

Special Issue

Advances in Antibody–Drug Conjugates

Message from the Guest Editor

Antibody–drug conjugates (ADCs) represent a significant advance in cancer treatment by combining the specificity of antibodies with the potency of highly cytotoxic agents. This targeted strategy has the potential to reduce the severity of side effects by preferentially delivering the therapeutic payload directly to the tumor site, with ADCs sometimes referred to as ‘precision chemotherapy’. As our understanding of tumor biology deepens and ADC design improves, we are moving closer to effective, safe, and personalized cancer therapies. Numerous innovative ADC formats are being developed, including bispecific ADCs, dual-drug ADCs, conditionally active ADCs, immunostimulatory ADCs, and antibody–siRNA conjugates. Each of these formats offers unique capabilities to tackle a range of cancer treatment challenges, bringing new hope to patients with difficult-to-treat cancers.

This Special Issue will cover all aspects of the roles and mechanisms of ADC therapeutics in cancer and non-oncology indications, focusing on recent advances in the ADC platform and technology, including targets, antibody selection, payload, and linker and conjugation chemistry.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) 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, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *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.

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