

Department of Biochemical Engineering and Biotechnology
Minutes of DRC meeting
(DRC-04/2019-2020)

13th Jan 2020

The fourth meeting of the *Departmental Research Committee* (DRC) for the academic session 2019-2020 was held on **8th Jan 2020** at 03.00 pm in the Committee Room (I-230) of the Department.

The following members were present:

Prof. Shilpi Sharma (*Chairperson*)

Prof. D. Sundar

Prof. T. R. Sreekrishnan

Prof. Rohan Jain

Prof. Ritu Kulshrestha

Prof. Preeti Srivastava

Prof. R. Elangovan (*Convenor*)

1. To confirm the minutes of the 3rd meeting of the DRC for the session 2019-2020 held on 15th November 2019, and Ph.D. selection held on 2nd December 2019.

The minutes of the 3rd meeting of DRC for the session 2019-2020 held on 15th November 2019, and Ph.D. selection held on 2nd December 2019 were confirmed as circulated.

2. To report the matters arising from minutes of Meeting No. 03/2019-2020

None reported.

3. Updates from BTP coordinator on BBD451, BBD452

BTP co-ordinator updated the committee that five students have registered for BBD451, and one student for BBD452 in the current semester. For BBD451, students were asked for their choice of supervisor from among the faculty members with vacant slots (IG, LED, RJ, RE, SS) (three students to be supervised per faculty member in an academic year). Assignment of supervisors was done as per Annexure I. For BBD452, based on the student's request, and supervisor's recommendation the project was approved (Annexure I). The committee for evaluation of the six BTP students was decided to be constituted of the six supervisors of BBD451 and BBD452 for the ongoing semester. The dates for evaluation were notified as per academic calendar:

Mid term evaluation: 14/2/2020 (Deadline for submission of reports: 7/2/2020)

End term evaluation: 4/5/2020 (Deadline for submission of reports: 21/4/2020)

4. Updates from MTP coordinator on final evaluation & projects for next batch.

For the ongoing batch of MTP students, the following evaluation dates were approved:

BBD853:

Mid term evaluation: 14/2/2020 (Deadline for submission of reports: 7/2/2020)

End term evaluation: 4/5/2020 (Deadline for submission of reports: 21/4/2020)

BBD854:

Mid term evaluation: 14/2/2020 (Deadline for submission of reports: 7/2/2020)

End term evaluation: Last week of July (Deadline for submission of reports: 15/7/2020)

The deadline for floating projects for next batch of MTP students, and allocation to students was deferred for the next DRC meeting.

5. Discussion on the synopsis report of Ph.D. students:

Name of student (Entry No.)	Topic of thesis	Date of SRC's approval
Mr Omkar SV (2014BEZ8003)	Regulatory and functional characterization of miR-490 in glioblastoma	26/11/2019
Mr Ashish Lohar (2014BEZ7503)	Heavy metal solubilization using acidogenesis during anaerobic digestion	3/12/2019
Ms Vidhi Mallik (2014BEZ8267)	Molecular targets for cancer therapeutics: Insights from genomic aberrations and protein interactions	27/11/2019

The Committee discussed and approved the synopsis. The Committee also approved the panel of Examiners and authorized the Chairperson to forward the same to Dean Academics.

(Action: Theses Supervisors to send the following documents to the DRC Convener: (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)

6. Discussion on the plan of work submitted by Ph.D. students

Name of student (Entry No.)	Topic of Ph.D.	Date of Paper II	Date of Oral comprehensive exam
Yogesh Kalakoti (2018BEZ7512)	Multi-omics intergation based analysis for predicting cancer phenotypes and potentia therpeutic targets	Dec 2019	3/1/2020
Vipul Kumar (2018BEZ7509)	Understanding the molecular mechanism of actoin of natural drugs	Dec 2019	3/1/2020
Avijeet Singh Jaswal (2018BEZ8436)	Fructo-Oligosaccharide synthesis using whole cell based system	11/9/2019	28./11/2019
Deepchandra Joshi (2018BEZ8240)	Development of a treatment system for the removal of emerging contaminants from the wastewater	Nov 2019	3/12/2019
Gaima Yadav (2018BEZ8241)	Investigating the role of long non coding RNAs in Glioblastoma	25/10/2019	26/11/2019

The dates of Paper II and Oral comprehensive examinatio for the students were noted. Plan of Work for the five students was discussed and approved based on recommendations by the members of SRC.

(Action: Chairperson DRC to forward the Form w/ enclosures to Dean - Academics)

7. Update on the comprehensive exam of current PhD students (Prof AK Srivastava & Prof Preeti Srivastava).

For the scheduled Paper I of comprehensive examination (9th Jan 2020), the DRC requested the evaluation committee to finalise the results by 24th Jan 2020. The committee authorised the Chairperson to declare the results upon finalisation.

8. Request for inclusion of co-supervisor for M.S.(Res) student Mr Rajat Anand
DRC approved the request by Prof Ritu Kulshreshtha for including Prof Archana Chugh (KSBS) as co-supervisor, based on the objectives proposed in the project.

