DR. D. Y. PATIL BIOTECHNOLOGY & BIOINFORMATICS INSTITUTE (DYPBBI) JUNIOR RESEARCH FELLOWSHIP (JRF) PROGRAM

DR. D. Y. PATIL BIOTECHNOLOGY & BIOINFORMATICS INSTITUTE (DYPBBI) is a teaching and research institute in advanced science under Dr. D. Y. Patil Vidyapeeth (DPU) (Deemed to be University), Pune. Through its vibrant education and research programs, the DYPBBI provides opportunities for young students to experience research in following various laboratories with sophisticated and, advanced instruments and dedicated research staff which eventually leads to Ph.D. degree.

- Bioinformatics Research Lab,
- Cancer and Translational Research Lab,
- Genetics and Molecular Biology Research Lab,
- Microbial Diversity Research Centre,
- Molecular Neuroscience Research Lab,
- Plant and Environmental Biotechnology Research Lab,
- Protein Biochemistry Research Lab,

Applications are invited for the following Junior Research Fellow (JRF) positions for full-time at Dr. D. Y. Patil Biotechnology and Bioinformatics Institute, DPU, Pune

Advertisement number: **2023-01**   Date: 31/01/2023

Position code	Project title	No. of Position (UR)	Essential qualification	Preferable Criterion	Department	PI
2023-01-01	Identification of novel long non-coding RNA biomarkers in oral squamous cell carcinoma of Indian patients	1	*M.Sc. in any branch of Biological Sciences/ Life Sciences with minimum 55% marks from a recognized University and qualified CSIR/ UGC/ DBT/ ICMR NET*	Knowledge on cancer biology and hands-on experience in molecular biology technique	Cancer and Translational Research Centre	**Dr. Subhayan Sur (DBT-RRF) Dr.** **Email: subhayan.sur @dpu.edu.in**
2023-01-02	Evaluation role of long non-coding RNAs in progression of oral cancer	1	*M.Sc. in any branch of Biological Sciences/ Life Sciences with minimum 55% marks from a recognized University and qualified CSIR/ UGC/ DBT/ ICMR NET*	Knowledge on cancer biology and hands-on experience in molecular biology technique	Cancer and Translational Research Centre	
2023-01-03	Mining circulatory noncoding RNAs in diagnosis and prognosis of cancers	1	*M.Sc. in any branch of Biological Sciences/ Life Sciences with minimum 55% marks from a recognized University and qualified CSIR/ UGC/ DBT/ ICMR NET*	Knowledge on cancer biology and hands-on experience in bioinformatics analysis and programing language	Cancer and Translational Research Centre	**Dr. Soumya Basu (Associate Professor) Email: soumya.basu @dpu.edu.in**
2023-01-04	Short tandem target mimic (STTM) based targeting of miR319 in tomato for characterizing miR319-TCP TF cascade in	1	M.Sc. in Botany/ life sciences/ Biotechnology or allied areas with at least 60% marks from any recognized university with a valid CSIR/ UGC/	Hands-on experience in plant tissue culture/standard molecular biology techniques and fluorescent	Molecular Plant-Microbe Interaction Laboratory, Plant & Environmental Biotechnology	**Dr. Supriyo Chowdhury (Asst. Professor)**

