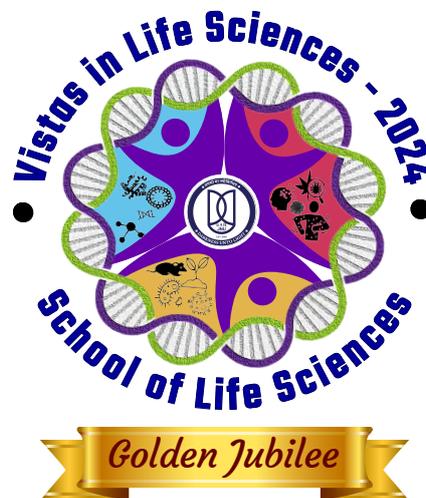




Vistas in Life Sciences 2024

An International Conference
Celebrating the
Golden Jubilee of the
School of Life Sciences, JNU



January 21-24, 2024
Scientific Programme

Vistas in Life Sciences 2024
January 21-24, 2024

Jan 21, 2024; Day 1

Venue: Convention Centre, Jawaharlal Nehru University

	10:00-	Registration
	10:30-	Alumni Meet and Greet
	11:30-1:00	<i>Inaugural Session</i>
	11:45	Arrival of Dignitaries
<i>Inaugural Session</i>	12:00-12:45	<p>Opening Remarks by Prof. K. Natarajan, Convenor, Vistas in Life Sciences 2024</p> <p>Welcome address by Prof. Supriya Chakraborty, Dean, SLS</p> <p>Address by Prof. Satish C. Garkoti, Rector, JNU</p> <p>Address by Prof. Sudhir K. Sopory, Former Vice Chancellor, JNU</p> <p>Address by Prof. Santishree D. Pandit, Vice Chancellor, JNU</p> <p>Vote of Thanks</p>
	12:45	Group Photo
Lunch	1:00-1:45	Cafeteria/Convention Centre Lawns
	2:00-4:20	Scientific Talks by Former SLS Faculty Members Moderators: Prof. Rajendra Prasad, Amity University-Haryana, & Dr. Ashu Bhan Tikku, SLS, JNU
<i>SLS Architects' Session</i>	2:00-2:20	Prof. Sudhir K. Sopory Beginning academic odyssey from School of Life Sciences, JNU
	2:25-2:45	Prof. Rajendra Prasad From Freshman to Faculty: Reflecting on Four Decades of Academic Evolution
	3:15-3:35	Prof. Rajiv K. Saxena Therapeutic potential of carbon nanoparticles
	2:50-3:10	Prof. Birendra N. Mallick SLS and JNU - My Independent Research Mentor
	3:40-4:00	Prof. Baishnab C. Tripathy Oxygenic Photosynthesis, a Major Driver of Evolution of Life
	4:00-4:20	Prof. Shyamal K. Goswami From a Molecular Biologist to a Redox Biologist: a Memorable Journey
Tea/Coffee	4:30-5:15	<i>Tea and Interactions</i>

<i>Memories</i>	5:15-7:00	Reminiscences by Alumni and former faculty members Moderators: Neera Bhalla Sarin & Praveen K. Verma
<i>Cultural Programme</i>	7:00-8:00	An Evening of Cultural Extravaganza Coordinators: Praveen K. Verma, Atul K. Johri, Ananda K. Sarkar, Ashu Bhan Tiku, Ekta Rai, Karunakar Kar
<i>Dinner</i>	8:00-9:30	Cafeteria/Convention Centre Lawns Networking and Dinner
	9:30-	Drop Off to Hotels and Guest Houses

