

Special Issue

Expanding and Reprogramming the Genetic Code

Message from the Guest Editor

The genetic code defines the fundamental rule of translating genetic information into proteins. Due to advanced knowledge and biotechnology, the genetic code has successfully been modified, even in animals. Engineered codes could produce proteins, molecular systems/pathways, and organisms never realized in the history of life, through either artificial design or the autonomous evolution of host cells. Expanded codes have found various applications in basic science and industry, and enabled the exploration of biosystems supported by non-natural proteins. This Special Issue will cover original reports and review articles on method developments, applications, and future perspectives of genetic code expansion, as well as natural variations in translational molecules and machinery, which can inspire new directions of engineering.

Guest Editor

Dr. Kensaku Sakamoto
Riken, Division of Structural and Synthetic Biology, Wako, Japan

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijms@mdpi.com

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The *International Journal of Molecular Sciences (IJMS)* is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, and molecular biophysics. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Editor-in-Chief

Prof. Dr. José L. Quiles
Department of Physiology, Institute of Nutrition and Food Technology
"Jose Mataix", Biomedical Research Center, University of Granada,
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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