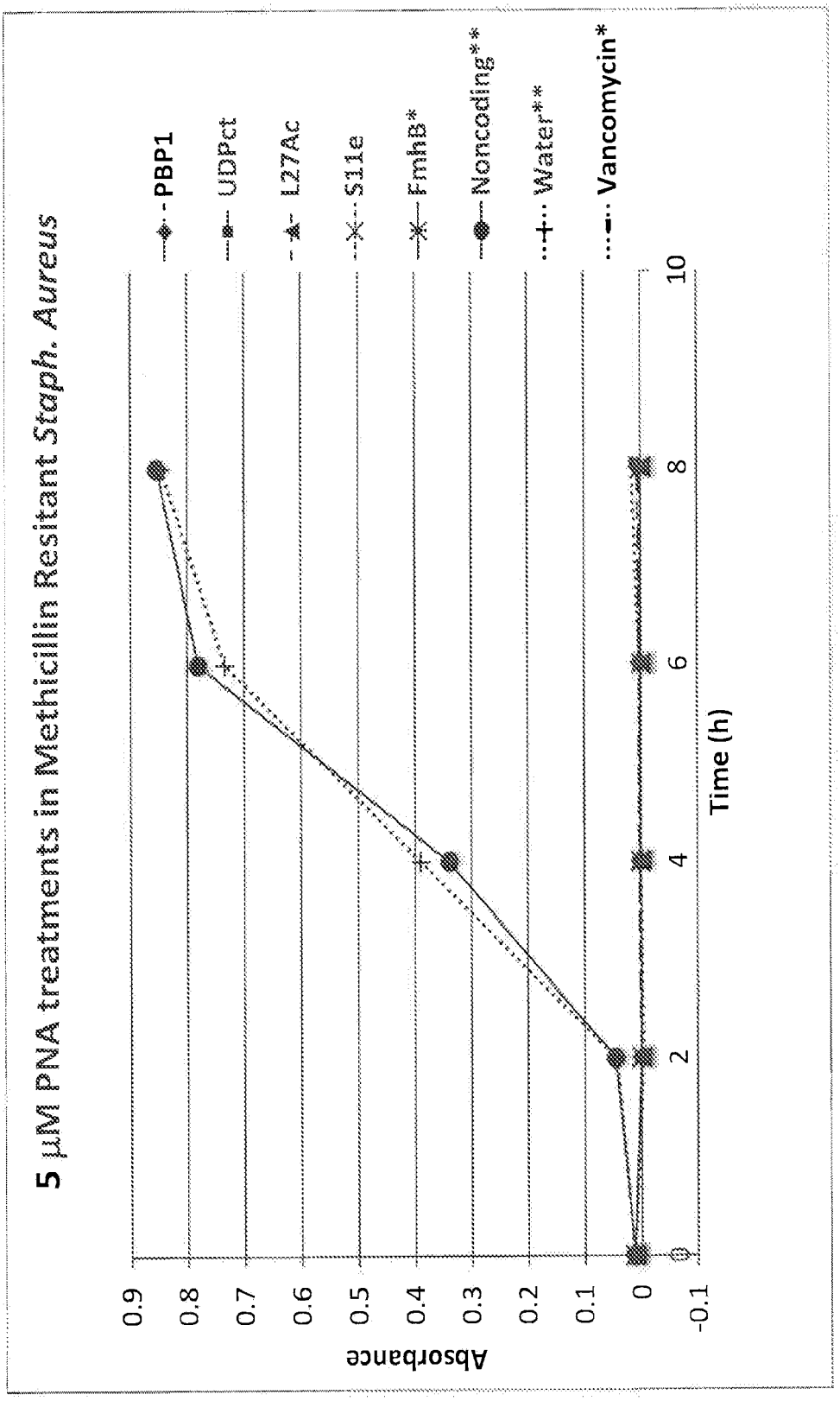
