

Renju R Nair

Lab Manager, Molecular biology, and Cell biology technician

Contact

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Education

- 2002-2004 B.Ed (Education)
Mahatma Gandhi University, Kerala, India
- 2000-2002 M.Sc (Chemistry)
Mahatma Gandhi University, Kerala, India
- 1997-2000 B.Sc. (Chemistry)
Mahatma Gandhi University, Kerala, India

Skills

1. Hands on experience in Protein extraction, purification and Western hybridization
2. Experience in FPLC and used AktaPure
3. More than five years of experience in Lab and inventory Management
4. More than three years of experience in DNA, RNA and Plasmid purification
5. Proficient in RT-PCR and qPCR
6. Hands on experience in PCR based genotyping
7. Proficient in preparing highly efficient competent cells
8. More than five years of experience in mammalian cell culture techniques including ES cells
9. Proficient in imaging fixed cells on wide field microscope
10. Proficient in using LIMS and i- procurement systems for laboratory management
11. Proficient in Genome engineering of ES cells and transformed cell lines using CRIPSR-Cas9 system
12. Basic understanding of chromatographic methods
13. Handling of rat as experimental model and Drug self-administration experiments

Paper

Mika Saotome*, Deepak Balakrishnan Poduval*, Renju Nair*, and Motoki Takaku, GATA3 Truncation Mutants Alter EMT related gene Expression via Partial Motif Recognition in Luminal Breast Cancer Cells. Front Genet. 2022 eCollection 2022. PMID: 35154280

*Equally contributed

Experience

2019 July-2021 July Research Technician

Dr. Motoki's lab, UND, Grand forks

- Maintaining different human breast cancer cell lines.
- Perform experiments
- General lab management and maintenance of lab inventory
- Training Undergraduate and Graduate students

2017 January—2019 January

Molecular and Cell Biology Technician

The Jackson Laboratory, Bar Harbor, ME, 04609

- Evaluation of CRISPR constructs in MK4-Cas9 cell lines
- Generation and genotyping of engineered Embryonic stem cell lines
- General lab management and maintenance of lab databases and inventories

2013- December. Research Technician, VA Medical Center, Kansas City

- Management of rat colonies
- Preparation of animal and equipment for surgery
- Conduct drug self-administration experiments

2011 – 2013 Research Technician I, Stowers Institute for Medical Research, Kansas City, MO

- General lab management and maintenance of lab databases and inventories
- Material Transfer and mailing
- Assistant to Post-Doc Researcher in imaging slides of mouse brain stem cells

2004 – 2005 Teacher, Higher Secondary School, SDA Higher Secondary School, India

2015- 2016 Voluntary Math teacher for third, fourth and fifth grade students in Rushton Elementary School

2016-2017 Voluntary Chemistry teacher Shawnee Mission North and West High school

Poster presentation

Renju R Nair, Motoki Takaku *Epigenetic vulnerability in GATA3 mutant breast cancer cell*; Epigenetics COBRE annual symposium, UND, Grand forks, March 31st, 2021
Renju R Nair, Deepak B Poduval, Motoki Takaku, *Epigenetic vulnerability in GATA3 mutant breast cancer cell*; DACoTTA CTR annual symposium, UND Grand forks, 18th June, 2021

I took a break from my job to care for my ailing mother, who was diagnosed with cancer.