

# Institutional Research Cell

## OBJECTIVES

1. To enhance the congenial environment for best biomedical research
2. To streamline and review various aspects of research activities at the Institute.
3. To promote mission-oriented and theme-based inter-departmental, inter-institutional and inter-country research collaborations.
4. To build up mechanisms for a periodic assessment of research projects/schemes
5. To coordinate Intramural research grants for the faculties.
6. To contribute to the advancement of research within our institution through its effective initiatives and strategic support.
7. To stimulate Increased Research Paper Publications
8. To enhance the Growth in STS Projects
9. To Enhance Research Quality through consistent reviews and strategic advice,
10. To Play a crucial role in increasing the number of funded research projects.

## INTRODUCTION

The Institutional Research Cell (IRC) at AIIMS Bathinda was established to advance research practices, manage research projects efficiently, and foster an environment conducive to high-quality research. This report outlines the achievements and activities of the IRC to date, focusing on the implementation of good practices.

### 2. Formation and Initial Steps

The Institutional Research Cell at AIIMS Bathinda was established on July 25, 2020, by the Honorable Director. The first meeting, chaired by Professor Dr. Lajya Devi Goyal, took place on August 9, 2020, where basic guidelines for the Cell's operations were set.

#### Research Advisory Committee Formation:

- **Date:** 25th July 2020
- **Initiated by:** Honorable Director, AIIMS Bathinda

#### First Meeting:

- **Date:** 9th August 2020
- **Chairperson:** Professor Dr. Lajya Devi Goyal

### COMPOSITION OF RESEARCH CELL COMMITTEE

S.No.	Name	Designation	Department	Role
(1)	Dr.Lajya Devi Goyal	Professor	Obstt.& Gynaecology	Chairperson
(2)	Dr. Ajay Kumar	Additional Professor	Forensic medicine	Alternate Chairperson
(3)	Dr. Bholu Nath	Additional Professor	Community Medicine	Member
(4)	Dr. Vaibhav Saini	Associate Professor	ENT	Member Secretary
(5)	Dr. Tarun Goyal	Associate Professor	Orthopedics	Member
(6)	Dr. Sanjay Rajput	Associate Professor	Biochemistry	Member
(7)	Dr. Preeti Dhoat	Associate Professor	Medicine	Member
(8)	Dr. Sapna Marcus Bhatta	Associate Professor	Radiotherapy	Member

On June 15, 2022, the Institutional Research Committee was reconstituted as the Research Advisory Committee (RAC) to enhance its role in supporting research activities.

On June 8<sup>th</sup> 2023, The duties of Dean Research and Associate Dean Research were Assigned to Prof. Dr Lajya Devi Goyal and Dr Anuradha Raj respectively vide letter no AIIMS/BTI/EST/OO/585 dated 8<sup>th</sup> June 2023 which led to the composition of the following RAC.

### COMPOSITION OF RESEARCH ADVISORY COMMITTEE

S.No.	Name	Designation	Role
1	Prof. (Dr) Lajya Devi Goyal	Professor cum HOD Obs& Gynae	<b>Dean Research</b> Chairperson
2	Prof. Dr Anuradha Raj	Professor cum HOD Ophthalmology	<b>Associate Dean</b> Member Secretary
3	Dr. M. Altaf Mir	Associate Professor	Alt. Member Secretary
4	Dr. Soumya Swaroop Sahoo	Associate Professor	Alt. Member Secretary
5	Dr. Mintu Pal	Associate Professor	Member
6	Dr Vaibhav Saini	Additional Professor	Member
7	Dr. Rakesh Kakkar	Professor cum HOD CFM	Member
8	Dr. Gurvinder Pal	Professor cum HOD Psychiatry	Member
9	Dr. Ajay Kumar	Additional Professor	Member
10	Dr. Mayank Gupta	Associate Professor	Member
11	Dr. Mahendra Pratap Singh	Additional Professor	Member
12	Dr. Gitanjali	Professor cum HOD Biochemistry	Member
13	Dr. Paramdeep Singh.	Additional Professor	Member
14	Prof (Dr.) Kamlesh K Sharma	Professor cum Principal Institute of Nursing Education and Research (INER)	Member
15	Dr. Sivanantham Krishnamoorthi	Associate Professor	Member

## 2. Financial Overview

- **Total Grant Received: ₹12,17,47,706/-**

The total grant approved for funded research projects by funding agencies is as follows: For the year 2022-2023, the grant amounted to ₹85,20,33,31; for 2023-2024, it was ₹21,95,01,19; and for 2024-2025 (till date), it is ₹14,59,42,56. The overall total grant received to date is ₹1,21,74,76,06.

