



SCIENCE & ENGINEERING RESEARCH BOARD (SERB)

(A Statutory body under Department of Science & Technology, Government of India)

Invitation of proposals under *Special Initiatives in Organic Chemistry*

Research proposals are invited from active Indian researchers working in academic institutions, national laboratories and industry to undertake collaborative, internationally competitive research in the following emerging areas of Organic Chemistry and its interface with materials and biology. This call is limited to the following selected areas:

- A. C-H activation:** Enantioselective organocatalytic functionalization of inert C-H bonds- Methodologies and their applications for the synthesis of bioactive compounds as well as molecules of medicinal and social relevance.

- B. New Generation Organic Materials:** Stimuli responsive new organic polymer materials for chemical and biochemical sensors; high-performance organic and polymer nanocomposites with novel electronic, optoelectronic and energy harvesting properties for solar cell fabrication; organic porous materials towards fuel cell and catalytic applications; and sustainable soft materials for biochemical applications.

- C. Chemical Biology:** Chemical probes for understanding biochemical mechanisms, development of new assays for biological screening and approaches for molecular therapy and diagnostics; self-assembling systems with biological function; and bioconjugates for applications in drug/gene delivery, tissue engineering, etc.

Interested researchers are requested to submit proposals in one or more of the above areas. Collaboration across PIs of different expertise and/or institutions will be preferred under the program and the proposals should have at least one collaborator with complementary expertise. Researchers from industry are encouraged to collaborate with academic institutions and national laboratories. However, funding will be given only to academic institutions and national laboratories.

Fifteen copies of the proposal in standard EMR format (which can be downloaded from our website: www.serb.gov.in) may be sent to the following address:

Sh. Jacob V.V.
Scientist
SERB,
5 & 5A, Lower Ground Floor,
Vasant Square Mall,
Plot No. A, Community Centre,
Sector-5, Pocket-5, Vasant Kunj,
New Delhi-110070.
Email: jacob@nic.in

The envelope may be superscribed "Proposal in the ***Special Initiatives in Organic Chemistry*** (*C-H activation or Organic Materials or Chemical Biology as the case may be*)."

Electronic version of the proposal may also be sent in advance.
The last date for the receipt of the proposal is **January 31, 2014**.