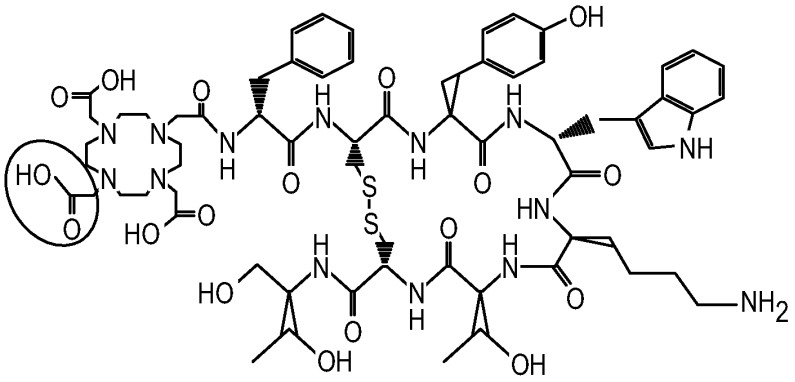
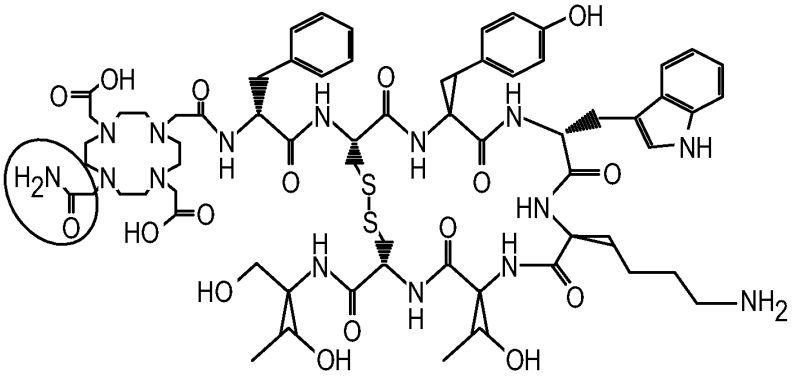


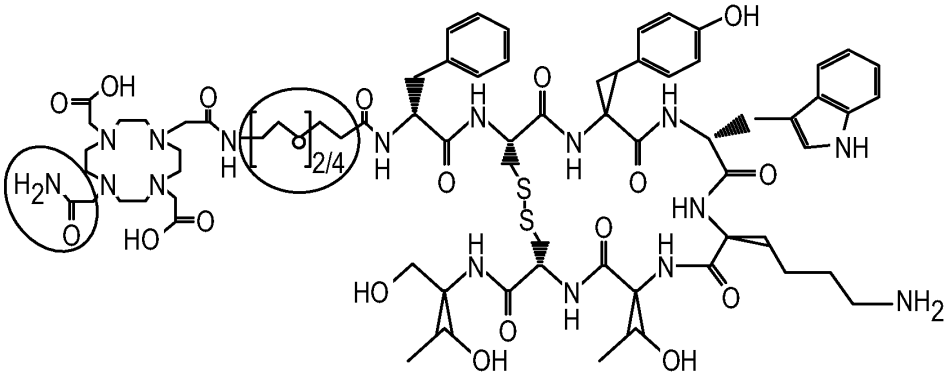
DOTATOC

FIG. 1A



PSCTOC

FIG. 1B



PSC-PEG_2/PEG_4-TOC

FIG. 1C

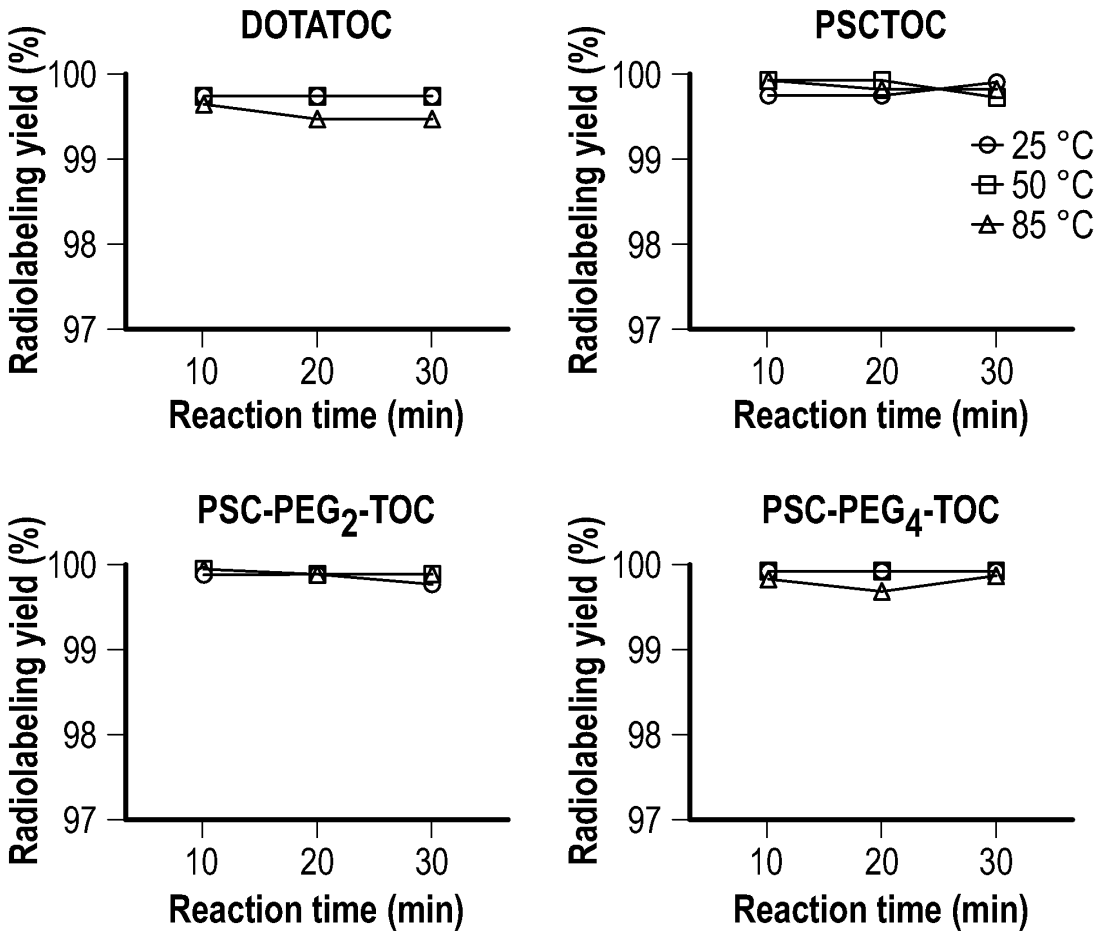

DOTATOC
PSCTOC
PSC-PEG2-TOC
PSC-PEG4-TOC
Radiolabeling yield (%)
100
99
98
97
10
20
30
Reaction time (min)
25 °C
50 °C
85 °C

