




## Faculty Details proforma for DU Web-site

| Title  | Dr     | First Name  | Aruna | Last Name | Naorem      | Photograph  |
|--|--------|---|-------|-----------|-------------|---|
| Designation  |        | <b>Assistant Professor</b>  |       |           |             |  |
| Address  |        | <b>Department of Genetics<br/>           Bachhawat Block Basement<br/>           University of Delhi, South Campus<br/>           Benito Juarez Road<br/>           New Delhi- 110021</b> |       |           |             |   |
| Phone No   | Office | <b>011-24157336</b>   |       |           |             |   |
| Residence  |        | <b>House No.-7, Type III, Block III, University of Delhi<br/>South Campus, New Delhi-110021</b>   |       |           |             |   |
| Mobile   |        |   |       |           |             |   |
| Email  |        | <b><u>aruna.naorem@south.du.ac.in</u></b>   |       |           |             |   |
| Web-Page   |        |   |       |           |             |   |
| <b>Educational Qualifications</b>  |        |   |       |           |             |   |
| Degree   |        | Institution   |       |           | Year        |   |
| Ph.D.  |        | <b>Indian Institute of Science, Bangalore, Karnataka</b>  |       |           | <b>2009</b> |   |
| M.Phil. / M.Tech.  |        | -   |       |           |             |   |
| PG   |        | <b>University of Calicut, Kerala</b>  |       |           | <b>2001</b> |   |
| UG   |        | <b>University of Delhi, Delhi</b>   |       |           | <b>1999</b> |   |
| Any other qualification  |        | -   |       |           | -           |   |
| <b>Career Profile</b>  |        |   |       |           |             |   |
| <b>2009 Oct- onwards - Assistant Professor, Department of Genetics, University of Delhi, South Campus</b>  |        |   |       |           |             |   |
| <b>2001-2009 - Ph. D, Microbiology &amp; Cell Biology, Indian Institute of Science, Bangalore-560012 Karnataka</b>   |        |   |       |           |             |   |
| <b>Administrative Assignments</b>  |        |   |       |           |             |   |
| <b>1. Radiation Safety Officer (RSO, Level-1) in the Department – March 23, 2011- March 31, 2014<br/>September 29, 2014-till date</b>                                  |        |   |       |           |             |   |
| <b>2. Resident Tutor<br/>Rajiv Gandhi Hostel for Girls<br/>University of Delhi, Dhaka Hostel Complex<br/>Delhi-110009 - Feb 2012-Feb 2014</b>                          |        |   |       |           |             |   |
| <b>Areas of Interest / Specialization</b>  |        |   |       |           |             |   |
| <b>Areas of Gene Expression, Gene Regulation at the level of Pol II, bZIP transcription factors, Peptidyl prolyl <i>cis-trans</i> isomerase, Cell cycle regulators</b> |        |   |       |           |             |   |
| <b>Subjects Taught</b>   |        |   |       |           |             |   |
| <b>Molecular Biology, Cell Biology&amp;Biochemistry, Developmental Biology (Practical), Biology of Dictyostelium (Optional paper)</b>                                  |        |   |       |           |             |   |
| <b>Research Guidance</b>   |        |   |       |           |             |   |

List against each head(If applicable)

1. Supervision of awarded Doctoral Thesis: **-None**
2. **Supervision of Doctoral Thesis:(2) Submitted, (3) under progress**
3. Supervision of awarded M. Phil dissertations(**1**)
4. **Supervision of M.Phil dissertations,under progress: None**

#### Publications Profile

List against each head(If applicable) (as Illustrated with examples)

- Books/Monographs (Authored/Edited)**None**
- Research papers published in Refereed/Peer Reviewed Journals
- Tanwar, M., Khera, L., Haokip, N., Kaul, R., **Naorem, A.**, and Kateriya, S (2017). Modulation of cyclic nucleotide-mediated cellular signaling and gene expression using photoactivated adenylyl cyclase as an optogenetic tool. *Scientific Reports*. DOI: 10.1038/s41598-017-12162-4.
- Haokip, N., **Naorem, A.** (2017) Functional characterisation of parvulin-type peptidyl prolyl cis-trans isomerase, PinA in *Dictyostelium discoideum*. *Biochem Biophys Res. Commun.* 482:208-214.doi: 10.1016/j.bbrc.2016.11.042. Epub 2016 Nov 9.
- Kalleda N, **Naorem A**, Manchikarla RV (2013) Targeting Fungal Genes by Diced siRNAs: A Rapid Tool to Decipher Gene Function in *Aspergillus nidulans*. *PLoS ONE* 8(10): e75443. doi:10.1371/journal.pone.0075443
- **Naorem, A** and Sadhale, P. P. (2008). Identification and Characterization of DdRpb4, a subunit of *Dictyostelium discoideum* RNA polymerase II. *Biochem. Biophys. Res. Commun.* **377**(4): 1141-6.
- Singh, S.R., Pillai, B., Balakrishnan, B., **Naorem, A.** and Sadhale, P. P. 2007. Relative levels of RNA polII subunits differentially affect starvation response in budding yeast. *Biochem Biophys Res Commun.* **356**:266–272.
- Singh, S. R., Rekha, N., Pillai, B., Singh, V., **Naorem, A.**, Sampath, V., Srinivasan, N. and Sadhale, P. P. 2004. Domainal organization of the lower eukaryotic homologs of the yeast RNA polymerase II core subunit Rpb7 reflects functional conservation. *Nucleic Acids Res.* **32**(1):201-210.
- Research papers published in Academic Journals other than Refereed/Peer Reviewed Journals
- Verma, J., **Naorem, A.**, Kumar, A., Sen, M. and Sadhale, P. P. 2007. RNA polymerase II-The Transcription Machine. *Resonance*.**12**: 47-53.
- Research papers published in Refereed/Peer Reviewed Conferences
- Sadhale, P. P., Verma, J. and **Naorem, A.** 2007. Basal transcription machinery: role in regulation of stress response in eukaryotes. *Journal of Biosciences.* **32**:569-578.
- Research papers Published in Conferences/Seminar other than Refereed/Peer Reviewed Conferences  
**NONE**
- Other publications (Edited works, Book reviews, Festschrift volumes, etc.)**NONE**

