



Minutes of DRC Meeting
(DRC-01/2019-2020)

18th Sept 2019

The first meeting of the *Departmental Research Committee* (DRC) for the academic session 2019-2020 was held on **18th September 2019** at 4 PM am in the Committee Room (I-230) of the Department. The meeting was attended by the following members:

Prof Atul Narang (Chairman)
Prof D Sundar
Prof Shilpi Sharma
Prof Ritu Kulshrestha
Prof Rohan Jain
Prof Lucinda E Doyle
Prof Ravikrishnan E (Convener)

1. *To confirm the minutes of the 8th meeting of the DRC meeting for the session 2018-2019 held on 18th July 2019 and special DRC meeting held on 30th July 2019.*

Minutes of 8th DRC meeting held on 18th July for the session 2018-19 were confirmed with following modifications: Title of PhD synopsis of Sonam Takkar (2013BEZ 8030) was revised as "Unravelling the role of miR-196a in glioblastoma"

Minutes of special DRC held on 20th July 2019 was confirmed.

3. *Finalization of grades for mid-term evaluation of BTP*

Based on the discussion held, committee felt there is larger discrepancy in marks given to the student by the committee. More introspection is warranted (**Annexure A**).

4. *Request for change of topic and supervisor by Shashi Kalan (MTP project).*

Committee observed as supervisor-student allocation happens after detailed deliberation, any change in project supervisor inbetween needs formal concurrence from DRC. As a special case this supervisor changes has been approved.

5. *Finalization of grades for mid-term evaluation of major term project MTP*

Based on the discussion held, committee approved the evaluation (**Annexure B**).

6. Approval of PhD projects floated by the faculties

The committee approved the below PhD/MsR projects for students

PhD/MsR	Faculty	Title
PhD	Ravikrishnan E	Optimization of light sheet microscopy for large clinical specimen analysis

MsR	AK Srivastava	Optimization studies on production of copolymers from gaseous substrates
PhD	Ravikrishnan E	Molecular source tracking of AMR pathogens based on Whole Genome Sequencing
MsR	Ravikrishnan E	Liquid Biopsy: Exosome based diagnostics for lung cancer
PhD	LE Doyle	Electroactive India: profiling electrochemically-active microorganisms from across the subcontinent.

7. Allotment of topics to Ph.D. and M.S.(Res) students (Entry Sem I, 2019-2020)

Based on the preference given by the students, following allocations was done

MsR allocation

#	Name	Supervisor	Title
1	Shravya Velamala	Ritu Kulshrestha	NeuroD2/D6 regulated ncRNA network in glioblastoma
2	Rajat Anand	Ritu Kulshrestha	Targeting non-coding RNAs for GBM therapy
3	M Apurva	Atul Narang	Kinetics of ethanol production in Pichia stiptilis
4	Sourabh G Charan	Preeti Srivastava	Microbial biodesulfurization of crude oil in soil
5	Sharad J S	Ashish Mishra & D Sundar	Identification and characterization of bacteria terpene synthase

PhD allocation

#	Students	Supervisor	Title
1	Rewati Dixit	Rohan Jain	Recovery of selenium from wastewater for their application as slow release selenium fertilizer
2	Rahul Gupta	Ritu Kulshrestha	Deciphering the role of hypoxia regulated non-coding RNAs in induction of genome instability in glioblastoma
3	Aastha Singh	Ritu Kulshrestha	Deciphering p53:microRNA network in cancer
4	Arjun Rastogi	TR Sreekrishann & GP Agarwal	Nanofiltration Mediated Fermentation of Lignocellulosic Hydrolysate Using Wild Type Yeast
5	Surbhi Mishra	Zia S	Understanding the auto-healing capability of Ganga river (in view of the reduction efficacy of AMR burden)

Action: Supervisors are requested to formulate SRC committee and submit to DRC for ratification.

8. Approval of Synopsis and the list of examiners of the following student:

The Committee discussed and approved the synopsis submitted by Amanpreet Kaur Nagpal (2017BEY7503). The Committee also approved the panel of Examiners and authorized the Chairman to forward the same to Dean (Academics).

