Kuvempu University

Dept. of PG Studies and Research in Environmental Science
Kuvempu University, Jnana Sahyadri, Shankaraghatta - 577 451

Special lecture

Photosynthesis in a Changing Climate: Research Frontiers and India's Food Security

Prof. Christine Foyer
Professor of Plant Sciences,
University of Birmingham, United Kingdom

President :
Prof. Sharath Ananthamurthy
Hon'ble Vice-Chancellor

Presence :
Sri. A.L. Manjunath KAS
Registrar

Dr. Rakesh Tiwari
Postdoctoral Researcher,
Plant Ecology and Genetics, Uppsala University, Sweden

06 September 2025, Saturday 10:00 AM
Venue: New Syndicate Hall

Organised by:

Dr. Rakesh Tiwari
Postdoctoral Researcher,
Plant Ecology and Genetics,
Uppsala University, Sweden

Prof. Yogendra.K
Coordinator,
Long-term Monitoring Station,
Department of P.G. Studies and
Research in Environmental Science.

In association with :
Uppsala University, Sweden

All are cordially invited

Prof. Christine Foyer

Professor of Plant Sciences,
University of Birmingham, United Kingdom

Professor Christine Helen Foyer is a distinguished Professor of Plant Sciences at the University of Birmingham in the UK. She is a leading expert in plant metabolism and its regulation under optimal and stress conditions, with a primary focus on reduction/oxidation (redox) biology and stress responses. Her research delves into how core plant processes like photosynthesis and respiration generate signals that govern plant growth and defense mechanisms.

A notable contribution to biochemistry is her name being included in the 'Foyer - Halliwell - Asada' pathway, which describes a vital cellular process of hydrogen peroxide metabolism in both plants and animals. Professor Foyer's work has a strong practical application, aiming to use her findings to enhance crop productivity and ensure sustainable yields for future agriculture. Her lab investigates various crop species, including soybean, maize, barley, and wheat, alongside model plants like *Arabidopsis thaliana*, to understand their responses to abiotic stresses (e.g., drought, chilling, high light, nitrogen deficiency) and biotic stresses (e.g., aphids).

Highly respected in her field, Professor Foyer has been recognized for over a decade on the Clarivate Analytics 'Highly Cited Researcher' list, ranking among the top 1% most cited authors. She has an extensive publication record, with over 480 published papers and a Google Scholar h-index of 143. She serves as Editor in Chief of Plant, Cell and Environment and will soon take on the role of Editor in Chief of Food and Energy Security, in addition to her leadership roles in several scientific societies.