
Protein A (SpA)
Signal Peptidase
IgG binding domains (IgBD)
Region X
Sortase
A.A.
S. aureus
Newman 1
USA300 1
E
D
A
B
C
520
504

FIG. 1A

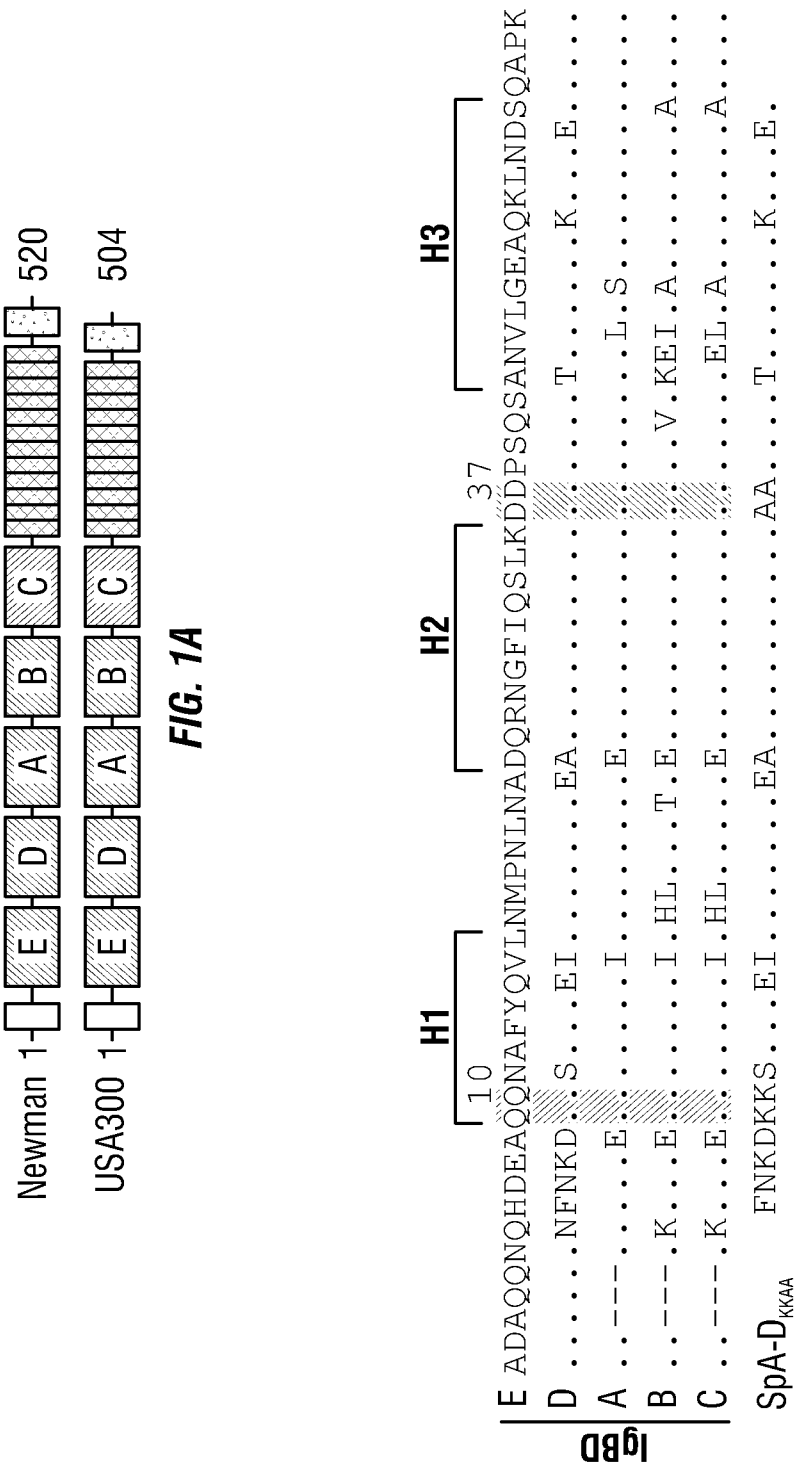

H1
H2
H3
10
37
IgBD
E ADAQQNQHDEAQQNAFYQVLNMPNLNADQRNGFIQSLKDDPSQSANVLGEAQKLNDSQAPK
D .....NFNKD..S...EI.....EA.....K...E.....
A ..---.....E.....I.....E.....L.S.....
B ..---.K...E.....I.HL...T.E.....V.KEI.A.....A.....
C ..---.K...E.....I.HL.....E.....EL.A.....A.....
SpA-D$_{KKAA}$ FNKDKKS...EI.....EA.....AA....T.....K...E.