#### Conference Organization/ Presentations

List against each head(If applicable)

1. Organization of a Conference
  2. Participation as Paper/PosterPresenter
- Presented a poster at The X<sup>th</sup> Young Investigator Meeting held at Thiruvananthapuram, Kerala during March 5-8, 2018.
  - Delivered a talk at Young Scientist Meet held at Department of Biotechnology, University of Calicut, Kerala during Feb 22-23, 2018.
  - Attended IISc Alumni Global Conference held at Bangalore, INDIA during June 26-28, 2015
  - Attended and delivered a talk at Annual International Dictyostelium Conference held at Potsdam, GERMANY during August 3-7, 2014.

- Attended as one of the organizers at 7<sup>th</sup> Annual Convention of ABAP & International Conference on Plant Biotechnology, Molecular medicine and Human Health held at New Delhi, INDIA during October 18-20, 2013.
- Presented a poster at The 3<sup>rd</sup> Young Investigator Meeting Held at Bhubaneswar, INDIA between February 12-16, 2011.
- Presented a poster at The Tenth Asian Conference on Transcription & Transcription Assembly held at Bangalore, INDIA between January 13- 16, 2008.
- Presented a poster at The International Conference on the Biology of Yeasts and Filamentous Fungi held at Pune 2007, INDIA.
- Attended International Symposium on Environmental Factors, Cellular Stress & Evolution held at Varanasi, INDIA 2006.
- Attended 21<sup>st</sup> International Workshop tRNA-2005 held at Bangalore, INDIA.
- Attended a meeting on International conference on the Biology of Yeast 2005 held at Bangalore, INDIA.
- Presented a poster in a meeting on 10<sup>th</sup> Federation of Asian and Oceanian Biochemists and Molecular Biologists (FAOBMB), 2003 held at Bangalore, INDIA.
- Attended a meeting “XXV All India Cell Biology Conference” held at Bangalore, INDIA in November 2001.

#### Research Projects (Major Grants/Research Collaboration)(In the last five years)

##### ONGOING RESEARCH PROJECTS: ONE

1. Elucidate the function of Wee family kinases in *Dictyostelium discoideum* (EMR/2016/002994)- SERB, DST India- Rs.42.24 lakhs for 3 years (2017- 2020)

##### COMPLETED RESEARCH PROJECTS: TWO

1. Role of bZIP transcription factors in *Dictyostelium discoideum* (Reg. No.- SR/FT/LS-61/2010)- SERB (DST) - Rs.24.60 lakhs for 3 years (July 2012-July 2015)
2. Understanding the function of Peptidyl prolyl cis trans isomerase (PPIase) in *Dictyostelium discoideum* (Ref. No.- SB/EMEQ-203/2013)- SERB, DST India – Rs.44.26 lakhs for 4 years (2013-2017)

#### Awards and Distinctions

- Awarded Travel grant from University of Delhi for participation in Annual International Dictyostelium Conference 2014 at Potsdam, Germany by University of Delhi, INDIA
- Awarded scholarship for pursuing Master’s degree in Biotechnology by the Department of Biotechnology, Government of India
- Awarded Junior and Senior Research Fellowship for pursuing research in life sciences by the Council of Scientific and Industrial Research (CSIR), Government of India

#### Association With Professional Bodies None

1. Editing
2. Reviewing
3. Advisory
4. Committees and Boards
5. Memberships
6. Office Bearer

#### Other Activities

1. Delivered a lecture on *Dictyostelium discoideum*: a promising model organism at Ramjas College, University of Delhi, on March 9, 2015.
2. Delivered a lecture on “Understanding the cell differentiation in *Dictyostelium discoideum*” at National Science Day during February 27-28, 2015 at University of Delhi South Campus.
3. Delivered Lecture on *Dictyostelium discoideum* at Refresher Course in Life Sciences from January 13<sup>th</sup>-- February 7<sup>th</sup>, 2014 at the Academic Staff College, JNU on January 16, 2014.
4. As a Resource person for Star College Project (DBT, GOI) organized by Deptts. of Biochemistry, Botany, Chemistry and Zoology, Daulat Ram College, a lecture and demonstration of *Dictyostelium discoideum* -Life cycle and as a model organism on February 13- 14, 2013.

Signature of Faculty Member

(Signature & Stamp of Head of the Department)