

Research & project design for global challenges:

Ca' Foscari Research Hub for Global Challenges

Ca' Foscari is highly committed in achieving excellence in research, developing international partnerships and funding promising researchers. Our 6 Research Institutes enforce this engagement by promoting a collaborative approach to research. More than 300 researchers are committing their expertise to solve global issues and to contribute to international research projects.

New ways of connecting to develop and give value to ideas:

Research for and with the community

PIInK - Promoting Innovation and Knowledge

PIInK is the knowledge transfer office of Ca' Foscari University of Venice. It facilitates collaboration between the university and external entities to leverage research outcomes. PIInK supports innovation and regional production system development through consulting and training in industrial property protection, management, and utilisation. PIInK also promotes joint research initiatives, patent development, and other research projects, drawing on the expertise of Ca' Foscari's research staff.

Investing in research and knowledge transfer

Every year, Ca' Foscari University provides funding and support for top research, including departmental co-funding, investments in laboratories, interdisciplinary projects, and assistance for innovation and technology transfer.



Research Institute for
Complexity



Research Institute for
Social Innovation



Research Institute for
Innovation Management



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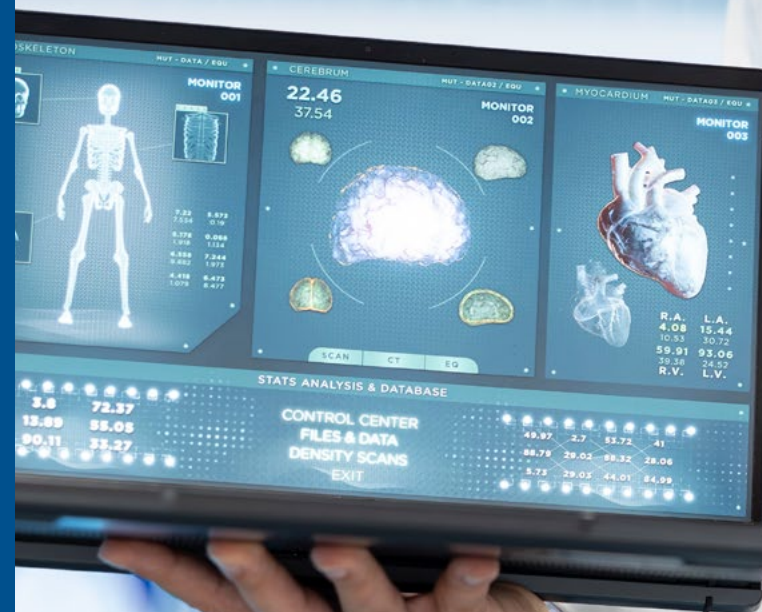
PIInK - Knowledge Transfer Ca' Foscari



Ca' Foscari
University
of Venice



Research Area



Health at Ca' Foscari

Research and project design
for health and social care

Health

Knowledge and expertise at Ca' Foscari

Health care policies, economics and management

Statistical, economic and social-science methodology applied to decision-making processes

Modelling of economic, social and legal phenomena e.g., ageing, long-term care, inequalities.

Modelling of territorial governance and social innovation.

Analysis of customers and personnel satisfaction and needs.

Analysis of health and care services and policies.

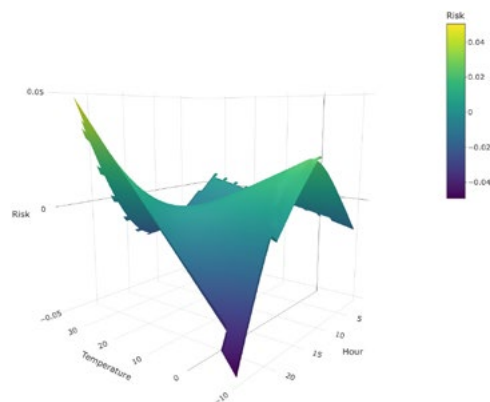
Public Information Systems.

Strategic innovation analysis and planning applied to Healthcare Processes

New organizational models in healthcare. Technology acceptance and team dynamics in the healthcare ecosystem.

Shared decision-making and co-production.

Social and environmental sustainability of healthcare practices.



Personalized medicine and care

Global approach to prevention, diagnosis, treatment and monitoring of diseases

Wearable devices for health monitoring. Non-invasive analysis of biomarkers in biological fluids such as urine, saliva and sweat.

Integrated systems of social and health care and tele-care.

AI, health data analysis and digital law

Interoperable/Explainable AI for Clinical Decision Support

Development of understandable and trustworthy systems to support decision making in the clinical environment, using artificial and computational intelligence.

Medical Image Analysis and proteomics

to foster accurate diagnosis using advanced artificial intelligence methods.

Privacy and data protection protocols

Privacy-Aware Data Sharing model for Health, telemedicine and patient protection.



Bioinformatics and Biomedicine

Modelling and simulation of complex biological systems

Analysis and comparison of complex biological and/or ecological systems, identification of interactions and properties for pharmaceutical or medical use.

Protein mutation

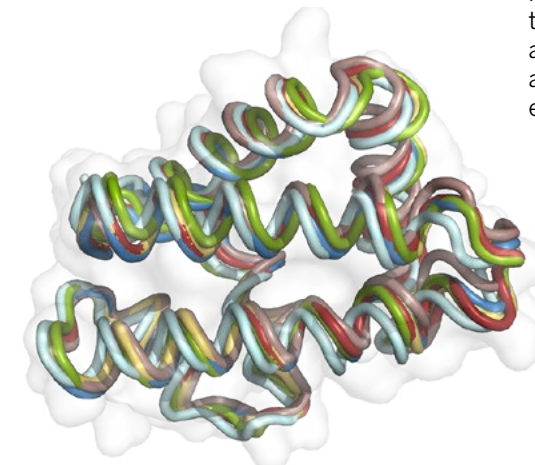
Computational approaches to detect or predict deleterious mutations.

Precision medicine

Development of novel computational and experimental methodologies to identify efficacious molecules for the treatment of diseases.

Drug discovery: development of new biological and chemical compounds using combinatorial directed evolution approaches.

Drug design: de novo design and in silico optimisation of novel biological and chemical compounds.



Climate, environment and health

Local and global pollutant contamination

Statistical and chemical-analytical methods to investigate the systemic distribution, toxicological mechanisms and clinical/epidemiological risks of air and water pollutants, and emerging pollutants such as PFAS, also including the use of electrochemical sensors and multisensory platforms.

Effects of climate change on human, animal and planetary health

Assessment of the shifts in disease patterns, biodiversity loss, ecosystem disruption, social and environmental determinants that influence public health, food security, and habitat sustainability.

Safe and Sustainable by Design chemicals and materials according to the EU SSbD framework

Early development assessment of human health and environmental safety of innovative chemicals and materials along their life cycle. Environmental sustainability assessment through LCA-based approaches and integration with socio-economic aspects.