

# SRIVIDYA SHETTY

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## PROFILE

A dedicated and capable researcher with experience in stem cell biology, molecular biology, genetics, biochemical techniques and cell based bio-assays. I have a proven ability to plan, design and execute my work to meet the needs of the project I'm involved in. An optimistic person, a team player with solid written and oral communication skills.

## EXPERIENCE

### Head of R&D, G7 Synergon Pvt. Ltd. Bangalore — 2022 - Present

Roles & Responsibilities:

- To ensure adherence to comply with Principles of GLP by department staff and to be the single point of study control and overall conduct of the study.
- To author, review and archive the study plans/SOPs/Reports/Amendments related to Cell Biology/Molecular Biology/Biochemistry studies and ensure that these documents are in compliance with appropriate SOPs, GLPs, and regulatory agency guidelines. Training of staff to stay up to date with the SOPs and laboratory skills.
- To conduct and monitor studies and simultaneously monitor progress and status of assigned studies, to ensure that all experimental data, including observations of unanticipated responses to the test system, are accurately recorded and verified.
- To coordinate with QA for internal audit/s of study plans, study reports, process/facility audits. Also, to coordinate audit trials with sponsor and regulatory bodies.
- To initiate scientific discussions and presentations with sponsor if necessary and to be in communication with management and sponsor regarding study related issues.
- To standardise and validate new methods related to Cell Biology/Molecular Biology/Biochemistry based assays.
- To take corrective action for any unforeseen event that can affect the quality and integrity of study.

### **Consultant - R&D, G7 Synergon Pvt. Ltd. Bangalore — 2021 - 2022**

Roles & Responsibilities:

- To provide scientific insight into development and optimisation of new methods related to Cell Biology/Molecular Biology/Biochemistry based assays.
- To train the laboratory personnel with required skills related to Cell Biology/Molecular Biology/Biochemistry fields.
- To plan the project activity and execute them.

### **Scientist II - R&D, G7 Synergon Pvt. Ltd. Bangalore — 2019 - 2020**

Roles & Responsibilities:

- To execute studies related to Cell Biology/Molecular Biology/Biochemistry as per the study plan approved and ensure that all experiments including observations of unanticipated responses are recorded.
- Maintenance of continuous and primary cell lines and to conduct *in vitro* assays as per client requirement using the cell lines.
- Isolation and quality assessment of RNA and to conduct PCR based experiments for gene expression studies.
- Write new SOPs for process based and instruments and submission to management for review and approval.
- To ensure the equipment's calibrations and services in the laboratory and to maintain track on media, reagents and laboratory consumables.

### **Junior Research Fellow - ADBS Laboratory, Dept. of Psychiatry, National Institute of Mental Health & Neurosciences, Bangalore - 2016 - 2019**

- Generation and banking and characterisation of lymphoblastic cell lines from patients of various psychiatric disorders.
- Maintenance, banking and usage of neural stem cells for research projects.
- Conduct experiments like immunofluorescence staining, PCR, physiology based assays, protein based assays, calcium signaling based assays etc. for the various research projects involved in.

- Plan for project related resources and maintenance of the data under the supervision of the principal investigator (PI).
- Inventory management and coordination with support teams like purchase department, accounts and administration as needed.

#### **Assistant Lecturer - School of Regenerative Medicine, Manipal University, Bangalore - 2015 - 2016**

- Preparing teaching material and taking theory , practical classes for M.Sc., PGDRM and PhD student's coursework programs.
- Conduct examinations in co-ordination with the examination cell of university.

#### **EDUCATION**

##### **Masters of Science in Regenerative Medicine, School of Regenerative Medicine, Manipal University — 2012 - 2014**

*Overall course grade: 6.5/10 CGPA. First class*

##### **Post Graduate Diploma in Industrial & Applied Biotechnology, SIES-IIEM, Mumbai University — 2011 - 2012**

*Overall course grade: 7/10 CGPA. First class*

##### **Bachelors of Science, St. Aloysius College, Mangalore University — 2011 - 2012**

*Overall course grade: 7.4/10 CGPA. Distinction*

#### **SKILLS**

##### **MOLECULAR BIOLOGY & BIOCHEMISTRY**

- Protein isolation, purification and estimation, SDS-PAGE, Western blot analysis.
- Nucleic acid isolation, quantification, qPCR, RTQPCR.
- Immunocytochemistry (ICC), Magnetic Activated Cell Sorting(MACS), HLA typing, ELISA.
- Histopathology:Tissue fixing & processing, Immunohistochemistry (IHC).

##### **CELL CULTURE**

- **Primary culture:** Isolation and culture of mouse embryonic fibroblasts, isolation and culture of mesenchymal stem cells from human umbilical cord, isolation and culture of human dermal fibroblasts from punch biopsies.
- **Stem cell culture:**

- i. **Embryonic Stem Cells (ESCs)** : culture and characterisation of mouse embryonic stem cells; culture of human embryonic stem cells on feeder cell layer, expansion, karyotyping, characterisation, differentiation towards mesodermal (cardiac, osteogenic) and ectodermal (neural differentiation) lineages and their further characterisation.
- ii. **Mesenchymal Stem cells (MSCs)** : Isolation and culture of MSCs from the human umbilical cord, expansion in culture and characterisation by immunofluorescence and differentiation into adipocytes, osteocytes and chondrocytes.
- iii. **Cancer stem cells:** culture, expansion and characterisation of breast cancer tumour cell line MCF7.
- iv. **Neural stem cells (NSCs):** culture & characterisation, differentiation into neuronal cell types.

**Other mammalian cell culture:** Culture and differentiation of 3T3 L1 pre-adipocytes into adipocytes, culture and maintenance of CaCO2, ARPE-19, HDFa & HUVEC cells, culture and differentiation of THP-1 monocytes into macrophages, establishing primary cell cultures like human mesenchymal stem cells from umbilical cord tissue and human dermal fibroblasts from skin tissue.

## **MICROSCOPY**

Handled fluorescence (Zeiss, Olympus) microscopes for imaging and stereo microscopes for dissections. Used ImageJ/Fiji for co-localisation, tracking, and Z stacking.

## **COMPUTATIONAL SKILLS**

MS Office (entire suite), *in silico* tools for variant annotation, copy number variation (CNVs) analysis, gene-disease association studies and omics databases, Graph Pad Prism.

## **PUBLICATIONS**

Novel KCNJ10 mutation identified in a SeSAME family compromise channel function and impairs Drosophila locomotor behaviour. Ravi K Nadella, Anirudh Chellappa, Anand G. Subramaniam, Srividya Shetty et al. ; Journal of Human Genomics, 2019. (<https://doi.org/10.1186/s40246-019-0236-0>)