FIG. 2A

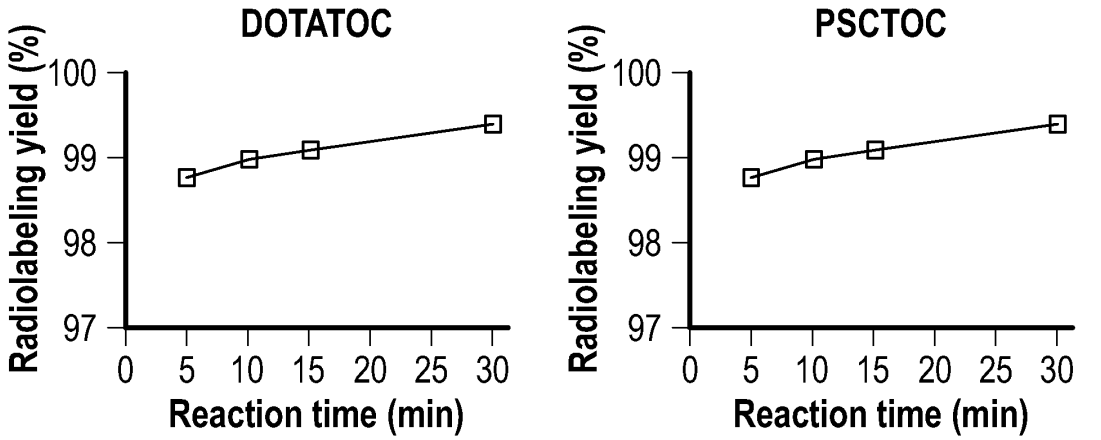

DOTATOC
PSCTOC
Radiolabeling yield (%)
100
99
98
97
0
5
10
15
20
25
30
Reaction time (min)

FIG. 2B

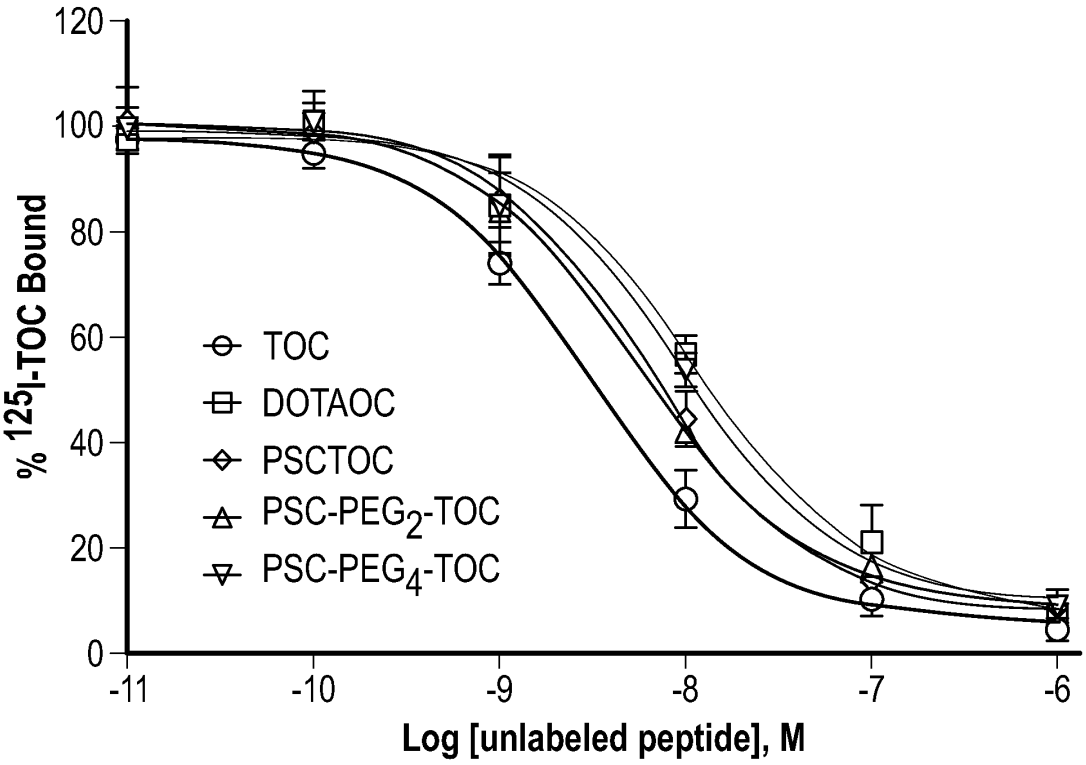

120
100
80
60
40
20
0
% 125I-TOC Bound
TOC
DOTAOC
PSCTOC
PSC-PEG2-TOC
PSC-PEG4-TOC
-11
-10
-9
-8
-7
-6
Log [unlabeled peptide], M

