

National Forensic Sciences University, Dharwad  
and  
Karnataka Institute for DNA Research, Dharwad  
Jointly Organizing

International Conference on  
**RECENT TRENDS IN DNA FORENSICS**

29 - 30 November 2023

## ABOUT CONFERENCE

“Recent Trends in DNA Forensics” stands at the frontier of modern scientific advancements, continually evolving and transforming the landscape of forensic investigations. In recent years, the field has seen a remarkable surge in technological innovations, reshaping the way we approach and comprehend genetic analysis in criminal investigations, resolving cold cases, and expanding our understanding of genetic identity and inheritance. The integration of CRISPR (Clustered Regularly Interspaced Short Palindromic Repeats) technology within the realm of DNA forensics has opened new avenues in genetic analysis. This cutting-edge tool offers precise DNA alterations and gene editing, significantly influencing forensic studies and investigative techniques.

The evolution of DNA forensics has led to a breakthrough in solving cold cases. Previously unsolvable cases are being revisited with advanced techniques, leading to the identification of perpetrators and offering closure to long-standing mysteries. The emergence of forensic genealogy, the amalgamation of genealogical databases with DNA profiles, has played a pivotal role in solving complex cases. Through familial DNA searches, investigators can trace family lineages and identify potential suspects, further aiding in the resolution of cases. Beyond human identification, DNA forensics has extended its impact to wildlife conservation efforts. The analysis of DNA samples allows researchers to monitor and protect endangered species, combat wildlife trafficking, and gain deeper insights into ecosystems.

The ideas, processes and methodologies generated from this conference are expected to resolve challenges and provide future directions in this regard. The conference will include keynote presentation, oral and poster presentation competition. This shall provide a comprehensive platform for experts, researchers, industry leaders, and policy makers to share their knowledge and experience on recent trends on DNA analysis and forensics dimensions. Ultimately, the conference aims to promote international cooperation and collaborations towards understanding and implementing solutions towards recent trends in DNA forensics.

## THE ORGANIZERS

### National Forensic Sciences University, (NFSU) Dharwad Campus

The National Forensic Sciences University is the erstwhile Gujarat Forensic Sciences University (GFSU), the world's first and only University dedicated to Forensic Science and allied subjects. NFSU Dharwad is the new campus of the National Forensic Sciences University, an Institution of National Importance under the Ministry of Home Affairs. NFSU, Dharwad campus is established with the objective of strengthening forensic education in Karnataka and neighbouring states. As a part of its mission, the university is offering specialized academic programmes in the niche areas of Forensic Sciences, Pharmacy, Crime Scene Management and Forensic Pharmacy, B. Tech -M. Tech Computer Science & Engineering (Cyber Security). The vision is to develop NFSU Dharwad as a "Centre of Excellence" offering education and research opportunities of very high standards in Forensics, Cyber Security, Pharmacy & Allied Sciences.

### Karnataka Institute for DNA Research, (KIDNAR) Dharwad

Karnataka Institute for DNA Research (KIDNAR) is an autonomous institute under the purview of department of higher education, Government of Karnataka. It is established in 2010. Currently KIDNAR is having five high tech laboratories, with state-of-the-art equipment's to conduct advance high-quality research in human molecular genetics and DNA technology. KIDNAR is working on Hamophilia, Thallesimia, Brest cancer, Cervical cancer, Parkinson's disease, etc. It has a Centre of Excellence in Molecular Hemato-Oncology (Leukaemia). KIDNAR has been providing services in the identification of different types of syndromes like Down syndrome, Edward's syndrome, Patau's syndrome etc., by Karyotyping and FISH technique. KIDNAR has standardised DNA profiling from different parts of human body like blood, tissue, hair, nail etc. using 15 STR markers.

## CONFERENCE THEMES

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|---|--|
| • DNA Forensics in Biological Science                         | • DNA Forensics in Chemical Science          |
| • DNA Forensics in Physical Science                           | • DNA Forensics in Law & Behavioural Science |
| • Artificial Intelligence & Machine Learning in DNA Forensics | • DNA Forensics in Pharmacology              |
| • Environmental DNA Forensics                                 | • Wild Life DNA Forensics                    |

## PATRONS



**Prof. (Dr.) J. M. Vyas**  
Padma Shri Awardee,  
Hon. Vice Chancellor,  
National Forensic Sciences  
University, Gandhinagar,  
Gujarat, India



**Prof. (Dr.) Pramod B. Gai**  
Professor and Director, KIDNAR,  
Former Vice Chancellor,  
Karnatak University,  
Dharwad, Karnataka,  
India

