Fig. 1A

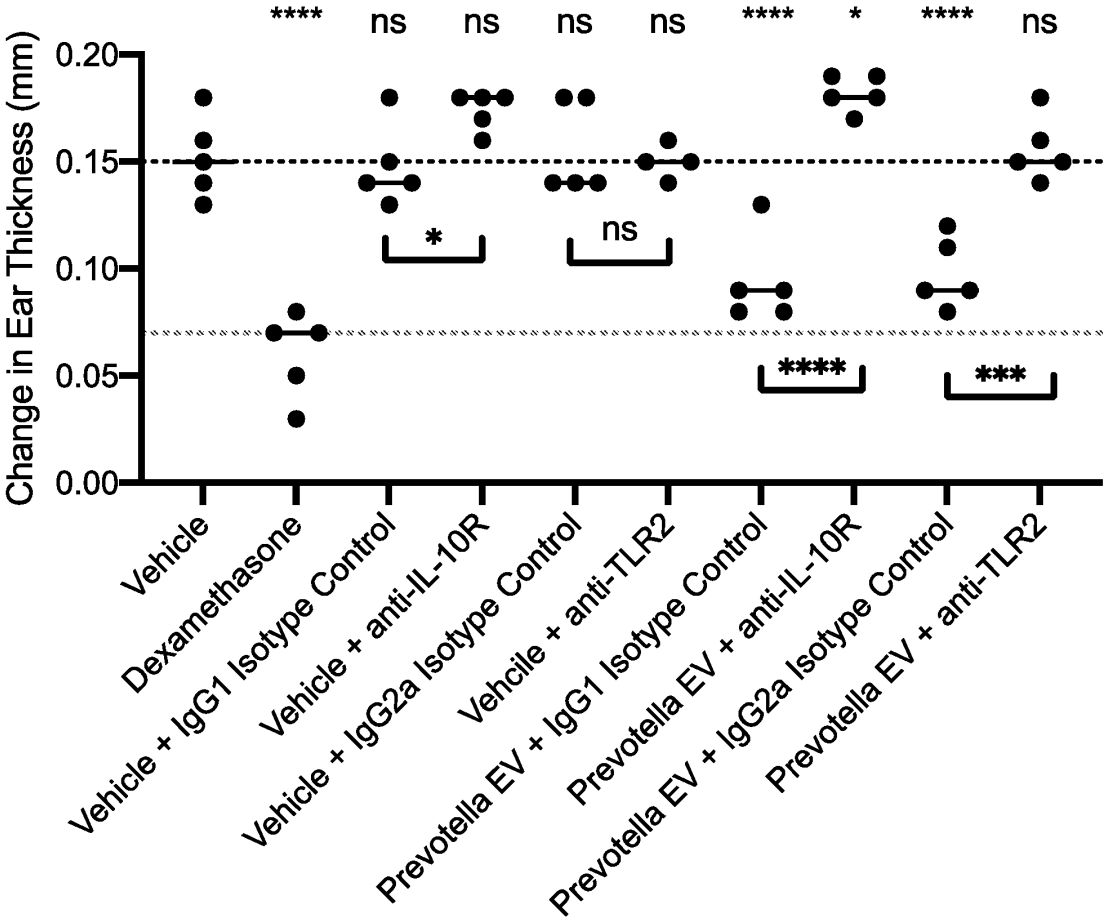

Change in Ear Thickness (mm)
0.20
0.15
0.10
0.05
0.00
****
ns
ns
ns
ns
****
*
****
ns
*
ns
****
***
Vehicle
Dexamethasone
Vehicle + IgG1 Isotype Control
Vehicle + anti-IL-10R
Vehicle + IgG2a Isotype Control
Vehcile + anti-TLR2
Prevotella EV + IgG1 Isotype Control
Prevotella EV + anti-IL-10R
Prevotella EV + IgG2a Isotype Control
Prevotella EV + anti-TLR2

