

# Curriculum Vitae



**Name:** SHASHI RANJAN

**Current Address:** 421/ E3

Paradise Apartment

Rohini Sector 18, New Delhi

India-110089

**Contact number:** (+91)-8130109103

**E-mail:** shashi.biotech2007@gmail.com

Pass Port no: R3866629

DOB: 21-01-1986

Skype: (+91)-8130109103

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**Degree Awarded-** 09-08-2010

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## Education:

**B. Tech. Biotechnology 71.91%** **2006-2010**

IASE University, Sardarshahr, Rajasthan, India.

**Higher Secondary Course, Percentage obtained- 58.33%** **2003**

B.I.E.C Board, Bihar, India.

**Secondary School Course, Percentage obtained- 66.31%** **2000**

B.S.E.B Board, Bihar, India.

## Work Experience:

**SANSIRITI Foundation- Daulat Ram College, Delhi University** **August 2017- Present**

I have been working as technical specialist (Research and education support – Zebrafish facility) where I was responsible for overall operation and maintenance of zebrafish facility with aquatic research housing systems from the internationally recognized “PENTAIR AQUATIC ECO-SYSTEMS”. I performed system maintenance i.e., monitoring as well as recording system.

I am maintaining zebrafish facility and training other lab staff, students, faculty in zebrafish husbandry. I have standardized 'injury induced neutrophil migration assay' in our laboratory.

A part of my responsibilities include maintaining the water quality of the system which is performed by checking water hardness as well as other chemical parameters i.e. pH, nitrate, nitrite and ammonia levels. For overall functioning of the lab, I performed regular standardization of Artemia feed, recording total embryo counts per week, autoclaving of breeding tanks as well as fish-catching nets.

I am managing fluorescence microscopy in our laboratory and standardizing assays involving fluorescent dyes and probes by using software NIS-Element. I am carrying out chemical screening in zebrafish model. I have been involved in preparing educational material for student learning and also organize for workshops in the area of science communication and zebrafish husbandry.

Apart from facility maintenance and experiments I am also involved in keeping the record of chemicals as well as other reagents required for the lab is maintained by me and the timely ordering of the same is performed.

**CSIR- Institute of Genomics and Integrative Biology, New Delhi    May'2012-June 2017**

**Research fellow**

I have worked as a Zebrafish facility manager for the past 5 years where I was responsible for overall operation and maintenance of 1000 sq. ft. zebrafish facility with aquatic research housing systems from the internationally recognized "Aqua Neering". I performed system maintenance i.e., monitoring as well as recording systems parameters, maintaining water quality and level by regularly changing the system filters and hence to successfully function the system. I was also actively involved in growing various transgenic fishes, maintaining the lineage of fishes, breeding set up, embryo collections and feeding etc. I am also responsible for culturing paramecium culture, feeding the larvae, maintaining water quality for larvae through siphoning and cleaning tanks on a regular basis in order to safeguard baby fishes.

Apart from the zebrafish lab maintenance, I have also been involved in the technical part of a functional molecular biology lab. The record of chemicals as well as other reagents required for the lab is maintained by me and the timely ordering of the same is performed. During these responsibilities, I also have an experience of handling few software's like MIS and ERP. The following paperwork after the purchase till the receiving of the product is also done by me.

Additionally, I was voluntarily involved in a few of the molecular biology experiments in some ongoing studies in our lab.

**Ace Probe Technologies Pvt Ltd (Sequenom), New Delhi**

**May'2011-Dec'2011**

I had performed SNP genotyping by using Mass Array system which is based on Matrix Assisted Laser Desorption/Ionization-time of flight Mass Spectrometry (MALDI-TOF)

**Technical Skills:**

- Zebrafish Handling and husbandry
- Construction and screening of transgenic zebrafish lines
- Microinjection into zebrafish embryos
- cDNA synthesis, Real time PCR
- Nucleic acid isolation
- Cryotome tissue sectioning
- Injury induced neutrophil migration assay
- RNA *In situ* Hybridization
- Fluorescent Microscopy
- Western Blotting
- Nano Dispenser
- Mass ARRAY system, Genotyping
- Dissection of all organs from Zebrafish adult

**Software skills:**

- Microsoft Office(Word,Excel,Power Point)
- Nikon Instruments Software(NIS) Element
- Management Information system (MIS)
- Enterprise Resource Planning (ERP)