Vistas in Life Sciences 2024
January 21-24, 2024

Jan 22, 2024; Day 2

Venue: Convention Centre, Jawaharlal Nehru University

	7:30-9:00	Breakfast and Registration
	09:25- 09:30	Welcome address
Plenary Session I	9:30-10:15	Chair: Seyed E. Hasnain, IITD and Sharda University; Co-Chair: Pramod C. Rath, SLS, JNU
Plenary Lecture	9:30-10:15	Rajesh S. Gokhale , DBT and IISER-Pune Harmonizing Connections: <i>Understanding Inter-Organ Crosstalk</i>
Session I	10:15-11:05	Structural Biology Chair: T.P. Singh, AIIMS, New Delhi; Co-Chair: Ajay K. Saxena, SLS, JNU
	10:15-10:40	Arun Shukla , IIT Kanpur Structure, Function, and Regulation of G Protein-coupled Receptors
	10:40-11:05	Deepak T. Nair , RCB New Answers for Old Questions regarding DNA synthesis by DNA polymerases
Tea/Coffee	11:05-11:45	Convention Centre Lawns
Session II	11:45-1:00	Metabolism and Metabolic Control Chair: Shyamal K. Goswami, Former Prof, SLS; Co-Chair: Sneh L. Panwar, SLS, JNU
	11:45-12:10	Anand Bachhawat , IISER-Mohali Regulation of One Carbon Metabolism : Solving a 50-year old puzzle
	12:10-12:35	Sunil Laxman , inStem Separating Form from Function: Making Sense of the Mitochondrial Network Morphology
	12:35-1:00	Rajender Motiani , RCB Mitochondrial Calcium Signaling is a Critical Determinant of Skin Pigmentation
Lunch	1:00-2:00	Cafeteria/Convention Centre Lawns

Poster Session	2:00-3:00	Poster Session-I Coordinators: Shweta Saran, Abhisheka Bansal, Devinder Kaur, SLS, JNU
Session III	3:00-4:15	Cancer Therapeutics Chair: Rama Shankar Verma, MNNIT, Prayagraj; Co-Chair: Rana Pratap Singh, SLS, JNU
	3:00-3:25	Gokul Das , Roswell Park Cancer Institute From Research Lab to Patient Clinic: Exploiting a Novel Cellular Pathway for Developing an Effective Cancer Therapeutic Strategy
	3:25-3:50	Gayatri Sabherwal , IBAB Registering What is in Clinical Trial Registries
	3:50-4:15	Vivek Mittal , Weill Cornell Medical College, USA Decoding Cancer Complexity to Develop New Treatment Paradigms
<i>Tea/Coffee</i>	4:15-4:45	Convention Centre Lawns
Session IV	4:45-6:05	Biology of Cancer Chair: R.K. Kale, Former Prof, SLS, JNU; Co-Chair: Neelima Mondal, SLS, JNU
	4:45-5:10	Geetanjali Sachdeva , ICMR-NIRRH Endometrial Functions and Dysfunctions: From Non-Conception to Conception
	5:10-5:35	Dhyan Chandra , Roswell Park Cancer Institute The Mitochondrial Unfolded Protein Response in Prostate Cancer
	5:35-5:50	Neera-Tewari Singh , MSU, East Lansing Chemical Threat Skin Exposures: Inflammatory Mechanisms and Targeted Therapies
	5:50-6:05	Ashish Goyal , DKFZ, Heidelberg Epigenetic Inhibitors Induced ERV Derived Neoantigens - A New Class of Cancer Immunotherapy Targets
Session V	6:05-7:00	Alumni and Young Investigator Talks Chair: Balram Singh, Institute of Advanced Studies, & Boston Centre for Excellence, MA, USA; Co-Chair: Shweta Saran, SLS, JNU
	6:05-6:20	Deepika Kant , AIIMS Infralimbic Cortex Beyond Hippocampus: Temporal Insights into Memory Compensation

	6:20-6:35	Gurcharan Kaur , GNDU, Amritsar Unmasking the Neurotherapeutic Potential of PSA-NCAM, A Key Marker of Adult Brain Plasticity Using Drug Re-Tasking Approach
	6:35-6:50	Sushma Singh , NIPER-Mohali Pyridoxal Kinase Gene Deletion Leads to Impaired Growth, Deranged Redox Metabolism And Cell Cycle Arrest In <i>Leishmania Donovanii</i>
Panel Discussion	7:00-7:45	Academia-Industry Connect- A Panel Discussion for Student Career Paths Chair: Rakesh Bhatnagar , SBT, JNU; Co-Chair: Ashwani Pareek , SLS, JNU and DBT-NABI A. Sriram , Biocon, Bangalore Rajeev Varshney , DIPAS, New Delhi Amita Joshi , DBT-BIRAC, New Delhi Sanjoy Mahanty , TCG Life Sciences
Dinner	7:45-9:15	Cafeteria/Convention Centre Lawns Networking and Dinner
	9:30-	Drop Off to Hotels and Guest Houses

