



icmr **NIRRCH**
INDIAN COUNCIL OF
MEDICAL RESEARCH
NATIONAL INSTITUTE FOR RESEARCH
IN REPRODUCTIVE AND CHILD HEALTH

**Repro
Next**
Emerging Horizons in
Reproductive
Health Research



**International Conference on
ReproNext: Emerging Horizons in Reproductive Health Research
and**

**42nd Annual Meeting of the Society for Reproductive Biology and Comparative
Endocrinology (SRBCE -2025)**

11th-13th December, 2025

Venue: Ravindra Natya Mandir, Sayani Road, Prabhadevi, Mumbai-400025

**Organized by
ICMR - National Institute for Research in Reproductive and Child Health, Mumbai**

**Day 1: Inaugural Session
11th December, 2025
Ravindra Natya Mandir**

08:45-09:30	Registration	
09:30-09:40	Invocation and Lighting of the Lamp	
09:40-09:55	Welcome of the Dignitaries	
09:55-10:05	Welcome Address	Dr. Geetanjali Sachdeva Director, ICMR-NIRRCH
09:55-10:15	About the Conference	Dr. Srabani Mukherjee Organizing Secretary and Scientist G, ICMR-NIRRCH
10:15-10:20	About the Society	Dr. Suresh Yenugu President, SRBCE
10:20-10:25	Vote of Thanks	Dr. Ranjitsinh Devkar Secretary, SRBCE
10:25-11:00	Chief Guest Keynote Address Cervical Cancer: Cause, Care and Cure (5Cs)	Padma Shri Dr. Neerja Bhatla Professor Emeritus, Division of Gynecologic Oncology, NCI-AIIMS, Jhajjar Chairpersons: Dr. Usha Saraiya, Dr. A. V. Ramachandran
11:00-11:10	Group Photo	
11:10-11:30	High tea	

Day 1	11th December 2025 Ravindra Natya Mandir		
11:30-12:05	Scientific Session - 1 Plenary Lecture (PL-1) Chairpersons: Dr. Michael Aruldas, Dr. Chander Puri Gonadotropin secretion patterns and female reproductive aging Dr. Rajendra Kumar , University of Colorado School of Medicine, USA		
12:05-12:25	Invited Lecture (IL-1) New insights into underlying causes of diabetic kidney disease Dr. Suresh Mishra , University of Manitoba, Canada		
12:25-12:45	Invited Lecture (IL-2) Understanding the conundrum of preterm birth: Clues from multiomic investigations Dr. Arindam Maitra , NIBMG, Kalyani, West Bengal		
12:45-13:05	Invited Lecture (IL-3) OXPHOS sustains and glycolysis accelerates sperm motility Dr. Rajender Singh , CDRI, Lucknow		
13:05-13:30	Award Lecture - Prof. Chandana Halder Best Paper Award Chairpersons: Dr. A. V. Ramachandran, Dr. Sanjiva Kholkute Different dietary compositions alter pubertal onset in Wistar rats Dr. Parth Pandya , Navrachana University, Vadodara		
13:30-14:30	Lunch		
Ravindra Natya Mandir Scientific Session - 2A Chairpersons: Dr. Andreas Meinhardt, Dr. N. K. Lohiya, Dr. Rajender Singh		Lok Kala Dalan 1 (3rd Floor) Scientific Session - 2B Chairpersons: Dr. Ashutosh Halder, Dr. Susan Thomas	
14:30-16:00	Competitive Oral Presentations - Students (OP-C-1 to OP-C-11)	14:30-14:50	Invited Lecture (IL-4) Modulating checkpoint pathways to preserve ovarian reserve and to impede the ovarian aging Dr. H.B.D. Prasada Rao , NIAB, Hyderabad
		14:50-15:10	Invited Lecture (IL-5) DNA break mapping in placental cells uncovers vulnerability of repetitive sequences in pregnancy complication Dr. Vijay Pratap Singh , ICMR-NIRTH, Jabalpur
		15:10-15:30	Invited Lecture (IL-6) Role of dietary quality in the regulation of gut and ovarian physiology in carp Dr. Sourav Mukherjee , University of North Bengal, Siliguri
16:00-16:30	Tea Break		

