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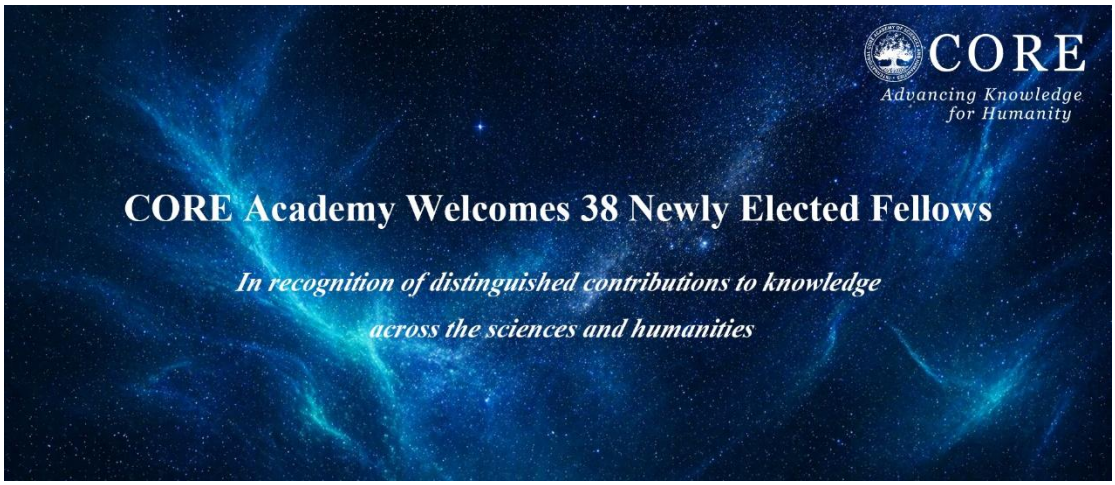
Advancing Knowledge for Humanity

Announcement of Newly Elected Fellows of CORE Academy – October 2026



The International Core Academy of Sciences and Humanities is pleased to announce the election of 38 new Fellows in October 2026, in recognition of their distinguished and sustained contributions to research, scholarship, and the advancement of knowledge.

The newly elected Fellows include Nobel laureates, leaders of national academies and universities, recipients of major international awards, and founders of research institutions and scholarly networks. Their work spans the natural sciences, engineering, mathematics, medicine, the social sciences, and the humanities. Their achievements encompass fundamental discoveries, technological innovation, and new ways of understanding the world, as well as lasting contributions to education and the development of research communities.

Election to the Fellowship recognizes both individual distinction and the enduring value of scholarship to society. The Academy warmly welcomes these distinguished colleagues and the experience and perspectives they bring to its international community. We look forward to their participation in advancing scholarship and strengthening cooperation across disciplines and borders.

Newly Elected Fellows

Tim Hunt

Emeritus Group Leader, Francis Crick Institute; Nobel Laureate in Physiology or Medicine (2001); Fellow of the Royal Society

Professor Hunt discovered cyclins, proteins whose periodic synthesis and degradation help control cell division, making a fundamental contribution to understanding the regulation of the cell cycle.

Marius Andruh

President of the Romanian Academy; Director, "Costin D. Nenitzescu" Institute of Organic and Supramolecular Chemistry; Member of Academia Europaea

Professor Andruh has advanced coordination and supramolecular chemistry through the design of metal-containing molecular architectures, including systems with distinctive magnetic and luminescent properties.

Nii Narku Quaynor

Chairman, Ghana Dot Com; Founding Chairman, AFRINIC; Internet Hall of Fame inductee; Recipient of the Jonathan B. Postel Service Award

An African Internet pioneer, Quaynor has helped establish Internet connectivity, develop technical expertise, and build the institutions that support the Internet's growth and governance across the continent.

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Ponisseril Somasundaran

LaVon Duddleson Krumb Professor of Mineral Engineering, Columbia University; Member of the US National Academy of Engineering; Foreign Member of the Chinese Academy of Engineering

Professor Somasundaran has advanced understanding of surface and colloid chemistry, with influential applications in mineral processing, flotation, and the treatment of environmental contaminants.

John Hutchinson

Abbott and James Lawrence Professor of Engineering, Harvard University; Member of the US National Academy of Sciences and the US National Academy of Engineering

Professor Hutchinson has made foundational contributions to the mechanics of materials and structures, particularly fracture, plastic deformation, and the instabilities that govern material failure.

Pavol Šajgalík

Senior Scientist, Institute of Inorganic Chemistry, Slovak Academy of Sciences; Former President of the Slovak Academy of Sciences; Academician of the World Academy of Ceramics

Professor Šajgalík's research has advanced structural ceramics and ceramic nanocomposites, clarifying how processing and microstructure determine their mechanical properties and performance.

