



UNIVERSITY OF
WESTMINSTER

KONGUNADU ARTS AND SCIENCE COLLEGE (Autonomous)

Re-accredited by NAAC with 'A+' Grade (4th Cycle) | COLLEGE OF EXCELLENCE | 52nd Rank among Colleges in NIRF 2024
G.N.Mills Post, Coimbatore - 641 029, Tamil Nadu, INDIA

09th to 11th
September
2024

Three Days International Workshop on “**CRISPR/Cas9 Technology**- An Evolution of 21st Century Health and Environmental Sustainability”

Organized by

**PG and Research Department of Biotechnology,
Kongunadu Arts and Science College
&**

**Genome Engineering Laboratory, School of Life Sciences,
University of Westminster, London, UK**

Further Details Contact

PG and Research Department of Biotechnology, Kongunadu Arts and Science College, Coimbatore

crispcas9kasc24@gmail.com

98941 61756 | 98403 75506 | 96886 24642

Dr R Sathishkumar | Dr S Bhargavi | Dr V Elakkiya

www.kongunaducollege.ac.in



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Registration fee Rs. 5000

Registration can be done only through online mode Registration Link: <https://forms.gle/LRebYBeUAsyvKXy37>

Last Date for Registration 30.08.2024

Bank Details

Bank Name: Indian Overseas Bank

Account Name: Kongunadu Arts and Science College

Bank Account No: 170701000000010

Branch: Kavundampalayam Kongunadu Branch

IFSC Code: IOBA0001707

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**Three Days International Workshop on
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**09th to 11th September 2024
Resource Persons**



Dr Kalpana Surendranath, MSc, PhD, PGCHE SFHEA, FRSB
Reader in Genome Engineering, University of Westminster,
Leader of Genome Engineering Lab
Greater London, England, United Kingdom



Dr John Murphy MSc, PhD, SFHEA, FRSB
Reader in Biomedical Sciences, University of Westminster
Greater London, England, United Kingdom

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About Kongunadu Arts and Science College

Kongunadu Arts and Science College was incepted in the year 1973 and has grown magnificently in academic stature with Autonomous status having 13 research programmes, 11 PG, and 22 UG programmes. The college is imparting higher education to approximately 5000 students, majority of whom hail from socially and economically weaker sections of the society. In the fourth cycle of re-accreditation, the National Assessment and Accreditation Council has awarded “A+” grade. The College has been positioned at 29th rank in the NIRF 2023. The college has been awarded with the prestigious award of College of Excellence by the UGC during 2016-2017. The Institution is also supported under the DST - FIST and DBT - STAR College Schemes.

The Institution has a very dynamic and proactive Institution Innovation Council which cater to creation of an Innovation and Entrepreneurship enabling ecosystem among the young students by way of organizing several awareness programmes and mentoring support from established and budding entrepreneurs. The college has a IPR cell that facilitates the process of patent filing and mentoring support for eligible stakeholders. Recently the National Innovation and Startup Policy 2020 (NISP) was approved and finalized by the institution to promote entrepreneurship activities among faculty and students. The management provides seed money for prototype development and testing services. The patent filing charges are also taken care of by the management. The institution houses two pre-incubation facilities namely KASC Tech Hub and KASC i-HUB, through which basic facilities for product development in IT and Life Science sectors are promoted.

About the Biotechnology Department

The PG and Research Department of Biotechnology was incepted in the year 1996 with Undergraduate programme and subsequently Post graduate programme in the year 2002 & Research Programmes in the year 2003. The Department has received funds under the prestigious DBT STAR College Scheme in the year 2013 and has also been supported under DST-FIST scheme for upgrading the infrastructure facility for PG teaching and research. A funded project to a time of 80 lakhs was obtained from various funding agencies such as DBT, IMPRESS - ICSSR, DST-TARE, DST-SERB, MSME, AICTE, EDII-TN and UGC. The faculty from the department are actually engaged in research and a total of more than 200 papers been published. 8 patents have also been published by students and faculty of the Department.