Scientific Session - 3A: Chairpersons: Dr. Rupasri Ain, Dr. Bhakti Pathak		Scientific Session - 3B: Chairpersons: Dr. Nafisa Balasinor, Dr. Indrasish Bhattacharya	
16:30-16:50	Invited Lecture (IL-7) Intergenerational effects of prenatal folate and B12 imbalance: An epigenetic perspective Dr. Jyotdeep Kaur , PGIMER, Chandigarh	16:30-16:50	Invited Lecture (IL-11) Disruptor of GSK3 α : A non-hormonal contraceptive that targets maturing spermatozoa in epididymis Dr. Souvik Dey , MAHE, Manipal
16:50-17:10	Invited Lecture (IL-8) Environment, epigenetics and embryogenesis: maternal-child health in the face of climate change Dr. Srimonta Gayen , IISc Bangalore	16:50-17:10	Invited Lecture (IL-12) L-NAME induces spermiation failure and transgenerational sperm defects in Wistar rat Dr. Nishi Kumari , ICMR-NIRRH
17:10-17:30	Invited Lecture (IL-9) Inflammation-driven protein kinases signaling association with ovulation during endometriosis Dr. Rajesh Kumar Jha , CDRI, Lucknow	17:10-17:30	Invited Lecture (IL-13) 3D-organoids as an emerging in- vitro experimental model for studying prostate cancer associated-one metastasis: Interaction of cancer cells with pre-osteoblasts Dr. Vani Venkatappa , IISc, Bangalore
17:30-17:50	Invited Lecture (IL-10) Maternal exposure to nonylphenol (Np) induces ovarian dysfunction and transgenerational developmental impairments in zebrafish (<i>Danio Rerio</i>) Dr. Sudipta Maitra , Vishwa Bharti, WB	17:30-17:40	Oral Presentation - Non-Competitive - 1 Integrative transcriptomic profiling reveals immune-metabolic hub genes and therapeutic targets in PCOS Dr. Devaraj Sankarganesh , VIT, Vellore
		17:40-17:50	Oral Presentation - Non-Competitive - 2 Clinical, biochemical features and transcriptomic responses in PCOS subjects with metabolic syndrome Dr. Nirupama Chatterjee , Artemis Hospitals, Gurgaon
17:50-19:00	Exhibition Hall (1st Floor) Scientific Session - 4 Poster Presentations (PP-C-1 to PP-C-21)	17:50-18:00	Oral Presentation - Non-Competitive - 3 Uterine alterations in PCOS and reproductive senescence: Melatonin in rescue Dr. Shruti R. Hansda , BHU, Varanasi
		18:00-18:10	Oral Presentation - Non-Competitive - 4 Effects of Bisphenol S on reproductive health: Role of melatonin Dr. Rakesh Verma , BHU, Varanasi
		18:10-19:00	Executive Committee meeting of SRBCE
19:00-20:00	Ravindra Natya Mandir Cultural Programme		
20:00-21:00	Gala Dinner		

Day 2	12 th December 2025 Mini Auditorium (3 rd floor)		
Scientific Session - 5 Chairpersons: Dr. Thimmappa Shivanandappa, Dr Rajendra Kumar			
09:30-10:00	Oration Lecture - Prof. B. B. Kaliwal Gold Medal Oration Endocrine research in wildlife: Scope in conservation and management Dr. Govindhaswamy Umapathy , CSIR-CCMB, Hyderabad		
10:00-10:25	Award Lecture - Prof. S. K. Maitra Best Paper Award In-vitro analysis of <i>Solanum virginianum</i> L. extract and melatonin: Synergistic induction of apoptosis in Mda-Mb-231 breast cancer cells Dr. Darshee Baxi , Navrachana University, Vadodara		
10:25-10:55	Plenary Lecture (PL-2) Unveiling the immune shield – A dive into testicular and epididymal immunology Dr. Andreas Meinhardt , Justus-Liebig-University Giessen, Germany		
10:55-11:10	Tea Break		
Scientific Session - 6 Chairpersons: Dr. Andreas Meinhardt, Dr. Ashutosh Halder			
11:10-11:40	Plenary Lecture (PL-3) Early gestational diabetes – What is new? Padma Shri Dr. V Mohan , Dr. Mohan's Diabetes Specialities Centre, Chennai		
11:40-12:00	Invited Lecture (IL-14) Disorders of sexual differentiations Dr. Anurag Lila , KEM Hospital, Mumbai		
Mini Auditorium (3 rd Floor) Scientific Session - 7A Chairpersons: Dr. Mona Sharma, Dr. Deepak Modi		Lok Kala Dalan 1 (3 rd Floor) Scientific Session - 7B Chairpersons: Dr. Ilangoan Ramachandran, Dr. Venkataraman P	
12:00-12:20	Invited Lecture (IL-15) Growth hormone's role in diabetic kidney disease: A new role for an old hormone Dr. Anil Kumar Pasupalati , University of Hyderabad	12:00-12:20	Invited Lecture (IL-19) Microfluidic chip-based system for subtype-specific detection of circulating tumour cells in breast cancer Dr. Satish Ramalingam , SRM Institute of Science and Technology, Chennai
12:20-12:50	Invited Lecture (IL-16) Cross-species transcriptomic insights into the interplay between adipogenesis and angiogenesis Dr. Suttur Malini , University of Mysore	12:20-12:50	Invited Lecture (IL-20) HMGB1-RAGE axis and the dynamics of immune cells during endometrial repair in rat model of induce menstruation Dr. Uddhav Chaudhari , ICMR-NIRRH
12:50-13:10	Invited Lecture (IL-17) Can early pregnancy microbiome-immune signatures predict the risk of adverse outcomes? Dr. Vikrant Bhor , ICMR-NIRRH	12:50-13:10	Invited Lecture (IL-21) High-fat diet activates pro-inflammatory response in the mouse prostate Dr. Natarajan Bhaskaran , Saveetha Medical College

