

## Prerequisites

- Basic understanding of R programming.
- Familiarity with statistical and biostatistics methods (e.g., linear regression, survival analysis, time series etc.).
- A laptop with R and R Studio.

## Fee Details

Participants	Fees *
Students & Research scholars	Rs. 5000
Faculty	Rs. 6000

\*Fees includes Workshop Kit, Lunch & Refreshments

## Account Details

Account No: 57036241636

IFSC Code: SBIN0070029

Account Name: RCC Research Project A/C

Name of Bank: State Bank of India

Branch: Medical College, Thiruvananthapuram

## Important Dates

Opening Date of Registration	15/01/2025
Closing Date of Registration	31/03/2025

## Admission Details

Number of seats limited to 30

Admission will be First-Come, First-Served basis

## For More Details, Contact

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Scan for Venue Details



Regional Cancer Centre, Thiruvananthapuram  
Life Beyond Cancer

# National Workshop on R Package Development for Statistical Models in Biomedical Research

Organized by

Division of Cancer Epidemiology & Biostatistics, Regional Cancer Centre,  
Thiruvananthapuram, Kerala



May 15 - May 17, 2025



Scan for Registration

Registration Link

<https://shorturl.at/wTZR3>

Patron

Dr. Rekha A Nair,

Director, Regional Cancer Centre (RCC), Thiruvananthapuram

Organizing Committee:

Chairperson:

Dr. Aleyamma Mathew,

Professor of Cancer Epidemiology & Biostatistics

Convener:

Dr. Preethi Sara George,

Additional Professor in Biostatistics

Co-Convener:

Dr. Jagathnath Krishna K.M,

Associate Professor in Biostatistics

Workshop Date: May 15-May 17, 2025

Dear Sir/Madam

With great pleasure, we inform you that “National Workshop on R Package Development for Statistical Models useful in Biomedical Research” is scheduled to be held at Regional Cancer Centre, Thiruvananthapuram from May 15 to May 17, 2025. We are pleased to invite you to this workshop.

## About the Workshop

This hands-on workshop is designed for data analysts, statisticians and researchers interested in learning to develop and maintain R packages tailored for Statistical/Biostatistical models. The workshop will cover the essentials of R package development, from the basics of setting up a package to implement complex statistical models, with a focus on reproducibility, usability, and scalability.

## About the Institute

The Regional Cancer Centre (RCC), Thiruvananthapuram established in 1981, is an internationally recognised centre, providing state-of-the-art facilities for cancer diagnosis, treatment, palliation, rehabilitation and conducting a wide range of research on various type of cancers.

## About the Division

Cancer Epidemiology and Biostatistics division, RCC, Thiruvananthapuram is a cornerstone of cancer research by leveraging big data, advanced analytics, modern epidemiological and biostatistical techniques. The division established in 1982, operates hospital and population-based cancer registries under the network of National Cancer Registry Programme of ICMR, Government of India, generates high-quality cancer intelligence and enables comprehensive analysis of cancer trends. It operates large-scale epidemiological studies including spatio-temporal and cancer surveillance programmes. Emphasizing data-driven research, the division collaborate

with scientific organizations to enhance the quality and scope of cancer studies, offering doctoral-level programs in Epidemiology, Statistics & Biostatistics. With expertise in data analytics, statistical methodologies, and innovative tools like R and Python, the division supports for research publications, thesis preparation, and the development of analytical solutions. By training postgraduate students & researchers, it cultivates a new generation of experts in cancer epidemiology and data science, significantly contributing for cancer prevention and control.

## Speakers



Dr. Bindu Krishnan: Senior Data Scientist, Data & AI, IBM Kochi



Mr. Rakesh Krishnan Poduval: Data Science Manager, IMMO Infotech, Goa



Mr. Mahesh Divakaran: Google and IBM Certified Data Science Professional & Research Scholar, AMITY University, Lucknow



Mr. Denny Sebastian: Principal Data Analyst, Statistical Programming, Catalyst Clinical Research, Cochin

## Objectives

- To learn the fundamentals of R package development.
- To gain practical experience in developing R packages for statistical models in Biomedical research.
- To develop R package for deployment by the participant.

## Key Topics

- Introduction to R.
- Introduction to R package structure and best practices.
- Setting up and managing the packages with devtools and usethis.
- Writing efficient, reusable functions for Statistical/Biostatistical modeling.
- Incorporating statistical models and testing into R package.
- Documenting package with roxygen2 for user-friendly help files.
- Version control and collaboration with Git and GitHub.
- Advanced techniques for packaging biostatistical models, such as optimization, simulation, and data analysis workflows.

Workshop on R Package Development

Workshop Date: May 15-May 17, 2025