FIG. 1B

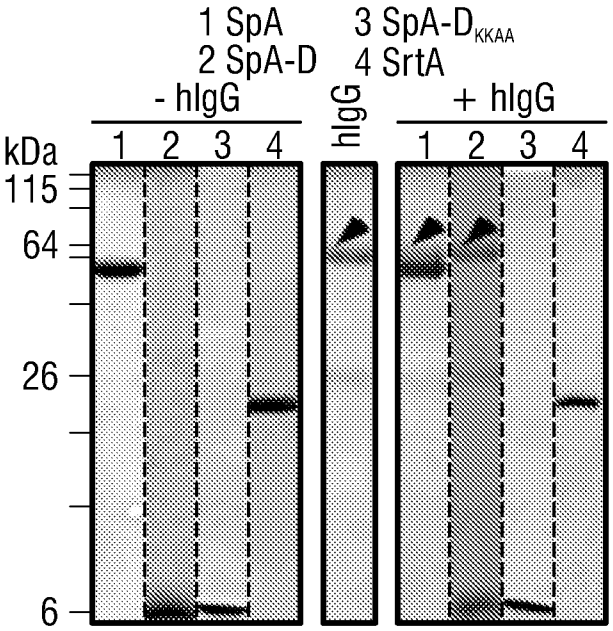


FIG. 1C

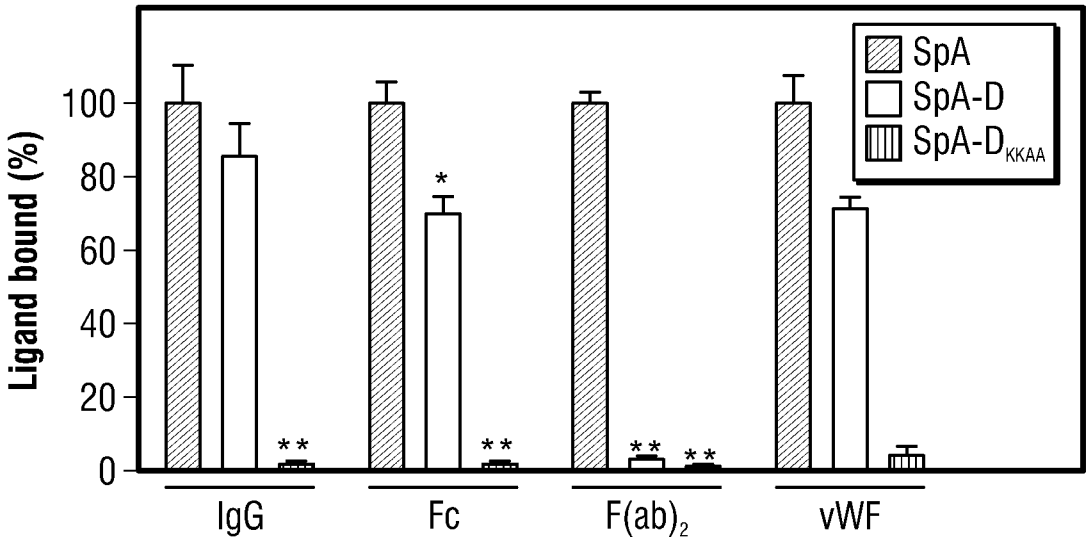


FIG. 1D

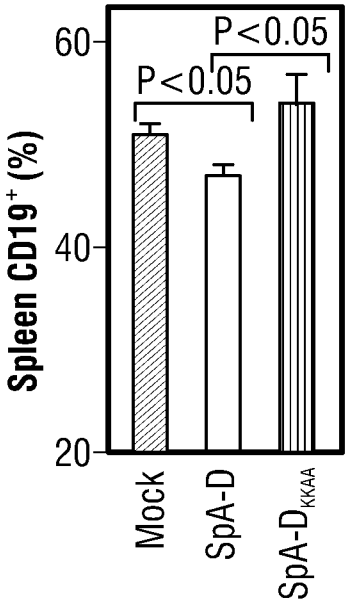


FIG. 1E

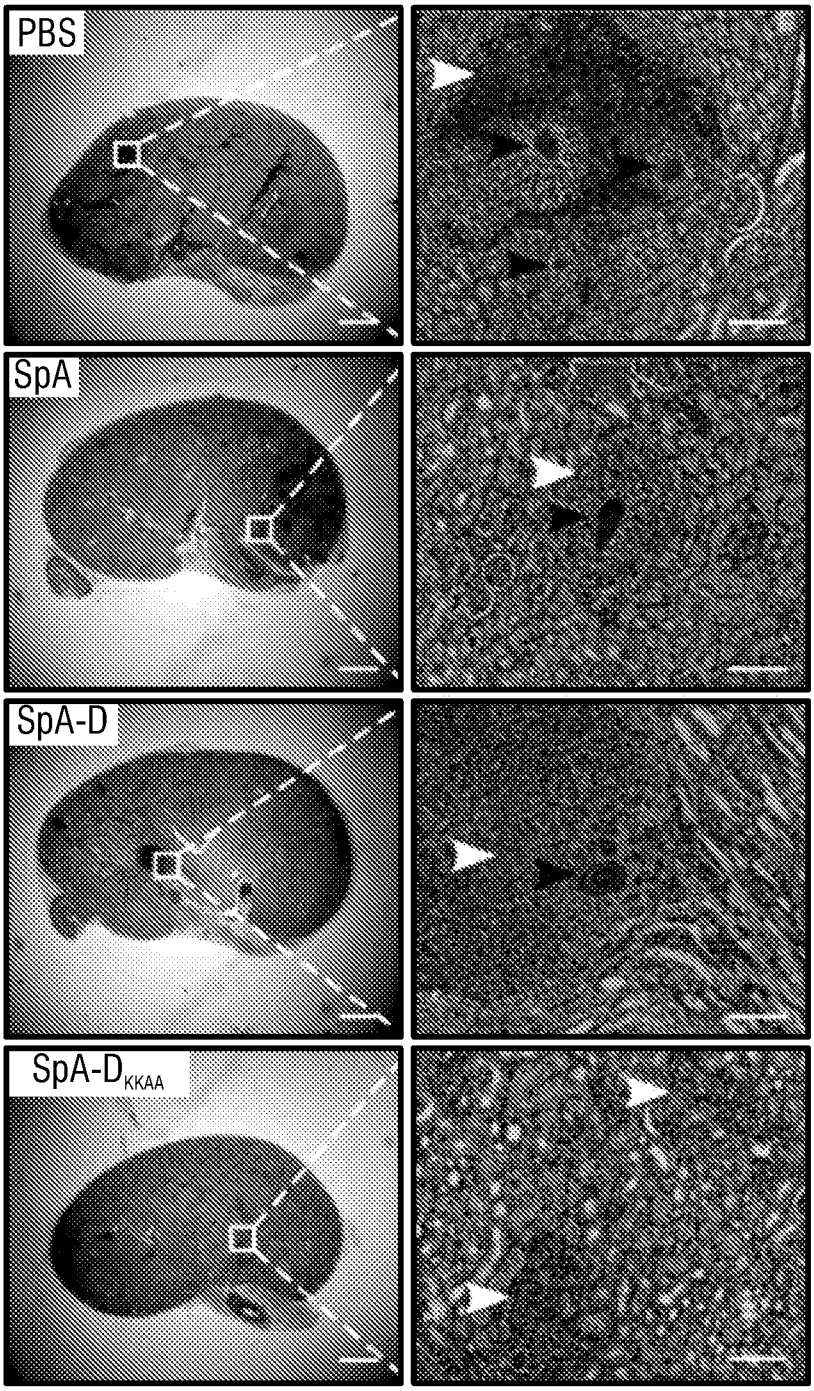


FIG. 2

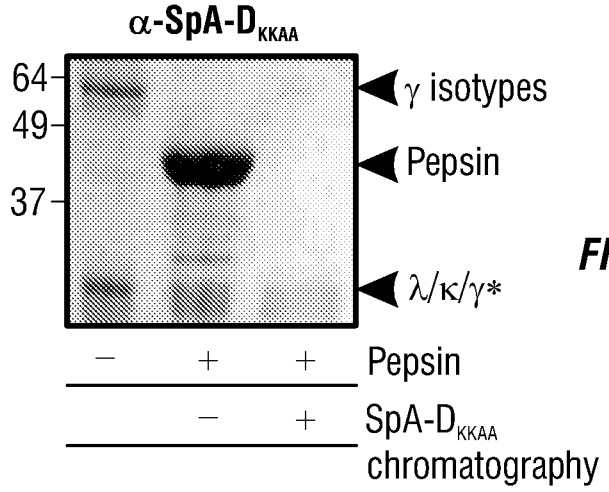


FIG. 3A

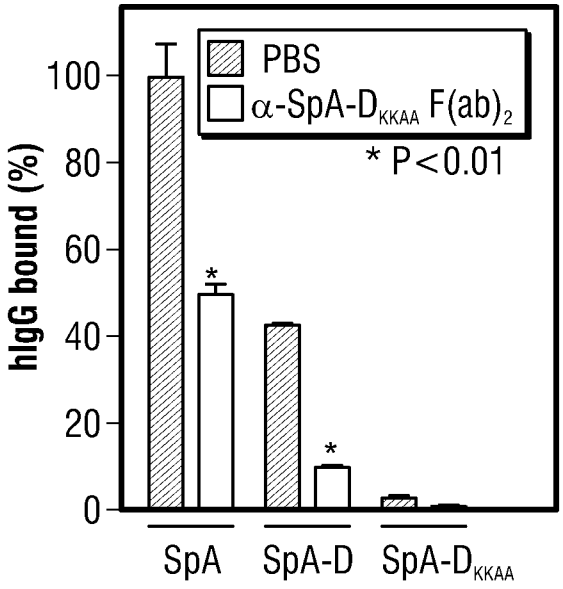


FIG. 3B

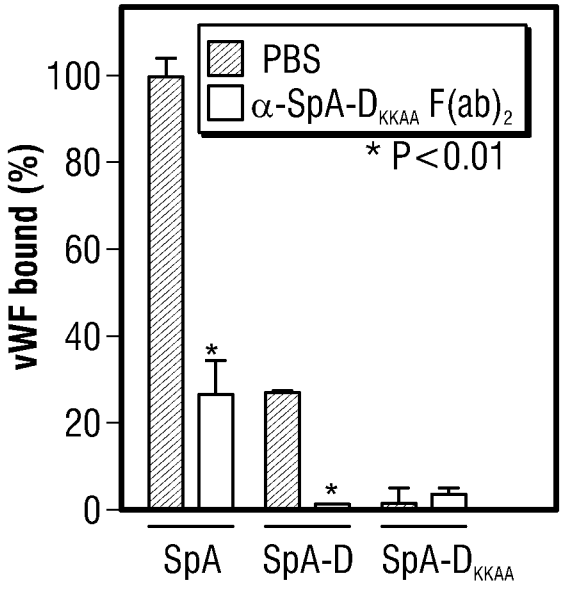


FIG. 3C

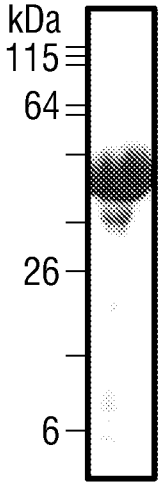


FIG. 4A

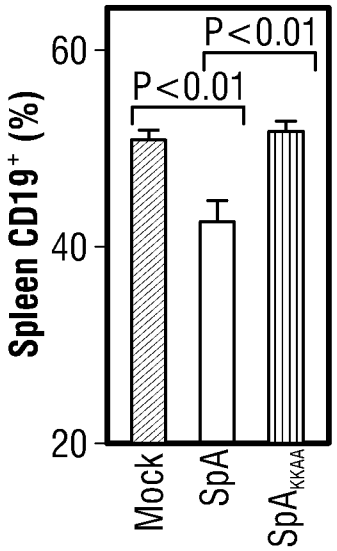


FIG. 4B

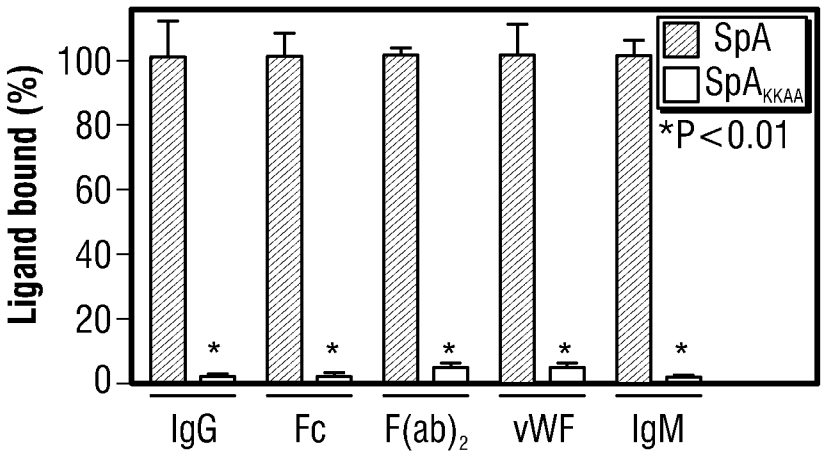


FIG. 4C

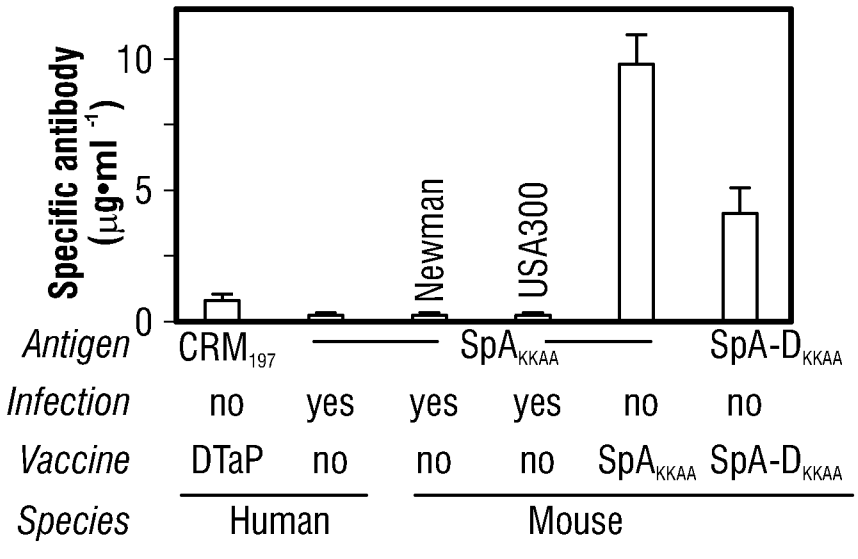


FIG. 4D