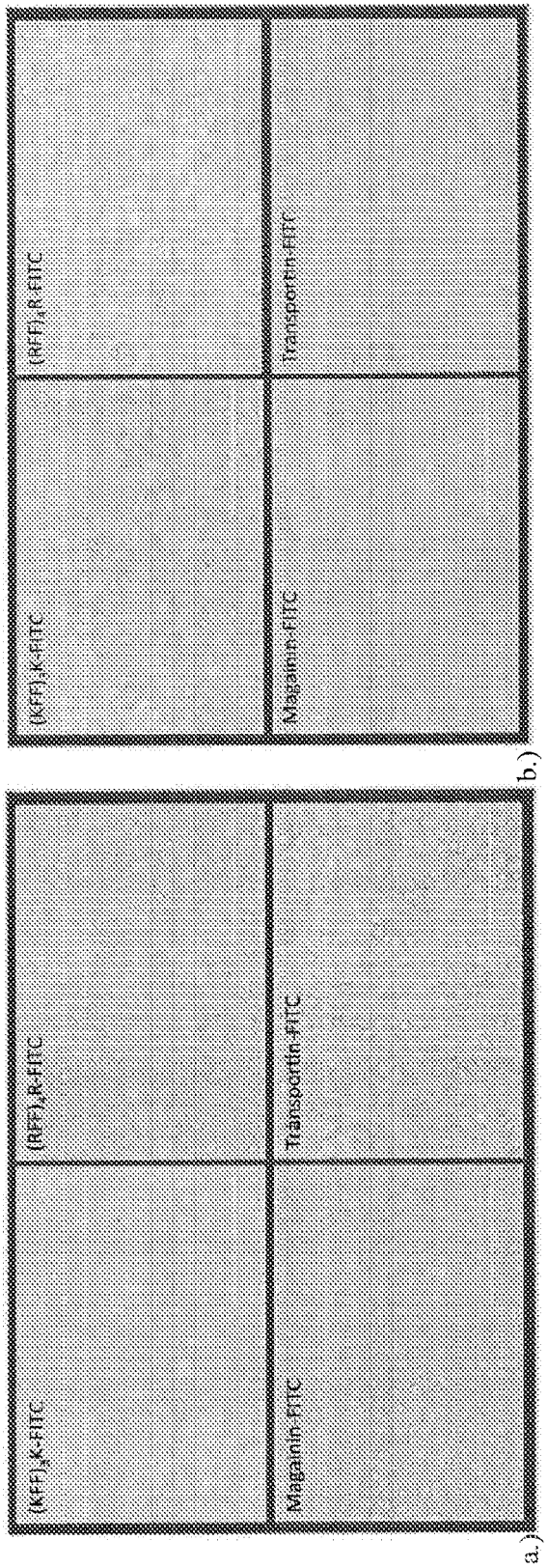