## CO-PATRONS



**Prof. (Dr.) S.O. Junare**  
Campus Director,  
National Forensic Sciences  
University, Gandhinagar,  
Gujarat, India



**Shri. C.D. Jadeja**  
Executive Registrar,  
National Forensic Sciences  
University, Gandhinagar,  
Gujarat, India

## NATIONAL ADVISORY COMMITTEE

Prof. (Dr.) Purvi Pokhariyal (Campus Director, National Forensic Sciences University, Delhi)

Prof. (Dr.) Naveen K Chaudhary (Campus Director, National Forensic Sciences University, Goa)

Prof. (Dr.) Satish Kumar (Campus Director, National Forensic Sciences University, Bhopal)

Prof. (Dr.) Kedar Thaakar (Campus Director, National Forensic Sciences University, Uganda)

Prof. (Dr.) Prasenjit Maity (Campus Director, National Forensic Sciences University, Guwahati)

## CONVENER

**Prof. (Dr.) Manjunath Ghate**

Campus Director,  
National Forensic Sciences University,  
Dharwad, Karnataka, India

## ORGANIZING SECRETARIES

**Dr. Saroj P. Babar**

National Forensics Sciences University,  
Dharwad, Karnataka, India

**Dr. S.S. Kulkarni**

Karnataka Institute for DNA Research (KIDNAR),  
Dharwad, Karnataka, India

## ORGANIZING COMMITTEE

• (Dr.) Nilesh Panchal

• Dr. Priyanka Shah

• Dr. Bhupender Kumar

• Dr. Ramesh Babu


• Dr. Kashinath Chandelkar

• Mr. Rajesh C.

• Dr. Pramod S. G.

• Ms. Harshita Kulkarni

## REGISTRATION

Categories	Fees	<b>Bank: Punjab National Bank</b> <b>Branch: Gandhinagar, Dharwad</b> <b>A/C No: 2248100100002804</b> <b>IFSC Code: PUNB0224810</b> <b>MICR Code: 58002430</b>	
Foreign Delegate	US \$ 50		
Corporate Delegate	₹. 2000		
Academic Delegate	₹. 1500		
Student	₹. 800		
Registration fees is nonrefundable.			
AFTER LAST DATE		Important Dates to Remember	
Student	₹. 1000	Last date of submission of abstract	20 <sup>th</sup> Nov. 2023
Others	₹. 2000	Last date of acceptance of abstract	24 <sup>th</sup> Nov. 2023
<b>Click for registration: <a href="https://forms.gle/8xoDJYix8JRxUFh48">https://forms.gle/8xoDJYix8JRxUFh48</a></b>			
Last date for registration: <b>24 November 2023</b>			

## ADDRESS FOR CORRESPONDENCE

National Forensic Sciences University, Dharwad, WALMI Campus,  
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Scan for location



## SPEAKERS



**Dr. K Thangraj**

Former Director, Center for DNA Finger Printing & Diagnostics,  
J.C. Bose Fellow CCMB Hyderabad, India

**Dr. V.N. Mathur**  
Former Director, SFSL,  
Rajasthan, India



**Dr. S. S. Iyengar**  
Distinguished University  
Professor, Ryder Professor &  
Director of Computer Science,  
Florida International University,  
Miami, Florida USA

**Dr. Pramod B. Gai**  
Professor and Director,  
Karnataka Institute for DNA  
Research (KIDNAR) Dharwad,  
Former Vice Chancellor,  
Karnatak University Dharwad,  
India



**Dr. Smt. Ruwandi Ranasinghe**  
Scientist, Institute of  
Biochemistry, Molecular Biology  
and Biotechnology, University of  
Colombo, Sri Lanka

**Dr. Ajay Gaur**  
Incharge (Wild Life Forensics),  
La CONES, CCMB Hyderabad,  
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**Dr. G. Umopathy**  
Senior Principal Scientist and  
Group Leader  
La CONES, CCMB Hyderabad,  
India

**Sri Kartik Kumar Pearale**  
Director,  
Global Forensics Private  
Limited, Hyderabad, India



**Dr. Mark Perlin**  
Founder, Cyber Genetics,  
Pittsburgh, USA

**Dr. Raju Panday**  
Scientific Officer,  
National Forensic Science  
Laboratory, Nepal



**Dr. Gazi Nurun Nahar Sultana**  
Chief Scientist, Genetic  
Engineering & Biotechnology  
Research Unit, Centre for  
Advance Research in Sciences,  
University of Dhaka, Bangladesh

**Sri. L. Purushothama**  
Assistant Director & Technical  
Manager, DNA Section, SFSL,  
Madiwala, Bengaluru,  
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**Dr. Prashanth RG.**  
Senior Scientific Officer,  
Regional Forensic Science  
Laboratory, Hubli, Karnataka,  
India

**NFSU & KIDNAR Welcomes you.**