13:10-13:30	Invited Lecture (IL-18) Seasonal breeding as the “Nature’s Contraceptive”? The story from songbirds Dr. Vinod Kumar , KGMU, Lucknow	13:10-13:30	Invited Lecture (IL-22) Dysregulated seminal miRNAs reveal aberrant functional pathways in unexplained male infertility Dr. Gagandeep Kaur Gahlay , Guru Nanak Dev University, Amritsar
13:30-14:30	Lunch		
14:30-16:10	Mini Auditorium (3rd Floor) <i>Scientific Session - 8</i> Chairpersons: Dr. Rajendra Kumar, Dr. Smita Mahale, Dr. Arnab Banerjee Competitive Oral Presentations - Students (OP-C-12 to OP-C-22)		
16:10-16:25	Tea Break		
16:25-17:30	Exhibition Hall (1st Floor) <i>Scientific Session - 9</i> Poster Presentations (PP-C-22 to PP-C-43)	16:25-16:40	BD FACSDiscover S8: Image enabled spectral cell sorter Swapnil C Walke , BD BioSciences
		16:40-16:50	Reprogenomics: Sequencing & CMA in clinical care Dr. Vinay Varghese , Thermo Fisher Scientific
		16:50-17:00	Key technological advances in Digital PCR making it a promising tool for genetic testing Dr. Rana Pratap Singh , QIAGEN India Pvt
		17:00-17:10	Spectral Flow Cytometry: A new lens for understanding complex disease Dr. Abhishek Chowdhury , Premas Life Sciences
17:30-19:00	Mini Auditorium (3rd Floor) <i>Prof. A. V. Ramachandran Best Research Paper Award</i> for paper published in JER <i>Scroll of Honour</i> <i>Lifetime Achievement Award</i> General Body Meeting of SRBCE Conducted by Dr. Ranjitsinh Devkar , Secretary SRBCE		
19:00-20:00	Dinner		

Day 3	<p align="center">13th December 2025 Mini Auditorium (3rd Floor) Scientific Session - 10 Chairpersons: Dr. Taru Sharma, Dr. Geetanjali Sachdeva</p>
09:30-10:00	<p>Plenary Lecture (PL-4) Mammalian egg activation: Exploring Ca²⁺ oscillations and the influence of other divalent ions Dr. Rafael Fissore, University of Massachusetts, Amherst, USA</p>
10:00-10:20	<p>Invited Lecture (IL-23) Molecular underpinnings governing genetic complexity of the prostate cancer and pathways to targeted therapy Dr. Bushra Ateeq, Indian Institute of Technology Kanpur</p>
10:20-10:40	<p>Invited Lecture (IL-24) A case for maternal screening and intervention to prevent congenital CMV infection (cCMV) Dr. Vainav Patel, ICMR-NIRRH, Mumbai</p>
10:40-10:55	Tea Break
<p>Scientific Session - 11 Chairpersons: Dr. Vikas Dighe, Dr. Rajalakshmi Manikkam, Dr Shailesh Pande</p>	
10:55-11:15	<p>Invited Lecture (IL-25) Fertility preservation in oncological patients: Challenges and opportunities Dr. Satish Adiga, MAHE, Manipal</p>
11:15-11:25	<p>Competitive Oral Presentation - Young Scientist - 1 Molecular insights into zebrafish ovulation: Perspectives on redox homeostasis, inflammatory mediators, and mitochondrial bioenergetics Dr. Soumyajyoti Ghosh, Visva-Bharati University, Santiniketan, West Bengal</p>
11:25-11:35	<p>Competitive Oral Presentation - Young Scientist - 2 Molecular insights into Ad4bp/Sf-1 mediated regulation of steroidogenesis in catfish Dr. Sonika Kar, University of Hyderabad</p>
11:35-11:45	<p>Competitive Oral Presentation - Young Scientist - 3 Reduced insulin/IGF-1 signaling extends reproductive span through somatic gonadal collagen-mediated maintenance of oocyte quality in <i>Caenorhabditis elegans</i> Dr.Neha Kaushik, AIIMS, New Delhi</p>
11:45-11:55	<p>Competitive Oral Presentation - Young Scientist - 4 Maternal plasma Human Cytomegalovirus (HCMV) DNA positively correlates with viral shedding and altered microbiome composition in breast milk Gauri Bhonde, ICMR-NIRRH, Mumbai</p>
11:55-12:05	<p>Competitive Oral Presentation - Young Scientist - 5 Regulatory functions of circular RNAs in prostate cancer metastasis Dr. Bodhana Dhole, AIIMS, New Delhi</p>
12:05-13:30	<p>Scientific Session - 12 Panel Discussion: Reproduction in a changing world: A one health view of effect of environment on fertility</p>