	antiviral immunity against Tomato leaf curl virus (TolCV)		ICMR/ DBT NET JRF fellowship	microscopy		**Email: supriyo.chowd hury@dpu.edu .in**
2023-01-05	High-throughput omics data analysis of nuclear proteome network in tomato for studying antiviral resilience during leaf curl disease	1	M.Sc. in Botany/ life sciences/ Biotechnology or allied areas with at least 60% marks from any recognized university with a valid CSIR/ UGC/ ICMR/ DBT NET JRF fellowship	Hands-on experience in plant molecular biology techniques, bioinformatics analysis and fluorescent microscopy	Molecular Plant-Microbe Interaction Laboratory, Plant & Environmental Biotechnology	
2023-01-06	To investigate metabolic-epigenomic axis regulation by saliva amalgamated betel quid filtrate (SABFI) in oral carcinogenesis.	1	M.Sc. / B. TECH./ M.Tech. Biotechnology	CSIR-NET/ UGC-NET	Cancer and Translational Research Centre	**Dr. Nilesh Kumar Sharma, (Professor)**
2023-01-07	Design and evaluation of oncometabolite mimetic as anticancer agents (In silico, In vitro and In vivo models	1	M.Sc. / B. TECH./ M.Tech. Biotechnology	CSIR-NET/ UGC-NET	Cancer and Translational Research Centre	**Email: nilesh.sharma @dpu.edu.in**
2023-01-08	To study nail metabopsy for the early detection of oral and breast can	1	M.Sc. / B. TECH./ M.Tech. Biotechnology	CSIR-NET/ UGC-NET	Cancer and Translational Research Centre	
2023-01-09	Development and validation of milk teeth metabopsy for the diagnosis of Inherited metabolic disorders	1	M.Sc. / B. TECH./ M.Tech. Biotechnology	CSIR-NET/ UGC-NET	Cancer and Translational Research Centre	
2023-01-010	To study intracellular and extracellular metabolic adaptations in cancer drug resistance and development of metabolic mimetic as an inhibitor	1	M.Sc. / B. TECH./ M.Tech. Biotechnology	CSIR-NET/ UGC-NET	Cancer and Translational Research Centre	
2023-01-11	Renewable resources from Laboratory waste	1	M.Sc. in life sciences/ Biotechnology or allied areas with at least 60% marks from any recognized university	CSIR/ UGC/ ICMR/ DBT NET JRF fellowship	Microbial Diversity Research Centre	**Dr. Neelu N. Nawani, (Professor)**
2023-01-12	Development of aptamer-based biosensors for detection of pollutants	1	M.Sc. in life sciences/ Biotechnology or allied areas with at least 60% marks from any recognized university	CSIR/ UGC/ ICMR/ DBT NET JRF fellowship	Microbial Diversity Research Centre	**Email: neelu.nawani @dpu.edu.in**
2023-01-13	Development of aptamer-based biomarkers for diagnosis of diseases and medical conditions	1	M.Sc. in life sciences/ Biotechnology or allied areas with at least 60% marks from any recognized university	CSIR/ UGC/ ICMR/ DBT NET JRF fellowship	Microbial Diversity Research Centre	
2023-01-14	Enhancement of performance of biological air purifier	1	M.Sc. in life sciences/ Biotechnology or allied areas with at least 60% marks from any recognized university	CSIR/ UGC/ ICMR/ DBT NET JRF fellowship	Microbial Diversity Research Centre	
2023-01-15	Investigation of gene targets and possible mechanism related to natural products in context to neurological: Network Pharmacology and informatics analysis	1	*M.Sc. in any branch of Biological Sciences/ Life Sciences with minimum 55% marks from a recognized University and qualified CSIR/ UGC/ DBT/ ICMR NET*	CSIR-NET/ UGC-NET.	Bioinformatics Research Laboratory	**Dr. Shuchi Nagar, (Associate Professor) Email: shuchi.nagar@ dpu.edu.in**

- **The lab will host the students who wish to activate the NET-JRF fellowship or any other fellowship in the above-listed projects which can eventually lead to a Ph.D. degree.**
- **Last date of application (Those who have NET but have not activated yet): February 28, 2023**
- Interested candidates, please send applications clearly mentioning the project title, the post, contact address, and phone number, with a current CV and self-attested copies of documents/certificates supporting age, address, educational and NET qualifications to the individual PIs by **e-mail**. If any of their claims is found to be false or incorrect, it will lead to the rejection of their candidature.
- Candidates will be selected for the post following interview.
- Candidates shall have to produce all the original documents/certificates supporting their age, address, and educational and experience qualifications at the time of appearing for the interview for verification, failing which he/she will not be allowed to appear for the interview.
- The Institute reserves all the right to candidate selection and rejection to fill posts advertised.
- No TA/DA shall be paid to the candidates attending the interview. Request for providing accommodation for attending the interview will not be entertained.
- Candidates shortlisted for interviews will be informed through email as provided by the applicant in the application form.
- Age relaxation will be given to the eligible candidates as per guidelines of funding agency