



# Open Source Project Publication Programme (OSPPP 2010-2011)

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## Advertisement No. OSPPP/1/2011

BioAxis DNA Research Centre (BDRC) invites applications for the "Open Source Project Publication Programme" (OSPPP) at its in-house Research division at Hyderabad and Lucknow. The programme is aimed to encourage and strengthen the technical quality of the students, young scientists and Life science professionals. All the long term live projects listed in this programme will be published in reputed peer reviewed Journals in the name of group members and their supervisors. The selection is completely based on the evaluation of synopsis received by the applicants, their research interest and the academic qualification. This is a compact research programme and the selected candidates will not be allowed to take any break within the stipulated duration of the project.

The list of prior publications can be browsed at  
<http://dnare.in/biotechnology-publications-in-india.php>

### Maximum intake 75

**Eligibility** Bachelors/ Masters Degree (Pursuing or completed) in Biotechnology, Microbiology, Bioinformatics, Molecular Biology, Forensic Science, Immunology, Genetic engineering, Biochemistry, Chemistry, Zoology, Botany, and related life sciences.

The applicants should have keen interest in Research and learning the skills of publication standard.

### Application process

Prepare a Research synopsis of the topic of your interest from the list below (Page 3, 4) not exceeding 1000 words and submit it online. Send the print copy of the acknowledgement email received upon submission of the online form along with the copies of credentials from class Xth to latest qualification. Enclose an application fee of INR 500 OR USD 50 (International Applicants)\* in the form of a DD in favor of "BioAxis DNA Research Centre Private Ltd" payable at *Hyderabad* along with 2 recent photographs. A letter of recommendation is must for candidates, it can be written by an HOD, Researcher or a Scientist working in the area of Life Sciences.

### Important dates

Registration Deadline: 25 March 2011  
Results : 30 March 2011  
Project Commencement dates: May 2011, June 2011

### List of postal enclosures to be sent on above address

Letter of Recommendation, 2 Photographs, Xerox of credentials, DD, Print of acknowledgement email received by you after submission of online application form (It may take 2 working days to receive an acknowledgement email).

### Online Application cum synopsis submission link

<https://spreadsheets.google.com/viewform?formkey=dGN5MmowbDIyTzA4Slh4NjFwcnNJUFE6MQ&theme=0AX42CRMsmRFbUy1iODQwMzFIYi1iZjJhLTRmNmUtODQ0My1iNjJmYTUzNjQ2ZWE&fqhttps://spreadsheets.google.com/viewform?formkey=dGN5MmowbDIyTzA4Slh4NjFwcnNJUFE6MQ&theme=0AX42CRMsmRFbUy1iODQwMzFIYi1iZjJhLTRmNmUtODQ0My1iNjJmYTUzNjQ2ZWE&fq>

Selection is completely based on the basis of review committee evaluation report and a personal telephonic interview if required. Selected candidates name will appear on BDRC website <http://www.dnares.in> and they will be intimated by email, no separate postal communication will be issued to the candidates.

### Terms and Conditions

- Applicants should have zeal of Research in Biotechnology, Bioinformatics and related areas. Groups will be made on the basis of the evaluation report of screening committee
- One applicant can apply for a maximum of two projects.
- The listed projects will solely be executed at BDRC and are not free of cost. A supervisor will be allotted to each group.
- The publication fee of journals (If Applicable) for a project will not be funded by BDRC and it will be shared by the group members.
- The applicants of 5 top ranked project synopsis will be given an opportunity to undertake the project free of cost.
- BDRC has the right to cancel the registration of a participant if his/her performance is found unsatisfactory or noticed to be indulged in any malpractice
- No leaves will be granted to anyone unless an unavoidable circumstance occurs. Manager BDRC has the right to approve or reject such leaves.
- No TA/DA will be given from BDRC to any candidate. For any assistance on accommodation please write an email to [drc@dnares.in](mailto:drc@dnares.in)
- If a candidate is not selected for Open Source Project Publication Programme (OSPPP), he/she will be given the opportunity to join any other regular programme available at BDRC subject to the vacant seats. The details of such programmes can be browsed at <http://www.dnares.in/biotechnology-bioinformatics-industrial-training-programme-india.php>
- Project and Training Head, BDRC has all the rights to accept OR reject the application without giving any reason to anyone.