FIG. 3

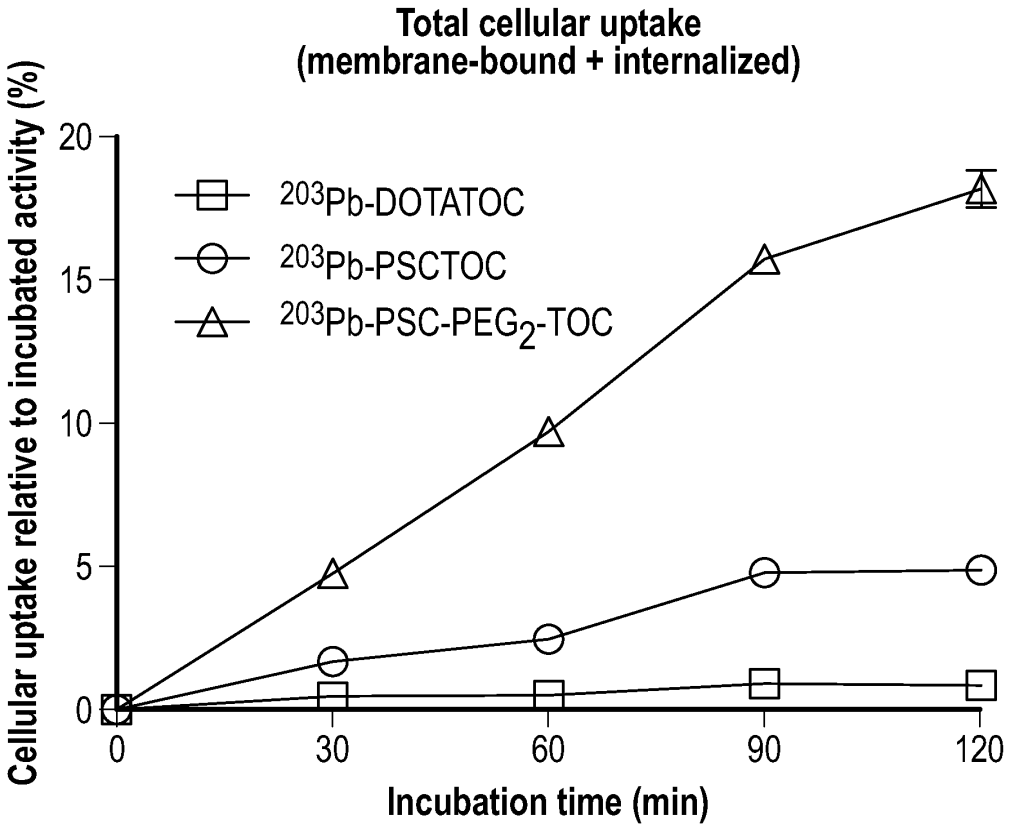

Total cellular uptake
(membrane-bound + internalized)
Cellular uptake relative to incubated activity (%)
20
15
10
5
0
0
30
60
90
120
Incubation time (min)
203Pb-DOTATOC
203Pb-PSCTOC
203Pb-PSC-PEG2-TOC

FIG. 4

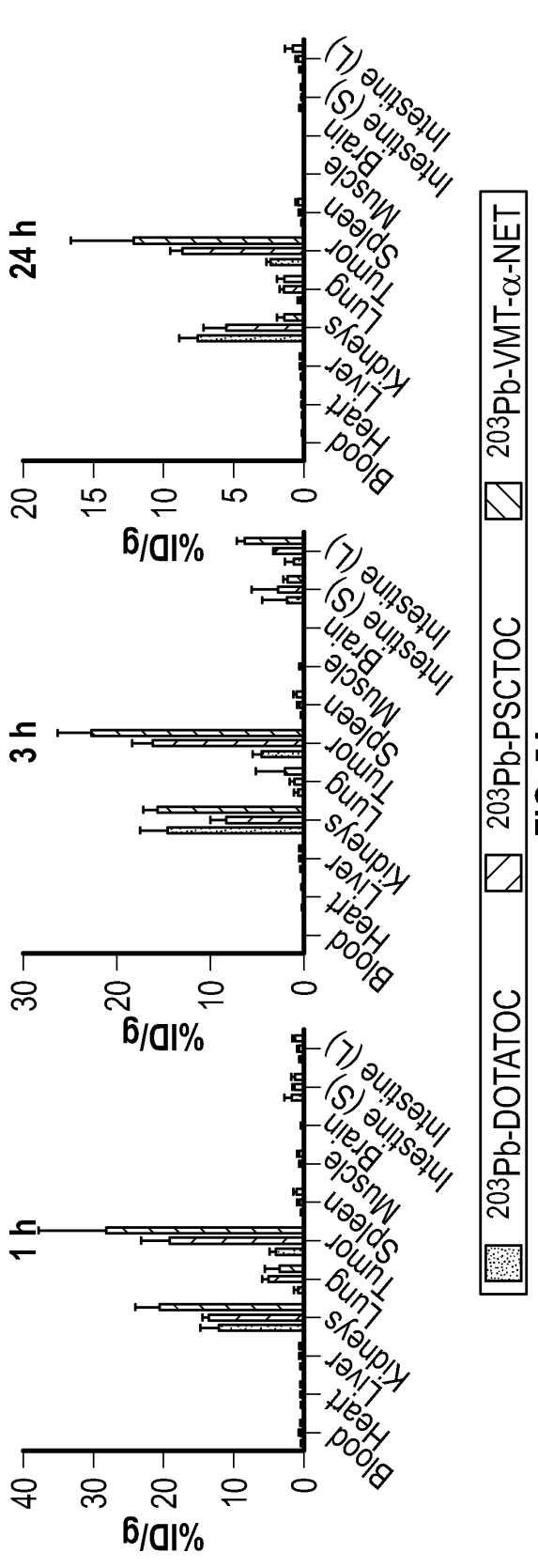

24 h
3 h
1 h
%ID/g
Blood
Heart
Liver
Kidneys
Lung
Tumor
Spleen
Muscle
Brain
Intestine (S)
Intestine (L)
203Pb-DOTATOC
203Pb-PSCTOC
203Pb-VMT-α-NET