5 μM PNA treatments in Methicillin Resitant Staph. Aureus
PBP1
UDPct
L27Ac
S11e
FmhB*
Noncoding**
Water**
Vancomycin*
Absorbance
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
Time (h)
0
2
4
6
8
10

FIGURE 1



FIGURES 2A - 2B

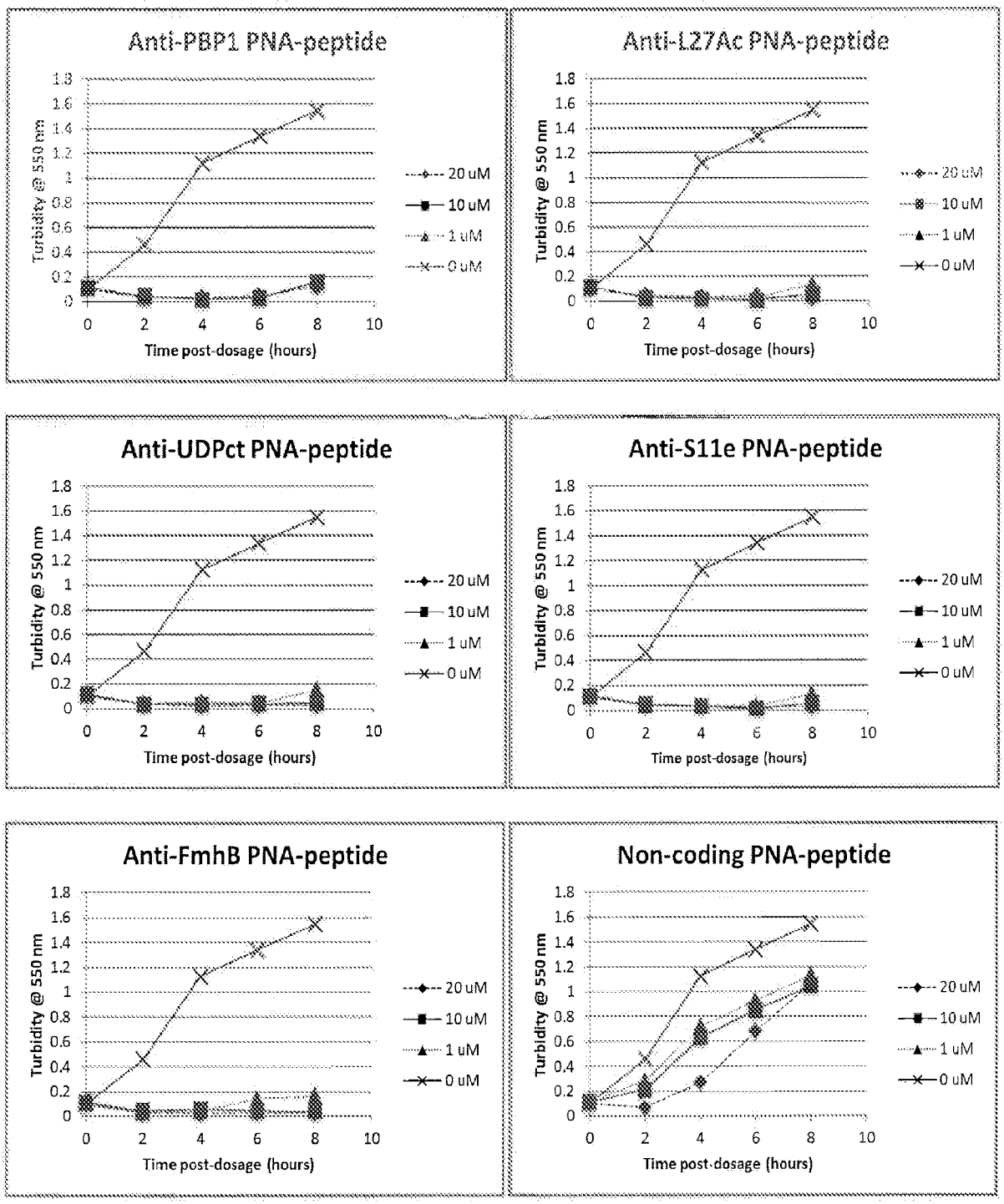

Anti-PBP1 PNA-peptide
Anti-L27Ac PNA-peptide
Anti-UDPct PNA-peptide
Anti-S11e PNA-peptide
Anti-FmhB PNA-peptide
Non-coding PNA-peptide
Turbidity @ 550 nm
Time post-dosage (hours)
20 uM
10 uM
1 uM
0 uM

FIGURE 3

Group #	N	Agent	Dose level (mg/kg)	Volume	Route of Admin.	Dosing Schedule	Terminal bleed (for serum) times	Tissue harvest
1	15	Vehicle (PBS)	N/A	0.2 ml	IV	qd x 1	3 mice/group: • 15 min. • 30 min. • 1 hr. • 4 hr. • 12 hr.	Harvest liver, kidney, lung, and spleen; snap freeze and store at -80°C
2	15	Anti-PBP1 PNA-peptide	1	0.2 ml	IV	qd x 1		
3	15	Anti-PBP1 PNA-peptide	3.3	0.2 ml	IV	qd x 1		
4	15	Anti-PBP1 PNA-peptide	10	0.2 ml	IV	qd x 1		

Terminally bleed 3 mice/group/time point at 15 min, 30 min, 1 hr, 4 hr, and 12 hr.