Year	Grant Approved
2022-2023	₹8,52,03,331/-
2023-2024	₹2,19,50,119/-
2024-2025(till date)	₹1,45,94,256/-
<b>Total Grant</b>	<b>₹12,17,47,706/-</b>

This substantial grant has enabled the RAC to support a wide range of research activities and projects, ensuring the effective utilization of resources for advancing scientific research and academic excellence.

## 3. Meetings and Project Management

- **Number of Meetings Held: 80**
- **Number of Projects Discussed: 453**
- **Total Approved Projects: 370**

The IRC has actively engaged in discussions to evaluate and approve research projects. A total of 453 projects have been discussed in 80 meetings, with 370 projects approved. This reflects a rigorous process of scrutiny and decision-making aimed at maintaining high research standards.

## 4. Types of Projects

- **Total STS (ICMR) Projects: 24**
- **Total Multicentric Projects: 23**
- **Total Funded Projects: 42**
- **Non Funded Projects: 297**
- **PG Thesis Projects: 145**

**4.1 STS (ICMR) Projects:** These are Short-Term Studentship projects funded by the Indian Council of Medical Research (ICMR). They provide opportunities for students to engage in research activities, contributing to their academic and professional development.

**4.2 Multicentric Projects:** The RAC has been involved in 23 multicentric projects, which are collaborative efforts involving multiple institutions. These projects often address complex research questions and require coordinated efforts across various research centers.

**4.3 Funded Projects:** Out of the approved projects, 42 have received funding. This funding supports the research activities, including data collection, analysis, and dissemination of findings.

**4.4 Intra Mural Non-funded Projects:** The majority of the projects (297) are intra mural, meaning they are conducted within AIIMS Bathinda. These projects contribute to internal research development and institutional knowledge.

**4.5 PG Thesis Projects:** The RAC has supported 145 postgraduate thesis projects, reflecting its role in advancing higher education and supporting students in their academic research.

## 5. Funding Agencies

The RAC has secured funding from various prestigious organizations, contributing to the successful implementation of 42 extramural projects. The key funding agencies include:

- **DST, Government of India:** Provides financial support for science and technology research.
- **Science and Engineering Research Board (SERB):** Funds research initiatives in science and engineering fields.
- **State Blood Cell, NHM Punjab, Under Ministry of Health and Family Welfare:** Supports research related to blood services and health management.
- **HSCSIT (Haryana State Council for Science and Technology):** Funds research in science and technology.
- **PSDM Punjab (Punjab Skill Development Mission):** Provides funding for skill development and research initiatives.
- **Punjab State Council of Science and Technology (PSCST):** Supports science and technology research in Punjab.
- **Indian Council of Medical Research (ICMR):** Funds medical and clinical research projects.
- **George Institute of Global Health, Australia:** Provides support for global health research.
- **NASSCOM Foundation and Aindra System Pvt. Ltd:** Funds research in information technology and healthcare.
- **Janitary NASSCOM Foundation:** Supports research initiatives focused on sanitation and health.
- **Johns Hopkins University:** Collaborates on research projects and provides funding.
- **DHR-ICMR (Department of Health Research - Indian Council of Medical Research):** Supports medical research projects.
- **Punjab State AIDS Control Society (PSACS):** Funds research related to AIDS and HIV.
- **Central RSSDI (Research Society for the Study of Diabetes in India):** Provides support for diabetes research.

- **NCDC (National Centre for Disease Control):** Funds research on disease control and prevention.
- **Imperial College of London:** Collaborates on research projects and provides funding.
- **Indian National Science Academy (INSA):** Supports scientific research and academic excellence.
- **DBT (Department of Biotechnology):** Funds biotechnology research and development projects.
- **AHA (American Heart Association):** Provides support for cardiovascular research.
- **NPCB (National Programme for Control of Blindness):** Funds research related to eye health and blindness prevention.
- **ICSSR (Indian Council of Social Science Research):** Supports social science research projects.

