihotri Panjab University, Chandigarh, Punjab, INDIA
- 5:50-6:10 PM **IL14: The popular beverage black tea aids in prevention of arsenic induced Squamous Cell Carcinoma of the Skin in Swiss albino mice through Epigenetic Modulation** Dr. Madhumita Roy Chittaranjan National Cancer Institute, Kolkata, West Bengal, INDIA [ONLINE]
- 6:15-6:30 PM **IL15: Therapeutic Potential of Nimbolide Against T Cell Lymphoma: A Role of Altered Glucose Metabolism, pH Homeostasis, and Oxidative Stress** Dr. Ajay Kumar Banaras Hindu University, Varanasi, Uttar Pradesh, INDIA

4:30-6:30 PM Session 2c: Doctoral Students Award Session-2 @Conference Hall C **Chairpersons: Prof. A.K. Singh & Dr. Ruby John Anto** **Session Coordinator: Dr. Narender**

- 4:30-4:40 PM **OP7: The Inhibitory Role of Withaferin A on High Fat Diet Induced Non-alcoholic Fatty Liver Disease and Hepatocellular Carcinoma** Varsha D Shiragannavar JSS Medical College, Mysore, Karnataka, INDIA
- 4:45-4:55 PM **OP8: Zingiber officinale as an Adjunct Enhances the Chemotherapeutic Potential of Temozolamide in Experimental Model of Glioma and Mitigates Redox Profile** Devika Chopra Panjab University, Chandigarh, Punjab, INDIA
- 5:00-5:10 PM **OP9: Novel Seleno-Derivative of Conventionally Available HDAC Inhibitors Demonstrate Promising Chemotherapeutic Potential in an Experimental Model of Colitis-associated Colorectal Cancer** Ayushi Garg Panjab University, Chandigarh, Punjab, INDIA
- 5:15-5:25 PM **OP10: Selenocoxib-3 a Novel Selenium Derivative of Celecoxib Effectively Resolves Colitis by Alleviating Gut Dysbiosis and Maintaining Membrane Integrity** Ramanpreet Kaur Panjab University, Chandigarh, Punjab, INDIA
- 5:30-5:40 PM **OP11: Association of CYP3A4 (9863T>A) and GSTP1(7188G>A) with its Clinical Impact in Oral Cancer Patients Undergoing Induction Chemotherapy** Pranab K Sahoo Chittaranjan National Cancer Institute, Kolkata, West Bengal, INDIA
- 5:45-6:00 PM **OP12: Characterization and Thermal Stability Studies of Pharmaceutically Important Compounds from Arthrospira platensis** Ritu Chauhan Amity University, Noida, Uttar Pradesh, INDIA
- 6:05-6:15 PM **OP33: Role of Sorcin in the Development of Multidrug Resistance against 5-Fluorouracil, Leucovorin, Oxaliplatin and Docetaxel (FLOT) Chemotherapeutic Regimens in the Gastric Cancer Subtypes** Sushmita Ghosh Chittaranjan National Cancer Institute, Kolkata, West Bengal, INDIA
- 6:20-6:30 PM **OP34: ABCB1 Polymorphism in Tamoxifen Treated ER & PR Positive Breast Cancer Patients** Tanuma Mistry Chittaranjan National Cancer Institute, Kolkata, West Bengal, INDIA
- 7:30-9:30 PM **Conference Dinner** @Conference Centre Foyer

Day 2, October 8, 2022, Saturday

- 7:30-8:30 AM **Registration and Breakfast** @Conference Centre Foyer

8:30-10:30 AM Parallel Session 3a: Emerging Anti-cancer Phyto-Nutraceuticals-2 @Conference Hall A **Chairpersons: Prof. Rup Lal & Prof. Navneet Agnihotri** **Session Coordinator: Dr. Kamlesh Kumari**

