



MAHATMA GANDHI UNIVERSITY, KERALA

### Abstract

School of Biosciences - Renewal of registration and reconstitution of Institutional Animal Ethics Committee (IAEC) as per guidelines of "Committee for the Purpose of Control and Supervision of Experiments on Animals"(CPCSEA) - Sanctioned - Orders issued

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### **PLANNING & DEVELOPMENT 2**

No. 8311/P&D 2/2022/MGU

Priyadarsini Hills,Dated: 05.08.2022

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*Read:-*1. University Order No. 1749/2/2011/P&D II dated 10.07.2002.

2. Lr F.No.25/28/2017 - CPCSEA dated 22.03.2019 from the Member Secretary, CPCSEA, Government of India.

3. Lr. No.25/139/2012-AWD dtd 30.05.2022 from the Member Secretary, CPCSEA, Government of India.

4. Lr. No.SBS/IAEC/payment/2022 dated 08.06.2022 from Dr Jisha M.S, Professor and Head of Department, School of Biosciences, Mahatma Gandhi University.

### ORDER

As per reference read as paper (1) above, Institutional Animal Ethics Committee (IAEC) was constituted in order to facilitate the University to get registration in the Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA), Government of India and the Committee was reconstituted in the respective periods.

Vide reference read as paper (3) above, Ministry of Fisheries, Animal Husbandry and Dairying, Department of Animal Husbandry and Dairying, Government of India has informed that the registration of Animal House facility in the School of Biosciences has been renewed for a period of five years w.e.f 30.05.2022 and they have accepted the proposed list of IAEC members recommended by School of Biosciences.

Vide reference read as paper (4) above, Dr. Jisha M.S, Professor and Head of Department has requested to approve the renewal of registration and reconstitution of Institutional Animal Ethics Committee (IAEC) as suggested by CPCSEA.

Sanction has therefore been accorded by the Hon'ble Vice Chancellor to renew the registration of Animal House Facility in School of Biosciences and to reconstitute the Institutional Animal Ethics Committee (IAEC) with the following members from 30.05.2022 till 29.05.2027 (5 years) as suggested by the Ministry of Fisheries, Animal Husbandry and Dairying, Department of Animal

Sl.No	Name of the IAEC Members	Designation in IAEC
1	Dr. Keerthi T.R	Biological Scientist, Chairperson
2	Dr. Harikumaran Nair R	Scientist from different discipline, Member Secretary
3	Dr. Arun A Rauf	Scientist from different biological discipline
4	Dr. Anie Y	Scientist In - charge of Animal House Facility
5	Dr. Abraham Jacob John	Veterinarian

The nominees of CPCSEA to the Institutional Animal Ethical Committee (IAEC) of this university is as follows :-

Sl. No	Details of Nominee(s)	Nominated as
1	Dr. Manju Sebastian Kattoor house, Vadayar P.O Via Thalayolaparambu, Kottayam District, Kerala - 686605 Contact Number : 9447252528 Email : drmanjugymmy@yahoo.com	Main Nominee
2	Dr. Sachin J Shenoy Biomedical Technology Wing, Sree Chitra Tirunal Institute of Medical Science, Poojapura, Thiruvananthapuram - 695012, Kerala Contact No : 9447432656 Email : sacshen@sctimst.ac.in	Link Nominee
3	Dr. Litty Joseph Sr. Lecturer, Dept. of Pharm Sciences, Cheruvandoor Cam, Ettumanoor PO Kottayam (Dist), Kerala 686631 Contact No : 9497667655 Email : littyjimmyalappatt@gmail.com	Scientist from outside the Institute
4	Dr. A.S William Arputha Sundar Professor, The Dale View College of Pharmacy and Research Centre, Punalal, Thiruvananthapuram, Kerala. Contact No: 9489618386 Email : aswilliamas@gmail.com	Socially Aware Nominee

The nominees of Institutional Animal Committee (IAEC) shall be eligible for T.A, Sitting fee as per rules and the expenditure shall be met from the head of account "22 304 97 Remuneration/TA/DA/Sitting fee - Institutional Ethics Committee" provided in the budget estimates of School of Biosciences.

The Head of Department, School of Biosciences shall ensure that the suggestions made by CPCSEA are implemented in time and furnish the compliance report to the office of CPCSEA.

