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AYUSH AGGARWAL

CURRENT POSITION

Graduate Student(CSIR-SRF) at CSIR – IGIB, Delhi (Supervisor – Dr. Vivek T. Natarajan)

August 2017 – Present

EDUCATION

Ph.D. STUDENT IN BIOLOGICAL SCIENCES, CSIR-INSTITUE OF GENOMICS AND INTEGRATIVE BIOLOGY

August 2017 – Present

B.E. BIOTECHNOLOGY, NETAJI SUBHAS INSTITUE OF TECHNOLOGY (DELHI UNIVERSITY) (CURRENTLY NETAJI SUBHAS UNIVERSITY OF TECHNOLOGY)

2011 - 2015

PUBLICATION

Raja, D. A., Subramaniam, Y., **Aggarwal, A.**, Gotherwal, V., Babu, A., Tanwar, J., Motiani, R. K., Sivasubbu, S., Gokhale, R. S., & Natarajan, V. T. (**2020**). Histone variant dictates fate biasing of neural crest cells to melanocyte lineage. **Development**, dev.182576. https://doi.org/10.1242/dev.182576

Grover, R., Burse, S.A., Shankrit, S., **Aggarwal, A.**, Kirty, K., Narta, K., Srivastav, R., Ray, A.K., Malik, G., Vats, A., Motiani, R.K., Thukral, L., Roy, S.S., Bhattacharya, S., Sharma, R., Natarajan, K., Mukerji, M., Pandey, R., Gokhale, R.S., Natarajan, V.T., **2019**. Myg1 exonuclease couples the nuclear and mitochondrial translational programs through RNA processing. **Nucleic Acids Res**. 47, 5852–5866. https://doi.org/10.1093/nar/gkz371

Oh S, Abdelnabi J, Al-Dulaimi R, **Aggarwal A**, Ramos M, Davis S, Riester M, Waldron L, **2020** . HGNChelper: identification and correction of invalid gene symbols for human and mouse [version 1; peer review: 2 approved, 1 approved with reservations]. **F1000Research. 9**:1493 (https://doi.org/10.12688/f1000research.28033.1)

EXPERIENCE

PROJECT FELLOW, CSIR-INSTITUE OF GENOMICS AND INTEGRATIVE BIOLOGY

OCTOBER 2015 – JULY 2017

Worked on the project entitled "Genome Dynamics in Cellular Organization, Differentiation and Enantiostasis (BSC-0123)" under the supervision of Dr. Rajesh S. Gokhale.

My aim was to understand the fatty acid metabolism gene regulation in *Mycobacterium spp.*

ADDITIONAL QUALIFICATIONS

56TH RANK IN JOINT CSIR-UGC TEST FOR JUNIOR RESEARCH FELLOWSHIP (NET)

2016

94.59 PERCENTILE IN GRADUATE APTITUDE TEST IN ENGINEERING (GATE-BT)

2016

MERIT SCHOLARSHIP AWARD FOR PERFORMANCE IN FINAL YEAR EXAMINATION OF THE UNDERGRADUATION DEGREE

2015-16

317 SCORE IN GRE GENERAL TEST

2014

19999 RANK OUT OF 1.1 MILLION STUDENTS IN ALL INDIA ENGINEERING ENTRANCE EXAMINATION (AIEEE)

2011

PROJECTS / INTERNSHIPS

BACHELOR THESIS PROJECT, NETAJI SUBHAS INSTITUTE OF TECHNOLOGY, NEW DELHI

FEBRUARY 2015 – JUNE 2015

Worked on the project entitled "Therapeutic Potential of Some Selected Plant Species" under the supervision of Mr. Akhilesh Dubey and Dr. Ashok K. Dubey.

SUMMER TRAINING, NETAJI SUBHAS INSTITUTE OF TECHNOLOGY, NEW DELHI

JULY 2014

Learnt the basic techniques of extraction of phytochemicals and their analysis using thin layer chromatography, under the supervision of Dr. Ashok K. Dubey.

SUMMER PROJECT, NETAJI SUBHAS INSTITUTE OF TECHNOLOGY, NEW DELHI

JUNE 2013 – JULY 2013

Learnt the techniques required for isolation and screening of bio-surfactant producing microorganisms under the supervision of Dr. Ashok K. Dubey.

SKILLS

- Data analysis and visulaization
- Basics of R, C++ and SQL
- Flow cytometry
- Mammalian cell culture
- Molecular cloning and genetic manipulation of bacteria

POSITION OF RESPONSIBILITY / EXTRA CURRICULAR ACTIVITIES

- Volunteer, GENMEDSKIN 2016, International Conference on the theme "Genomic Medicine in Skin Research" organized by Systems Biology Group, CSIR-Institute of Genomics and Integrative Biology
- Volunteer, Largest Practical Science Lesson, India International Science Festival, 2015
- Organized and participated in technical/cultural festival during my undergraduation degree.