- 8:30 – 8:50 AM **KL6: Therapeutic Targeting of Different Sub-types of Breast Cancers using Nutraceutical-based Approach** Prof. Gopal C. Kundu Kalinga Institute of Industrial Technology, Bhubaneswar, Odisha, INDIA
- 8:55 – 9:10 AM **IL16: Establish Drug-resistance Model and Explore the Molecular Signature in Targeted Therapy Resistance Breast Cancer by Approaching Omics Profiling** Dr. Suresh T. Hedau ICMR-National Institute of Cancer Prevention and Research, Noida, Uttar Pradesh, INDIA
- 9:15-9:30 AM **IL17: Role of Phytochemicals in Hard-to-treat Triple Negative Breast Cancer (TNBC)** Dr. Chandra Prakash Prasad All India Institute of Medical Sciences, New Delhi, Delhi, INDIA
- 9:35-9:50 AM **IL18: Partial estrogen like effect of Karanjin, a furanoflavonoid from Pongamia** Dr. Anil Mukund Limaye Indian Institute of Technology-G, Guwahati, Assam, INDIA
- 9:55-10:10 AM **IL19: EGCG in Regulation of Triple Negative Breast Cancer: Serving Tea in a New Cup** Dr. Arnab Ghosh Rajiv Gandhi University, Papum Pare, Arunachal Pradesh, INDIA

10:15-10:30 AM **IL51: Dietary Flavonoids Modulates Epigenetic and miRNA regulation in Triple Negative Breast Cancer** Prof. Rajesh N. Gacche Savitribai Phule Pune University, Pune, Maharashtra, INDIA [ONLINE]

8:30-10:30 AM Parallel Session 3b: Chronic Infectious Diseases @Conference Hall B Chairpersons: Prof. Mallikarjun Shakarad & Prof. Lalita Gupta Session Coordinator: Dr. Mamta Tripathy

8:30-8:55 AM **KL7: Calcium Homeostasis as a Regulatory Switch in Dealing with Infections: Possibilities for Host Directed Therapeutics** Prof. K. Natarajan Dr. B.R. Ambedkar Center for Biomedical Research, University of Delhi, New Delhi INDIA

9:00-9:20 AM **IL20: Gugglu (Commiphora wightii): A Nutraceutical with Antileishmanial Potential** Prof. Kalpana Pai Savitribai Phule Pune University, Pune, Maharashtra, INDIA

9:25-9:45 AM **IL21: Peroxidase Crosslinked Mucins Barrier: The Modulators of Chronic Immunological Reactions** Prof. Sanjeev Kumar Chaudhary Bansi Lal University, Bhiwani, Haryana, INDIA

9:50-10:10 AM **IL22: "Erythritol", a Safe Natural Sweetener Exhibits Multi-stage Anti-malarial Activity by Permeating into Plasmodium falciparum Through Aquaglyceroporin Channel** Dr. Shailja Singh Jawaharlal Nehru University, New Delhi, Delhi, INDIA

10:15-10:30 AM **IL23: Uncovering Gut-Brain Axis in Celiac Disease** Dr. Sabyasachi Senapati Central University of Punjab, Bathinda, Punjab, INDIA

8:30-10:30 AM Parallel Session 3c: Doctoral Students Award Session-3 @Conference Hall C Chairpersons: Prof. R.K. Negi & Dr. Vivek Singh Session Coordinator: Dr. Narender

8:30-8:40 AM **OP13: Malabaricone α - a Natural Compound Showing Potent Anti-cancer Activity against Triple-negative Breast Cancer Cell Line MDA-MB-231** Vimalkumar P S CSIR- National Institute for Interdisciplinary Science and Technology (CSIR-NIIST), Thiruvananthapuram, Kerala, INDIA

8:45-8:55 AM **OP14: Evaluating the Phytosaponin, Uttroside B, as a Candidate Drug Molecule against Non-alcoholic Steatohepatitis** Rayginia P Tennyson Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram, Kerala, INDIA

9:00-9:10 AM **OP15: To Explore Molecular Signature in mTOR Inhibitor-resistant Triple Negative Breast Cancer Cells** Pratibha Agnihotri ICMR-National Institute of Cancer Prevention and Research, Noida, Uttar Pradesh, INDIA

9:15-9:25 AM **OP16: Comparative Study of Anticancer Potential of Rauwolfia serpentina Leaves and Tupistra nutans Inflorescence Extract in Human Hepatocarcinoma (HepG2) Cells** Ashim C Roy Jawaharlal Nehru University, New Delhi, Delhi, INDIA

9:30-9:40 AM **OP17: Withania somnifera Defends Gut through Modulation of Innate and Adaptive Arms of Immune system** Ashish Kumar CSIR-Central Institute of medicinal and Aromatic Plants, Lucknow, Uttar Pradesh, INDIA

