



## 3 Days National Workshop

# METHODS IN CREATING CHEMICAL MODELS OF DISEASE (MCCM-2024)

Theme: Understanding Disease Progression in  
an Animal Model System & Methodologies

**OCT 21-23, 2024**

**Department of Biochemistry**

**University of Kerala**



## ABOUT DEPARTMENT

**Founder Professor: Prof. P.A. Kurup**  
(Celebrated 50 years at the University of Kerala)

The Department of Biochemistry at the University of Kerala traces its origins back to 1961 when it was established as a division of the Department of Chemistry. It gained independent status in 1970. Since its inception, the Department has been a leader in both teaching and research. It has secured numerous externally funded research programs, both independently and in collaboration with various institutions in India and abroad. Presently, the Department offers M.Sc. in Biochemistry and Ph.D. programmes. The Department is equipped to perform biochemical research using a combination of various conventional and modern equipments. These include cell culture laboratories, approved animal house facility, advanced laboratories for inflammation, diabetes, neurobiology, cancer and tissue engineering research. The research focuses on areas such as inflammation, atherosclerosis, diabetes, arthritis, neurodegenerative diseases, immune disorders, cancer, tissue engineering, microbiome research, nutrition and nutrigenomics. So far the Department has produced over 320 Ph.D. graduates and published more than 1100 research articles in esteemed national and international peer-reviewed journals. The M.Sc. and Ph.D students of the Department have embarked on careers in biomedical research institutes, pharmaceutical and biotechnology industries, universities and colleges.

## ABOUT ANIMAL HOUSE

Animal House facility was established right from the inception of the department. This is in fact the first Animal House Facility in the state of Kerala, established by our founder Prof. and Head, Dr. P. A. Kurup. Animal house is registered with the Committee for Control & Supervision of Experiments on Animals (CCSEA). The research activities are carried out on lifestyle diseases such as atherosclerosis, diabetes, arthritis, neurodegenerative diseases, cancer, microbiome research, nutrigenomics and tissue engineering applications under supervision of CCSES & IAEC. Its main mission is to support the scientific research and teaching to the University community.

## ABOUT WORKSHOP

This workshop provides a comprehensive overview of disease progression in various chemically induced animal models used in biomedical research, focusing on lifestyle-related diseases such as atherosclerosis, type 1 and type 2 diabetes, inflammation, arthritis, blood disorders and neurodegenerative disorders, as well as medical devices development, novel diagnostic makers, new therapeutic approaches. Workshop stages experts in laboratory animal disease modelling, from esteemed institutes as speakers. The workshop will also cover regulatory frameworks and ethical considerations in animal research along with training in B Form writing. Participants will explore methodologies for preclinical disease development using small animals, with emphasis on selecting appropriate chemicals, dosages, and administration routes for consistent, reproducible results. A special session will showcase the use of stereotaxic equipment to develop an Alzheimer's disease model

## HIGHLIGHTS

- Models in lifestyle diseases, blood disorders, cancer, skin disorders
- Small animals for preclinical disease development
- Healthcare product development
- Medical devices tested in animal models
- Novel diagnostic markers and techniques
- New therapeutics and approach methods
- Regulatory frameworks and animal ethics

## Venues

**Department of Biochemistry**

**CV Raman Hall, CLIF  
Kariavattom Campus**

## SEMINAR CONTENT

- Inaugural address
- Theme presentations by experienced scientists/ faculty members
- Pitch talks, oral presentations and posters by students/ scientists
- Seminar proceedings and full text articles with ISBN Number
- Travel grants, best paper and poster awards
- Best science communication award to students
- **Prof. N R Vijayalakshmi Endowment Award**

## CALL FOR ABSTRACTS

- Experimental studies conducted using in vitro or in vivo model systems
- Health care products developed using animal models
- Medical devices developed using animal models
- Diagnostic kit development using animal models
- New therapeutics developed using in vitro or in vivo models
- Novel approaches and methods using in vitro or in vivo models

### Abstract Style

- Title with author names and affiliation
- Abstract of <500 words
- Submit to [mccmseminar@gmail.com](mailto:mccmseminar@gmail.com)

## TARGET GROUPS

Post graduate/Research Scholars/  
Faculty/Scientist/Working professionals

## ORGANIZING COMMITTEE

Dr. ARUN A RAUF ASSOCIATE PROF & HEAD

Dr. MINI S PROFESSOR

Dr. A HELEN PROFESSOR

Dr. SAJA K ASSISTANT PROFESSOR

Dr. P G BIJU ASSISTANT PROFESSOR

Dr. JANEESH P A ASSISTANT PROFESSOR

Smt. FAZEELA L ADMINISTRATIVE OFFICER

## CO-ORDINATORS

Ms. Anumol PS

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Mrs. Amrutha DS

Ms. Enrika Joy Ajith

Ms. Nimmi Varghese

Mrs. Sujinakumari L

Mrs. Dini Chandran

Mr. Ali Saadi Jasim Albaer

Mrs. Abhirami S

Ms. Adithya MG

Mr. Adwaith S

Ms. Lea Maria Tony

Ms. Gouri BK

## FOR REGISTRATION

Scan QR code  
to register  
or  
Click the link



**MCCM2024 Registration**

### Registration Fee:

Rs.3000+ 18% GST= Rs.3540/-(seminar)

Rs.5000+ 18% GST= Rs.5900/-(seminar+workshop)

Registration kit to include seminar materials, lunch/ dinner/ breakfast coupons

Accommodation: Additional charges  
Duty leave certificates (if required)

### Last Dates:

Abstract submission: 10 OCT 2024

Acceptance notification: 14 OCT 2024

Full text confirmation by authors: 15 OCT 2024

Registration closes by: 15 OCT 2024

## FOR MORE DETAILS

### ORGANIZING SECRETARIES

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