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UNIVERSITY OF MYSORE

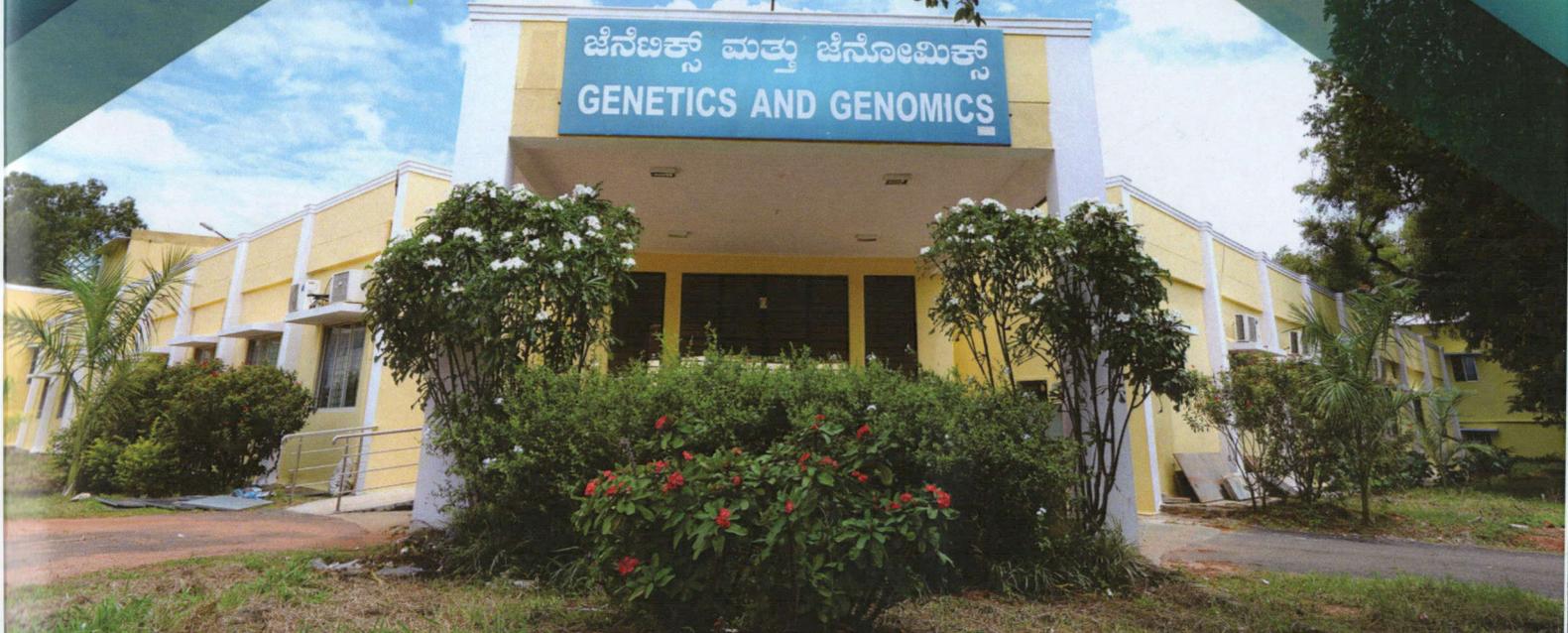
DEPARTMENT OF STUDIES IN GENETICS AND GENOMICS

Manasagangotri, Mysuru- 570 006

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GENETICS AND GENOMICS



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GENETICS AND GENOMICS





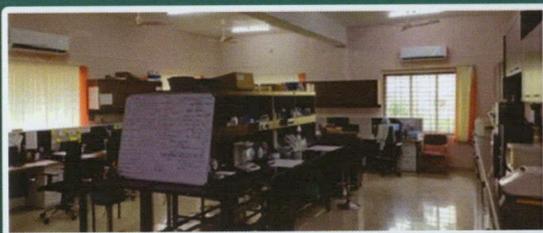
Prof. N B Ramachandra



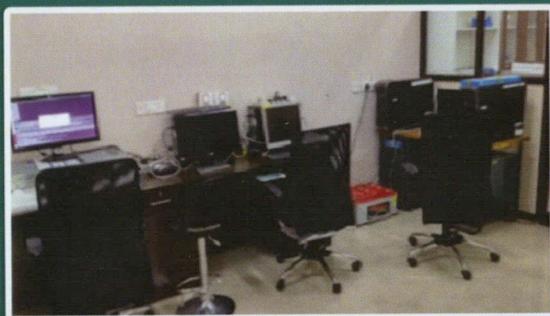
Inauguration of the 3rd Life Science Research Symposium



