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Bispecific Antibodies: Design, Isolation, Perspectives of Use

Guest Editor:

Dr. Sergey Sedyh

SB RAS Institute of Chemical
Biology and Fundamental
Medicine, Novosibirsk State
University, 630090 Novosibirsk,
Russia

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Message from the Guest Editor

Bispecific antibodies contain two different antigen-binding sites in one molecule. These ingenious, chemically and genetically engineered constructions have a recent but exciting history; in 2011, these promising molecules were named the “next-generation antibodies”. The generation of a bispecific antibody was first described in 1961; quadromas, expressing two light and heavy chains, were produced in 1983; and in 1984, bispecific antibodies were chemically generated from monoclonal antibodies using bifunctional cross-linkers. In 1985, two HL fragments were united in one bispecific Fab₂, and in 1987, it was shown, that bispecific antibodies against T-cell antigen receptors may induce T-cell mediated lysis. The first paper devoted to the use of bispecific antibody in therapy was published in 1992, and therapeutic bispecific antibodies were approved in 2009 in European Union (catumaxomab) and in 2014 in USA (blinatumomab).

This Special Issue of MDPI *Life* is focused on the new methods of generation and isolation of bispecific antibodies, pharmacokinetics, and perspectives of use in biomedicine and diagnostics.



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Special Issue



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Editor-in-Chief

Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in
Biomedicine (IRB Barcelona), The
Barcelona Institute of Science
and Technology, 08028
Barcelona, Spain

Message from the Editor-in-Chief

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Life Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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