Our planet thrives because of life. Many disciplines have been created to better understand the world around us. The discipline of life sciences has been an important driving force for the progress of human civilization and will play an even greater role in the future. Life sciences aim to reveal the laws of life activities and unveil the essence of life through studying the phenomenon of life, including the occurrence, development, and extinction of all organisms, the relationship among them, and their responses to the environment. Scientists continue to deepen our understanding of the phenomenon of life, from the macroscopic to the microscopic, from the individual to the molecular. On the macro level, human social relations, ecology, climate and environment, conservation biology, life processes, and the structure of tissues, organs, and systems are being revealed. On the micro level, modern life technologies enable us to have a better understanding of cells, organelles, biomacromolecules, and the relationships between their structures and functions.

Throughout history, human beings have never stopped exploration of life sciences. Thousands of years ago, Egyptians began to make mummies, and the Book of Songs from ancient China gave vivid descriptions of hundreds of animals and plants, all of which shine with our ancestors’ love for life. In the mid-17th century, scientists invented microscopes to “see” cells, opening the door to modern life sciences research. Over the centuries, life sciences research has evolved considerably. Earlier, research was performed in individual laboratories, focusing on specific organisms and reactions in test tubes. Now, more research relies increasingly on collaborations, giant equipment, big data computing, large scientific projects, and even multidisciplinary convergence. High-throughput sequencers, super-resolution microscopes, and Nuclear Magnetic Resonance devices are creating new research paradigms in different areas of life sciences.

Innovation is a great challenge but also an opportunity for every researcher in life sciences. We are moving from “understanding life” to “engineering life”. Future researchers in life sciences need to bring together the frontiers in mathematics, physics, chemistry, materials, and computer science, in order to facilitate the continued development of life sciences and to generate next-generation fundamental theories and technologies. To address the challenges, we are launching a new journal entitled The Innovation Life, dedicated to publishing innovative, rigorous, and cutting-edge advances in life sciences, with an emphasis on interdisciplinary achievements. It aims to provide a platform for the publication of interdisciplinary research that advances our understanding of the living world. As the boundaries between traditional disciplines continue to blur, it is more important than ever to bring together researchers from diverse fields to address the complex challenges facing modern biology. We believe that The Innovation Life will play an important role in fostering such collaboration and highlighting cutting-edge interdisciplinary achievements.

Our scope is broad, encompassing all aspects of life sciences, from the molecular mechanisms that underpin cellular processes to the ecological interactions of organisms and the impacts of human activities on the environment. We welcome submissions from researchers across the globe, and our editorial team is committed to providing a fair and rigorous peer-review process that upholds the highest standards of scientific integrity. We also aim to inspire and inform the next generation of life scientists, fostering a passion for interdisciplinary research and promoting the translation of fundamental discoveries into tangible solutions for the world’s most pressing challenges.

Let’s get together to see the unseen and change the unchanged.