Orders are issued accordingly.

PRASAND THAMPY P

ASSISTANT REGISTRAR III (ADMIN)

For REGISTRAR

Copy To

1. Dr. Jisha M.S, Head of Department , School of Biosciences
2. Dr. Keerthi T.R, School of Biosciences
3. Dr. Harikumar Nair, School of Biosciences
4. Dr. Arun A Rauf
5. Dr. Anie Y, School of Biosciences
6. Dr. Abraham Jacob John, Veterinarian, School of Biosciences
7. Dr. Manju Sebastian, Kattoor house, Vadayar P.O Via  
Thalayolaparambu Kottayam District, Kerala-686605.
8. Dr. Sachin J Shenoy, Biomedical Technology Wing, Sree Chitra  
Tirunal Institute of Medical Science, Poojappura,  
Thiruvananthapuram-695012, Kerala
9. Dr. Litty Joseph, Sr. Lecturer, Dept of Pharm Sciences,  
Cheruvandoor Cam, Ettumanoor PO  
Kottayam (Dist), Kerala 686631.
10. Dr. A.S William Arputha Sundar  
Professor, The Dale View College of Pharmacy and Research  
Centre, Punalal, Thiruvananthapuram, Kerala.
11. PS to VC/PVC
12. PA to registrar/PA to FO
13. Audit V/University website/IT Cell/Records

**Minutes of the Institutional Animal Ethics Committee meeting, School of Biosciences (No.732/GO/Re/S/03/CPCSEA dated 24/04/2017) held on 07/10/2021 at 11.00 AM through online mode**

**The Members present**

1. Prof. (Dr) Keerthi T R - Chairperson, IAEC
2. Prof. (Dr) Lincy Joseph - Main Nominee, CPCSEA
3. Dr. B. Ganesan - Scientist from outside the Institute
4. Dr. Nishant Kumar Gupta - Socially Aware Nominee
5. Prof. (Dr) E V Ramasamy - Scientist from different discipline
6. Dr. Kurain George - Veterinarian
7. Dr. Anie Y - Scientist-in charge of Animal House Facility
8. Prof. (Dr) R. Harikumar Nair - Member Secretary, IAEC

The IAEC meeting started at 11.00 AM through online mode. Prof. (Dr) Keerthi. T R, Chairperson, IAEC, introduced the newly joined members to the Committee. The welcome message followed by the discussion on submitted proposals.

**I. Proposal No.22122019-6**

Title: Immunomodulatory effects of C reactive protein reducing drugs.

Principal Investigator: Prof. (Dr) Linu Mathew, School of Biosciences, Mahatma Gandhi University

Recommendation/ Suggestions

1. The IAEC meeting held on 22/12/2019 sanctioned the above proposal for animal experimentation. But the concerned Ph.D. student, Mrs. Jyothishna Dasan, couldn't initiate the work because she had to join a new job in Kerala Health Services. She has completed the probationary period and continuing the Ph.D. program. So, the proposal was resubmitted by the supervising guide. The committee scrutinized the resubmitted proposal and found no change in the protocol. The committee decided to permit the protocol as the extension of the study period and IAEC already granted permission in 2019, the same sanctioned number can be used. So the committee directed the Principal Investigator to apply for an extension with proper justification.

**II. Proposal No. MGU/SBS/01/07102021-1**

Title: Anticancer and antipathogenic effects of probiotic bacteria from human source

Principal Investigator- Prof. (Dr) Keerthi T R, School of Biosciences, Mahatma Gandhi University

Recommendation/ Suggestions

1. Perform Power analysis for determining sample size
2. The mentioned Breeder has not renewed the CPCSEA registration. So, prefer the Breeder with CPCSEA registration to acquire animals for experiments
3. Mention the concentration and route of administration of antibiotics
4. Mention the procedure for blood collection
5. Correct typographical errors on page 3 of B form

**III. Proposal No. MGU/SBS/01/07102021-2**

Title: Physiological and biochemical effects of whey protein and its components

Principal Investigator: Prof. (Dr) R. Harikumar Nair

Recommendation/ Suggestions

1. Perform Power analysis for determining sample size
2. The mentioned Breeder has not renewed the CPCSEA registration. So prefer the Breeder with CPCSEA registration to acquire animals for experiments
3. Incorporate the details of the funding agency in B form and attach a copy
4. Measure thyroid hormones before and after hypothyroidism induction
5. Correct the study period to six months
6. Use thyroid hormone analysis kit for the animal model

- IV. The Committee decided to approve the proposals subject to the incorporation of suggestions and resubmission of modified B form to Member Secretary
- V. The Main Nominee assured the annual report of 2019 and 2020 have been uploaded in time at the CPCSEA portal
- VI. The annual inspection of 2021 proposed to conduct in December

The meeting concluded with a vote of thanks by the Chairperson, IAEC, at 1.00 PM.