9:45-9:55 AM **OP18: Elucidating the Differential Regulation of Novel Long Non Coding RNAs and their Mechanism of Action in p73 Dependent Manner** Chanchal Bareja Dr. B.R. Ambedkar Center for Biomedical Research, University of Delhi, New Delhi, INDIA

10:30 – 11:00 AM **Coffee/Tea Break** @Conference Centre Foyer

11:00 AM-1:00 PM Plenary Session 2 @Conference Hall A Chairpersons: Prof. N.K. Mehra & Prof. S.M. Singh Session Coordinator: Dr. Anannya Bandyopadhyay

11:00 – 11:25 AM **PL7: A Unique Vaccine Based on Mycobacterium indicus pranii, a Potent Invigorator of Immune Responses for Prevention and Therapy of Tuberculosis and Leprosy** Prof. Gursaran Pran Talwar Talwar Research Foundation, New Delhi, Delhi, INDIA

11:30-11:55 AM **PL8: EIF4G1: A Novel Target In Oncogene Driven Tumors** Prof. Hari Koul LSUHSC-School of Medicine, New Orleans, Los Angeles, USA

12:00-12:25 PM **PL9: Protein Aggregation-related Neurological Disorders: Natural Products as Therapeutics** Prof. Dulal Panda National Institute of Pharmaceutical Education and Research, Mohali, Punjab, INDIA

12:30-12:45 PM **SL1: Herbal Supplements for Non-Alcoholic Steatohepatitis-Efficacy, Mechanism and Clinical Evidence** Dr. Lakshmi Mundkur Sami Sabinsa Group Limited, Bengaluru, Karnataka, INDIA

12:50-1:00 PM **SL2: Fujifilm Wako Pure Chemical Corporation Product Related to Pharmaceuticals and Nutraceuticals for Cancer and Other Chronic Disease** Mr. Takeshi Kobayashi FUJIFILM Wako Pure Chemical Corporation, Tokyo, JAPAN

1:00 – 2:00 PM **Lunch Break & Concurrent Poster Session** @Conference Centre Foyer

2:00-4:00 PM Parallel Session 4a: Emerging Anti-cancer Phyto-Nutraceuticals-3 @Conference Hall A **Chairpersons:**

Prof. P.C. Rath & Prof. Ajaikumar B. Kunnumakkara Session Coordinator: **Dr. Swati Singh**

- 2:00-2:25 PM **KL8: Pharmacological Targeting of MEK/ERK by Tryptanthrin Attenuates Melanoma Invasion and Metastasis Through Suppression of MITF-M** **Dr. Ruby John Anto** Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram, Kerala, INDIA
- 2:30-2:50 PM **IL24: Apoptosis Inducing and Hepatoprotective Potential of Onosoma bracteata** **Wall Prof. Satwinderjeet Kaur** Guru Nanak Dev University, Amritsar, Punjab, INDIA
- 2:55-3:15 PM **IL25: Role of Advanced Glycation Endproducts (AGE) in Exerting Adverse Effects and its Regulation** **Prof. Sunil Kumar Manna** Centre for DNA Fingerprinting and Diagnostics, Hyderabad, Telangana, INDIA
- 3:20-3:40 PM **IL26: A New Drug Targets Dysregulated Cholesterol Metabolism for Prevention of Cancer Growth and Metastasis** **Prof. Chandi C. Mandal** Central University of Rajasthan, Ajmer, Rajasthan, INDIA
- 3:45-4:00 PM **IL27: Curcumin and Cancer Metabolism: Benefits with a New Story** **Dr. Naveen K. Vishvakarma** Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh, INDIA

2:00-4:00 PM Parallel Session 4b: Emerging Infectious Diseases @Conference Hall B **Chairpersons: Prof. R.K. Seth &**

