

Department of Biochemical Engineering and Biotechnology
Departmental Research Committee Minutes
(DRC-13/2021-2022)

3 August, 2022

The thirteenth meeting of the *Departmental Research Committee* for the academic session 2021-2022 was held on Tuesday, August 02, 2022 at 4:00 pm in the Committee room of the Department.

The following members were present:

Prof. Ritu Kulshreshtha (Chairperson)
Prof. D. Sundar
Prof. Atul Narang
Prof. KJ Mukherjee
Prof. Shilpi Sharma
Prof. Preeti Srivastava
Prof. Ishaan Gupta

1. Confirmation of the minutes of 12th meeting of the DRC for the session 2021-2022 held on June 23, 2022.

The minutes were confirmed as circulated.

2. To report the matters arising from the minutes of Meeting No. 12/2021-2022.

None

3. Progress report submitted by PhD students for Semester 2, 2021-2022 and award of grades for the course DTD899.

Based on the recommendations of the respective SRC committee and the supervisors of the students, the DRC approved the grades of the students and forwarded to the Dean Academics.

4. Progress Report submitted by MSR students for Semester 2, 2021-2022 and award of grade for the course BBD895 (MSR Major Project).

Based on the recommendations of the respective SRC committee and the supervisors of the students, the DRC approved the grades of the students and forwarded to the Dean Academics.

The DRC discussed an application received by MSR student, Mr. Sharad J. S. (2019BEY7512) providing reasons for his long leave of absence from the MSR program. However, DRC noted that none of the proofs for his absence were attached. It was also noted that Mr. Sharad had already registered for 6 semesters and the total period for the MS (Research) for the full time students cannot exceed 6 semesters. The DRC thus decided to forward his application to Dean (Academics) for further necessary action.

5. Change in SRC composition for Swati Varshney (2016BEZ8325), PhD student of Prof. Shilpi Sharma.

Deferred for next meeting.

Change in SRC composition for Pallavi Chakraborty (BEZ208520)

The committee approved the request received from Prof. Atul Narang for change in the Chairperson and External expert in the SRC for his PhD student, Pallavi Chakraborty (BEZ208520), due to non-availability of Chairperson (Prof. Ashish Misra) or the external expert (Prof. James Gomes, KSBS). The DRC approved the change in Chairperson and external expert to Prof. K J Mukherjee (DBEB) and Prof. Shaunak Sen (EE), respectively and approved the revised composition of SRC as given below:

Name and entry no of student	Supervisor	Chairperson	Internal Expert	External Expert
Pallavi Chakraborty (BEZ208520)	Prof. Atul Narang	Prof. KJ Mukherjee	Prof. Preeti Srivastava	Prof. Shaunak Sen (Dept. of Electrical Engg.)

6. Approval of Plan of Work of PhD students

Plan of work of Ms. Palistha Tuladhar (2020BEZ8568) for her thesis entitled “Experimental and computational techniques for metabolic analyses and engineering of *Bacillus subtilis*” was approved based on the recommendation by her SRC.

Plan of work of Ms. Anuj Kumari (2020BEZ8633) for her thesis entitled “Investigating the regulatory networks of key genes and non-coding RNAs in glioblastoma” was approved based on the recommendation by her SRC.

Plan of Work of Ms. Preetha Ganguly (2020BEZ8521) for her thesis entitled “Carbon nanodots for anticancer drug delivery and biosensing” was approved based on the recommendation by her SRC.

Plan of Work of Mr. Shubham Sharma (2020BEZ7520) for his thesis entitled “Engineered antibacterial nanomaterial based hydrogen scaffold for chronic wound healing” was approved based on the recommendation by his SRC.