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Arben Merkoçi

ICREA Research Professor and Group Leader, Catalan Institute of Nanoscience and Nanotechnology; Member of the Academy of Sciences of Albania and the European Academy of Sciences

Professor Merkoçi develops nanomaterial-based biosensors, bringing together analytical chemistry and nanotechnology to create sensitive detection methods for biomedical and environmental applications.

Shamansur Sagdullaev

Academician and First Vice-President–Chief Scientific Secretary, Academy of Sciences of Uzbekistan; Director, S. Yu. Yunusov Institute of the Chemistry of Plant Substances

Academician Sagdullaev has contributed to natural products chemistry and the development of processes for extracting and producing plant-derived compounds, supporting their translation into pharmaceutical products.

Federico Rosei

Professor of Industrial Chemistry, University of Trieste; Fellow of the Royal Society of Canada; Fellow of the Canadian Academy of Engineering

Professor Rosei studies the design, synthesis, and properties of functional nanomaterials, with particular emphasis on controlling their structure and behavior for energy conversion and related technologies.

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Dörthe Tetzlaff

Professor of Ecohydrology, Humboldt-Universität zu Berlin; Head of Ecohydrology and Biogeochemistry, Leibniz Institute of Freshwater Ecology and Inland Fisheries; Member of the Berlin-Brandenburg Academy of Sciences and Humanities

Professor Tetzlaff uses environmental tracers to explain how water moves through and is stored within landscapes, revealing connections between hydrological processes, vegetation, and a changing climate.

Paulo Eduardo Artaxo Netto

Professor, University of São Paulo; Member of the Brazilian Academy of Sciences; Fellow of The World Academy of Sciences and Recipient of the TWAS Prize in Earth Sciences

Professor Artaxo has advanced understanding of atmospheric aerosols and their climatic effects, particularly the interactions among Amazonian forests, atmospheric chemistry, and the Earth's climate system.

Alberto R. Kornblihtt

Professor Emeritus, University of Buenos Aires; Senior Researcher, CONICET; International Member of the US National Academy of Sciences; Foreign Associate of the French Academy of Sciences

Professor Kornblihtt has made major contributions to understanding alternative RNA splicing, particularly how transcription and RNA processing interact to regulate gene expression.

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Martin Hume Johnson

Emeritus Professor of Reproductive Sciences, University of Cambridge; Fellow of the Royal Society; Fellow of the Academy of Medical Sciences

Professor Johnson's research has deepened understanding of early mammalian development, particularly the cellular processes through which embryonic cells acquire distinct identities and organize into tissues.

Vanderlei Salvador Bagnato

University Distinguished Professor, Texas A&M University; Professor of Physics, University of São Paulo; Member of the US National Academy of Sciences and the US National Academy of Engineering

Professor Bagnato's work spans ultracold atomic physics and biophotonics, combining fundamental studies of quantum matter with the development of light-based approaches to disease treatment and microbial control.

Mirza Hasanuzzaman

Professor of Agronomy, Sher-e-Bangla Agricultural University; Fellow of the Bangladesh Academy of Sciences; Fellow of TWAS

Professor Hasanuzzaman investigates how plants respond to environmental stresses, particularly the physiological and antioxidant mechanisms that contribute to crop tolerance of salinity, drought, and other adverse conditions.

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Brian Josephson

Emeritus Professor of Physics, University of Cambridge; Nobel Laureate in Physics (1973); Fellow of the Royal Society

Professor Josephson predicted the quantum tunnelling phenomena now known as the Josephson effects, establishing a foundation for superconducting electronics, sensitive magnetic measurements, and precision metrology.

Jennie Brand-Miller

Professor Emeritus, University of Sydney; Fellow of the Australian Academy of Science; Officer of the Order of Australia

Professor Brand-Miller has made influential contributions to research on the glycaemic index and carbohydrate nutrition, strengthening understanding of how dietary choices affect blood glucose and metabolic health.

Carlos J. Bustamante

Raymond and Beverly Sackler Professor in Biophysics, University of California, Berkeley; Member of the US National Academy of Sciences; Recipient of the Vilcek Prize in Biomedical Science

Professor Bustamante has pioneered single-molecule approaches to biology, using the direct manipulation of individual molecules to reveal the mechanics of DNA, proteins, and molecular motors.

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Jūras Banys

Professor, Vilnius University; Full Member and President of the Lithuanian Academy of Sciences

Professor Banys investigates ferroelectric materials, dielectric properties, and phase transitions, advancing understanding of the relationship between microscopic dynamics and the electrical behaviour of solids.

Adriana C. Ocampo Uria

Courtesy Research Professor, University of Central Florida; Vice-Chair of UNESCO's World Commission on the Ethics of Scientific Knowledge and Technology

A planetary geologist, Ocampo has contributed to research on the Chicxulub impact structure and to the scientific direction of planetary exploration, connecting geological investigation with missions across the Solar System.

