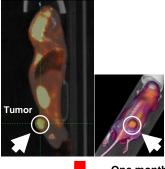
Details about Preclinical

Chronological evaluation of new antitumor drug effects in mouse models of tumor

18F-FDG PET Imaging

Pre-treatment



One month after treatment

Post-treatment



Glucose metabolism decreased in the tumor after treatment with a new drug.



Quantitative evaluation of the myocardial infarction region in mouse models of myocardial infarction

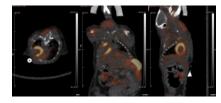
99mTc-tetrofosmin (TF) myocardial perfusion imaging

TTC staining of the mouse myocardium



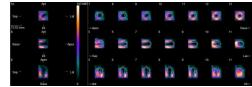
SPECT/CT image

(static)



It is possible to quantify the fraction of blood flow showing a loss or a decrease in a mouse model of myocardialinfarction

Image analysis of mouse myocardium segmentation



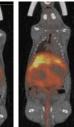


Evaluation of pharmacokinetics with different drug structures in mice

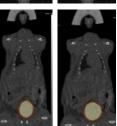
64Cu labeled nucleic acid PET imaging



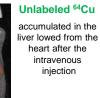








Time

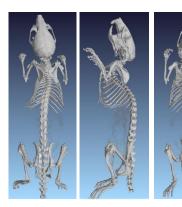


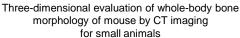
64Cu-labeled nucleic acid

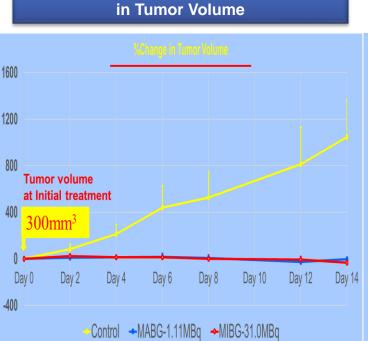
nucleic acid was promptly excreted from the kidneys into the urine after flowing from the heart and throughout the whole bod after the intravenous injection

Evaluation of whole-body bone morphology of mouse

CT imaging of whole-body mouse skeleton

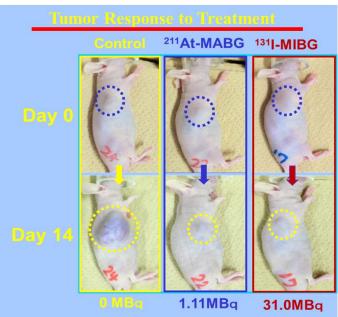




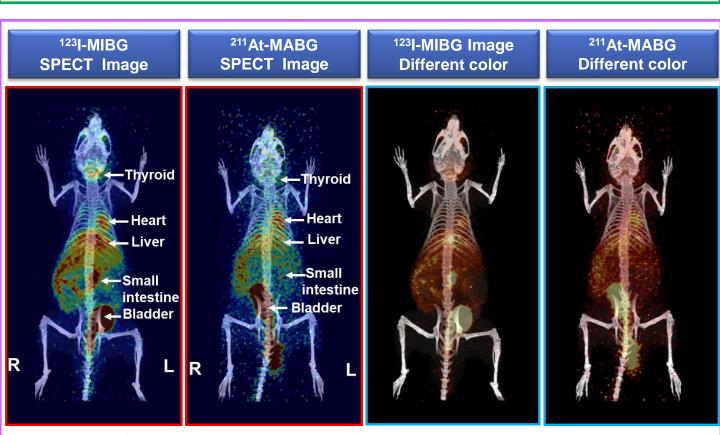


%Chamge

Tumor Response to ²¹¹At-MABG/ 131I-MIBG Treatment



- At 14 days after radiopharmaceutical administration, ²¹¹At-MABG produced significant tumor volume reduction as compared to that in the control group.
- ²¹¹At-MABG had a tumor-reducing effect similar to that associated with ¹³¹I-MIBG, which is considered one of the current treatment options.
 Zhao S, et al.J Nucl Med. 2020;61(Supp 1):1316
 SNMMI 2020 Poster Award: 1st place



- At 1h post ¹²³I-MIBG injection; At 1h post ²¹¹At-MABG injection (post 1 half-life imaging)
- SPECT images of ¹²³I-MIBG and ²¹¹At-MABG distribution in normal mice was very similar. Zhao S, et al. JSNM 2019