Highlights of the Program

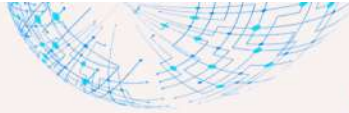
- Plenary Lecture on “Future of Biotechnology & Genetic Engineering”
- Hands-On Workshop on Tailored Guide Design for Genome Engineering Workflow, Annealing guide Duplexes and Colony PCR Guide Screen
- Hands-on workshop on Target Site Analysis of Coding & Non-Coding Regions
- Living a CRISPR Dream-Case Study Examples
- New CAS Proteins In Innovations In Biotechnology, Biomedical Engineering
- Panel Discussion

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Preamble

The CRISPR/Cas9 workshop will provide attendees with a comprehensive understanding of various genome engineering workflows for different systems. The 3-day program aims to support research and the discovery of promising strategies for improving human health and the environment. Participants will have the opportunity to gain hands-on experience in generating CRISPR tools, including guide design, selection and modification of plasmids, and target site analysis using NGS data. Additionally, the carefully tailored laboratory sessions will highlight key cell and molecular biological methods utilised in gene editing workflows. Overall, this workshop, a first-of-its-kind initiative in the country, will create a platform for broader research collaborations and pioneering discoveries in the future.

About the University of Westminster

Our people stand out as significant contributors to their communities – through their innovation, enterprise, and problem-solving – seeking to make the world a more sustainable, healthier, and better place. We started out 180 years ago as the first polytechnic in London and one of the first in the UK, established to educate the working people of London. Today, we continue to build on this reputation, helping students from a variety of backgrounds to realise their full potential. Our University has been rated Silver in the latest TEF 2023. This means that our standard of delivery in these areas and overall has been judged to be typically Very High Quality. The Teaching Excellence Framework (TEF) is a national scheme run by the Office for Students that recognises providers for high-quality teaching and student outcomes. Much of the teaching is underpinned by our research work and our research and teaching in areas such as art and design, media and communications, law, events and tourism management, English and architecture have been highly rated in independent evaluations.

About Genome Engineering Laboratory

By introducing CRISPR technology to teaching and research simultaneously, Dr Kalpana Surendranath takes credit for placing Westminster as the first post-92 University to host an in-house genome engineering facility in the country. She has spearheaded extracurricular initiatives to scaffold student participation and excitement in research innovations including programs like the Gene Editors of the Future. The program which has collaborated with over 500 students since 2020 is the largest and longest-running extracurricular CRISPR initiative in London. The laboratory has received prestigious awards, invitation for Royal Institution exhibits, international internships and played key roles in public and community engagement events including the recent London Mayoral Assembly. This year, Dr. Kalpana has been invited to organise courses based on CRISPR genome engineering, cellular modelling, and screening for Wellcome Connecting Science at the Wellcome Sanger Institute, Cambridge, United Kingdom.

Who Can Attend?

Students, Scholars, Faculty Members, Industrialists and Scientists
Accommodation for the participants will be provided inside the campus on Charge Basis (Prior Intimation needed)

***Note:** The Registration fees include Conference Kit, Lunch and Refreshments for the Registered Participants

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Chief Patron

Dr C A Vasuki

Secretary and Director
Kongunadu Arts and Science College,
Coimbatore, Tamilnadu

Patron

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Kongunadu Arts and Science College,
Coimbatore, Tamilnadu

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Coimbatore, Tamilnadu

Dr R Saravanamoorthy

Academic Coordinator S/F
Kongunadu Arts and Science College,
Coimbatore, Tamilnadu

Convenor

Dr B. Vishnupriya

Assistant Professor and Head i/c ,
Department of Biotechnology,
KASC, Coimbatore, Tamilnadu

Coordinators

Dr R Sathishkumar

Dr S Bhargavi

Dr V Elakkiya

Department of Biotechnology,
KASC, Coimbatore, Tamilnadu

Organizing Members

Dr R Selvasundaram

Dr S Shanmugapriya

Ms Anjali DR

Department of Biotechnology,
KASC, Coimbatore, Tamilnadu

Research Scholars & Students from Biotechnology

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