Christian Tientcha Happi

Distinguished Professor of Molecular Biology and Genomics, Redeemer's University; Founder and Director, Institute of Genomics and Global Health; International Member of the US National Academy of Medicine

Professor Happi has advanced pathogen genomics and its application to outbreak detection and response, while building research and training capacity for genomic surveillance in Africa.

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Marcio Castro Silva Filho

Scientific Director, São Paulo Research Foundation (FAPESP); Professor of Genetics, University of São Paulo; Member of the Brazilian Academy of Sciences

Professor Silva Filho investigates the molecular mechanisms of plant function and defence, with contributions to protein targeting and to understanding interactions between plants and insects.

Oyewale Tomori

Founding Vice-Chancellor, Redeemer's University; Fellow and President of the Nigerian Academy of Science; Inaugural President of the West African Network of National Academies of Science

Professor Tomori has made sustained contributions to virology and public health, strengthening infectious disease surveillance, laboratory capacity, and efforts to prevent and control epidemics in Africa.

Lidia Morawska

Distinguished Professor, Queensland University of Technology; Fellow of the Australian Academy of Science; Recipient of Australia's Prime Minister's Prize for Science

Professor Morawska has advanced the science of airborne particles and infection transmission, helping establish the evidence for improved ventilation and healthier indoor air.

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Evgeny V. Antipov

Professor and Head of Electrochemistry, Lomonosov Moscow State University; Professor, Skolkovo Institute of Science and Technology; Academician of the Russian Academy of Sciences

Professor Antipov has advanced the chemistry of inorganic materials, with major contributions to high-temperature superconductors and electrode materials for rechargeable batteries.

Marco Aurélio Zezzi Arruda

Full Professor, University of Campinas (Unicamp); Coordinator, National Institute of Science and Technology in Bioanalytics – Lauro Kubota; Fellow of the Royal Society of Chemistry

Professor Arruda develops analytical methods for complex biological samples, integrating sample preparation, elemental analysis, and mass spectrometry to investigate their chemical composition and biological significance.

Eugenia M. del Pino

Professor Emerita, Pontifical Catholic University of Ecuador; International Member of the US National Academy of Sciences; L'Oréal–UNESCO For Women in Science Laureate

Professor del Pino's comparative studies of frog embryos, particularly marsupial frogs, have revealed alternative patterns of early development and broadened understanding of the evolution of developmental mechanisms.

Luiz Davidovich

Former President of the Brazilian Academy of Sciences; Former Secretary-General of TWAS; International Member of the US National Academy of Sciences

Professor Davidovich has made major contributions to quantum optics and quantum information, particularly the study of decoherence, entanglement, and the relationship between quantum and classical behaviour.

Sergio Lavandero

President of the Chilean Academy of Sciences; President of Instituto de Chile; Director, Advanced Center for Chronic Diseases (ACCDiS); Recipient of Chile's National Prize in Natural Sciences

Professor Lavandero investigates the cellular mechanisms of cardiovascular disease, particularly the roles of signalling pathways, mitochondrial function, and autophagy in cardiac health and disease.

Mohamed Hag Ali Hassan

President of the Sudanese National Academy of Sciences; Former President and Founding Executive Director of TWAS; Former President of the African Academy of Sciences and InterAcademy Partnership; Fellow of the Royal Society

A mathematician and international science leader, Professor Hassan has helped build scientific institutions and research capacity across the developing world, expanding opportunities for international cooperation and scholarly exchange.

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Allaberen Ashyralyev

Professor of Mathematics, Bahçeşehir University; Fellow of the Islamic World Academy of Sciences

Professor Ashyralyev has contributed to the theory and numerical analysis of differential equations, particularly well-posedness, stability estimates, and difference schemes for evolution and boundary-value problems.

Wilfrid Gangbo

Distinguished Research Professor, University of California, Los Angeles; Member of the American Academy of Arts and Sciences; Fellow of the American Mathematical Society

Professor Gangbo has made influential contributions to optimal transport, nonlinear analysis, and the calculus of variations, developing mathematical approaches to problems in geometry and partial differential equations.

Bahrom Omirov

Chair Professor, Harbin Institute of Technology; Chief Researcher, V. I. Romanovsky Institute of Mathematics, Academy of Sciences of Uzbekistan; Fellow of TWAS

Professor Omirov studies the structure and classification of non-associative algebras, with substantial contributions to the theory of Leibniz algebras and related algebraic systems.

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Artemis Alexiadou

Director, Leibniz-Centre General Linguistics (ZAS); Professor of General Linguistics, Humboldt-Universität zu Berlin; Member of the German National Academy of Sciences Leopoldina; Gottfried Wilhelm Leibniz Prize Laureate

Professor Alexiadou has advanced linguistic theory through research on syntax, morphology, and cross-linguistic variation, particularly the structure of nouns and verbs and their relationship to meaning.