Jan 23, 2024; Day 3

Venue: Convention Centre, Jawaharlal Nehru University

	8:00-8:45	Breakfast and Registration
Plenary Session II	9:00-9:45	Chair: B.N Mallick, Amity University, Noida; Co-Chair: Sushil K. Jha, SLS, JNU
Plenary Lecture	9:00-9:45	Amita Sehgal, UPenn, USA Biology of Bedtime: Understanding How and Why We Sleep
Session V	9:45-11:55	Neuroscience and Biology of Behavior Chair: Deepak Sharma, Former Professor, SLS, JNU; Co-Chair: A.C. Mondal, SLS, JNU
	9:45-10:10	Neeraj Jain, IIT-Jodhpur Effects of Spinal Cord Injuries on the Brains of Newborn and Adult Monkeys
	10:10-10:35	Surajit Sarkar, DU South Campus A Tale of Two Formidables: Insulin Pathway and Poly(Q) Mediated Neurodegenerative Disorders
	10:35-11:00	Samrat Mukhopadhyay, IISER-Mohali Yin and Yang of the Prion Protein
	11:00-11:25	Anita Jagota, UoH Role of Circadian Rhythms in Healthy Aging and Longevity
Tea/Coffee	11:25-12:00	Convention Centre Lawns
Session VI	12:00-1:15	Immunology Chair: Arvind Sahu, Regional Centre for Biotechnology, Faridabad; Co-Chair: Niti Puri, SLS, JNU
	12:00-12:25	Apurva Sarin, DBT-Wellcome India Alliance Regulating a Regulator: Metabolic Cues Underpinning T-Cell Function
	12:25-12:50	Sudha Kumari, IISc Cell Biological Mechanisms Mediating Optimal Immunosurveillance
	12:50-1:15	Devinder Sehgal, NII Recruitment of B Cells Expressing Heavy Chains Lacking DH Gene-Derived Amino Acids in the Immune Response Against <i>Streptococcus Pneumoniae</i>
Lunch	1:15-2:15	Cafeteria/Convention Centre Lawns
Poster Session & Tea	2:15-3:15	Poster Session—II & Tea/Coffee Coordinators: Ananda K. Sarkar Ekta Rai, Vikas Yadav, SLS, JNU

Session VII	3:15-4:30	Gene Regulation Chair: Suman K. Dhar, SCMM, JNU; Co-Chair: Rohini Muthuswami, SLS, JNU
	3:15-3:40	Umesh Varshney, IISc Initiator tRNA-centric Mechanisms of Faithful Translation in Bacteria
	3:40-4:05	Sanjeev Galande, Shiv Nadar University Statin Mediated Regulation of SATB Family Chromatin Organizer Proteins and B-Catenin in Colorectal Cancer
	4:05-4:30	Ullas Kolthur, TIFR-Hyderabad Metabolic Tuning of Chromatin Structure and Function
	4:30-4:45	Subhrajit Biswas, Amity University, Noida Decoding the Interplay Among Hepatic Stromal Cells During the Progression of Hepatocellular Carcinoma
Tea/Coffee	4:45-5:15	Convention Centre Lawns
Session VIII	5:15-7:10	Plant Biology Chair: Baishnab C. Tripathy, Sharda University, Noida; Co-Chair: Ashis K. Nandi, SLS, JNU
	5:15-5:40	Subhra Chakraborty, NIPGR Commuting to Fight: Organellar Crosstalk and post-translational control shaping plant immunity
	5:40-6:05	Arun Sharma, DU South campus A New Regulator for Ripening of Tomato Fruits
	6:05-6:30	Manoj Majee, NIPGR SKIP “JAZ” by SKIP31: Crossroad for Seed Maturation and Desiccation Tolerance
	6:30-6:55	Prabodh Trivedi, CSIR-CIMAP Small but Mighty: Bigger Role of Small Molecules in Plant Growth and Development
	6:55-7:10	Charanpreet Kaur, DBT-NABI Comparative Transcriptomics Uncover Different Pathways of Plant Growth Promotion Under Stress by Microbes
Panel Discussion	7:10-8:00	<i>Life Sciences Teaching and Research in Indian Universities: Is there a reboot required?</i> Moderators: Ramesh V. Sonti, ICGEB, New Delhi & Rajesh Sharan, Former Professor, NEHU, Shillong Panelists: Alok Bhattacharya, Seyed E. Hasnain, Birendra N. Mallick
Dinner	8:00-9:30	Cafeteria/Convention Centre Lawns Networking and Dinner
	9:30-	Drop Off to Hotels and Guest Houses