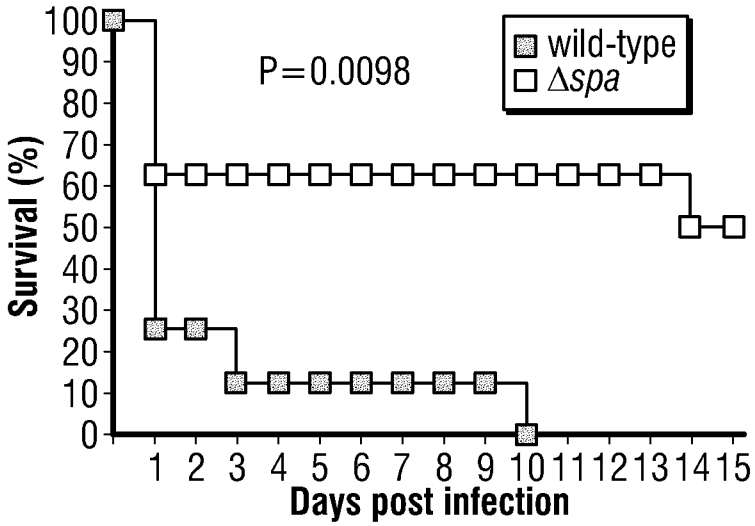


FIG. 5

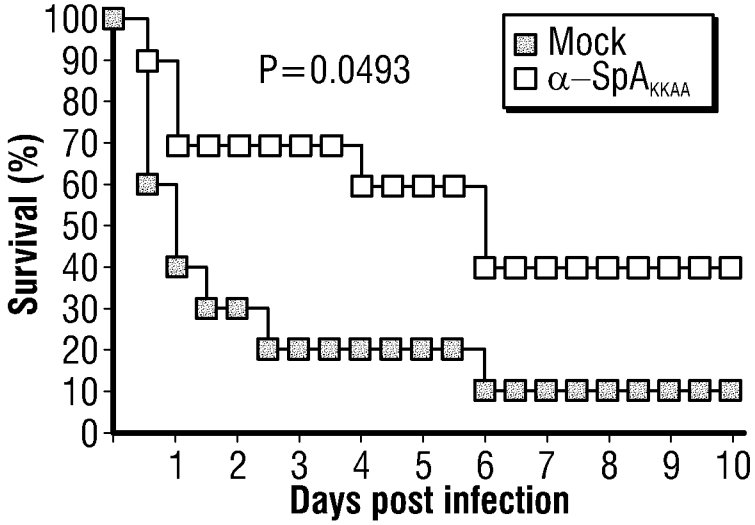


FIG. 6A

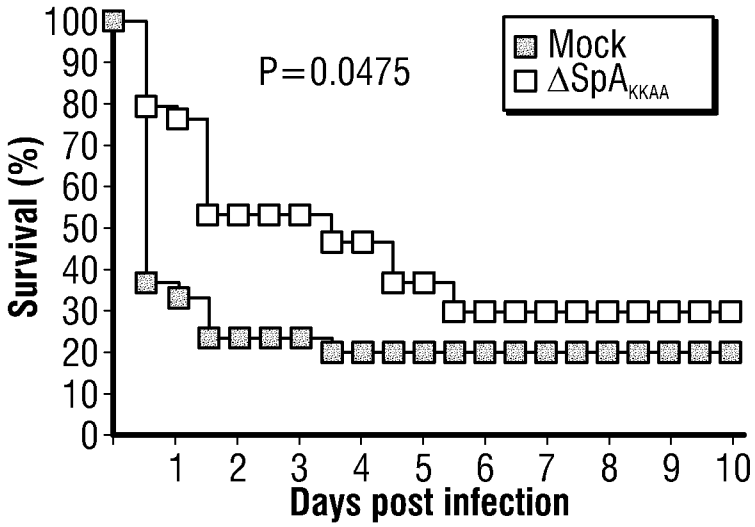


FIG. 6B

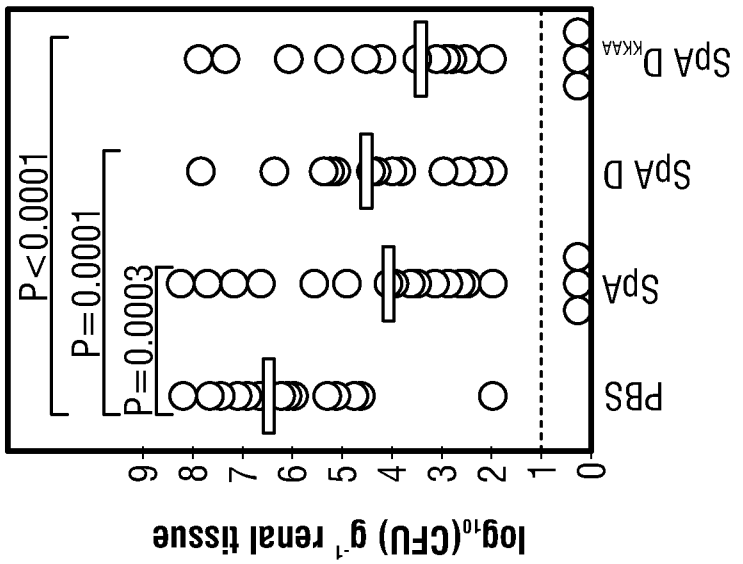


FIG. 9

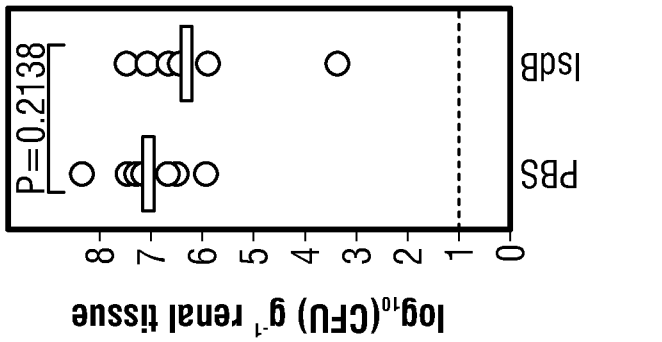


FIG. 8B

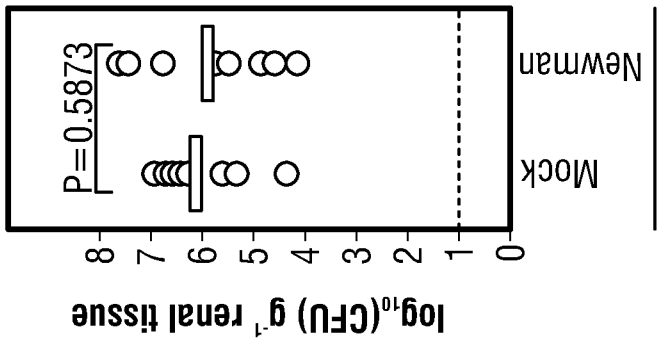


FIG. 8A

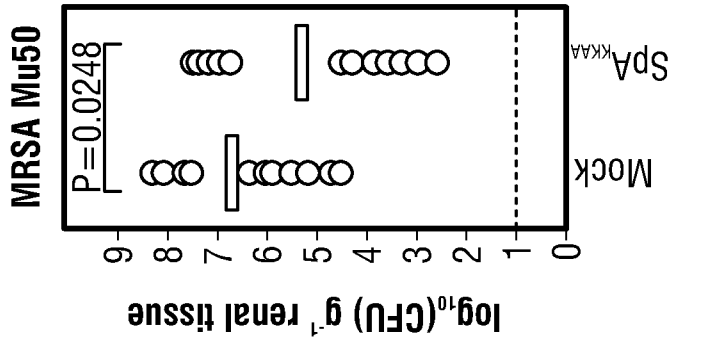


FIG. 7

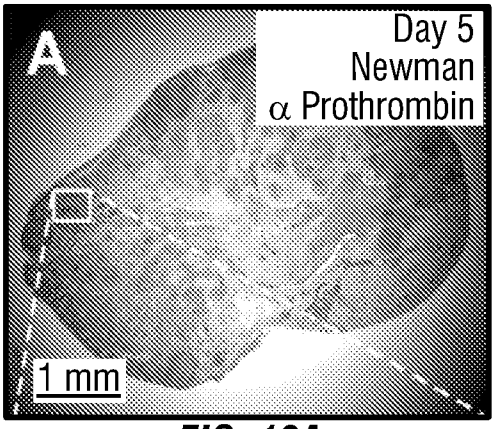


FIG. 10A

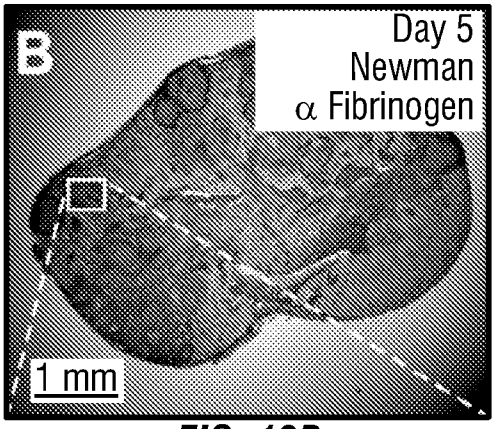


FIG. 10B

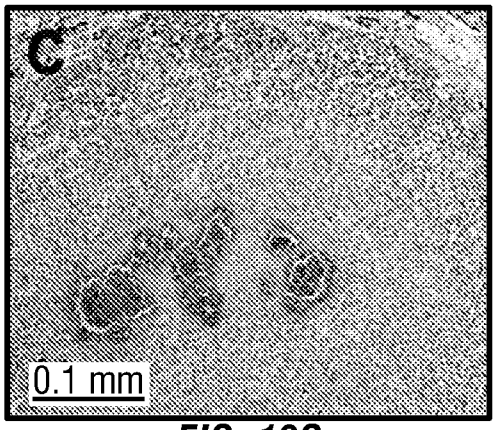


FIG. 10C

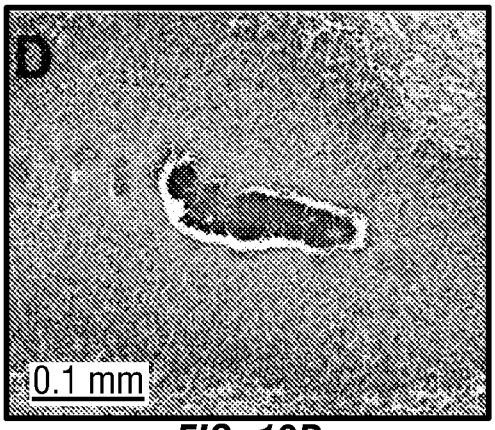


FIG. 10D

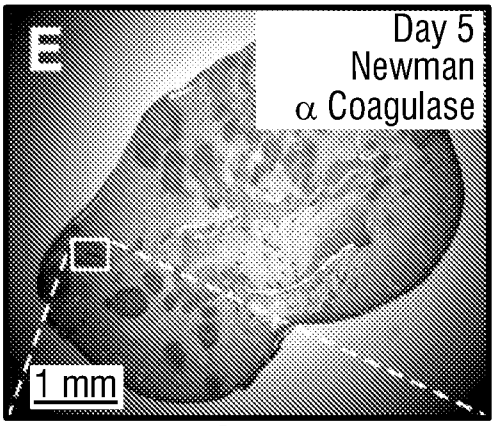