FIG. 5A

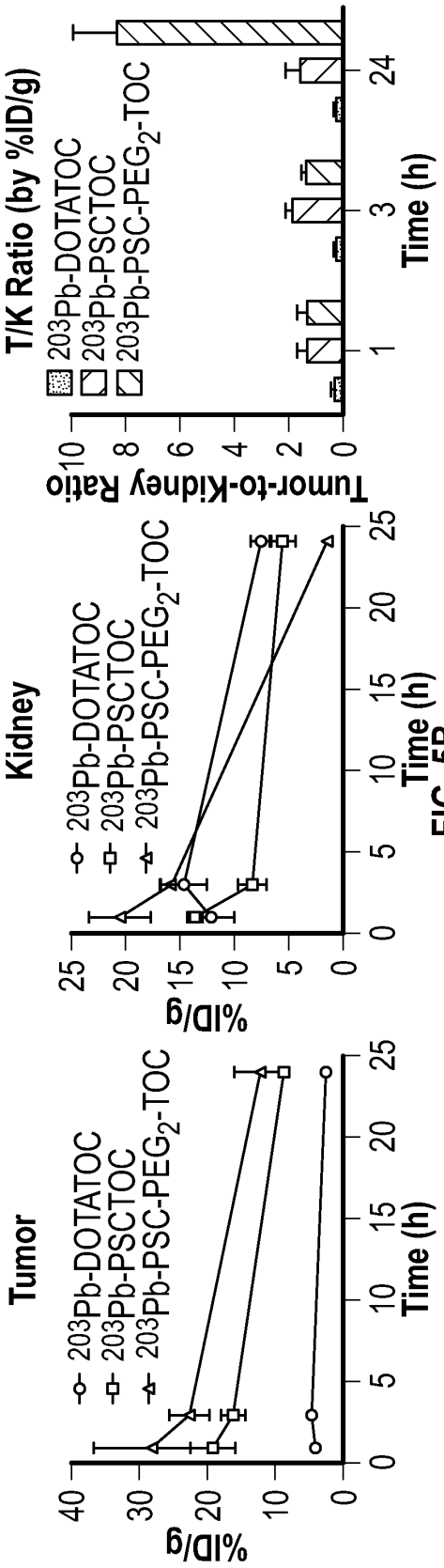

T/K Ratio (by %ID/g)
Tumor-to-Kidney Ratio
203Pb-DOTATOC
203Pb-PSCTOC
203Pb-PSC-PEG2-TOC
Time (h)
Kidney
Tumor
%ID/g