*RHNair*  
07/10/2021  
Dr. R. Harikumar Nair  
Member Secretary  
IAEC

*Keerthi*  
07/10/2021  
Prof. Keerthi T R  
Chair person  
IAEC

*Lily Joseph*  
23/12/21  
Dr. Lily Joseph  
main nominee



BT/BS/17/454/2011-PID

Dated: 21/05/2011

OFFICE MEMORANDUM

Subject: Nomination of DBT representative in the IBSC of Mahatma Gandhi University (MGU), Kottayam.

In accordance with the Notification of the Ministry of Environment and Forests vide Gazette Notification No. GSR 1037 (E) dated 05.12.1989, notified under the E.P. Act 1986, the Department of Biotechnology (DBT) had evolved the "Regulations and Guidelines for Recombinant DNA Research and Biocontainment 2017" for achieving for personnel and environmental safety in the use of genetically manipulated organisms in research, manufacture and applications. The constitution of the Institutional Biosafety Committee (IBSC) is mandatory in R&D Centres at the institutions/ universities/ industries/ any of organization which intend to carry out or are engaged in research activities involving genetic manipulation of genetic materials, microorganisms, plants or animals.

2. In conformity with the above, institutions engaged in genetic engineering research have constituted their IBSCs and the department has nominated its representatives in all such committees. Accordingly Prof. (Dr.) K.K. Elyas, Head & Coordinator, Department of Biotechnology, University of Calicut Kerala - 673 635 has been nominated to act as a DBT representative in the IBSC of Mahatma Gandhi University, Priyadarsini Hills P.O., Kottayam - 686 560.

The complete composition of the IBSC is as under:

- Chairman : Prof. Jayachandran K., School of Bioscience, MGU, Kottayam  
DBT Nominee : Prof. (Dr.) K.K. Elyas, Head & Coordinator, Department of Biotechnology, University of Calicut, Kerala  
Member Secretary : Dr. Radhakrishnan E. K., Asstt. Professor, School of Bioscience, MGU, Kottayam  
Outside Expert(s) : Dr. Shaji Philip, Principal Scientist, Plant Pathology, RRII, Kottayam  
Biosafety Officer : Dr. Nizamuddin M., Associate Professor, Deptt. of Microbiology, Govt. Medical College, Kottam  
Internal Member (s) : Prof. Keerthi T. R., School of Bioscience, MGU, Kottayam  
: Prof. Jisha M. S., School of Bioscience, MGU, Kottayam  
: Dr. Annie Y. Asstt. Professor, School of Bioscience, MGU, Kottayam  
: Dr. Linu Mathew, Asso. Professor, School of Bioscience, MGU, Kottayam

3. The DBT nominee serves as the link between the department and the respective IBSC. The nominee should ensure that:
- the committee has been constituted as per the norms of the guidelines.
  - the Recombinant DNA Safety Guidelines are strictly followed in the company,
  - the IBSC meets regularly (at least twice in a year) to review the ongoing activities and provide yearly reports to RCGM/DBT in the prescribed *proforma*,
  - all the activities within the purview of the guidelines are in the knowledge of RCGM/DBT and to guide the IBSC on biosafety issues.
  - the IBSC will follow the 'Simplified Procedures/ Guidelines on Exchange (inter-state and inter-institutional supply/ receipt within India), Import and Export of Genetically Engineered Organisms and Product(s) thereof for Research Purpose', as per the Department's OM Nos. BT/BS/17/635/2011/PID dated 22.09.2016 and dated 01.04.2018.
4. He/she will work for 3 years on the respective committee. On the expiry of term of nominee, institution / organizations are required to reconstitute its IBSC in prescribed *proforma*.

Contd.