Prof. Sanjeev Kumar Session Coordinator: **Dr. Vanika Gupta**

- 2:00-2:25 PM **KL9: 2-DG as anti-COVID-19 Therapeutic: From an Age Old Molecule to a Modern Broad Spectrum Anti-viral Therapy** **Dr. Anant Narayan Bhatt** Institute of Nuclear Medicine and Allied Science, DRDO, New Delhi, Delhi, INDIA
- 2:30-2:50 PM **IL28: Transcriptome Analysis of ABC Transporters in Immunity against Blood-borne Pathogens** **Prof. Lalita Gupta** Chaudhary Bansi Lal University, Bhiwani, Haryana, INDIA
- 2:55-3:15 PM **IL29: Plausible Mechanisms to Understand the Role of Selected Phytocompounds as Potential Therapeutics Against COVID19** **Dr. Soma M. Ghorai** Hindu College, University of Delhi, New Delhi, Delhi, INDIA
- 3:20-3:40 PM **IL30: Computational and Experimental Evidence to the Anti-COVID Potential of Ashwagandha and Honeybee Propolis Bioactives** **Dr. Jaspreet Kaur Dhanjal** Indraprastha Institute of Information Technology (IIIT)-Delhi, New Delhi, INDIA
- 3:45-4:00 PM **IL31: Quercetin Mimics Vitamin D and Ameliorates Breast Cancer Induced Hepatitis** **Dr. Prasanna K. Santhekadur** JSS Medical College, Mysore, Karnataka, INDIA

2:00-4:00 PM Parallel Session 4c: Doctoral Students Award Session-4 @Conference Hall C **Chairpersons: Prof. D.K.**

Singh & Prof. P.K. Pati Session Coordinator: **Dr. Amod Kumar**

- 2:00-2:10 PM **OP19: Antitumor and Chemo-potentiating Action of Sildenafil, a Phosphodiesterase 5 Inhibitor against T Cell Lymphoma** **Shiv G Rawat** Banaras Hindu University, Varanasi, Uttar Pradesh, INDIA
- 2:15-2:25 PM **OP20: Combinatorial Efficacy of Human Intestinal Defensin 5 and 5-FU against 1, 2-dimethylhydrazine Dihydrochloride Induced Colon Cancer: "A Double Edged Sword"** **Anshul** Panjab University, Chandigarh, Punjab, INDIA
- 2:30-2:40 PM **OP21: Unhindered Fructose Drinking (15%), Exposure to EMF from Mobile Phones and 7,12-Dimethylbenz[a]anthracene in Adolescent and Young Adult Female Rats Coalesce for Early Onset and Higher Incidence of Mammary Tumors** **Arshvir Kaur** Delhi Institute of Pharmaceutical Sciences and Research, New Delhi, Delhi, INDIA
- 2:45-2:55 PM **OP22: Dissecting the Direct/ Indirect Interactions of STAT3 with Human Papillomaviruses and its Implications in HPV Transcriptional Control in Cervical Carcinogenesis** **Kulbhushan Thakur** University of Delhi, New Delhi, Delhi, INDIA
- 3:00-3:10 PM **OP23: Role of Claudins in the Permeability of Epithelial Tight Junctions** **Pangertoshi Walling** Jawaharlal Nehru University, New Delhi, Delhi, INDIA
- 3:15-3:25 PM **OP24: Identification of Common Inhibitors for DNA Methyltransferase 1 and S-adenosyl Homocysteine Hydrolase through Virtual Drug Screening** **Pooja** Central University of Rajasthan, Ajmer, Rajasthan, INDIA
- 4:00 – 4:30 PM **Coffee/Tea Break** @Conference Centre Foyer

4:30-5:20 PM Public Lecture 2 [ONLINE] **Chairpersons: Prof. B. B. Aggarwal & Prof. Subash C. Gupta** Session Coordinator: **Dr. Amod Kumar**

- 4:30-5:20 PM **PT2: Inflammation, Immunity and Chronic Diseases: When the "Standard of Care" has been Exhausted, What is Next? Successful Outcomes with Botanicals** **Prof. Acharan S. Narula** Narula Research, LLC, Chapel Hill, North Carolina, USA

5:20-6:30 PM Panel Discussion @Conference Hall A **Moderator: Prof. Subash C. Gupta** **Session Coordinator: Dr. Amod Kumar**

5:20-6:30 PM

Success and challenges in taking nutraceuticals from bench to clinics / Challenges in converting nutraceutical leads from bench to clinics and way forward Prof. Bhudev C. Das, Prof. G.P. Talwar, Dr. Ruby John Anto, Prof. Lalit Kumar, Prof. Sunil Saini, Dr. Bindu Dey, Prof. N.K. Mehra, Dr. Lakshmi Mundkur