Action: Following documents should be send to Dean Academics for further processing:

(a) Filled-in form for Ph.D. synopsis submission & Appointment of Examiners

(b) 2 hard copies of the Synopsis and

(c) soft copy of the Synopsis by email

9. Nomination for Institute awards.

Awards	Remarks	Remarks
BOSS award	Abhinav Shukla (include entry number) nominated by supervisor	Nomination recommended by the DRC to be forwarded to UG Section.
FITT award	No nomination received	
IRD Research scholar travel awards	A. Shivani Khatri (Micrope meeting, 2-5 Dec 2019) B. Shubam Dubey (Micrope meeting, 2-5 Dec 2019)	Research Scholar Travel Award applications of the students were recommended to be forwarded to Dean Academics.

Action: Forward the documents to the relevant sections.

10. Plan of work submitted by Aditi Kesav (2018BEY7514) for approval.

The Plan of Work of Ph.D. student Aditi Kesav was discussed and approved on the basis of recommendations by the members of SRC.

11. Discussion on quality and quantity of PhD student intake in the department

Based on the discussion held on the topic, the DRC constituted a PhD recruitment committee with two biologist (Prof Preeti S and Prof Lucinda D) and two engineers (Prof Atul N and Prof Ashish M). The committee will give their input on written and oral evaluation strategies for the PhD selection.

12. Discussion on international student recruitment

Committee was apprised on PhD admission of foreign students. The PhD coordinator was requested to screen the applications received and update the DRC.

13. Request by Priyanka Dubey (Regarding DAAD exchange program)

Committee noted that Priyanka is drawing a stipend of 410 Euro during the initial period of language training. So her request for additional support from Institute was not recommended.

14. Selection procedure for postdoctoral fellows

The DRC Committee was updated on the recent minutes of meeting by PDF selection committee (**Annexure C**).

15. To report the matters for ratification by the DRC

(a) Project proposals submitted by departmental faculty

The below projects were circulated to members, since no specific comments were received from the members on the proposal, the projects were forwarded to Dean IRD and item was ratified in DRC.

S. No	Project Title	Project Investigator	Funding Agency
1	Maximising production of Human Serum Albumin in <i>Pichia pastoris</i> through genetic and bioprocess strategies	Saroj Mishra	CSIR for RAsip by Ms. Nitu Maity
2	microRNA nanotherapeutics for glioblastoma	R. Kulshreshtha	MFIRP
3	Molecular source tracking of AMR pathogens based on WGS in fish & fishery products.	Ravikrishnan E	IITD -ICAR joint call
4	Removal of iron from mining waste using innovative biotechnological and chemical technologies	Rohan Jain	DSR
5	Customisable LAYered filter for cleaning drinking water sources in Bangladesh, India and Ukraine" (CLAY)	Z. Ahammad	EPSRC
6	Investigating the capacity for extracellular electron transfer in psychrophilic microorganisms isolated from Antarctica	Lucinda Elizabeth Doyle	The University of Queensland - IIT Delhi
7	Investigation of the interface between electrochemically-active microorganisms and metals	Lucinda Elizabeth Doyle	The University of Queensland - IIT Delhi
8	Biological markers for soil suppressiveness	Shilpi Sharma	IITD-ICAR call
9	Recovery of phosphate from wastewater using novel biotechnology and physicochemical methods	Rohan Jain	CSIS – HRD
10	Development of digital ELISA diagnostics to monitor therapeutic efficacy of.	Ravikrishnan Elangovan	IITD-AIIMS
11	Investigation of the interface between electrochemically-active microorganisms and self-assembled graphene/carbon nanotubes over polymeric surfaces.	Lucinda Elizabeth Doyle	FIRP

17. Any other item with the permission of Chair

Request from Swati Varshney, PhD scholar from department for advance release of stipend against her DST Inpsire fellowship. DRC recommends and forwards her request to the PG section for favourable consideration.

Ravikrishnan Elangovan

Convener

Distribution

DBEB faculty (by email)