	<p>Moderator: Dr. Anushree Patil, ICMR-NIRRCH, Mumbai</p> <p>Panelists: Dr. Priyank Kothari, Andrologist, ICMR-NIRRCH Dr. Vandana Bansal, Foetal Medicine Expert, Surya Hospitals Dr. Vyankatesh Shivane, Metabolic Expert, KEM Hospital Dr. Panchali Moitra, Nutrition Expert, SNDT Women's University Dr. Ravindra Zende, Veterinary Public Health Expert, Mumbai Veterinary College Dr. Harish Phuleria, Environmental Science Expert, IIT Bombay Dr. Surya S. Durbha, Agriculture Science Expert, Mississippi State University</p>
13:30-14:30	Lunch
14:30-15:45	<p><i>Valedictory Ceremony</i> Chief Guest: Dr. Manoj Kumar Dhar, Director, AcSIR</p>

Mini Auditorium (3rd Floor) Valedictory Ceremony of ReproNext 2025 13th December 2025	
14:30-15:00	<p>Welcome and Address of Chief Guest Dr. Manoj Kumar Dhar, Director, AcSIR</p>
15:10-15:25	<p>Glimpses of the Conference Dr. Dipty Singh</p>
15:25-15:40	Certificate distribution
15:40-15:45	<p>Vote of Thanks Dr. Srabani Mukherjee</p>
15:45-15:55	Group Photo
15.55 onwards	High Tea

<div>CME</div> <div>Conception to Cradle: Advances in Reproductive and Neonatal Genetic Medicine</div> <div>14th December, 2025</div> <div>Venue: Ravindra Natya Mandir, Sayani Road, Prabhadevi, Mumbai - 400025</div> <div>Organized by</div> <div>ICMR - National Institute for Research in Reproductive and Child Health, Mumbai</div> <div>Scientific Programme</div>		
08:45-09:30	Breakfast and Registration	
09:30-09:40	Welcome Address	Dr. Geetanjali Sachdeva Director, ICMR-NIRRCH, Mumbai
Session I: Foundational Genetics in Reproduction		
09:40-10:10	Intersection of Genomics and Genetic Counseling: Current Status and Future Perspectives	Dr. Sankar V H SAT Hosp. & Govt. Medical College, Thiruvananthapuram
10:05-10:15	Genetic Techniques & its Applications	Dr. Shailesh Pande Genetic Research Center, ICMR-NIRRCH
10:15-10:40	Exploring the Genetic Connection between Recurrent Pregnancy Loss and Fetal Malformations: Current Insights	Dr. Shailesh Pande Genetic Research Center, ICMR-NIRRCH
10:40-11:10	Unlocking the Genetic Secrets of Infertility	Dr. Hemlata Purandare MedGenome Centre for Genetic Health Care, Mumbai
11:10-11:20	Question and Answer session	Dr. Shailesh Pande Genetic Research Center, ICMR-NIRRCH
11:20-11:35	Tea Break	
Session II: Advanced Diagnostics and Management		
11:35-12:05	Current Trends in Fetal Assessment and Management	Dr. Vandana Bansal Nowrosjee Wadia Maternity Hospital, Mumbai
12:05-12:35	Newborn Screening: Early Detection for a Healthier Future	Dr Subha Phadke Bharati Vidyapeeth Medical College, Pune
12:35-13:10	Pediatric rare genetic conditions and Birth defects When the answer is not clear: Approach to a patient with VOUS or Normal Exome Report	Dr. Ashwin Dalal Centre for DNA Fingerprinting and Diagnostics, Hyderabad
13:10-13:20	Question and Answer session	Dr. Shailesh Pande Genetic Research Center, ICMR-NIRRCH
13:20-13:30	Vote of Thanks	
13:30 onwards	Lunch	