

ARUNDHATI MISHRA

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Professional summary:

I have **Research experience of over 6 years** in field of **Biotechnology and it's allied research areas**. I worked as a **PhD Research Scholar**, under the guidance of **Prof. MV Rajam** in **Department of Genetics, University of Delhi South Campus**, from **29th October 2015 to 12th October 2020**. I have experience in training & mentoring B.Sc. & M.Sc. students with practical skills in Biotechnology.

I also have experience in working in corporate sector as Digital marketing specialist. I am looking for job opportunities in **Content creation (Edutech sector), Scientific / Technical writing, online tutor (Science /Biology), subject matter expert**. I can tutor students of classes I-VIII (all subjects), Classes IX,X,XI,XII (Biology & English), also I can tutor students for creative writing.

Work experience: (Academic)

1. **Senior Research Fellow (SRF)** at **Department of Genetics, University of Delhi South Campus**, under the guidance of **Prof. MV Rajam** in the Project titled "Engineering ToLCV resistance in tomato using single and multiple artificial microRNAs" from **2nd September 2017 till 12th October 2020**.

- Major area of research: RNAi in crop improvement / Transgenics.
- Main objective: Generation of Tomato transgenics resistant to *Tomato Leaf Curl Virus*.
- Handling and experiments on Plant tissue culture (Tomato and Tobacco); Transgenic Screening by PCR, Southern Blot and experiments based on plant virus interaction; Molecular Biology Techniques.
- Handling and Maintenance of Greenhouse & Net house.
- PhD Course Work on Research Methods.
- Research Article / Review / Book Chapter on RNAi in crop improvement (in progress).

2. **Junior Research Fellow (JRF) at Department of Genetics, University of Delhi South Campus**, under the guidance of **Prof. MV Rajam** in the Project titled "Engineering ToLCV resistance in tomato using single and multiple artificial microRNAs" from **22nd June 2015 to 1st September 2017**.

- Major area of research: RNAi in crop improvement / Transgenics.
- Main objective: Generation of Tomato transgenics resistant to *Tomato Leaf Curl Virus*.
- Handling and experiments on Plant tissue culture (Tomato and Tobacco); Transgenic Screening by PCR; Molecular Biology Techniques.
- Handling and Maintenance of Greenhouse & Net house.

3. **Project Fellow at Institute of Genomics and Integrative Biology (IGIB), Mathura Road, Delhi**, under Dr. Sridhar Sivasubbu, from **21st July 2014 to 19th June 2015**.

- Handling and maintenance of Zebrafish lab facility; including rearing of fishes for experiments, setting up breeding crosses for experiments, feeding of adult fishes as per daily requirement, handling and feeding of baby fishes, water supply maintenance in the fish lab facility.
- Project based on: *in-vitro* protein trap approach as gene editing tool in Zebrafish.
- Experiments on Microinjection, Microscopy, and molecular biology techniques.

Conference presentation :

1. Oral presentation on "Artificial miRNA mediated targeting of ToLCV genes for virus resistance in tomato" in **7th International Conference Phytopathology in Achieving UN sustainable Development Goals**, held on **January 16th -20th**, ICAR-IARI, New Delhi.
 - Awarded Best Oral presentation.
2. Poster presentation in **International conference on Trends in Plant Sciences and Agrobiotechnology 2019 (ICTPA-2019)**, held on **February 14th – 16th**, at IIT Guwahati.

Seminars/ Workshop attended :

1. **AgriGenomics India 2016, 2nd International Conference on Plant Genetics and Genomics**, held on **19-20th August 2016** at Radisson Blu Plaza, Delhi.

2. **BIRAC-DBT Sponsored Training Programme on Application of Marker Assisted Selection and Transgenic Development for Crop Improvement, 18th – 20th Feb, 2016** held at NRCPB, Delhi.
3. **IPPCongress 2015, 3rd International Plant Physiology Congress, Dec 11-14, 2015**, held at Convention Center JNU, New Delhi.
4. **National Symposium on Infectious Disease : Basic and Applied Research** held at Bhaskaracharya College of Applied Sciences, University of Delhi in **2010**.

