We are
“In an interdependent world, health is a global issue. Our commitment to improving the health of all people and ensuring greater equity is implemented through the generation, dissemination and translation of scientific knowledge.”

A team of over 400 people from 36 countries

Collaborations in more than 50 countries

400 scientific papers published every year

Over 800 professionals trained every year
ISGlobal’s mission is to promote health equity through excellence in research and the translation and application of knowledge. Our vision is a world in which all people can enjoy good health.

**How We Work**

The aim of ISGlobal’s value chain is to create a virtuous circle of knowledge, action and impact on health.

- **Research and Innovation**
  - Knowledge creation and transfer

- **Initiatives**

- **Education and Training**
  - Knowledge transmission

- **Policy and Global Development**
  - Knowledge application
Research is the backbone of ISGlobal’s work. We do multidisciplinary and translational research in many fields — ranging from molecular biology to clinical research and public health. The areas we work in include:

- **Air Pollution and Urban Environment.** We analyse the health risks and benefits of the built environment and the exposures associated with urban living, including air pollution, noise, temperature and green spaces.

- **Chagas, Parasitic and Imported Diseases.** We are working to develop new drugs for the treatment of Chagas disease as well as biomarkers of therapeutic response. In the field of imported diseases, we undertake clinical research and epidemiological surveillance.

- **Childhood and Environment.** We assess the effects of environmental pollutants, nutrition, and lifestyle (pre- and post-natal) on children’s health and development, including neurobehavioural development, obesity and metabolism as well as respiratory and mental health.

- **Climate and Health.** We investigate the effects that the environmental consequences of climate change (temperature, extreme precipitation events, heat waves, etc.) may have on human health, and we develop predictive computational models.

- **HIV/AIDS and Tuberculosis.** In this area, we focus on the problems of the epidemics in sub-Saharan Africa. Our work includes epidemiological and operational studies aimed at improving access to antiretroviral therapy as well as the evaluation of new tools for the diagnosis, treatment and prevention of tuberculosis.

- **Malaria.** We generate scientific knowledge and evidence. Our work in malaria covers the whole spectrum from basic science to operational research on the implementation of interventions undertaken to reduce and, ultimately, eliminate malaria.

- **Maternal, Infant and Reproductive Health.** We study the infectious diseases that affect women and children in low-resource countries, including malaria in pregnancy and human papilloma virus as well as the impact of
co-infection with HIV/AIDS. Other lines of work include the assessment of preventive measures, such as maternal immunisation, the identification of the main causes of death, and the study of inequities in maternal and reproductive health.

- **Non-communicable Diseases and Environment.** We aim to study the causes and mechanisms of the development and progression of cancers and respiratory and allergic diseases throughout the life course, both in high and low and middle-income countries. We focus on environmental, occupational and lifestyle determinants, and incorporate advanced epidemiological, bioinformatic and statistical methods.

- **Radiation.** We investigate the effects on human health of different types of radiation: ionising radiation, including medical exposures and radiation from Chernobyl and Fukushima; and non-ionising radiation, such as that emitted by mobile communications devices. The aim is to assess the impact of radiation on public health and to improve the population’s radiation protection.

- **Viral and Bacterial Infections.** In this field, our objective is to improve the diagnosis and treatment of infectious diseases, to understand the causes of antibiotic resistance, and to find new ways of combating infections.

**Innovation**

We are working to further the development of technological innovations and to stimulate social innovation. In collaboration with the Hospital Clínic and Parc de Salut Mar in Barcelona, we translate scientific and medical knowledge to the clinical setting to improve the efficacy, equity and efficiency of the health system.
We train the researchers and health professionals of the future. Our programmes foster a transdisciplinary approach to address the health problems of a globalised world. Our portfolio includes postgraduate programmes (master and doctoral), specialised short courses, rotations for health professionals and researchers, and programmes designed to strengthen capacities in low and middle-income countries.

ISGlobal is a university research institute affiliated with the University of Barcelona and Pompeu Fabra University.

Moving from evidence to action. Within the framework of the Sustainable Development Goals (SDGs) and based on scientific knowledge and the analysis of health and development strategies, we promote new models of action and changes in the global agenda in order to achieve more effective, equitable, and sustainable interventions.
ISGlobal works out of two campuses in Barcelona—Mar and Clinic—and offices in Madrid, but the scope of our work is global. In addition to our work in the many countries where we are involved in research projects, we have also built long-term strategic partnerships and alliances in Africa and Latin America.
Bolivia

The Platform for the Integral Care of Patients With Chagas Disease is a new health care model that combines research and training for health care personnel with the direct provision of patient care aimed at improving the prevention, diagnosis and treatment of Chagas disease.

Morocco

Working with the Ministry of Health, academic institutions and health care centres in Morocco, we support operational research and work undertaken to develop effective health care policies and to strengthen national capacities.

Mozambique

The Manhiça Health Research Centre (CISM) is one of the leading health research centres in Africa. The long-standing collaboration between CISM and ISGlobal ensures the transfer of knowledge, the development of capacities, and a research portfolio that focusses on some of the most serious threats to health in sub-Saharan Africa.
Each one of our initiatives focusses on an area in which ISGlobal is at the forefront of international research efforts and explores how scientific knowledge can be applied to achieve an effective impact on global health.

### Malaria Elimination Initiative

ISGlobal is known for its long history and achievements in the field of malaria. Our aim with this initiative is to promote strategies specifically designed to increase the number of malaria-free territories around the world. In recognition of the quality and impact of our work, ISGlobal was designated a World Health Organisation (WHO) Collaborating Centre for Malaria Control, Elimination and Eradication in 2013.

### Urban Planning, Environment and Health Initiative

To improve and protect the health of people living in urban environments, we have launched an initiative that focusses on the relationship between urban planning, transportation, and health. We offer evidence-based tools and strategies for meeting the challenges posed by urbanisation: air pollution, noise pollution, the lack of green spaces, the effects of urban heat islands, and sedentary lifestyles.
Maternal, Child and Reproductive Health Initiative

One of ISGlobal’s priorities is to improve the health of the world’s most vulnerable populations: women and children in developing countries. To achieve this goal, we are investigating new and better tools for the prevention, diagnosis and treatment of disease as well as providing training and implementing effective interventions in priority areas. These include malaria in pregnancy, the causes of infant and maternal mortality, maternal immunisation, human papillomavirus, emerging diseases such as the Zika virus, and disparities in health equity.

Chagas Initiative

Chagas disease is a forgotten and neglected disease. While millions of people worldwide are infected with the parasite, most of them are unaware that they have the disease and do not receive the medical care they need. At ISGlobal, we work to strengthen prevention measures, to improve patient access to diagnosis and treatment, and to contribute to the development of new tools to fight Chagas disease.
Antimicrobial resistance to drugs is a growing problem. It threatens our ability to treat infections, increases the cost of health care, and jeopardises the medical advances achieved in recent decades. To combat the problem, we are contributing to the understanding of the causes and factors involved in antimicrobial resistance, working to support the development of new drugs and promoting the rational use of all antimicrobials.