

Special Issue on
**Engineered Antibody Derivatives/Conjugates for
Molecular Imaging**

CALL FOR PAPERS

In the past two decades, antibodies become major participants in different biomedical applications including biofunctional investigation, disease detection/diagnosis, and therapeutic intervention. Although traditional full-size antibodies possess optimal target affinity/specificity, factors like their relatively large molecular size, long circulation retention, and off-target organ absorption can potentially limit their applications. Thus, different engineering methods have been proposed to form various antibody conjugates (or derivatives) to improve their performance in a given scenario, especially relevant to imaging and therapeutic delivery. To help researchers better understand the benefits brought by these antibody derivatives/conjugates, we would like to launch a special issue that focuses on the imaging applications of these antibody derivatives/conjugates. Representative candidates include diabody, minibody, nanobody, antibody-drug conjugates, and antibody-nanomaterial conjugates. The production and engineered methods will also be discussed for each of these antibody derivatives/conjugates.

This special issue will be highly interesting to scientists and clinicians who are working on bench-to bedside translation, including biochemists, oncology clinicians, molecular biologists, imaging scientists, pharmaceutical developers, and physicists. Both academic and clinical researchers are invited to submit their manuscripts.

Potential topics include but are not limited to the following:

- ▶ Engineering methods for developing antibody conjugates or derivatives for imaging purposes
- ▶ Chemistry involved in imaging probe generation from antibody conjugates/derivatives
- ▶ Chemoselective and regiospecific radiolabeling methods for antibodies and antibody derivatives
- ▶ Antibody-nanomaterial conjugates for imaging and therapeutic delivery
- ▶ Molecular imaging with antibody-mediated pretargeting techniques
- ▶ Antibody-drug conjugates
- ▶ Translational medicine research on new antibody-derived imaging probes and therapeutics
- ▶ New clinical application of engineered antibody derivatives/conjugates

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/bmri/molecular.imaging/ead/>.

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Friday, 6 January 2017

First Round of Reviews

Friday, 31 March 2017

Publication Date

Friday, 26 May 2017