**Training:**

- Training on Genome analysis at Devi-Ahilya University, Indore, India.
- Molecular biology training at Chemind Diagnosis & Bio solution,Jaipur,India
- Training on Microbiology (Q.C Lab) at Siemen laboratory, Haridwar,India

- Workshop & training on advancement in Biotechnology at IASE University, India
- Training on Molecular Biology, Genetic “Engineering expression of metal binding protein/peptide in Bacterial cell (*E.coli*)” at Allele Life Science, Noida, India

### **Publications:**

- *Chemical and genetic rescue of an ep300 knockdown model for Rubinstein Taybi syndrome in zebrafish.* Aswini Babu, Mageshi Kamaraj, Moumita Basu, Debanjan Mukherjee, Shurti Kapoor, **Shashi Ranjan**, Mahadeva M. Swamy, Stephanie Kaypee, Vinod Scaria, Tapas K. Kundu\*, Chetana Sachidanandan\* **Molecular Basis of disease** <https://doi.org/10.1016/j.bbadis.2018.01.029>
- *A Novel Long Non-coding RNA, durga Modulates Dendrite Density and Expression of kalirin in Zebrafish.* Mayuresh A. Sarangdhar, Divya Chaubey, Abhishek Bhatt, Monisha KM, Manish Kumar, **Shashi Ranjan** and Beena Pillai\* **Front. Mol. Neurosci.**, **10 April 2017** | <https://doi.org/10.3389/fnmol.2017.00095>
- *Teratogenic, cardiotoxic and hepatotoxic properties of related ionic liquids reveal the biological importance of anionic components.* Aditi Pandey, Mary Krishna Ekka, **Shashi Ranjan**, Souvik Maiti and Chetana Sachidanandan\* DOI: 10.1039/C7RA01520H (Paper) **RSC Adv.**, **2017**, *7*, 22927-22935
- *The Light Intermediate Chain 2 Subpopulation of Dynein Regulates Mitotic Spindle Orientation.* Sagar Mahale, Megha Kumar, Amit Sharma, Aswini Babu, **Shashi Ranjan**, Chetana Sachidanandan & Sivaram V. S. Mylavarapu. **Scientific Reports** **6**, Article number: **22 (2016)** doi:10.1038/s41598-016-0030-3
- *Rescue of neural crest-derived phenotypes in a zebrafish CHARGE model by Sox10 downregulation.* Asad Z, Pandey A, Babu A, Sun Y, Shevade K, Kapoor S, Ullah I, **Ranjan S**, Scaria V, Bajpai R, Sachidanandan C. **Hum Mol Genet.** **2016** doi: 10.1093/hmg/ddw198
- *Identification of noreremophilane-based inhibitors of angiogenesis using zebrafish assays.* Muthukumarasamy KM, Handore KL, Kakade DN, Shinde MV, **Ranjan S**, Kumar N, Sehrawat S, Sachidanandan C, Reddy DS. **Org Biomol Chem.** **2016** Feb 7;14(5):1569-78. doi: 10.1039/c5ob01594d.

### **Achievements and Awards**

- First prize in “advertisement made show” at university level.
- First prize in “drama competition” at university level

**Languages Known:** English (Advanced), Hindi (Native)

**References:**

I worked under them in CSIR-IGIB for 6 years and they know me personally and professionally. I have good experience with them while working.

<p><b>Dr. Chetana Sachidanandan</b> Senior Scientist CSIR-Institute of Genomics and Integrative Biology New Delhi <a href="mailto:chetana@igib.in">chetana@igib.in</a> +919717444144</p>	<p><b>Dr. Adita Joshi</b> <b>Director Sansriti foundation</b> Daulat Ram College, Delhi University, New Delhi <a href="mailto:aditayugaljoshi@gmail.com">aditayugaljoshi@gmail.com</a>  <a href="tel:+919717293111">+919717293111</a></p>	<p><b>Dr. Angom Ramcharan Singh</b> Research Fellow Mayo clinic,451 Griffin Building 4500 san pablo road Jacksonvile,FL3224 <a href="mailto:angom.ramcharan@mayo.edu">angom.ramcharan@mayo.edu</a> +1(347)571-4938</p>	<p><b>Dr. Kausik Chakaraborty</b> Senior Scientist CSIR-Institute of Genomics and Integrative Biology New Delhi <a href="mailto:kausik@igib.in">kausik@igib.in</a> +919999101867</p>
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