## 6. Workshops Organized

### 6.1 Workshop on “Scientific Paper Writing”

- **Date Conducted:** October 22, 2021
- **Objective:** To enhance participants' skills in drafting and presenting scientific research papers

### 6.2 Thesis Writing Workshop

- **Date:** January 2022
- **Description:** An intensive workshop designed to enhance thesis writing skills, focusing on structure, argument development, and effective research.

### 6.3 Workshop on Writing a Proposal for Research Grant

- **Date:** April 22-23, 2023
- **Description:** A two-day event aimed at teaching participants how to craft compelling research grant proposals, including proposal writing, budget preparation, and submission strategies.

### 6.4 Workshop on Research Methodology and Basic Foundation Skills

- **Date:** 30th January 2023
- **Description:** Provided foundational skills and methodological training essential for conducting effective research.

### 6.5 Research Methodology Workshop for Postgraduate Students

- **Dates:** 6th September 2023
- **Description:** Offered advanced training in research methodologies tailored for postgraduate students to enhance their research skills.

### 6.6 Workshop on Writing a Research Paper

- **Date:** 16th March 2024

- **Description:** Guided participants through the process of writing and structuring research papers for successful publication.

### 6.7 Research Methodology Workshop on Thesis Writing

- **Dates:** 17th-22nd March 2024
- **Description:** Provided comprehensive training on thesis writing, covering both methodological and structural aspects.

### 6.8 Impact and Outcomes

The workshops organized by the RAC have significantly contributed to the development of research skills among participants. They have provided valuable training in various aspects of research, from foundational skills to advanced methodologies and writing techniques. The positive feedback from attendees reflects the effectiveness of these workshops in enhancing their research capabilities and academic performance.

1. **Enhanced Research Skills:** Participants have gained a deeper understanding of research methodologies, proposal writing, and paper publication, contributing to the overall quality of research conducted.
2. **Improved Grant Proposals:** Training in grant proposal writing has enabled researchers to prepare more compelling proposals, increasing their chances of securing research funding.
3. **Strengthened Academic Writing:** The workshops on research paper and thesis writing have improved participants' ability to produce well-structured and high-quality academic papers.

### 7.1 Research Publications

The number of research paper publications is steadily increasing across all departments at AIIMS Bathinda. To date, a total of 887 research publications have been published, highlighting a significant growth in research output.

### 7.2 Recognition and Awards

#### Best Research Paper Award:

- **Article Title:** "HypoxamiR-210-3p Regulates Mesenchymal Stem Cells Proliferation via P53 & AKT"
- **Author:** Dr. Sanjay Kumar
- **Description:** This award-winning research paper reflects the high caliber of research supported by the RAC and its impact on the scientific community.

## **8. Monitoring By Research Advisory Committee**

### **Regular monthly meetings to expedite the clearance of research projects:**

The research cell conducts regular monthly meetings for approval of research projects. Also, separate meetings are held as required for clearance of PG thesis protocols and Undergraduate STS projects.

### **Formulating policy for research:**

AIIMS Bathinda research cell has formulated comprehensive focused research policies at the institutional level in line with ICMR guidelines. These policies adhere to operational guidelines, checklists and protocols for carrying out intensive research on thrust areas identified by the experts. The policies are evidence-based and practised and implemented in a time-bound manner. The details of the policies and requisite forms have been uploaded on the institute website.

### **Facilitating Research Collaboration and Dissemination:**

The research cell promotes interdepartmental collaboration between the departments of the institute. It also encourages collaboration with other academic institutions fostering multidisciplinary research. AIIMS Bathinda faculties are currently pursuing projects in collaboration with other AIIMS like institutions, PGI Chandigarh, and Central University Punjab.

Research cell AIIMS Bathinda promotes research catering to the local needs, focusing on health problems of this region.

### **Promoting Undergraduate Research:**

To promote research skills among the young undergraduate students AIIMS Bathinda research cell encourages and promotes research projects from undergraduates mentored by faculty. Over the years, there has been a constant increase in the number of projects submitted and completed by the undergraduate students guided by faculty.

### **Maintenance of Records:**

The Research cell keeps an updated record of the ongoing status of projects, research grants received and publications in indexed journals.