



**Department of Biotechnology
Ministry of Science and Technology
Government of India**

Call for Concepts in the Areas on Nanobiotechnology Research

Aiming to promote research and intensify Nanobiotechnology activities in cutting edge research areas, DBT invites the concept notes for their evaluation and converting them into potential research project proposals to address various issues in the areas of health, agriculture, food and environment through basic and applied Nanobiotechnological research interventions. The priority areas include but not limited to:

- Design of new therapeutics and targeted drug delivery vehicles.
- Novel formulations for existing drugs to enhance their efficacy.
- Nano carrier systems for siRNAs therapy.
- Diagnostics for early diseases detection and imaging.
- Design and development of smart nanomaterial for bio separation, tissue engineering and other medical applications.
- Sensors for detection of chemicals and pathogens in food and crops, Nano carriers system for pesticides and fertilizers, improving the nutritional qualities of food and smart packaging system, etc.

The proposals of the following three categories would be considered and may be marked accordingly:

- (i) **Use Inspired Discovery and Early Translational Science:** The research objectives of the proposal should have clearly defined roadmap for scientific outcomes and for future application strategies.
- (ii) **Translational Research:** Under this category the proposals should already have demonstrated proof of concept, requiring further application oriented translational studies and/or support for product development and commercialization.
- (iii) **Developing Critical Tools for Translational Research:** The proposals should aim at developing innovative tools and process for preclinical research in the priority areas.

The concept note should run, not more than three pages* and must highlight (a) novelty in the background of existing knowledge and elements of innovations, (b) objectives with clearly defined intent and rationale, (c) outcomes and deliverables and (d) bio-data on one separate page* to show the expertise and experiences in the relevant area/s. An additional paragraph to mention the demonstrated proof of concept is required for the proposals under category (ii).

Academia, companies (in collaboration with academics) partnering with clinicians are encouraged to submit the ideas to **Dr D. K. Tiwary**, Principal Scientific Officer, Department of Biotechnology, Block-2, CGO Complex, Lodhi Road, New Delhi 110 004. Only soft copy (preferably in pdf format) should be sent at dhananjaytiwarydbt@gmail.com by **15 May 2012**.

*The note will be ignored if it runs in more than four pages including the bio-data.