FIG. 5B

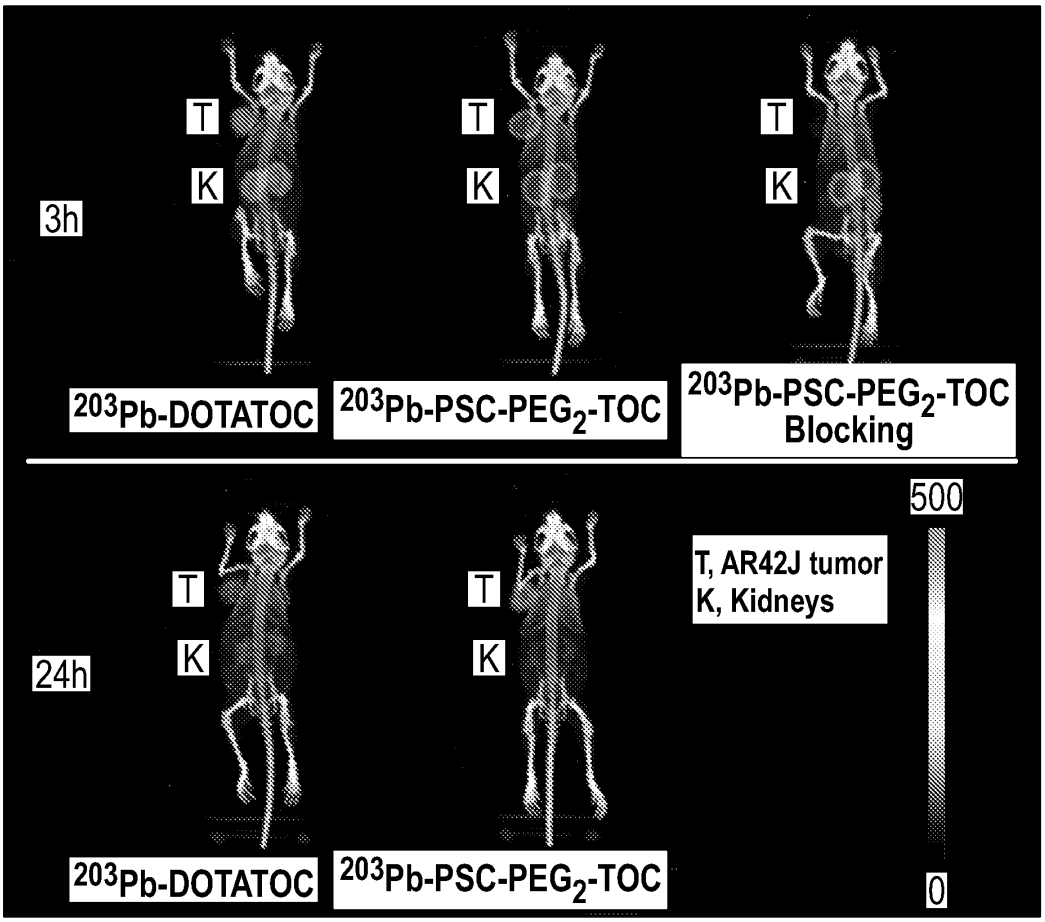


FIG. 6A

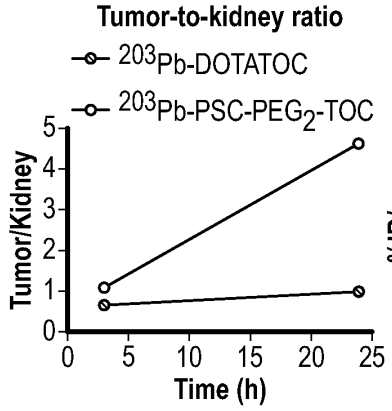


FIG. 6B

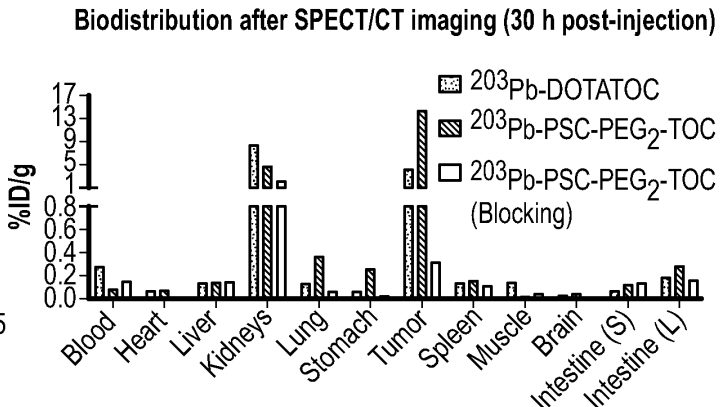


FIG. 6C

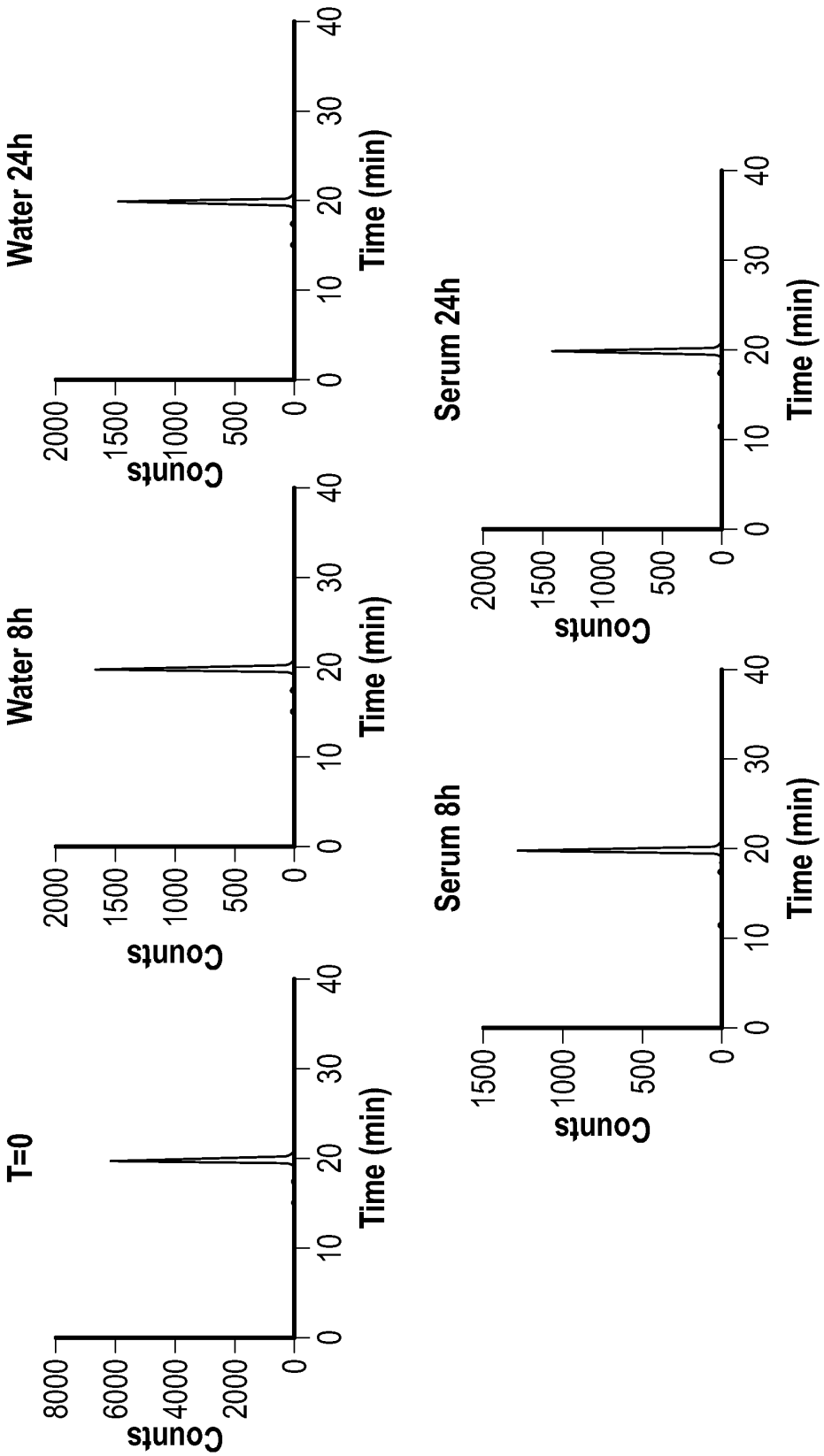

T=0
Water 8h
Water 24h
Serum 8h
Serum 24h
Counts
Time (min)
0
2000
4000
6000
8000
500
1000
1500
10
20
30
40

FIG. 7

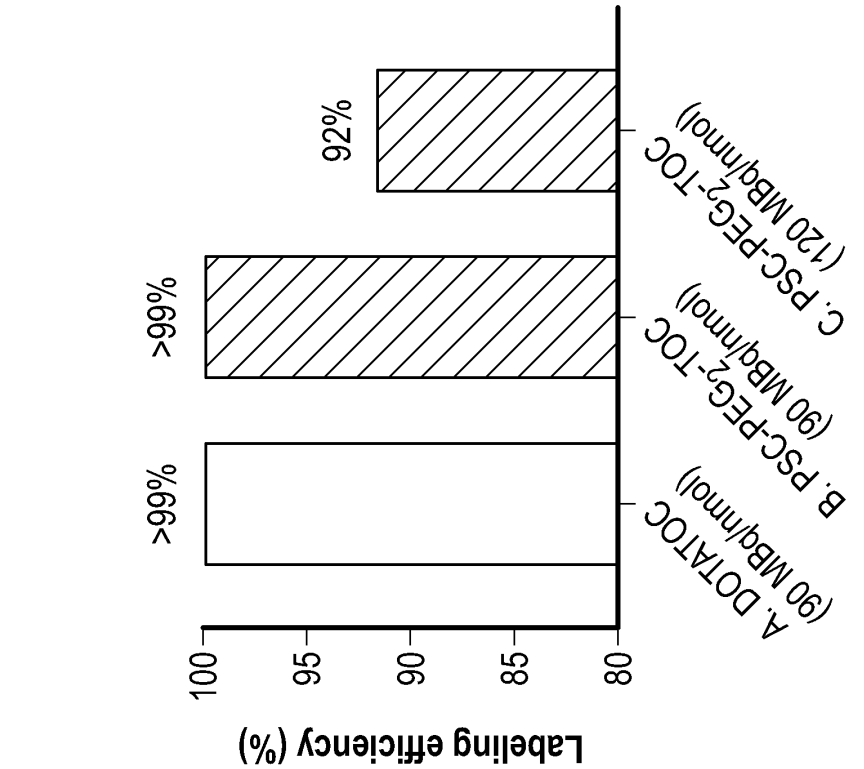
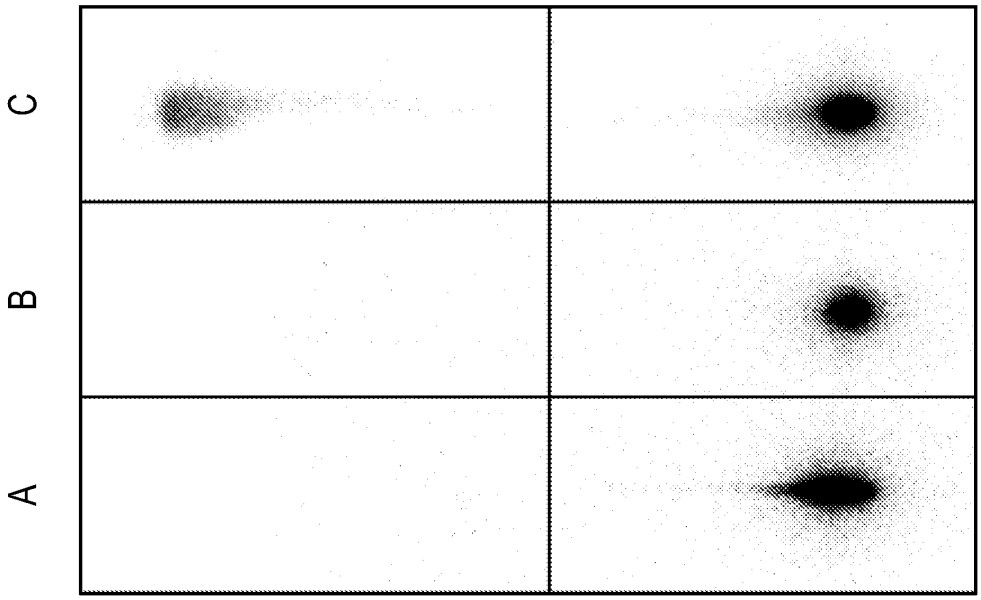

