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# "Distribution of I-125-IgG in normal and induced inflammation in mice "

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## Abstract:

Antibodies are a diverse class of glycoproteins that specially bind with antigen and elicit a number of secondary responses in vivo. Most of the applications of antibodies in basic research diagnosis and immunotherapy rely on labeling of the antibody with radiopharmaceuticals. Radiolabeled antibodies are a new class of imaging agents for the detection of sites of disease. True biodistribution of IgG has a great importance to develope antibody conjugates for delivering radionuclides or drugs to desired sites. In this study, IgG was iodinated by chloramine-T method. Injecting turpentine in the left thigh of mice induced inflammation. Distribution of I-125-IgG in normal and induced inflammation mice was assessed. Results showed the accumulation of I-125-IgG in inflammed muscle was more than normal muscle.

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