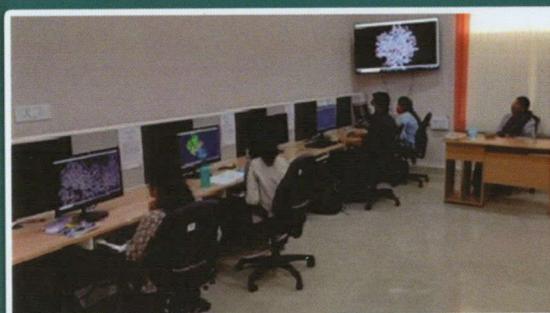
Drosophila Stock Centre



Research Lab



High performance Computers



Bioinformatics Lab

ABOUT THE DEPARTMENT

Genetics has become essential to unravel the mysteries of life processes extensively pursued in today's science. Many research laboratories and Universities in the country and abroad require a suitably well-trained workforce for research/teaching programs in Genetics. In 2005, M.Sc. in Genetics course was started in the Department of Studies in Zoology under the stewardship of Prof. H.A. Ranganath, which was encouraged and supported by the University of Mysore. The curriculum designed in the Master's degree for Genetics program encompasses different fields of genetics, emphasizing both basic and applied aspects. M.Sc., Genetics as an interdisciplinary course also provides a solid basic foundation to any modern research in life sciences.

Later in 2007, Prof. N. B. Ramachandra led this course as the Coordinator along with three deputed faculty from Zoology, Dr. B.V. Shyamala, Dr. M.S.Krishna and Dr. V.Shakuntala for eight years. Experts with a strong background in the area of Genetics from Zoology department, other departments of the University and institutions have also contributed to the teaching of this program. As a new department of the centenary year of the University, Department of Studies in Genetics and Genomics was established on 13th July 2015 under the leadership of Prof. N.B. Ramachandra as a founder Chairman for five years (2015-2020). Starting from 2017-2018, the Department is semi-autonomous by adopting the Flexible Choice Based Credit System. During the 13 years (2005 -2019), 12 batches have completed this course with about 300 students, including 27 international students. Nearly 80% of the Genetics graduates are placed in different Universities and Research Institutions in India and Abroad. Our former students have established themselves as independent investigators in premier institutions both in India and abroad. Many of them are pursuing post- doctoral fellowships in leading Universities and Research Institutes around the world.

Prof. N. B. Ramachandra as Program Coordinator with other four core faculties, Dr. Avinash M.V, Dr. Tejas Kalasthavadi, Dr. Aparna and Dr. Ramachandra Kini (Biotechnology Department), with the DBT funding for three years, has started a "Postgraduate Diploma program in personalized Genomic Medicine" from 2019-20. Along with the core group Dr. C. Amruthavalli is instrumental for facilitating the activity of the diploma program.

VISION

Capacity building of students and researchers, training them to be a part of the Nation's growth and be a valuable resource for the society.

MISSION

Impart cutting-edge knowledge and hands-on training in the thrust areas of Genetics and Genomics. Make high quality education accessible and affordable to everyone.

AREAS OF RESEARCH

- Drosophila Genetics, Genomics and Evolution
- Humans Genetic Disorders and Genomics
- Microbial Genetics – Infectious Diseases
- Bioinformatics of Variety of Organisms

ACADEMIC PROGRAMMES

M. Sc Genetics

Eligibility :

1. The candidates must have studied any Bachelor's degree in Life science including Medicine, Pharmacy, Dental, BE in Biotechnology, Agriculture and Veterinary Sciences from any University / Institution recognized by UGC/ ICAR/AICTE/ Medical Council.
2. The candidates must have completed bachelor's degree with an aggregate of 45% marks excluding languages (Relaxable to 40% for SC & ST candidates)
3. Entrance Test: Compulsory. 50% marks of the entrance test and 50% marks of the bachelor's degree examination excluding languages will be considered for preparing the merit list at the time of admission.