FIG. 10E

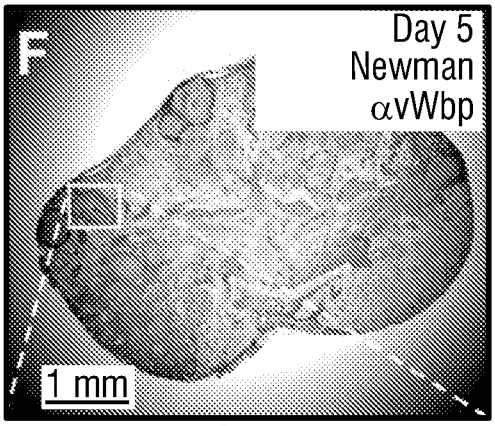


FIG. 10F

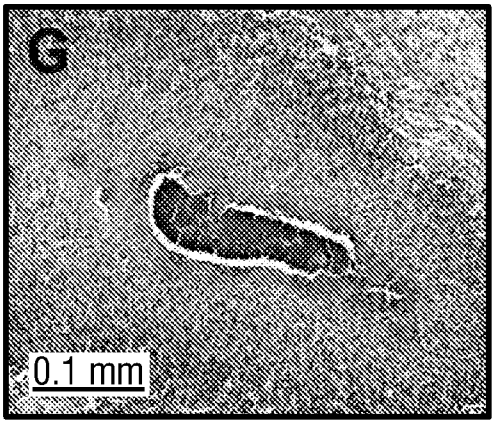


FIG. 10G

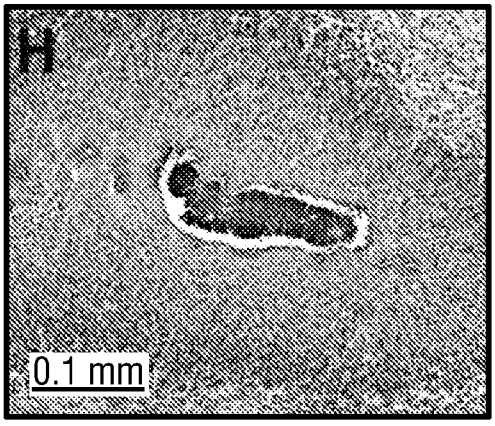


FIG. 10H

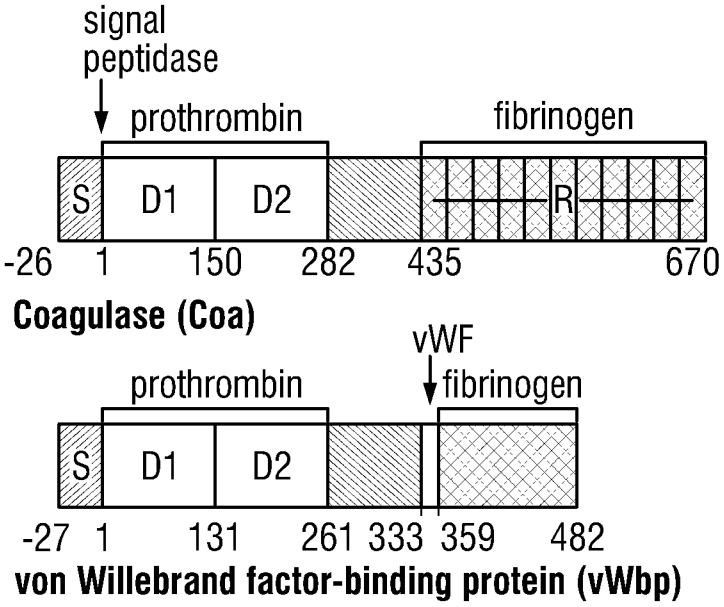


FIG. 11A

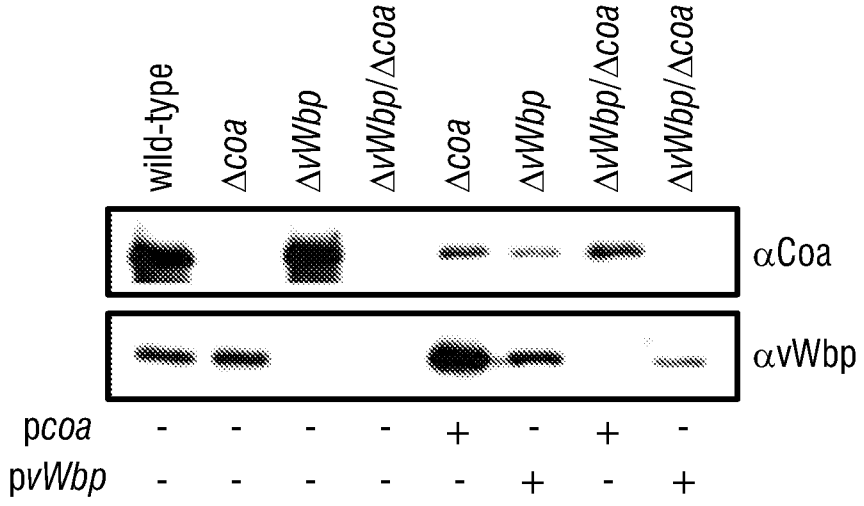


FIG. 11B

S. aureus infection of lepirudin-treated mouse blood

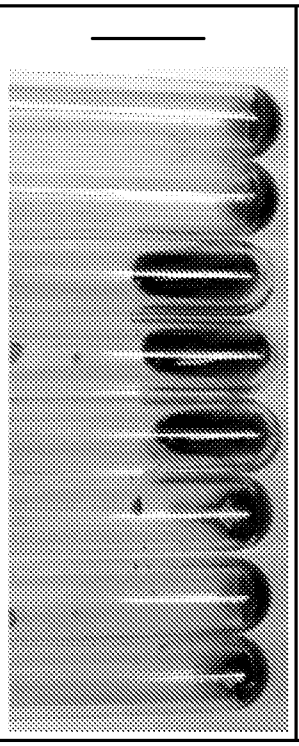
S. aureus strain	*24 hours*	*Coagulation (hours)*
Mock		>48
Newman		<12
Δ*vWbp*		24
Δ*coa*		36
Δ*vWbp*/Δ*coa*		>48
Δ*vWbp*/Δ*coa* + p*vWbp*		<12
Δ*vWbp*/Δ*coa* + p*coa*		24
Δ*vWbp* + p*vWbp*		36
Δ*coa* + p*coa*		24