Research Skills:

- Artificial micro RNA (amiRNA) designing with WMD software.
- Plant Tissue Culture Techniques (Tomato Transformations) for generation of transgenics.
- RNAi based crop improvement strategies.
- Molecular cloning strategies.
- Molecular biology techniques (PCR, RT-PCR, primer designing, screening of transgenics by SOUTHERN BLOT, virus challenge assay)
- Basic Bioinformatics tools (BLAST, WMD, m-FOLD)
- Fluorescent Microscopy.
- Computer knowledge: Basic knowledge of OS, MS-WORD, MS-EXCEL, MS-POWERPOINT.

Publication / Research Articles :

- Kaur, R., Choudhury, A., Chauhan, S., Ghosh, A., Tiwari, R., & Rajam, M. V. (2021). RNA interference and crop protection against biotic stresses. *Physiology and Molecular Biology of Plants*, 27(10), 2357-2377.
- Yogindran, S., Ghosh, A., & Rajam, M. V. (2015). Artificial miRNAs for specific gene silencing and engineering virus resistance in plants. *Cell and Developmental Biology*, 4, e137.
- D. Kumar Srivastava et al. (eds.), *Agricultural Biotechnology: Latest Research and Trends*, https://doi.org/10.1007/978-981-16-2339-4_19

Fellowship / awards :

Fellowships/Awards	Year qualified
NET – LS	December 2014
GATE 2014	2014

Work experience: (Technical)

1. **Email Operations Specialist at Hirect, India from February 2022 till June 2022.**

- Planning email campaigns & sending out email campaigns to users every week.
- Writing creative email copy.
- Strategizing methods to increase click rate & open rates.
- Writing copy for UI of the App
- Editing various copy & content related to the app UI.
- Writing copy for push notification.
- Planning trigger based email campaigns.

2. **Digital marketing strategist at VRISA BIO LABS, US based start-up, from September 2021 – January 2022.**

- Strategizing marketing techniques for a new company to build a base in a new country / city.
- Conducting surveys, understanding market regarding laboratory supplies in India.
- Creating, handling and managing content for social media platforms like LinkedIn, Facebook, Twitter via **SEO content writing** and **SEO marketing**.
- Contacting potential clients by **email marketing**.
- Designing **brochure / Catalogue** of products.
- Designing **Website**.
- Contacting dealers / distributors for selling of products and keeping a track of the sold products.
- Customer relation management and feedback (**CRM software**)

3. **Freelance Telecommunication specialist / Tele caller at Testbook, from July 2021 till September 2021.**

- Working on CRM platform.
- Contacting potential customers by calls.
- Generating new leads.
- Customer relation management and feedback.
- Resolving customer issues.
- Updating customers with new products and offers.

Key technical skills :

- MS-Office. (Intermediate)
- Google Analytics (basic)
- Python (basic)
- MySQL (basic)
- CRM (Vtiger, Hubspot)
- Word-press (Intermediate)
- Editing / designing software **Canva**. (Intermediate)
- Salesforce (Basic)
- Email marketing platform [Marketo, MailChimp]
- Video editing tools & software.
- Sound knowledge about YouTube Creator platform / Uploading videos on YouTube, Creating Website & blogs in Word-press.

Awards & Certification (Technical):

- Certified in **Google Analytics** from Google Analytics Academy.
- Certified as “**Outstanding Freelancer**” from Testbook.

Education

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YEAR	DEGREE	UNIVERSITY/BOARD
2014	M.Sc. in Genetics	University of Delhi
2012	B.Sc.(H) in Biomedical Sciences	University of Delhi
2009	Class XII	CBSE
2007	Class X	CBSE

Publication / Research Articles :

- Co-authored two books : **Going Off the Grid**, Poem Pajama (April, 2020); **The Great Indian Anthology**, Half baked beans publishers, 2020,1st Edition.
- Co-Author of Hindi poetry and short story book : Hum, hamari kalpana aur yatharth, published by Orangebook Publication, available on Amazon India. (December 2020)

Personal details :

- **Date Of Birth** : 30-04-1991
- **Marital status** : Married.
- Presently holding Indian passport.