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Company: Chiome Bioscience Inc.

Representative: Shigeru Kobayashi, President & CEO  
(Code: 4583, Tokyo Stock Exchange Mothers)

### **Release of Research Publication using Tribody™ Technology onto Cancer Immunotherapy from Chiome Bioscience in collaboration with Ceinge**

The publication is released on a basis of the research using our Tribody™ technology. Tribody™ technology is one of our platform antibody engineering technologies that can generate multi-specific antibody applying for cancer immunotherapy. The research outcomes are published at International Journal of Molecular Sciences.

This research is conducted in collaboration with Ceinge Biotecnologie Avanzate (“Ceinge”), a non-profit consortium research organization in Italy. We constructed novel bi-specific tribodies targeting different molecules involved in immune checkpoints. The tribody exhibited the retained binding activity to each target, increased immuno-modulatory effect to induce lymphocyte activation, and enhanced *in vitro* cytotoxicity against tumor cells. Tribody™ format could also reduce the production costs. Also, the molecular size is well suited for both tumor penetration and an acceptable half-life. Tribody could offer useful therapeutic applications, particularly in monotherapy-resistant cancer patients.

#### ➤ Publication

**Title :** Novel Bi-Specific Immuno-Modulatory Tribodies Potentiate T Cell Activation and Increase Anti-Tumor Efficacy

**Authors :** Margherita Passariello, Asami Yoshioka, Kota Takahashi, Shu-ichi Hashimoto, Rosa Rapuano Lembo, Lorenzo Manna, Koji Nakamura and Claudia De Lorenzo

**Journal :** International Journal of Molecular Sciences  
<https://www.mdpi.com/1422-0067/23/7/3466>

#### <About Ceinge-Biotecnologie Avanzate>

Ceinge is a non-profit consortium research organization in Naples, with entirely public capital, founded in 1983.

Ceinge operates in the field of molecular biology and advanced biotechnology applied to Human Health. It is an excellence in Italy and abroad for the Research and Diagnostics of genetic diseases .

#### <About Tribody™>

The Tribody™ technology enables the generation of multi-specific antibody products. This unique technology overcomes the key shortcomings of conventional mono- as well as of currently developed bi-specific antibody formats. Tribody™ enables creation of unique antibody by building multi-binding sites that bind to different antigen or epitope, which differentiate from conventional antibody. It is expected to generate antibodies against targets that could not be made into pharmaceuticals, and to generate antibodies that can be released from the combination drugs therapy.

**【Inquiries】**

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