

## **Call for concept note/pre-proposal on monogenic disorders**

Monogenic disorders are an important cause of neonatal mortality both in developed and developing countries. Millions suffer from inherited genetic diseases and the one-sixth of the world's population living in India has never been systematically studied. It is not only a leading cause of fetal loss, but also contributes significantly to preterm birth, childhood and adult morbidity along with considerable repercussion on the mothers and their families. Worldwide surveys have shown the birth prevalence of monogenic disorders varies due to social, racial, economical and ecological influences. In order to control the onset of various monogenic disorders (metabolic disorders, endocrine disorders, hemoglobin disorders and others), it is pertinent to understand the epidemiology and molecular basis of these disorders.

With this aim, Department of Biotechnology invites Investigators working in these areas to submit a concept note in collaboration with clinicians for the molecular analysis of the most prevalent monogenic disorder from different zones of the country viz. 1. North-Eastern zone, 2. Eastern Zone, 3. Central zone, 4. Northern zone, 5. North-Western zone, 6. Western zone, 7. South-Western zone, 8. Southern zone, 9. South-Eastern zone and 10. Andaman-Nicobar.

Funding priority will be placed on those projects that will lead to a better understanding of molecular mechanism of the most important inherited single-gene disorder prevalent in the particular zone with the listing of overall prevalence of other monogenic disorders in the concerned zone. Individual project should represent all the regions of the concerned zone.

### **Who can apply?**

- ) Scientists working in Universities/Academic Institutions/National Laboratories/Industries [Department of Scientific & Industrial Research (DSIR)-Recognized R&D Centre] & Non-Profit Organizations with necessary facilities and strong scientific background in the proposed area.
- ) Collaborative projects with clinicians would only be considered for funding.

### **Mode of Selection:**

- ) Concept notes will be screened based on clarity of hypothesis, relevance and ability to implement the approaches, background of the investigator and feasibility of doing rigorous research in his/her present setting. While experience in the area will be valued but will not be limiting for the right proposal.
- ) For this program, Concept notes will only help in identifying investigators (both clinicians and scientists) who have relevant expertise in molecular analysis of monogenic disorders. A networking meeting of all the selected participants would then be facilitated

by DBT to develop multi-approach, multi-disciplinary programme towards an identified goal with both short term and long term objectives clearly defining the scientific approaches.

**How to Apply:**

Interested investigators/scientists/clinical researchers working in recognized R & D Institutions can submit the Concept note/Pre-Proposals to Dr. Vinita N. Chaudhary, Principal Scientific Officer, Department of Biotechnology, New Delhi through email: [vinita.chaudhary@nic.in](mailto:vinita.chaudhary@nic.in) . Title of the Call for Concept note/Pre-proposals should be written in the subject line of the email. This advertisement is also available in Hindi.

**Last date of submission: 30<sup>th</sup> April, 2017**

**Proforma for submission of Concept note/Pre-Proposal on Monogenic Disorders**

(Maximum five single space printed A4 pages)

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1. Title of the Concept Proposal:

2. Coordinator/Principal Investigators/Co-investigators:

Name:

Address:

Telephone:

Email:

3. Background of work

- i. Scientific Hypothesis and key questions to be addressed and Primary Objectives (100 words):
- ii. How will you test the hypothesis or approach towards molecular analysis of the concerned genetic disorder? (500 Words)?
- iii. What is the novelty in your approach?
- iv. Why is the research a high Priority?
- v. Feasibility of doing the study in your present institution/workplace.
- vi. Best 3 publications in the last 3 years in relevant areas
- vii. Brief CV of the investigators