



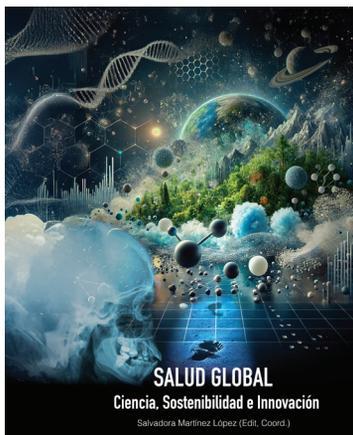
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GLOBAL HEALTH SCIENCE, SUSTAINABILITY, AND INNOVATION

The Spanish Society of Mineralogy (SEM) aims to promote and encourage the integration of science within its scope to the general public, contributing to the improvement of education in these disciplines, and fostering the participation of individuals in mineralogical, petrological, or geochemical research. Therefore, SEM should, within its financial capacity, be involved in supporting outreach and communication projects that promote scientific vocations among schoolchildren and non-university youth.

In this line, SEM collaborates in the financing of activities aimed at the social dissemination of scientific, technological, and applied knowledge, as well as heritage in the fields of mineralogy, petrology, geochemistry, mineral deposits, and related disciplines. These activities must be promoted by institutions and entities that do not pursue profit motives, and in whose organization SEM members are involved.

On May 28th, the book “*Salud Global, Ciencia, Sostenibilidad e Innovación*” was presented at Murcia University (UMU, Spain), in its first Spanish edition, supported by SEM funding.



Global health is undoubtedly one of the great challenges of our time. In an interconnected world, where geographical and sectoral barriers are blurring, understanding the determinants of human, animal, and environmental health becomes an urgent and necessary task. This book offers a comprehensive overview of global health issues, from technological advances to environmental risks, the relationship between the environment and public health, and the challenges of sustainability. The environment in its broadest dimension is the common thread that runs through this book. This perspective recognises that human health, animal health, and ecological balance are intrinsically connected. We cannot effectively address emerging diseases without considering their zoonotic origin. We cannot ensure food safety without studying the environmental impact of production systems. We cannot protect the population health without assessing the effects of pollution, biodiversity loss, and climate change. The integration of man with nature and respect and care for the environment in all the dimensions addressed in the book are not options, but unavoidable necessities for the prevention of diseases and in the search for effective solutions to existing challenges. On a planet where everything is interconnected, it is only through responsible and excellent research with integrated approaches that can we successfully face present and future challenges.

This book brings together the knowledge of 75 experts from various disciplines to provide a broad and rigorous perspective on different aspects of how the environment influences health. The book is made up of 27 chapters divided into four sections. The first section explores technological innovation applied to global health, from nanotechnology to digital twins and occupational exposure monitoring. The second section focuses on environmental risks and their impact on health, addressing issues such as microplastics, light pollution, and epigenetics. The third part looks at the intersection between environment, food, and public health, with an emphasis on food safety, antimicrobial resistance, and aquaculture. Finally, the fourth section



is devoted to sustainability and future challenges including advances in applied mineralogy, highlighting the need for sustainable resource management and greater awareness of the environmental impact of our actions.

The book, led by Salvadora Martínez has been funded by nine sponsors, including the Spanish Mineralogy Society. All profits generated by this academic publication are donated to the Spanish Association Against Cancer.

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