Post Graduate Diploma in Personalized Genomic Medicine

Eligibility: Post-Graduate in Medical Science (MD/MD-Ayurveda/MDS) Post-Graduate in Basic Sciences in Biotechnology/ Genetics/ Applied Genetics/Genomics/Molecular Biology/ Biochemistry/ Zoology/Life Sciences or in equivalent areas Post-Graduate in Engineering Sciences (e.g. M.Tech in Biotechnology) Post-Graduate in Pharmaceutical Sciences (MPS).

Ph. D in Genetics

Eligibility : Selection through Entrance Examination. Eligibility as per University notification and Ph.D regulations prescribed by UGC

NUMBER OF Ph.D. IN GENETICS: 27

Collaboration

National Collaboration

- IISc-MRDG- Genetics of muscle development in *Drosophila*.
- Mysore Medical College & Research Institute Mysore- Genetic analysis of complex diseases.
- JSS Medical College, Mysore- Genetic analysis of Asthma & CHDs.

International Collaboration

- Shastri Research Grant (SRG), Canada- Development of an automated and low-cost handheld device for diagnosis of tuberculosis handheld device for diagnosis of tuberculosis (2014).

RESEARCH FACILITIES

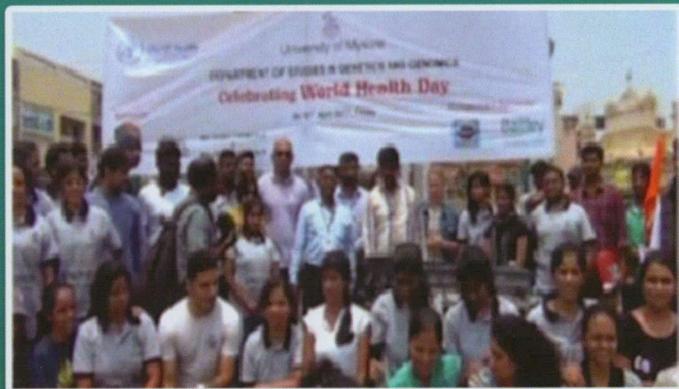
Fly Stock Facility, RT-qPCR, PCR, -80°C and -20°C storage facility, Gel documentation facility, Incubators, Refrigerators, High performance computational facility and network and Microscopes Softwares – StrandNGS, IPA and other Bioinformatics softwares

ENDOWMENTS

- 2007- Professor H. A. Ranganath endowment gold medal
- 2013- Professor S.N. Hegde endowment gold medal
- 2021- Professor N. B. Ramachandra endowment gold medal

OTHER ACTIVITIES

- Special invited lecture series
- Quiz and Symposiums
- Flash mobs and street plays – public outreach
- Collaborative research and placements after graduation



Inauguration of Flash-Mob and Street Play by the Hon'ble Mayor of Mysuru at Chikka Gadiyara, Mysuru on account of World Health Day

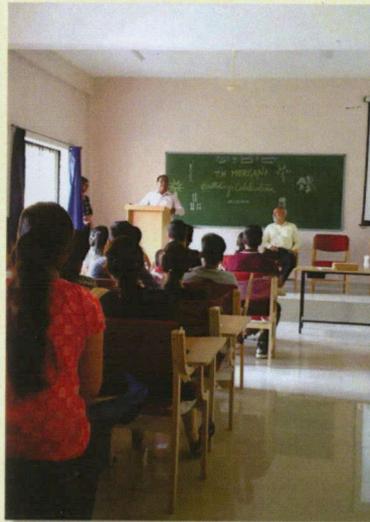


3rd Life Science Research Symposium – Presentation by participants and award for Best Presentation



Morgan Day Celebration

Extension Activities



FACULTY PROFILE



Dr. N B Ramachandra
M.Sc., Ph.D., FASc, KSTA

**Former Chairman,
UGC-BSR Faculty Fellow**

**Drosophila, Human, & Microbial Genetics,
Genomics and Evolution**



Dr. G Subramanya
M.Sc., Ph.D.

Visiting Professor

Silkworm genetics

Name of the Faculty

Designation and Qualification

Specialization



Dr. S. S. Malini

Professor
(Zoology and Genetics and
Genomics Department)
M.Sc., Ph.D.,

Human Genetics



Dr. Tejas Baba C Kalastavadi

Assistant Professor
Coordinator, Postgraduate
Diploma program
in personalized Genomic Medicine.
M.Sc., Ph.D.

Protein homeostasis and
quality control

The academic programme is supported by 6 Guest Faculty

Contact

The Chairperson

Department of Studies in Genetics and Genomics

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