

Task force on Stem Cell Research

Call for Concept proposals under Stem Cell Research (Last date 29th February 2012)

Stem Cell research holds great promise for improving human health by control of degenerative disease and restoration of damage to organs by various injuries; but at the same time it also raises several safety, ethical and social issues.

To initiate some basic as well as translational studies in the field, ICMR invites Concept proposals in condensed format (limited to 3-5 pages) as per the format attached are invited from scientist/clinicians working at various recognized (DSIR Certified) institutions, Universities and Medical Colleges in India in the following:

Basic Research

- Stem cell biology of Human embryonic Stem Cells (hESC) and Induced Pluripotent Stem Cells (iPSC) – induction and maintenance of stemness, mechanism and regulation of development and differentiation during growth and development etc.

Translational Research

- Developing well characterised GMP grade hESC and iPSC lines
- Establishing well characterised lineage specific cell lines in Xenogenic free media and human use grade reagents
- Preclinical studies on safety and efficacy of stem cells/products derived from different sources in appropriate models
- Preclinical toxicological evaluation of stem cells derived from different sources
- Identification of new markers for stem cells / cell lines/progenitor cells/lineage specific cells from different sources.
- Development of tests for immunogenicity and tumorigenicity.
- Development of techniques for traceability of the transplanted stem cells/progenitor cells – markers and imaging etc.
- Application of stem cells for drug development.
- Use of stem cells for gene therapy

Clinical Research

- Phase I/II trials on human participants for well justified indications and duly wetted and approved clinical protocols

Tissue Engineering

- Use of Nanotechnology in tissue engineering

Those interested are requested to forward 15 hard copies and a soft copy to the Programme Officer for Stem cell Research & Therapy on following address before 29th February 2012:

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Format for submission 'Concept Proposal'
under the
Task force on Stem Cell Research and Therapy

(The 'Concept Proposal' to be restricted to 5 pages including following details)

Title of the Project

Name(s) of the Investigator(s)

Introduction/Background

Aims & Objectives

Plan of Work (Methodology)

Preliminary Work Done (if any)

Possible Outcome

Bibliography

Brief CV (restricted to 1 page) with relevant experience/publication in the field of Stem Cell Research and Therapy.