

DEEPTHI VENUGOPAL
M.Sc Biomedical Genetics, VIT University, Vellore
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RESEARCH INTERESTS

•Human Genetics

Over the past few decades, an overwhelmingly vast amount of research has been dedicated to understanding human genetics. Studies on human genetics have gained significant momentum in the last decade due to the discovery of several diseases associated with the same, especially diabetes, cancer and schizophrenia. The ability to understand the genetic basis of any disease is vital to the production and formulation of therapeutics and may be the key to prevention of a number of diseases. **My area of interest includes experimental studies aimed at elucidating the genetic basis of diseases like cancer, diabetes, cataract, neurodegenerative diseases etc to develop new drugs or a better management system.**

WORK HISTORY

- **Guest lecturer**, St. Aloysius College, Thrissur (Jan 2012 - present)
My main responsibilities include setting up of a full fledged genetic research lab which could be used to train post graduate students in molecular and cytogenetic techniques prescribed in the syllabus, as well as help in research work of PhD students
- **Project Assistant** in a DBT funded Project at All India Institute of Medical Sciences (AIIMS) from January 2011 to July 2011.
My work included setting up and maintenance of amniotic fluid, chorionic villi and blood sample cultures. These cultures were further processed for karyotype analysis to identify chromosomal abnormalities-aneuploidies or structural abnormalities.

EDUCATIONAL BACKGROUND

- Qualified UGC JRF -NET combined exam held on 17/06/2012
- **M.Sc Biomedical Genetics** from Vellore Institute of Technology, VIT university, Vellore in 2010.
- **B.Sc Life Sciences** from Gargi college, Delhi University in 2008.
- **Indian School Certificate (ISC)** conducted by the Council for the Indian School Certificate Examinations (CISCE) from Hari Sri Vidya Nidhi School, Thrissur in 2005
- **Indian Certificate of Secondary Education (ICSE)** conducted by the Council for the Indian School Certificate Examinations (CISCE) from Hari Sri Vidya Nidhi School, Thrissur in 2003

TRAININGS AND INTERNSHIPS

- **Training in Molecular Genetic techniques** at All India Institute of Medical Sciences (AIIMS) from December 2009 to May 2010.
- **Summer training in cytogenetic techniques, PCR analysis and tissue culture** at CIMAR GENETICS, Edappal Hospital, Malappuram, Kerala (May 27th to June 24th 2009)

CONFERENCES & WORKSHOPS ATTENDED

- National Conference on "*Frontier Areas in Applied Zoology*" organized by Department of Zoology Ayya Nadar Janaki Ammal College, Sivakasi during March 15th-17th 2012
- "*Silver Jubilee International Conference on Biotechnological Solutions for Environmental Sustainability*" conducted by VIT University during 21st - 23rd October, 2009
- "*Science Conclave with Nobel Laureates*" conducted by IIT Allahabad from December 13 - 21, 2008.
- National Seminar on "*Chemistry, Environment and You- Challenges for Future*" conducted by department of chemistry, Gargi College, University of Delhi

PRACTICAL SKILLS

- Culturing of Amniotic fluid, Chorionic villi and Blood samples.
- Karyotyping and identification of chromosomes
- DNA isolation, PCR, SSCP & PAGE

SOFTWARE SKILLS

- **Language Knowledge:** PROGRAMMING IN C, C++
- **Operating System:** Working knowledge in MS Windows, Linux

REFERENCES

<ul style="list-style-type: none">• Dr. Sreelata Nair, Geneticist, LIFELINE HOSPITAL, 14th Mile, Melood P.O, Adoor Kerala, India: 691523	<ul style="list-style-type: none">• Dr. Rashmi Shukla Genetic Unit, Department of Pediatrics Old OT Block, Room no. 112 All India Institute of Medical Sciences Ansari Nagar, New Delhi 110029
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PERSONAL PROFILE

Name: Deepthi Venugopal
Father's name: Dr. M.N Venugopalan
Date of birth: 10/06/1987
Sex: Female
Nationality: Indian
Languages: English, Hindi, Malayalam