Labeling efficiency (%)
100
95
90
85
80
>99%
>99%
92%
A. DOTATOC (90 MBq/mmol)
B. PSC-PEG2-TOC (90 MBq/mmol)
C. PSC-PEG2-TOC (120 MBq/mmol)

FIG. 8


A
B
C

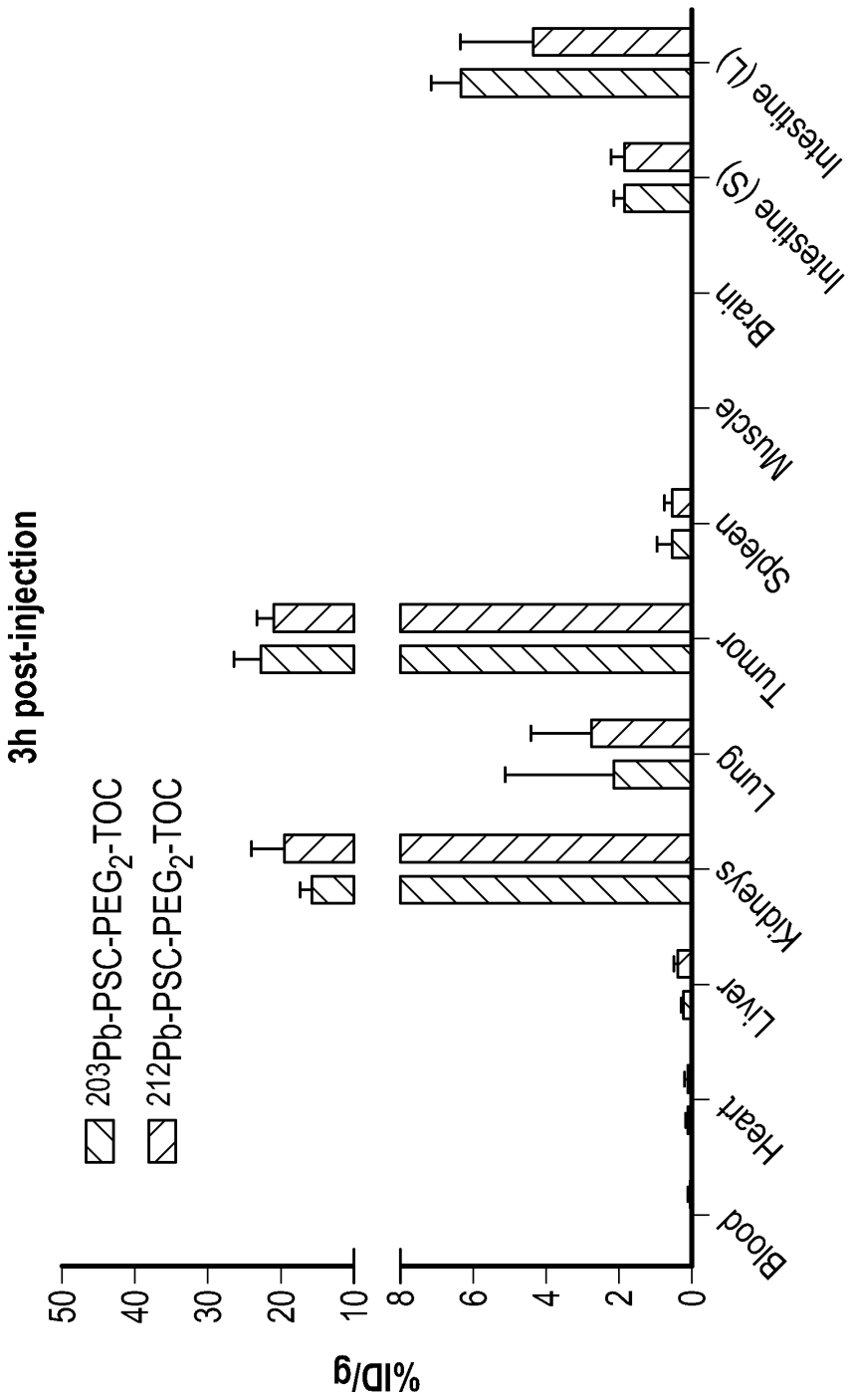

3h post-injection
^{203}Pb-PSC-PEG$_2$-TOC
^{212}Pb-PSC-PEG$_2$-TOC
%ID/g
50
40
30
20
10
8
6
4
2
0
Blood
Heart
Liver
Kidneys
Lung
Tumor
Spleen
Muscle
Brain
Intestine (S)
Intestine (L)