### Project fee to be deposited by the candidates, if selected (Per participant)

One Month	INR 5,500/USD200*
Two Months	INR 8,000/USD250*
Three Months	INR 11,000/USD300*
Four Months	INR 14,500/USD400*
Six Months	INR 18,500/USD500*

**\* Exclusively for International Applicants. Please enquire for Wire Transfer details**

# OSPPP PROJECT LIST

## Dry Laboratory/Bioinformatics

B1. Integrative transcriptomics and proteomics of Diabetes

Duration 3 months/6 months, Group size 6

B2. Enabling Integrative Genomic Analysis of High-Impact Human Diseases

Duration 6 months, Group size - 5

B3. The era of Translational Bioinformatics in personalized medicine; study of modeling of structures and managing large data sets

Duration 2 months, Group size - 3

B4. Colorectal Cancer Polymorphism in DNA Repair Genes and Rational drug design

Duration 3 months, Group size - 4

B5. Comparative genomics and mutation analysis in Prostate Cancer genes

Duration 3 months, Group size - 3

B6. Application of Immunoinformatics to study the Proteomics of HIV strains

Duration 6 month, Group size - 5

B7. SERPINS, MMPs and cancer; a perspective towards cancer understanding therapy and drug design

Duration 3 month, Group size - 5

B8. Studying tumor cell growth and tumor proliferation by fruit genetics

Duration 1 month, Group size - 2

B9. Vaccine screening and designing for Rheumatic Heart Disease

Duration 6 month, Group size - 3

B10. Biomarker Database development of Mutated DNA Repair genes

Duration 6 month, Group size- open\*\*

B11. Comparative genomics of Introns on different chromosomes. Are Introns really functionless?

Duration 6 month, Group size- open\*\*

B12. Cancer genetics; Impact of tobacco and alcohols

Duration 6 month, Group size- open\*\*

B13. Role of Medical informatics in healthcare industries; a conventional and practical approach towards advance healthcare

Duration 6 month, Group size- open\*\*

B14. Genetics of infertility and pregnancy loss. Drug targeting and drug designing for DAZ, CYP1A1 proliferation

Duration 3 month, Group size- open\*\*

B15. Comparative Analysis of proteins responsible for STDs in Human and creating a data base of their computational domains

Duration 3 month, Group size- open\*\*

B16 Creating a data base for human Heat shock proteins and their role in various physiochemical processes

Duration 3 month, Group size- open\*\*

B17 Studying a specific protein sequence from different species and creating a consensus sequence in order to know the structure and function of the ancestor or origin

Duration 3 month, Group size- open\*\*

B18 Creating a data base for chemical compounds depending upon their pharmacological properties

Duration 3 month, Group size- open\*\*

### Forensic Biology/Forensic Bioinformatics

FB1. Analysis and interpretation of results of Mixed DNA Samples from the crime scene

Duration 1 month, Group size 2

FB2. Crime sample collection, processing, transportation and Applied Bioforensics

Duration 2 month, Group size- open\*\*

Clinical Research

CR 1 Clinical Data Management of the kidney transplant patients (Includes SAS)

Duration 2 month, Group size- open\*\*

## Wet Laboratory

Duration 4-6 Months, Group size-Open\*\*

W1. Screening of Acute Myeloid Leukemia patients blood samples for the detection SNPs in FLT3 (Fetal Liver Kinase 3) and an in silico drug targeting using active compounds from Beta vulgaris

W2. Identification and screening of lignin-degrading fungi isolated from different environmental sources using standard techniques.

W3. Optimization of different parameters in Laccase production from various fungal species

W4. Designing of novel primers for amplification and sequencing of Charantin protein from Momordica charantia.

W5. Molecular approach for sequencing of Germacrene D Synthase, a fragrance inducing gene from wild and hybrid varieties of Rose.

W6. Effect of storage conditions on Tannin yield and its potential antimicrobial activity

W7. FAME analysis, Profiling of LPS and OMP of multi-drug resistant *Ps. fluorescens* isolated from cystic fibrosis patients

W8. Effect of active components from Ajwain against Pus-forming bacteria and drug-docking studies.

W9. Molecular characterization and Phylogenetic studies of bacterial population of sawdust soil

W10. An investigation on the molecular content of organic and inorganic variety of cereals/grains

W11. A comparative study on the effect of environmental factors on the molecular content of Indian common crops

**\*\*Number of participants will be decided later**