Jan 24, 2024; Day 4

Venue: Convention Centre, Jawaharlal Nehru University

Breakfast	7:30-8:45	Cafeteria/Convention Centre Lawns
Session IX	9:00-10:35	Biology of Diseases Chair: Debasisa Mohanty, NII, New Delhi; Co-Chair: Sneha Sudha Komath, SLS, JNU
	9:00-9:25	S.E. Hasnain, IIT-Delhi & Sharda University Scientific Journey of a Non-Conformist Biologist: Inspired by the JNU Environment
	9:25-9:50	Dhiraj Kumar, ICGEB Innate Immune Responses to <i>Mycobacterium tuberculosis</i> Infections
	9:50-10:15	Sudipto Roy, A-Star, Singapore Cilia and Ciliopathies: Our Explorations for a Quarter Century
	10:15-10:35	Alok Bhattacharya, Ashoka University Redefining Indian Approach to Find and Access Treatment for Patients with Rare Diseases
Tea/Coffee	10:35-11:05	Convention Centre Lawns
Session X	11:05-12:35	Fungal Biology Chair: Alok K. Mondal, Former Prof, SLS, JNU; Co-Chair: Atul K. Johri, SLS, JNU
	11:05-11:30	Rajendra Prasad, Amity University-Haryana Experimental Evolution Offers Valuable Insights into Unravelling the Trajectory of Amphotericin B Resistance In <i>Candida</i>
	11:30-11:55	Narottam Acharya, ILS, Bhubhaneshwar CAET: A Non-Genetically Modified Attenuated Strain for Anti-Fungal Vaccine Development
	11:55-12:20	Rupinder Kaur, CDFD SWI/SNF Complex-Mediated Chromatin Remodeling is Pivotal to Immune Evasion
	12:20-12:35	Narendra Bairwa, CU-Jammu A Simple Assay for the Detection of Late-Stage Apoptosis Features in <i>Saccharomyces cerevisiae</i>
	12:35-1:00	Alumni Networking
Lunch	1:00-2:00	Cafeteria/ Convention Centre Lawns

Session XI	2:00-3:40	Computational Biology Chair: Alok Bhattacharya, Ashoka University; Co-Chair: Karunakar Kar, SLS, JNU
	2:00-2:25	Narendra M. Dixit, IISc Modelling Viral Infections: Applications to COVID-19 Vaccines
	2:25-2:50	Andrew Lynn, SCIS, JNU Using Generative Artificial Intelligence to Predict the Sequence of Future Variants of Concern in Epidemic Viruses: Implications for Immune Escape and Vaccine
	2:50-3:15	Debarka Sengupta, IIITD Harnessing AI and Transcriptomics to Solve Oncology Grand Challenges
	3:15-3:40	Dinesh Kumar, ICAR-IASRI Computational Genomics in Agricultural Germplasm Improvement & Management: Indian Perspective and Challenges
Session XII	3:40-4:45	Award Lectures Chair: Arun S. Kharat, SLS, JNU; Co-Chair: Amarjeet Singh, SLS, JNU
	3:40-3:55	Prof. Sipra Guha Mukherjee Best Ph.D. Thesis Award Lecture
	4:00-4:45	VLS 2024 Poster Award Lectures
Tea/Coffee	4:45-5:30	Networking Tea/Coffee
Session XIII	5:30-6:30	Valedictory and Awards Ceremony
<i>Valedictory Session</i>	5:30-6:05	Welcome remarks by Prof. Supriya Chakraborty, Dean, SLS Remarks by Prof. Satish C. Garkoti, Rector, JNU Address by Dr. Himanshu Pathak, Secretary, DARE & Director General, ICAR, New Delhi
	6:05-6:15	Announcement and Distribution of SLS Awards and Conference Prize Distribution
	6:15-6:30	Closing Remarks
Dinner	7:00-9:00	Networking & Dinner
	9:00-	Drop off to Guest Houses/Hotels and Departure