

RESOURCE PERSONS



MS PAVANA KAMATH P

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DR. JAYARAMA S. KADANDALE

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DR NIMMI HARIDAS

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POMAR HARSHAVARDHAN

Assistant Manager
Cytogenetics Lifecell International Pvt Ltd
Bengaluru



DR. GEETHA VISHWANATHAN

TECHNICAL SESSIONS

DAY 1

07/03/26, SATURDAY, 1:30 PM

[Ms Pavana Kamath P](#)

Tools and Methodological Approaches in Cytogenetic Karyotype Analysis

DAY 2

09/03/26, MONDAY, 1:30 PM

[Dr. Jayarama S. Kadandale](#)

Clinical and Molecular Cytogenetics

DAY 3

11/03/26, TUESDAY, 1:30 PM

[Dr. Nimmi Haridas](#)

Computational Tools and Techniques for Chromosome Analysis

DAY 4

12/03/26, WEDNESDAY, 1:30 PM

[Pomar Harshavardhan](#)

Integrating Karyotype Analysis with FISH for Chromosomal Abnormality Detection

DAY 5

16/03/26, THURSDAY, 1:30 PM

[Dr. Geetha Vishwanathan](#)

Dermatoglyphics - Tool for Genetic Disease Diagnosis



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The Oxford College of Science



Accredited by NAAC with A+ grade in cycle III

Recognized by the Govt. of Karnataka; Permanently affiliated to Bangalore University & Approved by AICTE, New Delhi
Recognized by UGC under section 2(f) & 12(B); Recognized by GoK for BISEP (formerly BTFS)
Supported by DST GoI under FIST program, Supported by DBT GoI under DBT-STAR College

THE
Oxford
COLLEGE OF SCIENCE

DEPARTMENT OF ZOOLOGY AND GENETICS

ORGANIZES

FACULTY DEVELOPMENT PROGRAM ON HUMAN CYTOGENETICS

Under
DBT STAR COLLEGE
SCHEME



07 - 16 MARCH 2026



Room No: 218, 2nd Floor

The Oxford College of Science, Arts, Commerce and Management



1:30 pm Onwards

ABOUT THE COLLEGE

The Oxford College of Science established in 1994 has registered an astounding and phenomenal growth, catering education to more than 2500 students every year. With an intensely competitive environment, the college has adopted a dynamic, global, high quality, creative and communicative approach in education, as well as research and development. Keeping abreast with modern developments, the institution is constantly reinventing itself.

The Oxford College of Science is located in HSR Layout, in a sprawling campus with a 6-storeyed building. The College offers 10 combinations of the B.Sc. programme; B.Sc.-Fashion and Apparel Design and BCA; 10 M.Sc programmes, MCA, MA (English). The College is a recipient of grants like FIST and WoS-A from DST (GoI), MRP from UGC, New Delhi, CISEE, K-FIST, SMYSR and SPiCE (Student projects) from VGST, Department of IT, BT, S&T, (GoK) and BiSEP (Formerly BTFS), from K-Tech (GoK). The college has received NAAC A+ in Cycle III and also funded under DBT STAR College Scheme. The college aims for holistic development of students and designs various co-curricular activities, skill development and industry oriented programs. The Oxford Science Skill Enhancement Centre (TOSSEC) caters to train students in various skills required for a career in the industry at affordable cost, enhancing their proficiency and technical skills and thereby improving their employability.

ABOUT THE DEPARTMENT

The Department of Zoology was incepted in 1994 for UG program. The Department of Genetics was started with an UG program in the year 2000 and PG course in Applied Genetics in 2003. Presently, the two departments have amalgamated into "The Department of Zoology and Genetics". The department, with the aim of conducting basic research and introducing a research arena for the igniting minds, offers unique training. The department is credited with achieving 100% pass percentage. The students of the Department of genetics have brought laurels to the department by setting a trend with maximum number of university ranks.

the department, with the aim of conducting basic research and introducing a research arena for the igniting minds, offers unique training in all aspects of genetics by providing bridge course, problem based learning (PBL), workshops, enrichment programme, guest lectures and in house projects for undergraduate and postgraduate students. The department has set up a zoological museum comprising models pertaining to the human skeletal system and some mammals, specimens of vertebrates and invertebrates and an aquarium. The department is credited with achieving 100% pass percentage. The students of the Department of genetics have brought laurels to the department by setting a trend with maximum number of university ranks .

ABOUT THE PROGRAMME

The Faculty Development Programme in Cytogenetics delivers advanced training in karyotype analysis, chromosome banding, and fluorescence in situ hybridization integrated with bioinformatics-driven genomic visualization and variant interpretation. The programme emphasizes metaphase chromosome preparation, high-resolution imaging, computational karyomorphometry, and analytical approaches for detecting structural and numerical chromosomal abnormalities in research and diagnostics.

OUTCOMES

1. Understand key concepts in clinical and molecular cytogenetics for identifying chromosomal abnormalities and their role in genetic disorders.
2. Gain expertise in cytogenetic methodologies, including karyotype preparation, banding techniques, and interpretation of numerical and structural chromosomal variations.
3. Utilize computational tools and cytogenomic databases for chromosome analysis and interpretation of chromosomal rearrangements and copy number variations.
4. Apply integrated approaches such as FISH and dermatoglyphic analysis for effective detection and study of chromosomal abnormalities.