

## Special Issue

# Bispecific Antibodies: Design, Isolation, Perspectives of Use

### 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.

### Guest Editor

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