7. Approval of Synopsis of PhD and MSR students

a) The Committee discussed and approved the synopsis of the MSR thesis entitled “Dissecting Lung pathophysiologies with RNA-seq analyses using multifunctional utility” submitted by the student Anshul Budhraj (2020BEY7515). The Committee also approved the panel of Examiners and authorized the Chairperson to forward the same to Dean (Academics).

b) The Committee discussed and approved the synopsis of the MSR thesis entitled “Carbon Catabolite repression in *Saccharomyces cerevisiae*” submitted by the student

M.Apurva (2019BEY7510). The Committee also approved the panel of Examiners and authorized the Chairperson to forward the same to Dean (Academics).

c) The Committee discussed and approved the synopsis of the PhD thesis titled 'Mechanistic Insights into RNA-guided Genome Editing Nucleases' submitted by student Ms. Dhvani Sandip Vora (2017BEZ8293). The Committee also approved the panel of Examiners and authorized the Chairperson to forward the same to Dean (Academics).

8. Request received from following students:

- a) Extension of fellowship of Mr. Indranil Mondal, (BEZ178286)
The committee approved and forwarded the request to Dean (Academics).
- b) Waiving semester fees by Anirban Jana (2016BEZ8004)
The committee approved and forwarded the request to Dean (Academics).

9. Recommendation for the BOSS Award

The Board considered the recommendations of the Departmental Selection Committee. In the light of the original contributions to the design and implementation of the project objectives, the board approved the recommendations for BOSS award (2021-2022) to be forwarded to Dean (Academics).

10. Recommendation for the PMRF Award

The DRC scrutinized the four applications received for "lateral entry" mode of nomination for PMRF. The students presented their proposals in front of DRC members on 2th August, 2022. Based on the presentation of project proposal, CGPA at IITD, and qualification of National level examination and awards, the DRC finalized the nomination of three students for the PMRF award. (*Action: DRC Chairperson to forward the recommended names to Associate Dean Academics (PG Research) and JR Academics*).

11. The committee approved the medical leave request put forth by Ms Shivani Khatri (2017BEZ8287) from 1st August, 2022 to 20 August, 2022.

12. PhD comprehensive Exam Format

It was decided that the comprehensive exam format for the PhD students will be discussed in the upcoming DFB meeting. The courses for the PhD students will be decided in a special DFB to be held on 3 August, 2022.

13. Matters for ratifications

- (a) Project proposals submitted by faculty members

S. No	Project Name	Investigator	Funding Agency
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1	Enhanced production of pharmaceutically relevant secondary metabolites from marine cyanobacterial species following biorefinery approach	Dr. Deeksha Singh (Applicant) Prof. Shilpi Sharma (Mentor)	DHR Fellowship for Women Scientists
2.	Development of sustainable hybrid nanocomposite materials (HNMs) as adsorbents and/or catalysts for wastewater treatment.	Dr. Vasi Uddin Siddiqui (Applicant) Prof. Z. A. Shaikh (Mentor)	SERB-NPDF
3.	Field-deployable cartridge-based LAMP assay for detection of EHP in shrimp aquaculture settings	Prof. Ravikrishanan Elangovan (PI) Dr. GK Sivaraman (co-PI)	DBT
4.	Preservation of soil microbiome to retain its functionality for application in diverse agroecosystems. -	Dr. Annapurna Bhattacharjee (Applicant), Prof. Shilpi Sharma (Mentor)	DBT-RA
5.	Identification of key microbial members and metabolites conferring tolerance against salt stress in wheat.	Dr. Radheshyam Yadav (Applicant) Prof. Shilpi Sharma (Mentor)	DBT-RA

The above projects were circulated to members, since no comments were received the projects were forwarded to concerned authorities, and the item was ratified.

2. Maternity Leave Request by Ms. Sidra Ghazali Rizvi from 1st August, 2022 was forwarded by our HoD.

3. The application of Yogesh Kalakoti (2018BEZ7512) for the grant of travel award (RSTA) and ex-India leave for making an oral presentation at an EMBO conference (<https://meetings.embo.org/event/22-structure-determination>) to be held from Sep 05-Sep 08, 2022, in Palermo, Italy was forwarded.

4. The request by Prof. Preeti Srivastava to avail Institute Fellowship under the DBEB quota fellowship for Ms Aditi Keshav, a SIRE PhD student, was approved by the Committee.

Distribution

All Faculty (by email)

Ritu Kulshreshtha

Ritu Kulshreshtha
DRC Chairperson