FIG. 11C

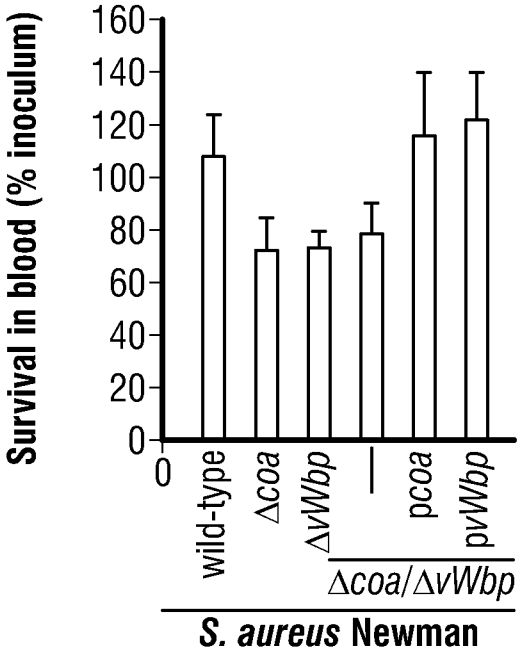


FIG. 12A

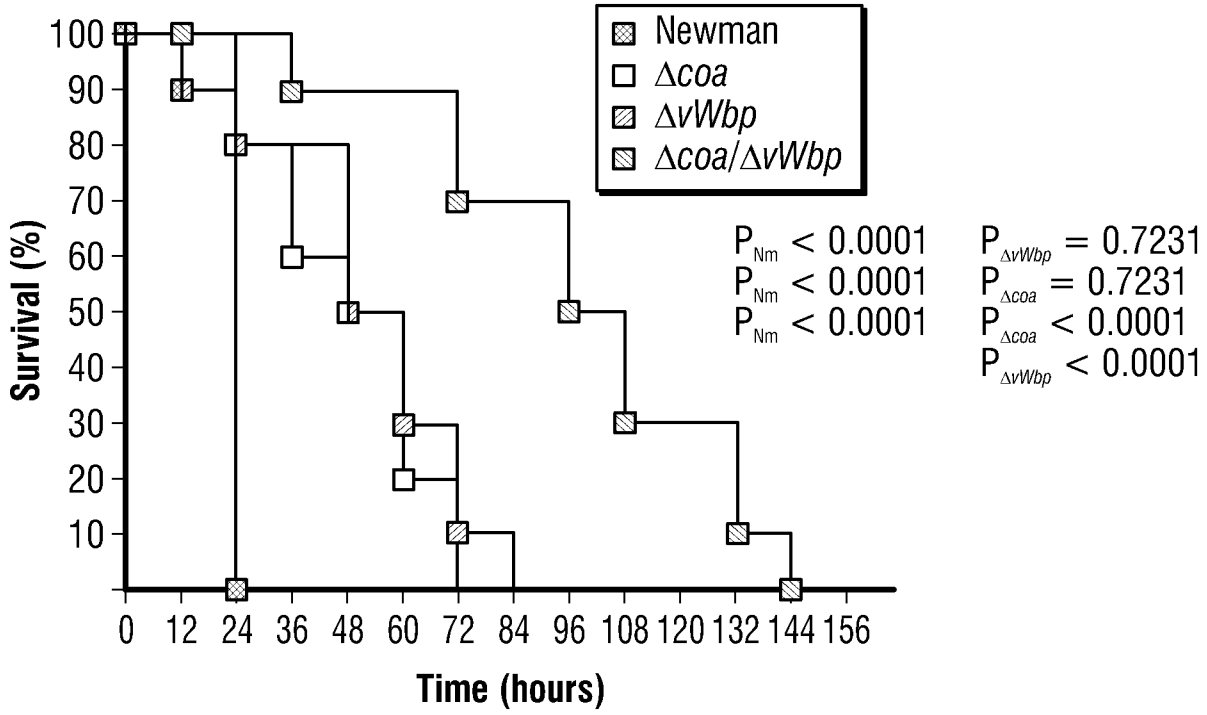


FIG. 12B

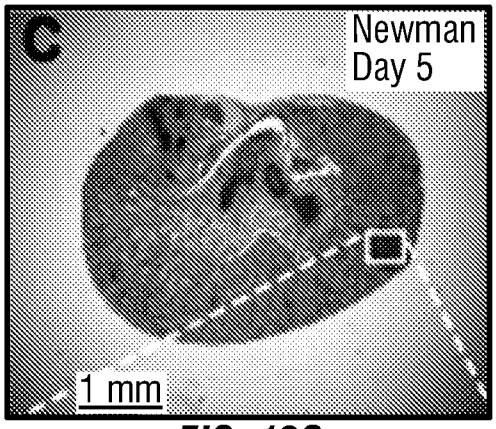


FIG. 12C

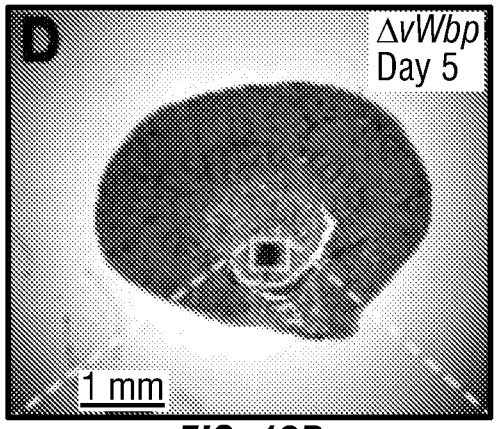


FIG. 12D

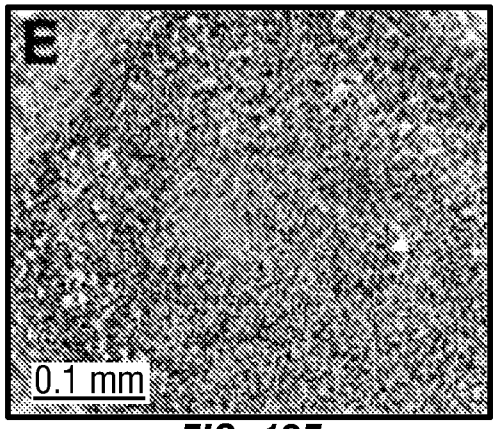


FIG. 12E

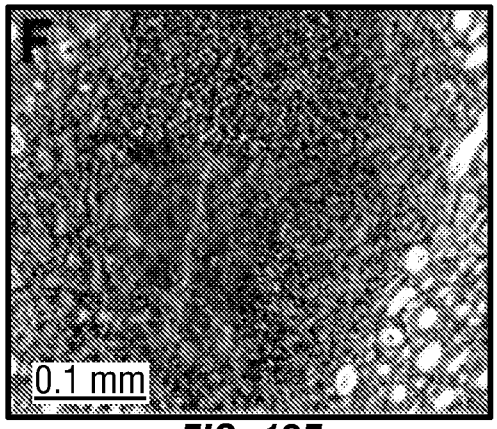


FIG. 12F

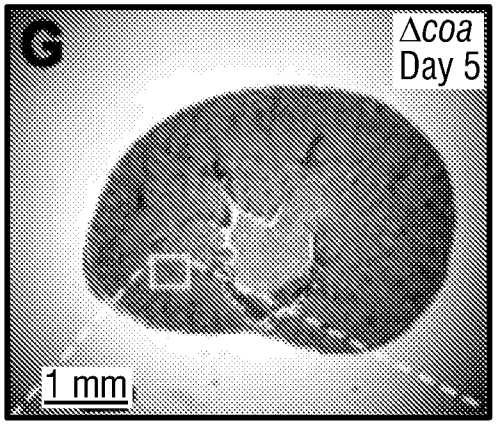


FIG. 12G

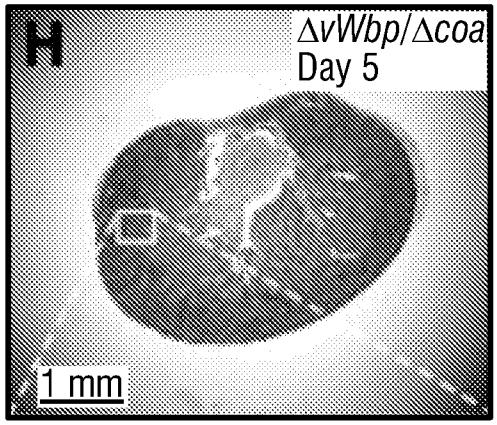


FIG. 12H

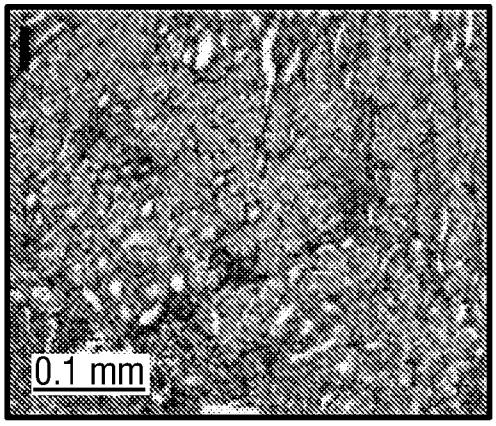


FIG. 12I

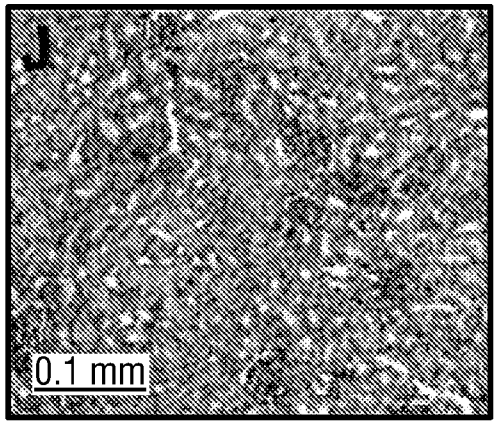


FIG. 12J

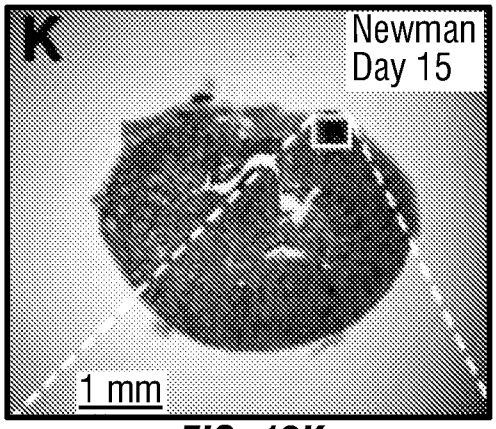


FIG. 12K

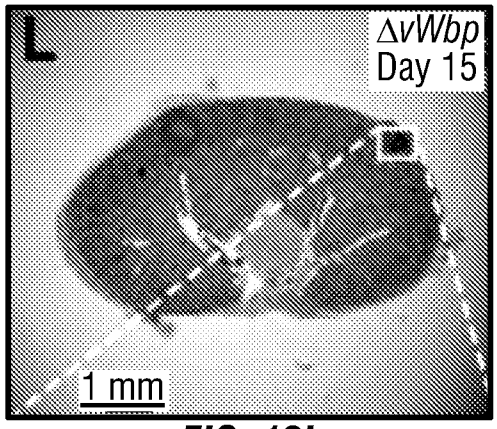


FIG. 12L

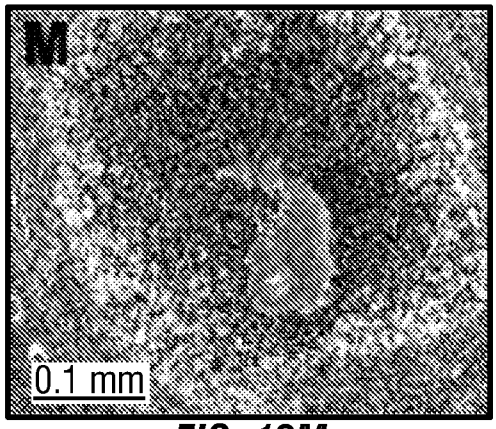