7:00-9:00 PM

Cultural Program and Department Dinner "CELEBRATING OUR PEOPLE" @ Amrit Vatika (Department Lawn, Department of Zoology)

Day 3, October 9, 2022, Sunday

7:30 AM- 8:30 AM **Registration and Breakfast** @Conference Centre Foyer

8:30-10:30 AM Parallel Session 5a: Non-infectious Diseases @Conference Hall A **Chairpersons: Prof. Rajagopal Raman & Prof. Sujata Mohanty** **Session Coordinator: Dr. Narender**

8:30-8:55 AM

KL10: Ocimum Flavones as Mitigators of Radiation Toxicity Dr. Naduparambil K. Jacob The Ohio State University Comprehensive Cancer Center, Columbus, Ohio, USA

9:00-9:20 AM

IL32: Let Food be thy Medicine-Translating Evidence into Clinical Practice Dr. Girish Tillu Savitribai Phule Pune University, Pune, Maharashtra, INDIA

9:25-9:45 AM

IL33: Ocular Surface Health of Dry Eye Disease and Stevens-Johnson Syndrome in Indian Population through Tear Proteomics: A Tip of an Iceberg Dr. Vivek Singh LV Prasad Eye Institute, Hyderabad, Telangana, INDIA

9:50-10:10 AM

IL34: Cholesterogenic Abnormalities Cause Irreversible Hair Loss and Follicle Damage Dr. Sreejith Parameswarapanicker University of Kerala, Thiruvananthapuram, Kerala, INDIA

10:15-10:30 AM

IL35: Chromatin and Aging: Characterization of Histone Subtype Specific Endopeptidases in Aged Chicken Liver Nuclei Dr. Jogeswar Sachidananda Purohit Cluster Innovation Centre, University of Delhi, New Delhi, INDIA

8:30-10:30 AM Parallel Session 5b: Frontiers in Nutraceutical Biology @Conference Hall B **Chairpersons: Prof. Prabhudas S. Patel & Prof. Rita Singh** **Session Coordinator: Dr. Ashish K. Singh**

8:30-8:55 AM

KL13: Manipulating Rifamycin Biosynthetic Gene cluster in Amycolatopsis mediterranei for the production of Rifamycin B analogs effective against MDR and XDR strains of Mycobacterium tuberculosis Prof. Rup Lal University of Delhi, New Delhi, Delhi, INDIA

9:00-9:20 AM

IL37: Selenoproteins from Microalgae: Basic Biology and applications Dr. Muthu Arumugam CSIR-National Institute for Interdisciplinary Science and Technology (CSIR-NIIST), Thiruvananthapuram, Kerala, INDIA

9:25-9:40 AM

IL38: Newer Insight into the Anticancer Mode of Action of Withania somnifera Dr. Shashank Kumar Central University of Punjab, Bathinda, Punjab, INDIA

9:45-10:00 AM

IL39: Potential Epigenetic Modulatory Effects of Curcumin in Breast Cancer Dr. Umesh Kumar IMS Ghaziabad University, Ghaziabad, Uttar Pradesh, INDIA

10:00-10:15 AM

IL40: Effect of Small Molecules on Protein Folding Landscapes Dr. Anannya Bandopadhyay University of Delhi, New Delhi, Delhi, INDIA

10:15-10:30 AM

IL41: Heterogeneity in the Fat Body Tissue Revealed using Single-cell RNA Sequencing Dr. Vanika Gupta University of Delhi, New Delhi, Delhi, INDIA

8:30-10:30 AM Parallel Session 5c: Young Faculty/PDF Award Session @Conference Hall C **Chairpersons: Prof. Satwinderjeet Kaur & Dr. Naveen Kumar Vishvakarma** **Session Coordinator: Dr. Amod Kumar**

8:30-8:45 AM

YP1: Anti-cancer and Anti-HPV Activity of Green Synthesized Silver Nanoparticles Doped with Berberis aquifolium (BA) Extracts Dr. Tejveer Singh Jawaharlal Nehru University, New Delhi, Delhi, INDIA

8:50-9:05 AM

YP2: Rhynchosia Herbs in the Treatment of Cancers Dr. Bindu P Aloor Rayalaseema University, Kurnool, Andhra Pradesh, INDIA

