# DEPARTMENT OF BIOCHEMISTRY & MOLECULAR BIOLOGY SCHOOL OF BIOLOGICAL SCIENCES CENTRAL UNIVERSITY OF KERALA

(Established under the Central Universities Act, 2009) Website: www.cukerala.ac.in

CUK/SBS/BCMB/BOS/Minutes/Dec-2018

18-12-2018

**Minutes** of the meeting of Board of Studies in Biochemistry & Molecular Biology held on 18-12-2018 at 10.30 AM in Department of Biochemistry and Molecular Biology, Central University of Kerala, Periye, Kasaragod.

### Agenda:

- 1. Reporting the renaming of the M.Sc. program
- 2. Revision of syllabus
- 3. Updating the panel of question paper setters and evaluators
- 4. Framing model question paper
- 5. Any other item

### Members attended the meeting:

1.	Prof. (Dr). Govinda Rao Duddukuri	 Chairperson
2.	Prof. (Dr). Annie Abraham	 External member
3.	Prof. (Dr). T. Rajamohn	 External member
4.	Prof. (Dr). Sathisha G J	 External Member
5.	Dr. K. Arunkumar	 Member
6.	Dr. Rajendra Pilankatta	 Member
7.	Dr. R. Aswati Nair	 Member

#### Resolutions:

- The chairperson has welcomed the BOS committee members and thanked the members
  for their consent and endorsement for renaming the M.Sc. Biochemistry and Molecular
  Biology program as M.Sc. Biochemistry program and informed the members that the
  same was approved by Academic council held on 12-12-2018. And this would come into
  effect for students admitted in 2018-19 batch.
- The chairperson has explained the scheme of present syllabus of M.Sc. Biochemistry.
   The committee has discussed and suggested some constructive changes in the syllabus of two year M.Sc. Biochemistry program as per the Choice Based Credit System (CBCS) for further strengthening the curriculum and recommended its implementation from next academic year (Annexure-I).

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- 3. The committee has discussed elective papers and their syllabi and approved (Annexure-II)
- 4. The committee has resolved and approved the question paper model for the End semester examinations as per CUK guidelines. (Annexure-III)
- The committee has resolved and approved the panel of examiners for question paper setting and evaluation for End-semester examinations as per guidelines of Central University of Kerala (Annexure-IV)

Member

Signature

Prof.(Dr). Annie Abraham
 Department of Biochemistry,
 University of Kerala, Kariyavattom,
 Thiruvananthapuram – 695 581

Prof. (Dr). T. Rajamohan
 Department of Biochemistry,
 University of Kerala, Kariyavattom,
 Thiruvananthapuram – 695 581

Prof. (Dr). Sathisha G J
 Department of Biochemistry,
 Kuvempu University
 Shankaraghatta Shimoga,
 Karnataka – 577 451

4. Dr. K. Arun Kumar
Associate professor,
Dept. of Plant Science,
Central University of Kerala, Kasaragod

Dr. Rajendra Pilankatta
 Associate professor,
 Dept. of Biochemistry & Molecular Biology,
 Central University of Kerala, Kasaragod

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Dr. R. Aswathi Nair
 Associate professor,
 Dept. of Biochemistry & Molecular Biology,
 Central University of Kerala, Kasaragod





Dr. Govinda Rao Duddukuri,
Professor, Chairperson,
PG Board of Studies of Department
of Biochemistry and Molecular
Biology

### BBM 5192 CELL BIOLOGY AND MICROBIOLOGY LAB (0-0-6-2)

### Cell biology experiments

- 1. Isolation and counting of cells-lymphocytes, liver cells.
- 2. Cell fractionation, isolation of mitochondria and assessment of purity
- 3. Preparation of cell culture media and sub culturing of mammalian cells
- 4. Cell viability test- Trypan blue. MTT assay.
- 5. Mitosis experiment
- 6. Meiosis experiment
- 7. Nuclei staining by DAPI / PI

## <u>Microbiology</u>

- 1. Preparation of solid and liquid media for growth of microorganisms
- 2. Isolation and maintenance of microorganism
- 3. Characterization of microorganisms
- 4. Isolation of pure cultures from soil and water.
- 5. Microscopic examination of bacteria- staining of bacteria
- 6. Growth kinetics- turbidometry.

### **Recommended Books**

- 1) Goldman, Emanuel, and Lorrence H. Green, eds. *Practical handbook of microbiology*. CRC Press, 2015.
- 2) Dubey, R. C., and D. K. Maheshwari. Practical microbiology. S. Chand, 2002.
- 3) Microbiology: A laboratory manual by Cappuccino and Sherman, Pearson Education, 6<sup>th</sup> Ed.