FIG. 12M

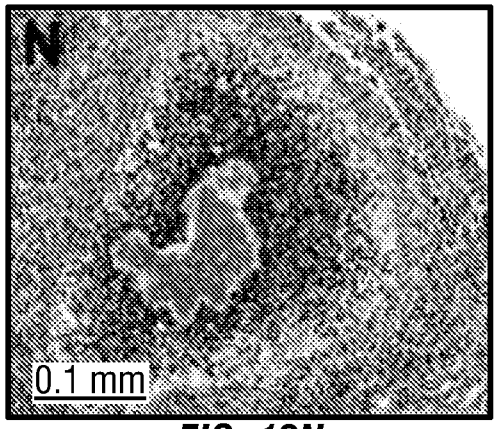


FIG. 12N

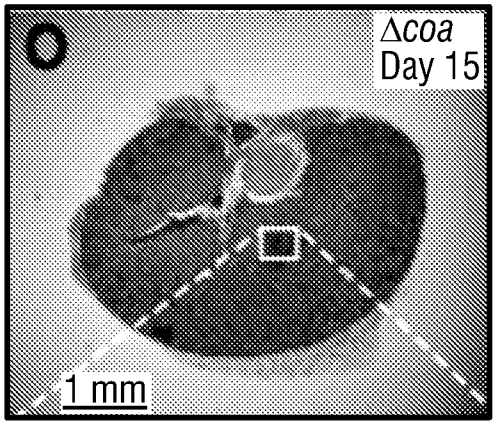


FIG. 120

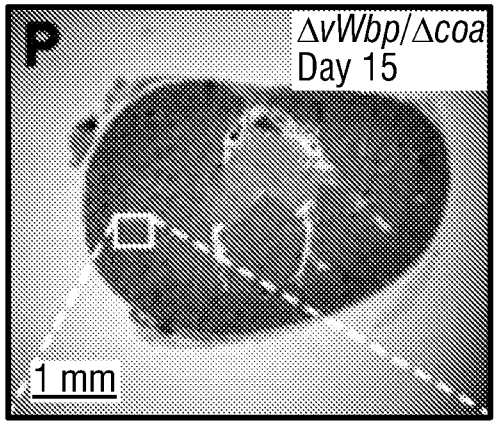


FIG. 12P

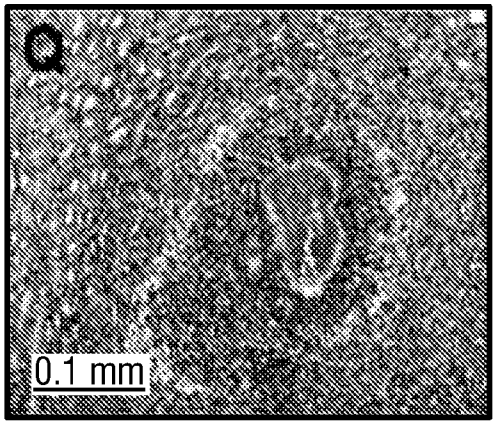


FIG. 12Q

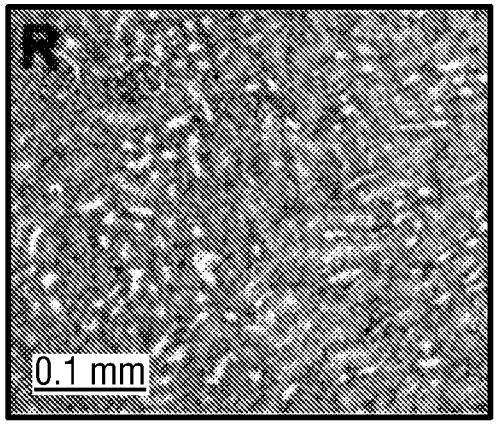


FIG. 12R

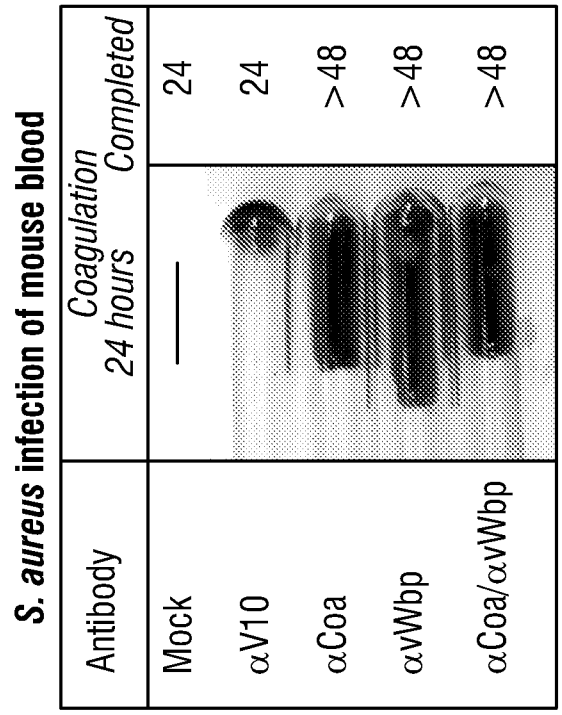


FIG. 13C

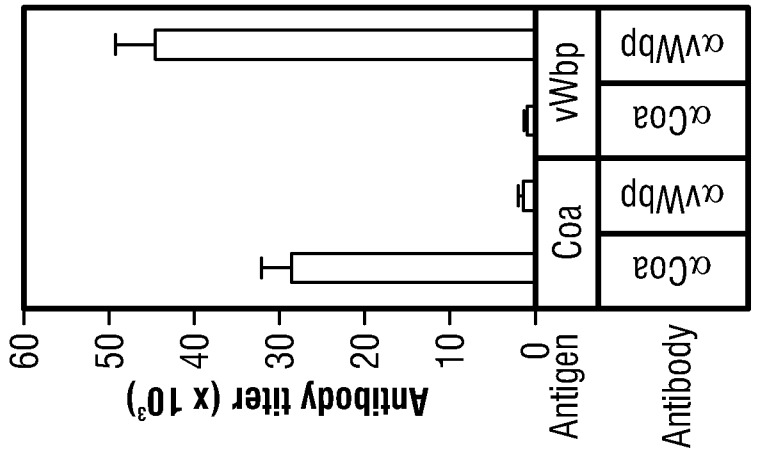


FIG. 13B

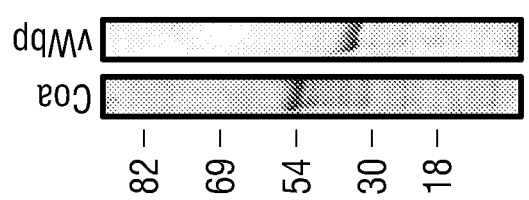


FIG. 13A

Mouse blood with	Coagulation time
PBS	indefinite
Coagulase	< 30 min
Coagulase + αV10	< 30 min
Coagulase + αCoa	2 hrs
Coagulase + αvWbp	1 hr
vWbp	< 30 min
vWbp + αV10	< 30 min
vWbp + αCoa	2 hrs
vWbp + αvWbp	2 hrs