FIGURE 4

Group #	N	Agent	Dose level (mg/kg)	Volume	Route of Admin.	Dosing Schedule
1	10	Vehicle (PBS)	N/A	0.2 ml	IV	qd x 7
2	10	Anti-PBP1 PNA-peptide	10	0.2 ml	IV	qd x 7
3	10	Anti-PBP1 PNA-peptide	10	0.2 ml	IV	q2d x 4
4	10	Anti-PBP1 PNA-peptide	10	0.2 ml	IV	q3d x 3

FIGURE 5

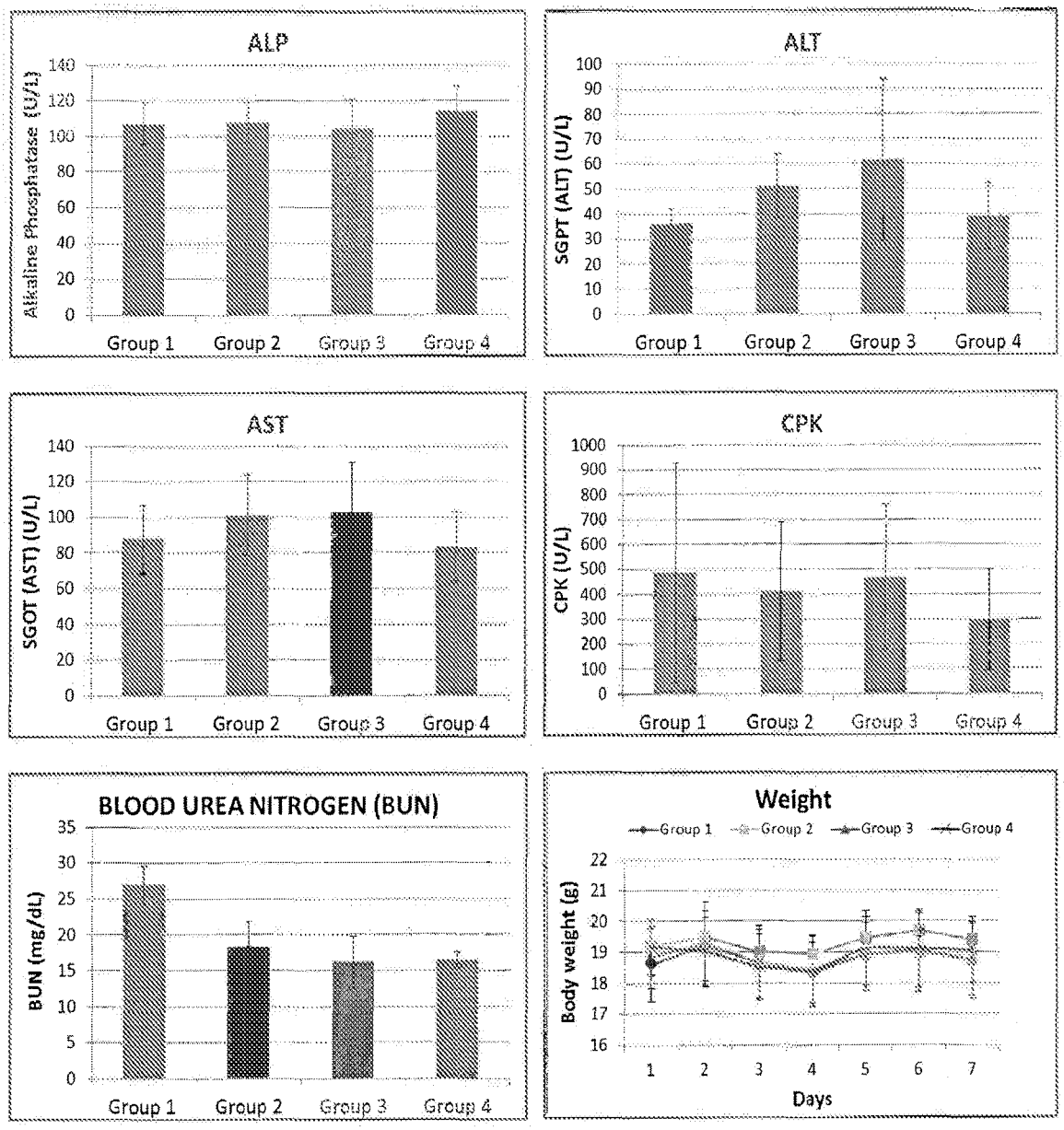

ALP
Alkaline Phosphatase (U/L)
140
120
100
80
60
40
20
0
Group 1
Group 2
Group 3
Group 4
ALT
SGPT (ALT) (U/L)
100
90
80
70
60
50
40
30
20
10
0
Group 1
Group 2
Group 3
Group 4
AST
SGOT (AST) (U/L)
140
120
100
80
60
40
20
0
Group 1
Group 2
Group 3
Group 4
CPK
CPK (U/L)
1000
900
800
700
600
500
400
300
200
100