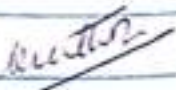

Website : <http://www.dbtindia.nic.in> <http://www.btlstnet.gov.in>  
Telephone : 24363012, 24362329 Fax : 011-24362884

Handwritten notes and signatures at the bottom of the page, including a date stamp '3/7/2019' and various initials and signatures.

Minutes of the meeting of the  
Institutional Biosafety Committee of  
School of Biosciences

Venue - School of Biosciences  
Date - 4/7/19, 11:30 am

Members Present:

1. Prof. Jayachandran K (Chairman)   
Director, School of Biosciences  
MG University
2. Prof. K. K. Elyes, Head and Coordinator (DBT Nodder)  
Department of Biotechnology  
University of Calicut 
3. Dr. Radhakrishnan EK (Member Secretary)  
School of Biosciences
4. Dr. Shaji Philip (External expert)   
Head, Pathology Department  
Rubber Research Institute  
Kottayam
5. Dr. Hizammudin M (Biosafety officer)   
Associate Professor  
Department of Microbiology  
Govt. Medical College  
Kollam
6. Prof. Keethu - (member)   
School of Biosciences
7. Prof. Sista ms (member)   
School of Biosciences

8) Dr. Anie Y. (member)  
School of Biosciences

Lib  
A/7/19

9) Dr. Linu Mithani (member)  
School of Biosciences

P  
Anie Halko  
A/7/2019

Committee resolved to recommend routine medical check up for those who are handling blood / serum / plasma and immunisation as per standard procedure. May be applicable for both Faculty members and research students.

Committee resolved to recommend medical check up for those works on Pseudomonas aeruginosa and its plant viruses.

Committee resolved to recommend biosafety training and <sup>biological</sup> waste management training to research students working on microorganisms.

Committee resolved to recommend conduct of experiments by strictly following biosafety guidelines. Recommended to use goggles for Fungi. Those handling Fungi and Coxsackie strict biosafety should be followed. Disposal of potential pellets should involve more than one hour.



## Recommendations on specific proposals

1. IBSCI/1/2019 - Dr. Tisha MS

Recommended

2. IBSCI/2/2019 - Prof. Jyoti's research

Recommended

3. IBSCI/3/2019 - Dr. Radhadevisharan B

Google use for Fusion in  
Corymbus

Recommended with - above analytical

4. IBSCI/4/2019. Dr. Jayashankar K

Recommended

5. IBSCI/5/2019 - Dr. Keerthi TR

UFA guidelines suggested to be followed.

Recommended ~~to follow~~ by following UFA guidelines for animal experiments

6. IBSCI/6/2019 - Dr. Keerthi TR

Recommended

7 ZBSCI/7/2019 Dr. Radhakrishnan  
E.V.

Recommended to work biosafety  
presentations for Fusarium and  
Cayrespon.

8 ZBSCI/8/2019 Dr. Annie Y

Recommended

9 ZBSCI/9/2019 Dr. Jyothis Melhan  
Recommended

10 ZBSCI/10/2019 Dr. Jyothis Melhan

Recommended by following  
UFA guidelines.

11 ZBSCI/11/2019 Dr. Jyothis Melhan  
Recommended

12 ZBSCI/12/2019 Dr. Radhakrishnan E.V.  
Recommended

13 ZBSCI/13/2019 Dr. Radhakrishnan E.V.  
Recommended

14 ZBSCI/14/2019 Dr. Radhakrishnan  
Recommended

15 ZBSCI/15/2019 Dr. Radhakrishnan  
Recommended

16. 18sci/16/2019  
Recommended

Dr. P. Muthiah  
E4

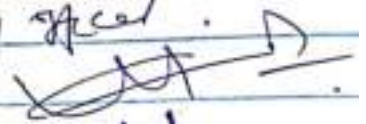
~~17. 18sci/17/2019  
Recommended~~

~~Dr. P. Muthiah  
E4~~

1. Dr. R. Gyan K. K



2. Dr. MIRAMUDDIN . M Biosafety officer



3. Dr. Shay Philip, Principal Analyst R44



4. Dr. Jayashankar



Minutes of the meeting of the  
Institutional Biosafety Committee is  
School of Biosciences