- 9:10-9:25 AM **YP3: Management of Altered Metabolic Activity in Drosophila Model of Huntington Disease by Curcumin** Dr. Aditi Kumari University of Delhi, New Delhi, Delhi, INDIA
- 9:30-9:45 AM **YP4: Dynamics of the Conformational Transitions of Biomolecules: A Theoretical Perspective** Dr. Vishal Singh Institution of Eminence, University of Delhi, New Delhi, Delhi
- 9:50-10:05 AM **YP5: Combating Silver Nanoparticles Mediated In-vivo Toxicity with Curcumin** Dr. Akanksha Singh CSIR-Institute of Genomics and Integrative Biology, New Delhi, Delhi, INDIA
- 10:30 – 11:00 AM **Coffee/Tea Break** @Conference Centre Foyer

11:00 AM -1:00 PM Plenary Session-3 @Conference Hall A **Chairperson:** Prof. Yogendra Singh, Prof. P.R. Sudhakaran & Prof. Daman Saluja **Session Coordinator:** Dr. Ashish Kumar Singh & Dr. Pushp Lata

- 11:00-11:25 AM **PL10: Targeting Oncogenic Transcription Factor STAT3 for Cancer Therapy** Prof. Gautam Sethi National University of Singapore, SINGAPORE [ONLINE]
- 11:30-11:55 AM **PL11: Advances in Pancreatic Cancer Treatment and Diagnosis** Prof. Subhash C. Chauhan University of Texas, Rio Grande Valley, Texas, USA [ONLINE]
- 12:00-12:25 PM **PL12: The use of Curcumin, Resveratrol and other Natural compounds in Tumor Therapy: A case report** Dr. Bernd Michael Loeffler ImM Institute for Mitochondrial Medicine, Berlin, GERMANY
- 12:30 - 12:50 PM **SL3: BD Technology and Innovation: FACSDiscover™ S8 Cell Sorter with CellView™ Image Technology** Dr. Subhadeep Mukherjee BD LS-Biosciences, Gurugram, INDIA
- 12:50-1:00 PM **SL4: Droplet Digital PCR: A new Paradigm in detection and monitoring of Nucleic Acids** Mr. Abhijit Dixit M/s Bio-Rad Laboratories (India) Pvt Ltd, Gurugram, INDIA
- 1:00 – 2:00 PM **Lunch Break & Concurrent Poster Session** @Conference Centre Foyer

2:00-4:00 PM Parallel Session 6a: AYUSH Therapies for Chronic Diseases @Conference Hall A **Chairperson:** Prof. Madhu Chopra & Dr. Manoj Kashyap **Session Coordinator:** Dr. Vanika Gupta

- 2:00-2:20 PM **IL42: Application of Ayurvedic Herbs and Formulations in Cancer Chemoprevention and Radioprotection** Dr. Sathyanarayan B. Muniyal Institute of Ayurveda Medical Sciences, Manipal, Karnataka, INDIA
- 2:25-2:50 PM **KL11: Unani-based Indigenous Approaches to Apprehend & Abridge Cancer Progression** Prof. Sujata Mohanty All India Institute of Medical Sciences, New Delhi, Delhi, INDIA
- 2:55-3:15 PM **IL43: Nutrition in Ayurveda and Herbs as Rasayan (Nutritive) in Cancer and Chronic Diseases like Psoriasis** Dr. Gaurang Joshi Atharva Multi Speciality Ayurveda Hospital, Rajkot, Gujarat, INDIA
- 3:20-3:40 PM **IL44: Plant-based Homeopathic Medicines for Cancer Management** Dr. Debadatta Nayak Central Council for Research in Homoeopathy, New Delhi, Delhi, INDIA
- 3:45-4:00 PM **IL45: Metabolic Classification of Ayurvedic Compounds and their Hepatoprotective Effect – Cultureomics** Dr. Jaswinder Singh Maras The Institute of Liver and Biliary Sciences, New Delhi, Delhi, INDIA

2:00-4:00 PM Parallel Session 6b: Inflammatory Disorders @Conference Hall B **Chairpersons:** Prof. Shibnath Mazumder & Prof. Vinod Kumar **Session Coordinator:** Dr. Mamta Tripathy