FIG. 13D

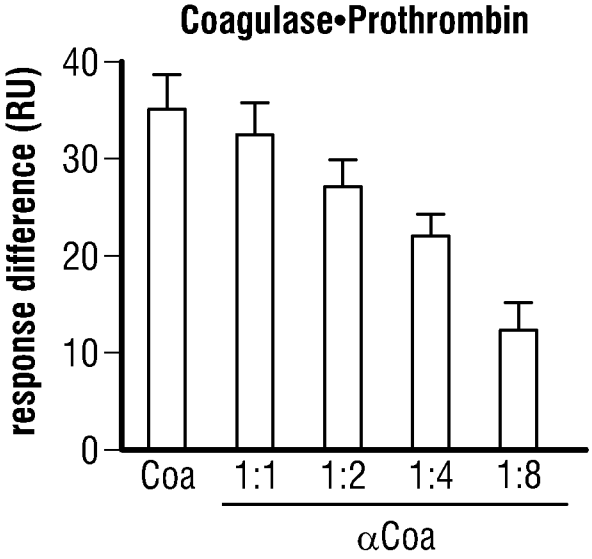


FIG. 14A

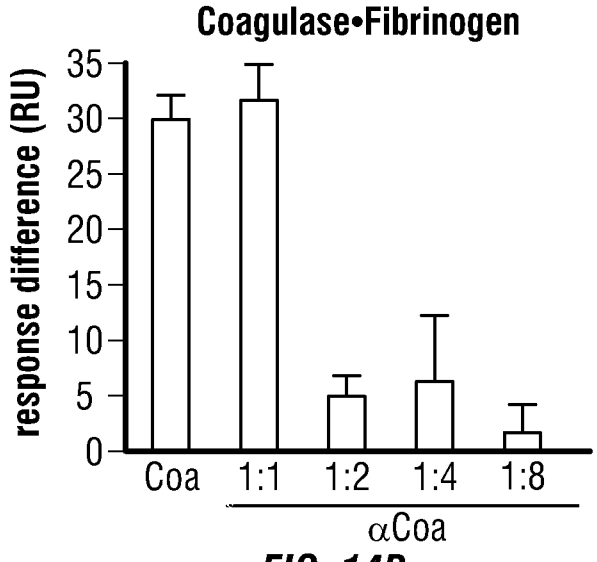


FIG. 14B

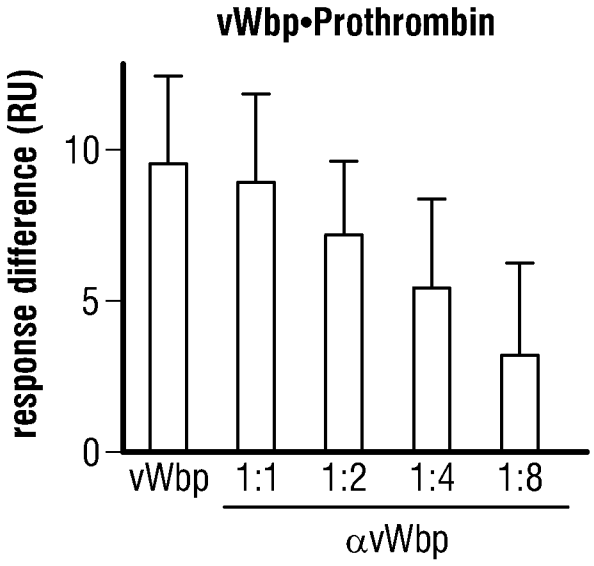


FIG. 14C

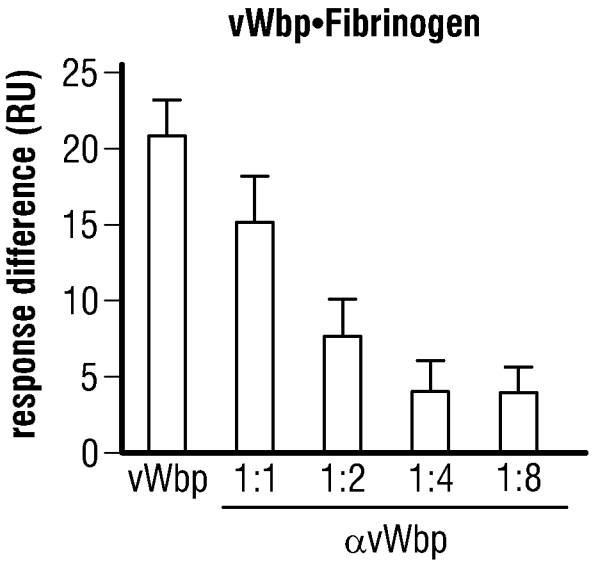


FIG. 14D

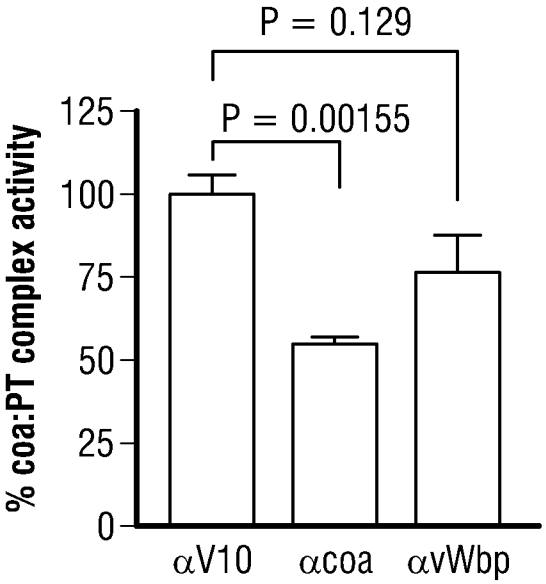


FIG. 14E

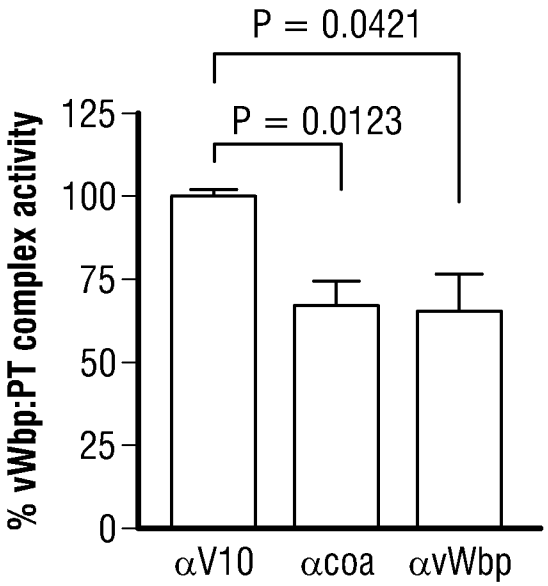


FIG. 14F

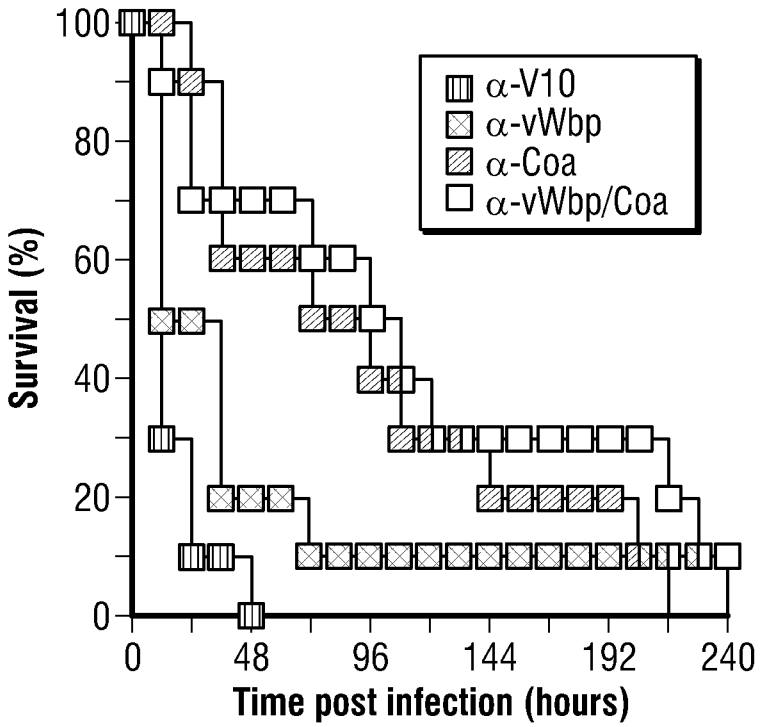


FIG. 15

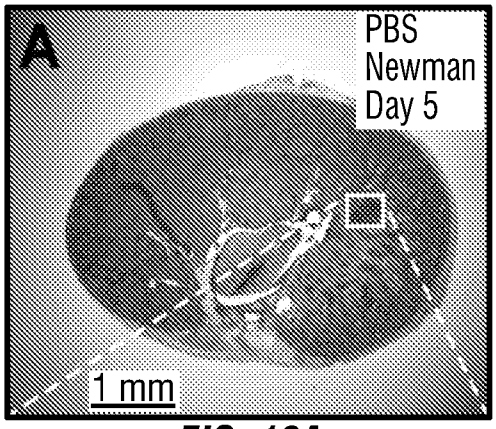


FIG. 16A

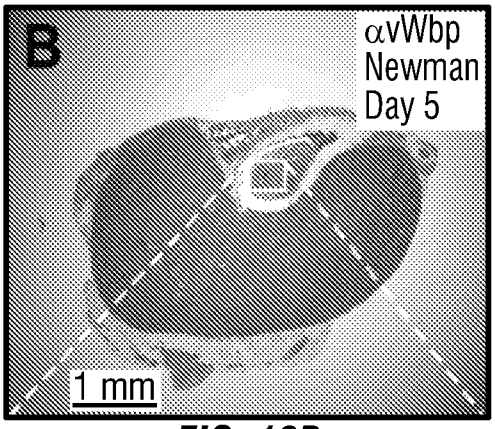


FIG. 16B

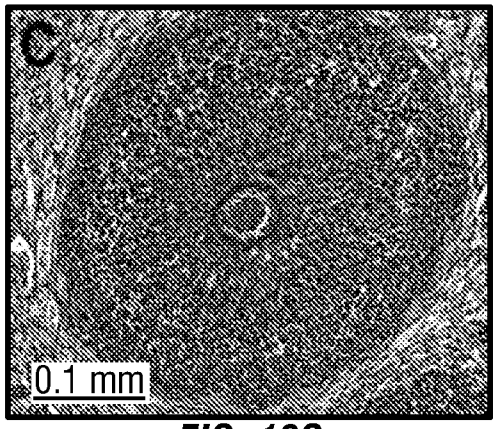


FIG. 16C

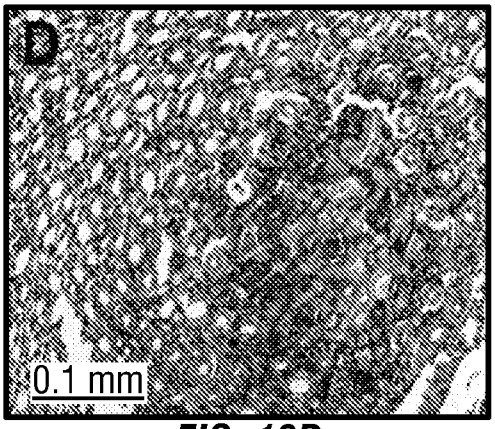


FIG. 16D