FIG. 9

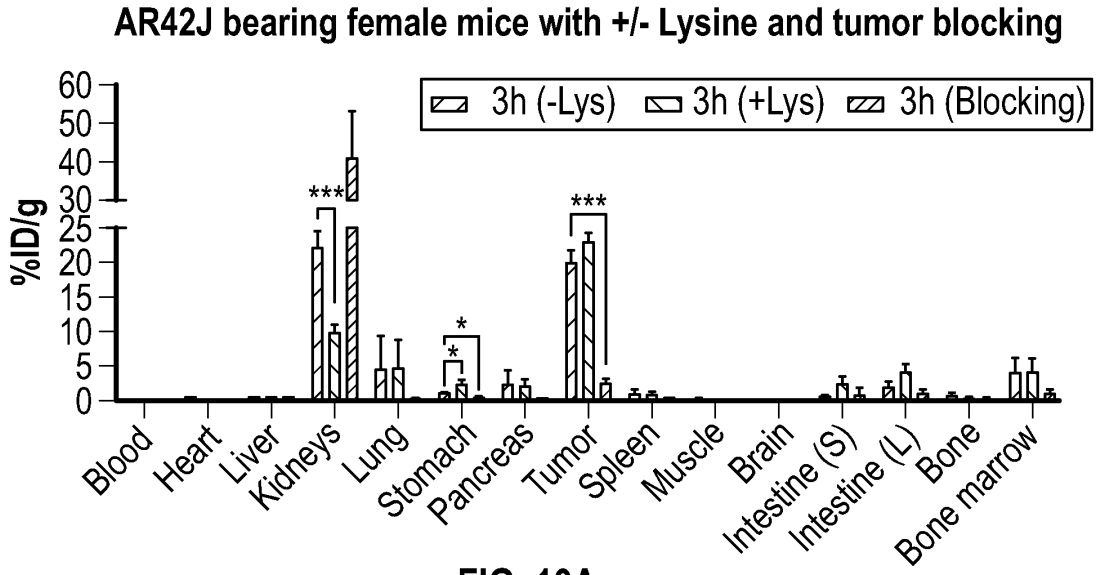


FIG. 10A

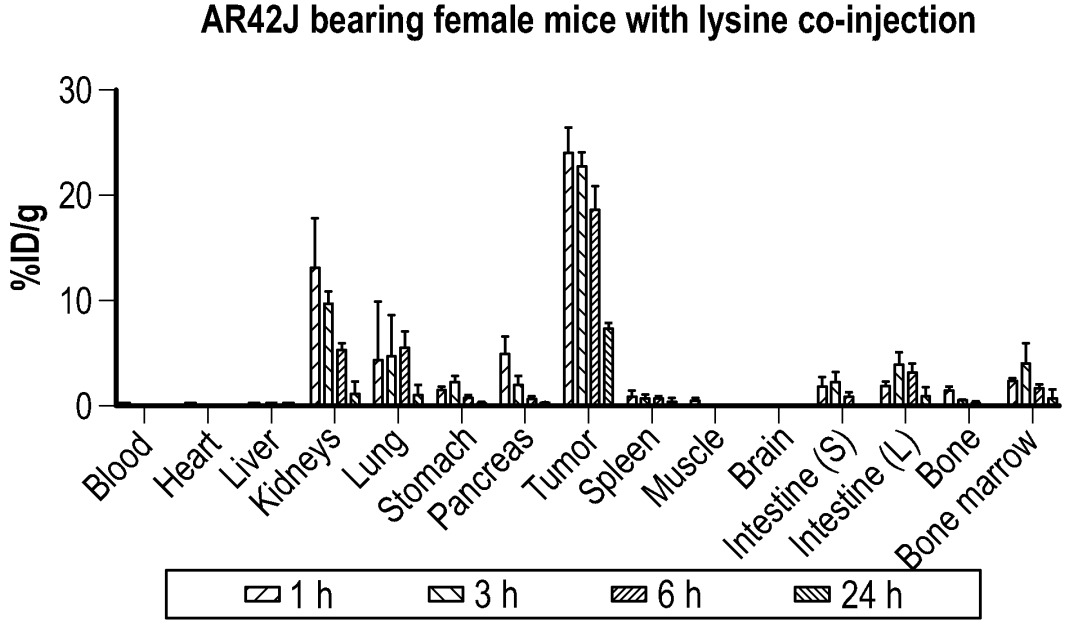


FIG. 10B

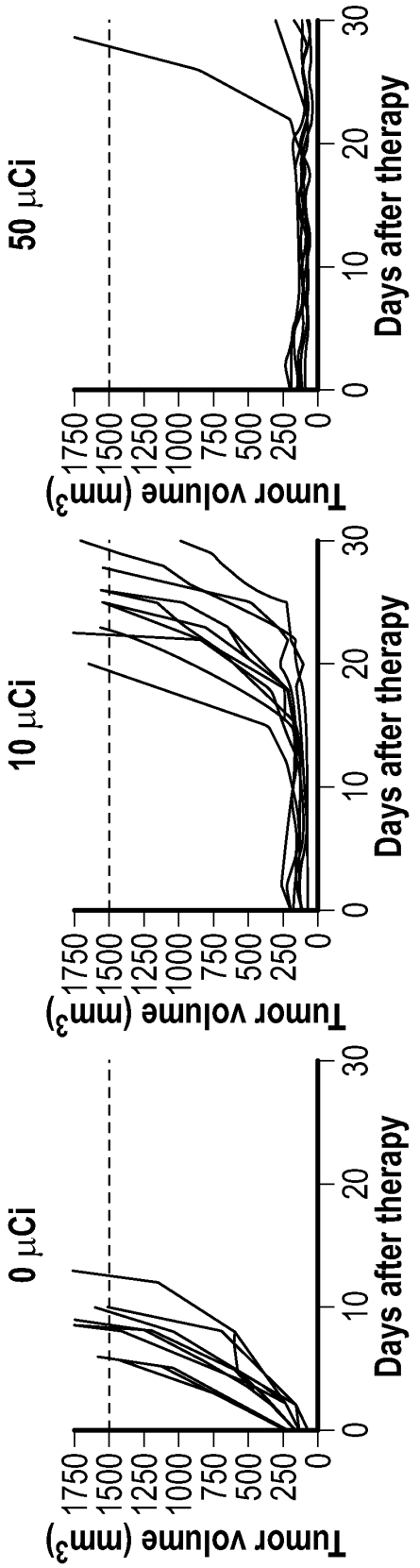


FIG. 11A

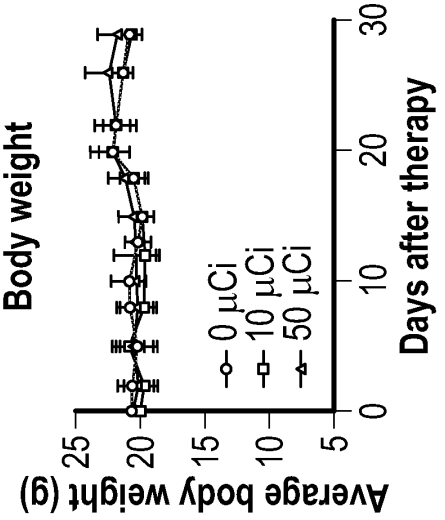


FIG. 11C

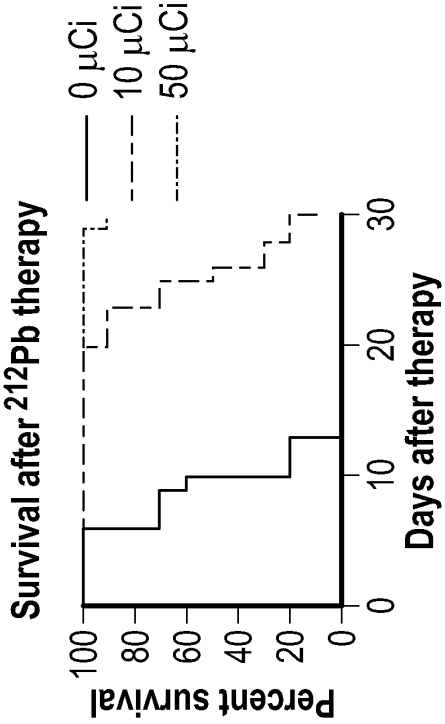


FIG. 11B