- 2:00-2:20 PM **KL12: Cancer as a Systemic Disease: Potential Role of Neutrophils** Prof. Anju Shrivastava University of Delhi, New Delhi, Delhi, INDIA
- 2:25-2:45 PM **IL46: Environmental Endotoxin Exposure Leads to Asthmatic Exacerbations in Mice Model: Study on Inflammasome NLRP3 Activation** Prof. Rashmi Singh Banaras Hindu University, Varanasi, Uttar Pradesh, INDIA
- 2:50-3:10 PM **IL47: Multifunctionality of Calebin A in Inflammation, Chronic Diseases and Cancer** Prof. Mehdi Shakibaei Institute of Anatomy Ludwig-Maximilians-University, Munich, GERMANY [ONLINE]
- 3:10-3:25 PM **IL48: Bridging the Gap between Traditional Medicine and Modern Medicine Through Modern Biology for Cancer Therapy** Prof. Subash C. Gupta All India Institute of Medical Sciences, Guwahati, Assam, INDIA
- 3:25-3:40 PM **IL49: Bifidobacterium longum (BL) Modulates “Gut-Immune” Axis and Inhibits Inflammatory Bone Loss in Osteoporosis via Indole-3-Lactic Acid (ILA)** Dr. Rupesh K. Srivastava All India Institute of Medical Sciences, New Delhi, Delhi, INDIA
- 3:40-3:55 PM **IL50: Exploring the MiRnome of Carica papaya with Potential Cross Kingdom Human Gene Targets** Dr. Saumya Patel Gujarat University, Ahemdabad, Gujarat, INDIA

2:00-4:00 PM Parallel Session 6c: Doctoral Students Award Session-5 @Conference Hall C **Chairpersons: Prof. K.**

Natarajan & Dr. Sreejith Parameswarapanicker **Session Coordinator: Dr. Swati Singh & Dr. Pushp Lata**

- 2:00-2:10 PM **OP25: Role of Transcription Factors TTF1 in UV Mediated DNA Damage Repair** **Kumud Tiwari** Banaras Hindu University, Varanasi, Uttar Pradesh, INDIA
- 2:15-2:25 PM **OP26: Apoptosis Induction in Cervical Cancer Cells by the Limonoid, Niloticin** **Anuja Joseph G** CSIR-National Institute for Interdisciplinary Science and Technology (CSIR-NIIST), Thiruvananthapuram, Kerala, INDIA
- 2:30-2:40 PM **OP27: Deciphering Exosome-mediated Cross-talk Between Tumor cells and Macrophages and their Polarization in Lymphoma** **Saima Syeda** University of Delhi, New Delhi, Delhi, INDIA
- 2:45-2:55 PM **OP28: A Molecular Docking Study Suggests that Menstrual Disorder Caused by Polycystic Ovarian Syndrome (PCOS) may be Treated with Himalayan Medicinal Plant Zanthoxylum armatum (Timur)** **Vineeta Sharma** LSM Government PG College Pithoragarh, Uttarakhand, INDIA
- 3:00-3:10 PM **OP29: Quercetin Ameliorates Metabolic Syndrome Associated Nonalcoholic Steatohepatitis via Adiponectin** **Nirmala G S Gowda** JSS Medical College, Mysore, Karnataka, INDIA
- 3:15-3:25 PM **OP30: Detailed Study on the Microbial Composition and Health Benefits of Fermented Food of Different Zones of India** **Neha Mary** Women's Christian College, Chennai, Tamil Nadu, INDIA
- 3:30-3:40 PM **OP31: Targeting of Tumor Metabolism by a Pan-GLUT Inhibitor: Glutor** **Mithlesh Kumar Temre** Banaras Hindu University, Varanasi, Uttar Pradesh, INDIA
- 4:00 – 4:30 PM **Coffee/Tea Break** @Conference Centre Foyer

4:30-5:30 PM Public Lecture 3 @Conference Hall A **Chairperson: Prof. Madan Mohan Chaturvedi & Dr. Anil K.**

Mishra **Session Coordinator: Dr. Anannya Bandyopadhyay & Dr. Pushp Lata**

- 4:30-5:30 PM **PT3: Targeting Inflammatory Pathways for Prevention and Treatment of Cancer & Chronic Diseases by Agents Derived from Ayurveda, Spices and Other Nutraceuticals** **Prof. B.B. Aggarwal** Inflammation Research Centre, San Diego, California, USA
- 5:30 – 7:00 PM **Prize Distribution and Valedictory Session**

High Tea @Conference Centre Foyer

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