

**Dr. B.R. Ambedkar Center for Biomedical Research**  
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**Award of Special Assistance Program (SAP)-II (DRS-II) to the Center**

In continuation of the SAP-I leads (2007-2012), the center was awarded the SAP-II (DRS-II) level support for a period of five years (2015-2020). **The total budget sanctioned for the SAP-II program is 150 lakhs.**

In keeping with the vision and mission of the center the focus of SAP-II program is on understanding **Disease Biology: Molecular Basis, Pathogenesis and Therapeutic Strategies**. In showing a coordinated approach to dealing with research in biomedical areas, all the PIs submitted a project under the SAP-II program. The projects include; Understanding the molecular basis of Esculetin induced apoptosis in human leukemia Kasumi-1 cells expressing AML/ETO chimeric gene. PI: (*Prof. Daman Saluja*); Transcriptional memory during development: Functional diversity of regulatory elements of cellular memory module in the human genome (PI: *Prof. Vani Brahmachari*); Deciphering innate immune responses to *Staphylococcus aureus* infection. (PI: *Prof. K. Natarajan*); Synthesis of novel DNA sequence specific dimethylaminocarbazole tethered to N- methyl triazine moiety in the therapy of glioblastoma multiforme, an acute form of brain tumor (PI: *Dr. Pratibha Luthra*); Elucidating mechanism of Nitric Oxide mediated apoptosis in T lymphocytes. (PI: *Dr. Anju Katyal*); Design and development of chromatin modifiers - HDAC inhibitors as anticancer agents and understanding molecular basis of drug action to improve upon efficacy of existing lead compounds (PI: *Dr. Madhu Chopra*); An evaluation of the antiproliferative activity of diallyldisulfide analogs-an in vitro and in silico study (PI: *Dr. Manisha Tiwari*); To study the survival pathway dependent srsf1 regulation in breast cancer (PI: *Dr. Ajay Yadav*); *Trichomonas vaginalis* lipophosphoglycan may be involved in the pathogenesis of trichomoniasis (PI: *Dr. Manisha Yadav*); Functional rescue of Acute myeloid leukemia-1 (AML1) mutants by using chemical chaperones (PI: *Dr. Laishram R. Singh*).

The program has completed to years and a number of leads have been obtained in all the aims and objectives. A few papers have also been published in some of the projects. In addition funds from the SAP-II program were utilized in the recent symposium (***Frontiers in Biomedical Research, Challenges in human health: Prevention, Diagnosis and Cure***) organized by ACBR. Eminent scientists across the country participated in the symposia. A number of Ph.D. and M.Sc. students from ACBR (and other universities) showcased their work in the form of posters and oral presentations, that were carried out from funds from the Sap-II program.