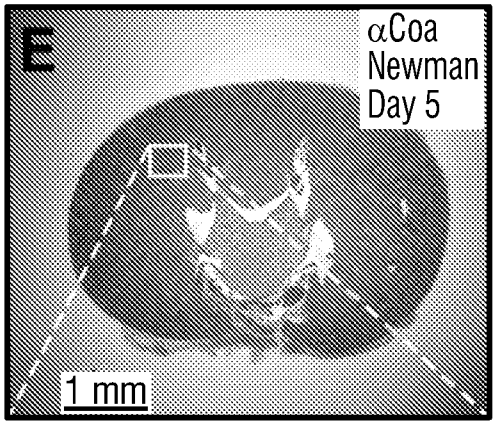


FIG. 16E

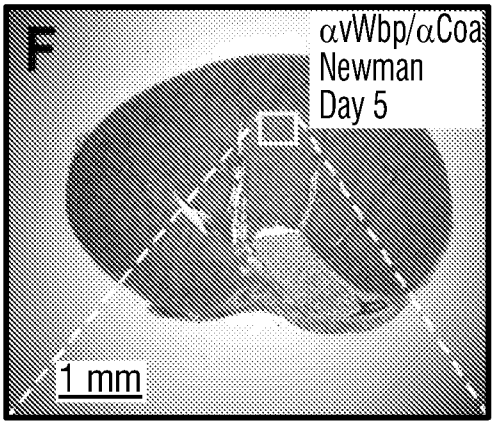


FIG. 16F

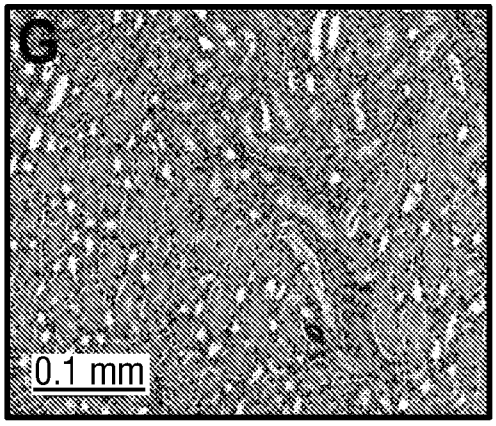


FIG. 16G

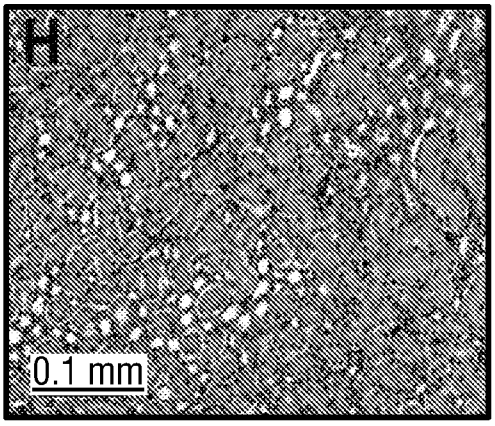


FIG. 16H

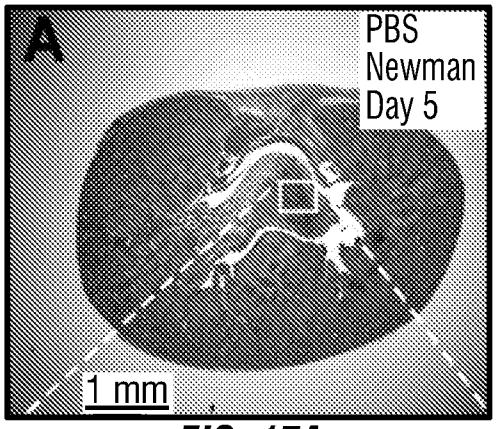


FIG. 17A

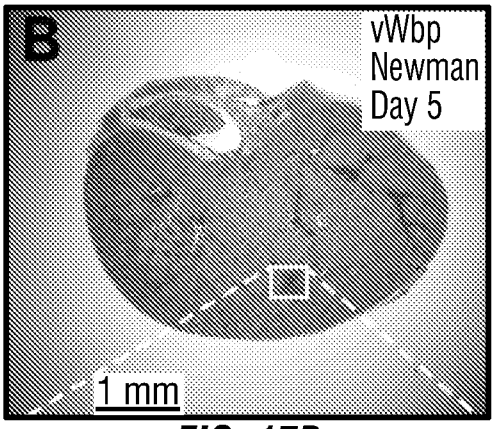


FIG. 17B

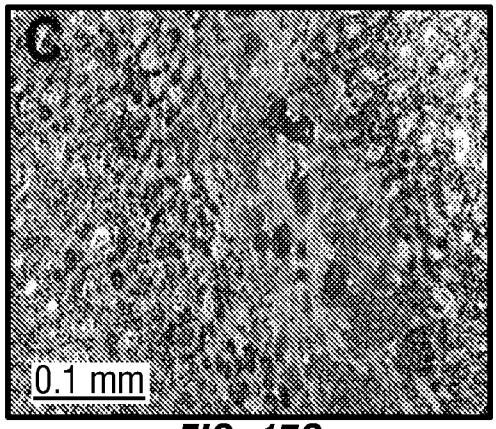


FIG. 17C

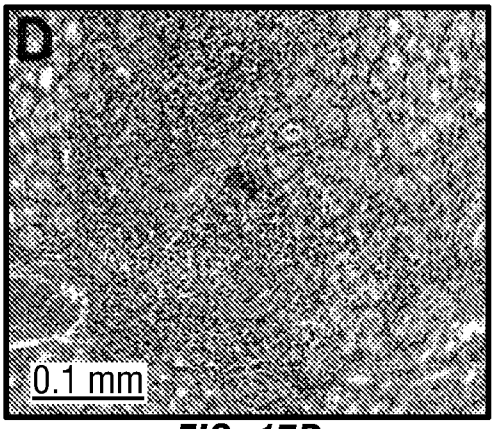


FIG. 17D

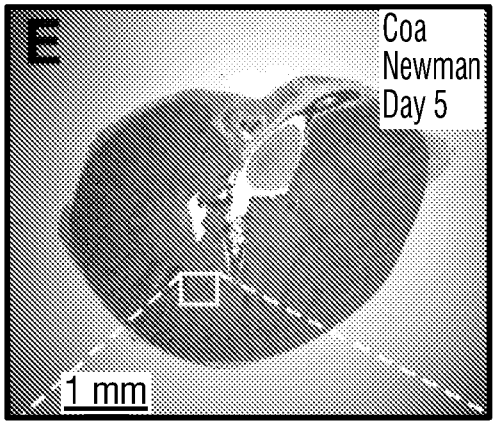


FIG. 17E

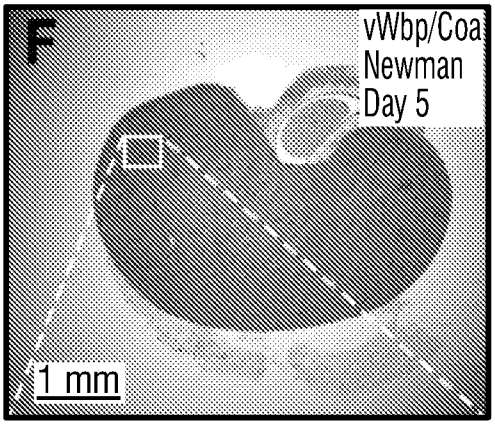


FIG. 17F

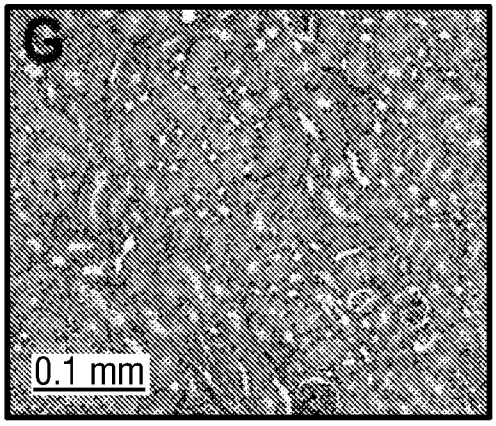


FIG. 17G

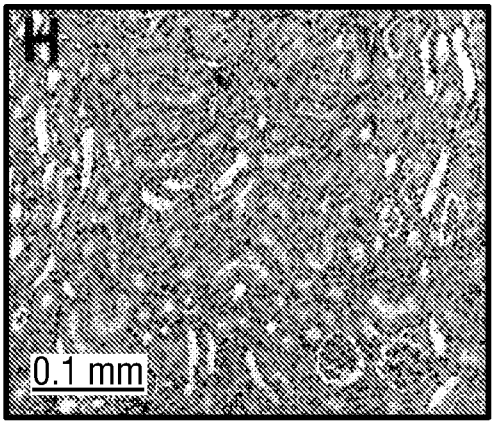


FIG. 17H