Venue - School of Biosciences  
Date - 4/7/2022, 11 am

Members Present

1. Prof. Jisha MS  
Director, School of Biosciences  
Mh University

*Jisha MS*  
4/7/22

2. Dr. Sabu Thomas (DBT nominee IBSC)  
Scientist F  
Rajiv Gandhi Centre for  
Biotech

*Sabu Thomas*  
OH. of Jodhpur

Thiruvananthapuram

3. Dr. Sheji Philip (External expert  
IBSC)  
Scientist E  
Rubber Research Institute  
Kottayam

*Sheji Philip*


4. Dr. Nizamudheen (Biosafety officer  
IBSC)  
Associate Professor  
Govt. Medical College  
Kollam

*Nizamudheen*

5. Prof. Jagathendran K (Internal member)  
Professor  
School of Biosciences

*Jagathendran K*

6. Prof. Keerthi IR (Internal member)  
 Professor  
 School of Biosciences Keerthi

7. Dr. Madhukrishnan (member secretary,  
 Assistant Professor <sup>EIC</sup> IBSC)  
 School of Biosciences 

The committee evaluated various proposals submitted for IBSC consideration and resolved to make following recommendations.

- 1.) IBSC/1/2022 P2 Prof. Jista. M.S.  
 The committee resolved to recommend the proposal submitted with the title "Characterisation of soil bacterium for herbicidal activity and identification of active principle".
- 2.) IBSC/2/2022, P2 Prof. Jayachandran  
 The committee resolved to recommend the proposal submitted with the title "For using bacteric like Pseudomonas luteida and Pseudomonas piscicida to study quorum sensing".  
 Quorum sensing mediated regulation in the biodegradation of microbial pollution
- 3.) IBSC/3/2022. P2 Dr. Anis Y  
 The committee resolved to recommend the proposal "Hyperglucose mediated

vesicular neutrophil extracellular trap release in thrombosis and wound healing?

- 4) IBSC/4/2022. PI - Dr. Arin Y  
The committee resolved to recommend the proposal submitted with title "PADP inhibitors for reducing neutrophil extracellular trap generation and preventing immune thrombocytopenia".
- 5) IBSC/5/2022 PI Prof. Kaulhi TR  
The committee resolved to recommend the proposal submitted with the title "Probiotic and prebiotic applications in animal system".
- 6) IBSC/6/2022 PI Prof. Kaulhi TR  
The committee resolved to recommend the proposal submitted with the title "Probiotic exploration from female genital tract for the prophylaxis and treatment of bacterial vaginosis".
- 7) IBSC/7/2022 PI Prof. Jayachandran K  
The committee resolved to recommend the proposal submitted with the title "Characterisation of endophytes with drought stress alleviating effects".
- 8) IBSC/8/2022 PI - Prof. Siskans  
The committee resolved to recommend the proposal titled "Rhizosphere

microbiome of Rice (Orissa, India) for improved plant functional traits.

9) IBSC/9/2022 P.I. Prof. M.S. Jishi  
The committee resolved to recommend the proposal developing polyethylene and polystyrene degrading consortia using bacteria from mangrove soil and strategy for efficient in-situ degradation.

10) IBSC/10/2022 P.I. Dr. Pradip Kumar  
The committee resolved to recommend the proposal titled antimicrobial resistance pattern of *Salmonella* species isolated from environmental and clinical samples.

11) IBSC/11/2022 P.I. Prof. Jyoti Pradhan  
Dr. Pradip Kumar  
The committee resolved to

recommend the proposal titled Genetic surveillance for extended spectrum beta lactamase carrying enterobacteriaceae causing community acquired infections. Also recommended to include clinical collaborators in the study.

12) IBSC/12/2022 P.I. Dr. Pradip Kumar  
The committee resolved to recommend the proposal titled Bio-enzymatic for wound healing. Also recommended to include "clinical collaborators for clinical samples".

13) 1880/13/2022 P2 Prof. Jyothsna  
 The committee resolved to  
 government the proposal titled  
 "Emerging antibiotic resistance in  
 polymicrobial infected diabetic foot  
 ulcers and its nontherapeutic  
 management"

The IBSC committee resolved  
 to request DBT to make specific  
 changes in the website as per the  
 revised committee members

Members

Dr. Sanku Kumar

Dr. Nizamuddin M.

Prof. Keerthi TR

Dr. Lavin Mathew

Prof. Keerthi TR  
Prof. Keerthi TR