9. Request for extension of PhD registration by Ms Divya Singhi (2015BEZ8501)
In view of Ms Divya Singhi's ongoing experiments for compilation of manuscripts, the committee recommended the extension of her fellowship for six months as per the tenure permissible in CSIR fellowship.

10. Grades awarded for DTD899 course in Sem 1, 2019-2020 and matters related
DRC approved the grades as circulated to all faculty members via email dated 18/12/2019. DRC reiterated that every Ph.D. student is required to have a minimum of one SRC meeting annually to discuss the work progress. Ph.D. Coordinator was requested to maintain a record of the same.

11. To report the matters for ratification

Project proposals submitted by departmental faculty

S. No	Project Title	Project Investigator	Funding Agency
1	Microbial extracellular electron transfer at the extremes	Lucinda E. Doyle	IITD-ISRO
2	Enhanced biodesulfurization through enzyme co-localisation in bacterial microcompartments	Preeti Srivastava (IITD) and Stefanie Frank (UCL)	MFIRP
3	Deciphering the role of miR-191 in regulation of chemoresistance and stemness in breast cancer	Ritu Kulshreshtha	DBT
4	An investigation of life history, breeding ecology and genomic consequences of adaptation to chronic protein deficiency using experimental evolution for live- yeast deprivation on Drosophila melanogaster populations	Ishaan Gupta	DST-SERB
5	Liquid Biopsy: Development and validation of exosome biomarker for diagnosis of Lung cancer	Ravikrishnan E. (PI) & Ishan Gupta (Co-PI)	ICMR
6	Evolutionary engineering of rhizospheric for mitigation of salinity stress	Shilpi Sharma	SERB-SUPRA

The above 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.

12. Request for ex-India leave by Ph.D. students

S. No	Name	Entry Number	Dates (duration) of leave, place of visit
1	Navaneethan Radhakrishnan	2017BEZ8438	Three months (Jan 2020 - Mar 2020), National Tsing Hua University, Taiwan
2	Arif Nissar Zargar	2016BEZ7504	Six months (Jan 2020 - Jul 2020), Technical University of Denmark
3	Deepak Kumar Prasad		Friedrich Schiller University, Germany (Feb –

		2015BEZ8001	Apr 2020)
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The Ex-India leave applications for the students were recommended to be forwarded to Dean Academics. The committee also recommended Mr Deepak's fellowship to continue during the period of his leave.

13. Any other item with the permission of Chair

(a) Request from Prof Ishaan Gupta to approve transfer of three projects to IITD

The request by Prof I. Gupta for transfer of the following extramural grants from his former institution, IISER Bhopal to IIT Delhi was endorsed by the committee:

1. ST/HRD/35/02/2006 (DBT)
2. SRG/2019/001035 (DST SERB)
3. CRG/2019/002460 (DST SERB)

The request for issuance of NOC, Endorsement and other related documents was forwarded to Dean R&D. Prof Gupta was advised to check the compliance of the above mentioned three projects with IBSC and Institute Ethics Committee, and in case required, do the needful.

(b) Request from Dr. Ritu Banerjee to transfer her women scientist project

Dr Ritu Banerjee's request for transfer of her project approved under DST WoSA scheme from IIT Guwahati to IIT Delhi (under the mentorship of Prof Z A Ahammad) was discussed and approved for forwarding to Dean R&D.

(c) Proposal against call by DBT for postgraduate teaching program in biotechnology under Human Resource Development Programme

As delegated by DFB the DBT nominees from the department, Prof S. Sharma and Prof R. Elangovan, apprised the committee that a proposal has been drafted with the Head's concurrence, requesting support from DBT for M.S.(Res) programme of the department. The proposal will be uploaded on IRIS for due forwarding and necessary action.

(d) Topic allotment to Ph.D. students (Entry Sem II, 2019-2020)

The Ph.D. coordinator updated the committee that the deadline for submission of choices (from the floated list of projects) by the students was 31st Jan 2020. The assignment of topics will be taken up in next DRC meeting.

The meeting ended with thanks to all members.

R. Elangovan
Convenor, DRC

Distribution

DBEB faculty (by email)

Annexure I

Allocation of supervisor to BTP students registered in BBD451

<u>S.No</u>	Name of the student	Entry No	Supervisor
BBD451			
1	Sanjay Singh Poonia	2016BB10045	Prof. Ravikrishnan E.
2	Puneet Lagoo	2015BB10052	Prof. Shilpi Sharma
3	Suyash Kumar Tak	2016BB10061	Prof. Saroj Mishra
4	Satyam Nathani	2015BB10058	Prof. Ishan Gupta
5	Vikas Kumar	2016BB10055	Prof. Lucinda Doyle
BBD452			
6	Varuni Sarwal,	2016BB10035	Prof. Rohan Jain: Adsorption of amino acids onto selenium nanomaterial