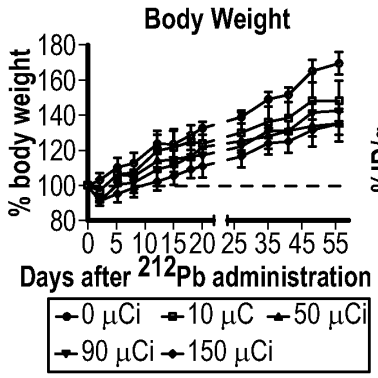


FIG. 12A

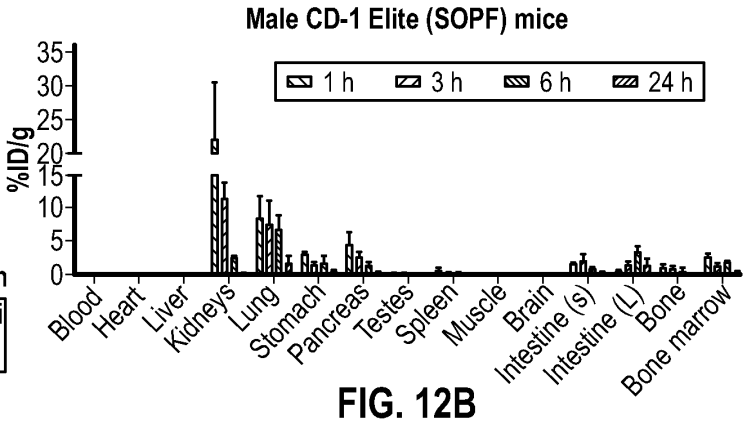


FIG. 12B

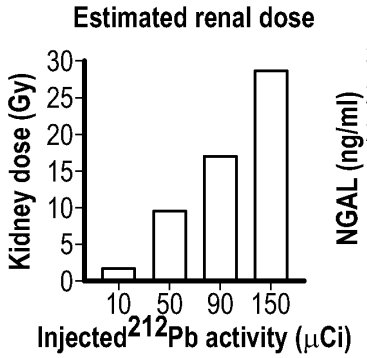


FIG. 12C

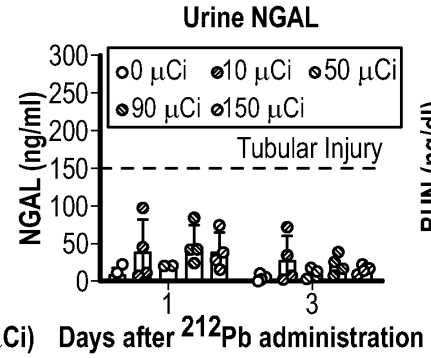


FIG. 12D

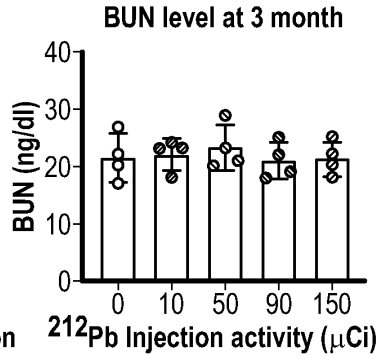


FIG. 12E

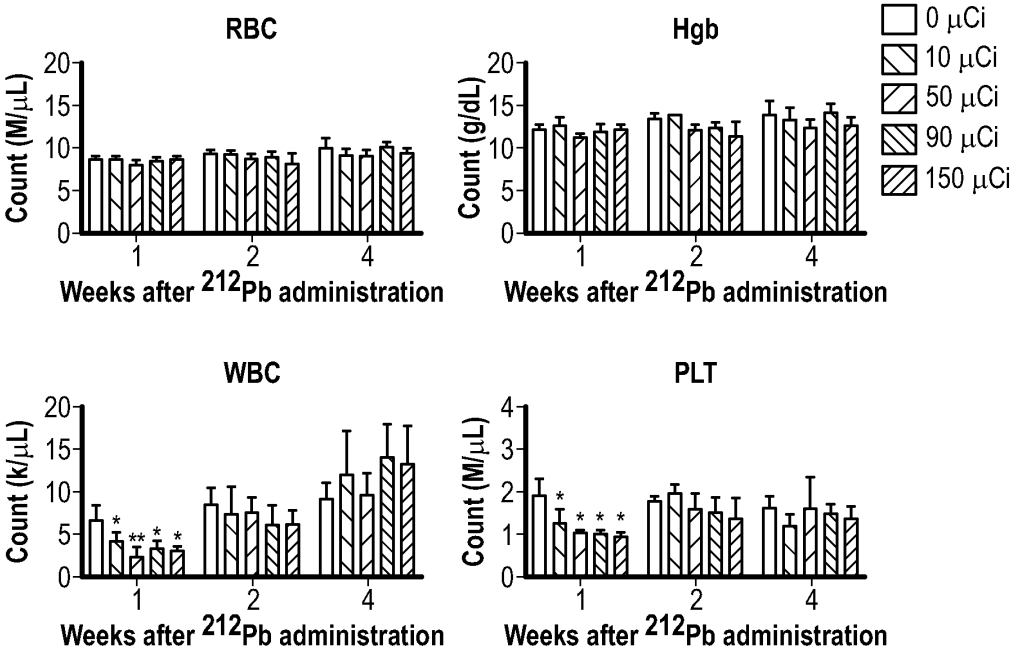


FIG. 12F