Ernest Aryeetey

Emeritus Professor and Former Vice-Chancellor, University of Ghana; Founding Secretary-General, African Research Universities Alliance; Fellow of the Ghana Academy of Arts and Sciences

Professor Aryeetey has contributed to understanding finance, enterprise, and institutional change in African economies, alongside sustained work to strengthen research universities and cooperation across the continent.

Peter Vale

Founding Director of the Johannesburg Institute for Advanced Study; Senior Research Fellow, University of Pretoria; Member of the Academy of Science of South Africa

Professor Vale's scholarship examines international relations, security, and political thought, with particular attention to Southern Africa and the historical and intellectual foundations of international order.

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Gianluca Maria Farinola

Full Professor, University of Bari Aldo Moro; Past-President of the Italian Chemical Society; Member of Academia Europaea

Professor Farinola designs functional organic and biohybrid materials, bringing synthetic chemistry into dialogue with photonics, electronics, and biological systems.

Krzysztof Matyjaszewski

J. C. Warner University Professor of Natural Sciences, Carnegie Mellon University; Member of the US National Academy of Sciences; Wolf Prize Laureate in Chemistry

Professor Matyjaszewski's development of atom transfer radical polymerization has enabled precise control over polymer structure, opening new possibilities for the design of functional macromolecular materials.

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A Letter from the President

Professor Di Zhang, President of CORE Academy, welcomes the newly elected Fellows and reflects on the Academy's growing collaborations and its shared purpose in advancing knowledge for humanity.

A Letter from the President

Dear Colleagues and Friends,

It is a pleasure to welcome our newly elected Fellows to CORE Academy. Your election honors contributions that have deepened understanding, opened new fields of inquiry, and enriched intellectual life. You bring to this community the experience of distinguished careers, together with the curiosity to ask fresh questions. We look forward to the ideas and perspectives you will contribute to the Academy's future.

This year, our Fellows' continuing contributions to knowledge and innovation have been accompanied by new collaborative projects and the development of further CORE Scientific Center Programs. Through visits across Eurasia and scholarly events jointly convened with partners in Americas, Europe and Asia, we have strengthened the relationships on which this work depends. The launch of CORE Academy Digital Editions extends these efforts into publishing, creating new opportunities for ideas to circulate and reach a wider readership.

Together, these efforts reflect our belief in what an academy can make possible: helping a promising idea find collaborators, giving an emerging research community a place to grow, and sustaining inquiry whose significance may take years to become clear. Our ambition is to build relationships and institutions that allow such work to flourish. This calls for patience, sound judgement, and the foresight to support people and ideas while their possibilities are still unfolding.

The sciences and humanities belong at the heart of this endeavor. Each deepens our understanding of the world through its own methods and traditions; their encounter can change the questions we ask as well as the answers we find. As discovery extends what humanity can do, scholarship also helps us consider what we should seek to accomplish, whose lives our choices affect, and what responsibilities accompany our growing capabilities. An academy that brings these perspectives together has much to

contribute to our common future.

International cooperation gives this purpose a wider reach. It grows through sustained exchange, careful listening, and the willingness to examine evidence and reconsider assumptions together. We want CORE Academy to be a community in which scholars from different traditions can develop that trust and undertake meaningful work. We also have a responsibility to create opportunities for younger researchers to shape this exchange and pursue questions of their own.

To our existing Fellows and partners, thank you for the ideas, effort, and trust you bring to this community. To our newly elected Fellows, I extend a warm invitation to help shape its next chapter. Bring us the questions you believe deserve attention and the collaborations you would like to pursue. Share your discoveries, perspectives, and news of your work with the Academy, so that others may learn from them and find opportunities to work alongside you.

The Academy's future will be shaped by what we undertake together. My hope is that the knowledge we advance, the institutions we strengthen, and the scholars we encourage will expand the possibilities for those who follow us. It is with this longer view, and with confidence in the contributions each of you can make, that I warmly welcome you to CORE Academy.

Di Zhang

Professor Di Zhang

President

International Core Academy of Sciences and Humanities

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About CORE Academy

The International Core Academy of Sciences and Humanities (CORE Academy) is an independent, not-for-profit, merit-based academy headquartered in Hong Kong and international in scope. It recognizes excellence in research and intellectual life and brings scholars and institutions together across the sciences and humanities. Through its Fellowship, research centers, scholarly publications, and international partnerships, the Academy supports inquiry, education, and cooperation for the benefit of humanity.

The Academy is formally recognized by the Inland Revenue Department of the Government of the Hong Kong Special Administrative Region as a charitable institution of public character with tax-exempt status under Section 88 of the Inland Revenue Ordinance (Cap. 112).

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