0
Group 1
Group 2
Group 3
Group 4
BLOOD UREA NITROGEN (BUN)
BUN (mg/dL)
35
30
25
20
15
10
5
0
Group 1
Group 2
Group 3
Group 4
Weight
Group 1
Group 2
Group 3
Group 4
Body weight (g)
22
21
20
19
18
17
16
1
2
3
4
5
6
7
Days

FIGURE 6

Development of Blood Infection Mouse Model

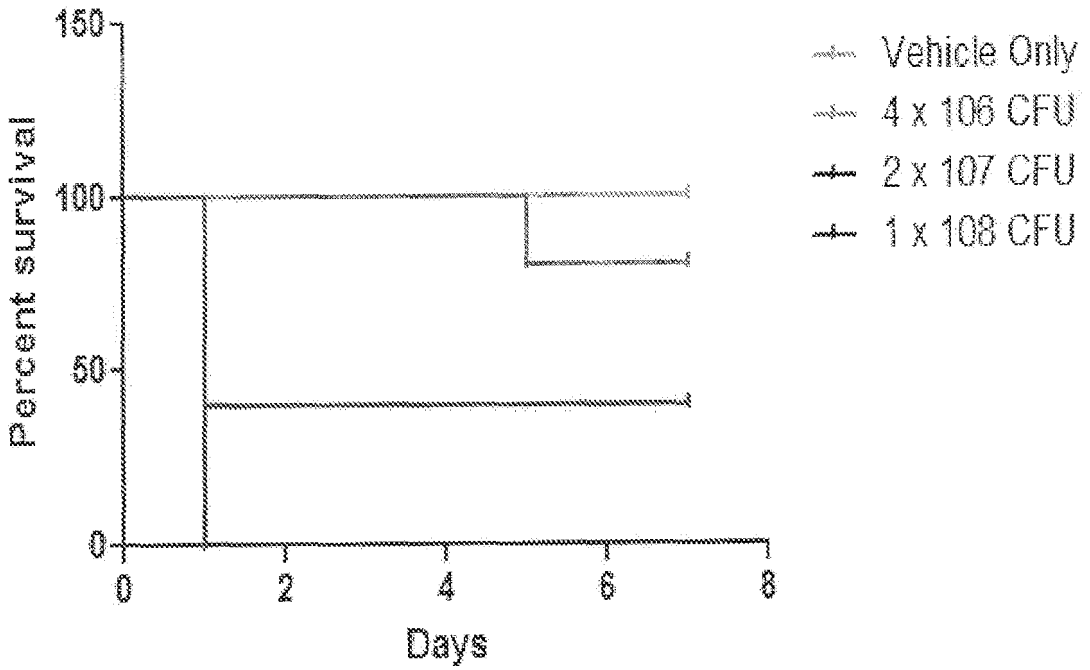


FIGURE 7

Group #	N	MRSA			Treatment				
		Dose (2×10^7 CFU/mL)	Volume (mL)	Route	Agent	Dose (mg/kg)	Volume (mL)	Route	Dose Schedule
1	10	4×10^6	0.2	IV	Vehicle (PBS)	10	0.2	IV	b.i.d X 4
2	10	4×10^6	0.2	IV	Anti-PBP1 PNA-peptide	10	0.2	IV	b.i.d. X 4
3	10	4×10^6	0.2	IV	Vancomycin	2	0.2	IV	b.i.d. X 4

FIGURE 8