Fig. 1B

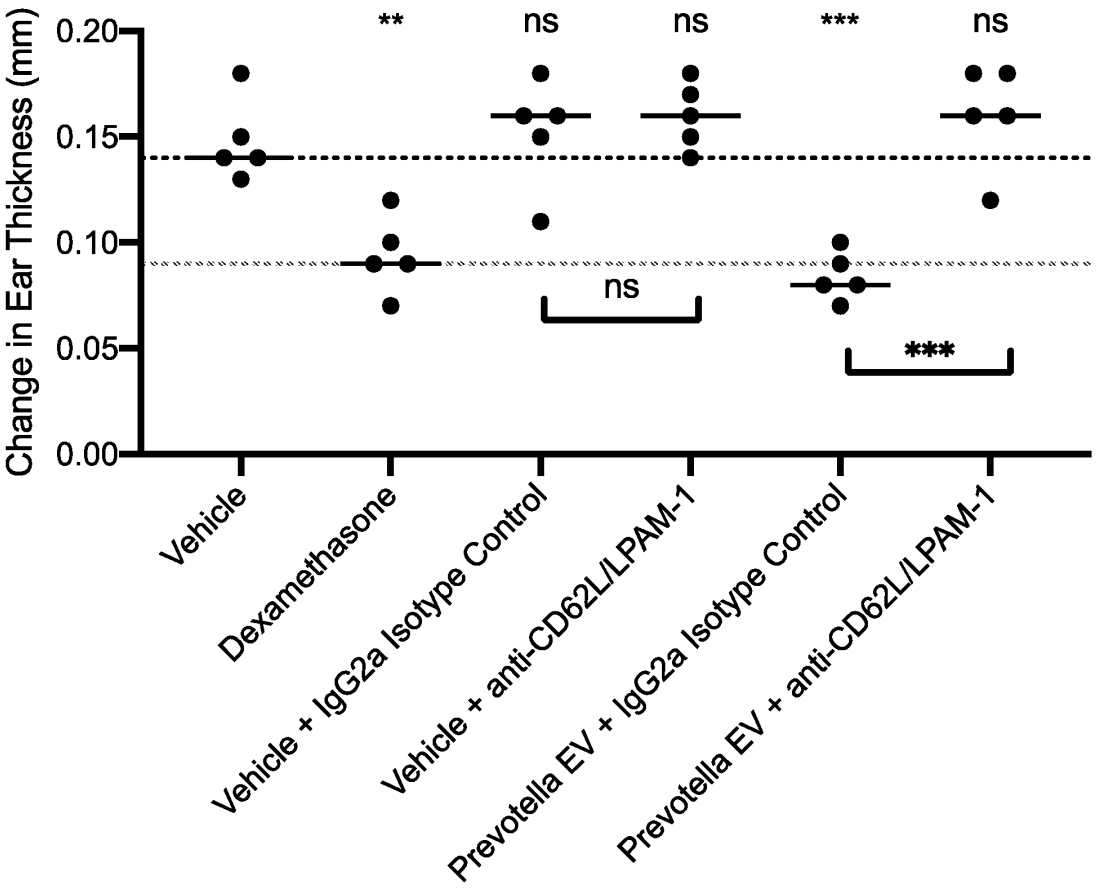

Change in Ear Thickness (mm)
0.20
0.15
0.10
0.05
0.00
**
ns
ns
***
ns
ns
***
Vehicle
Dexamethasone
Vehicle + IgG2a Isotype Control
Vehicle + anti-CD62L/LPAM-1
Prevotella EV + IgG2a Isotype Control
Prevotella EV + anti-CD62L/LPAM-1

Fig. 2

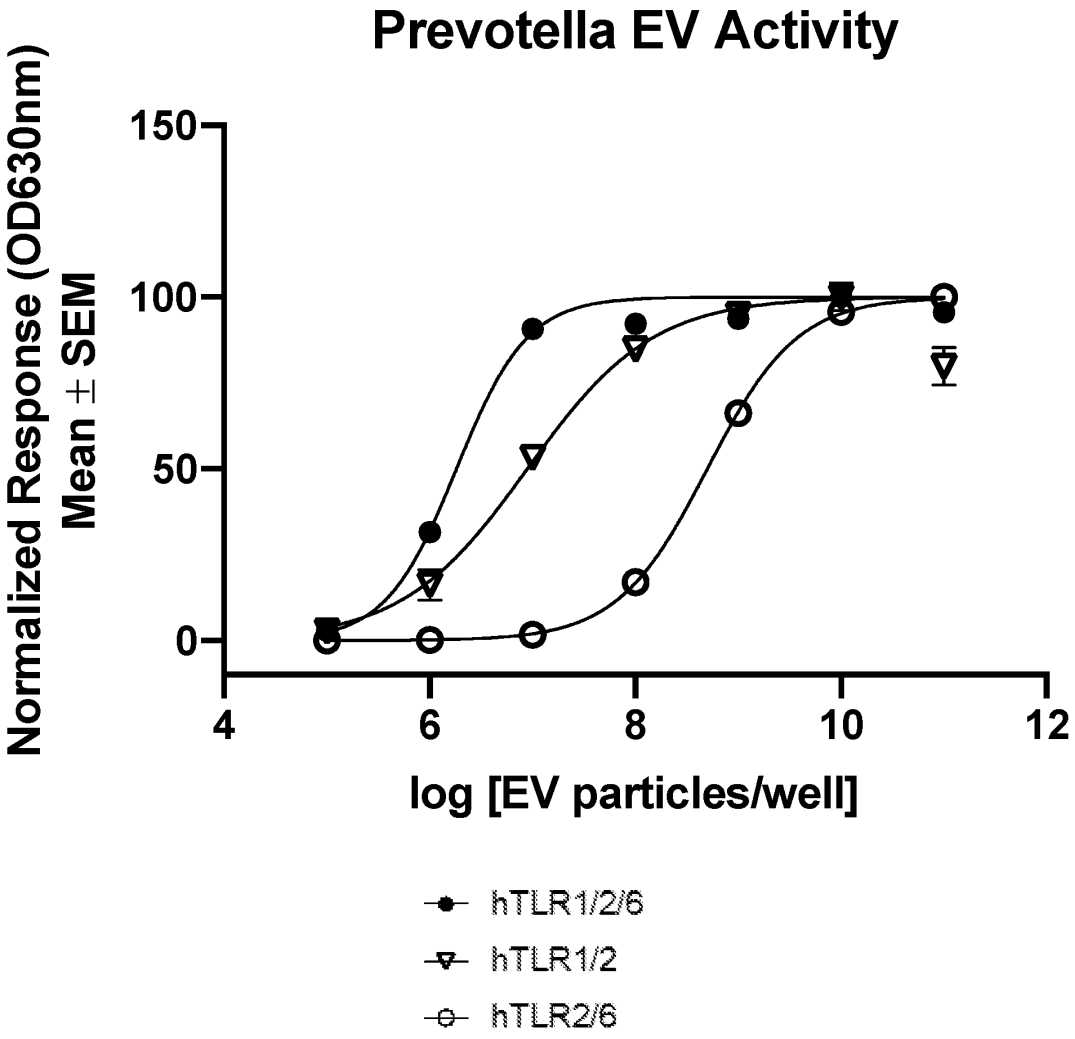

Prevotella EV Activity
Normalized Response (OD630nm)
Mean ± SEM
150
100
50
0
4
6
8
10
12
log [EV particles/well]
hTLR1/2/6
hTLR1/2
hTLR2/6

Fig. 3

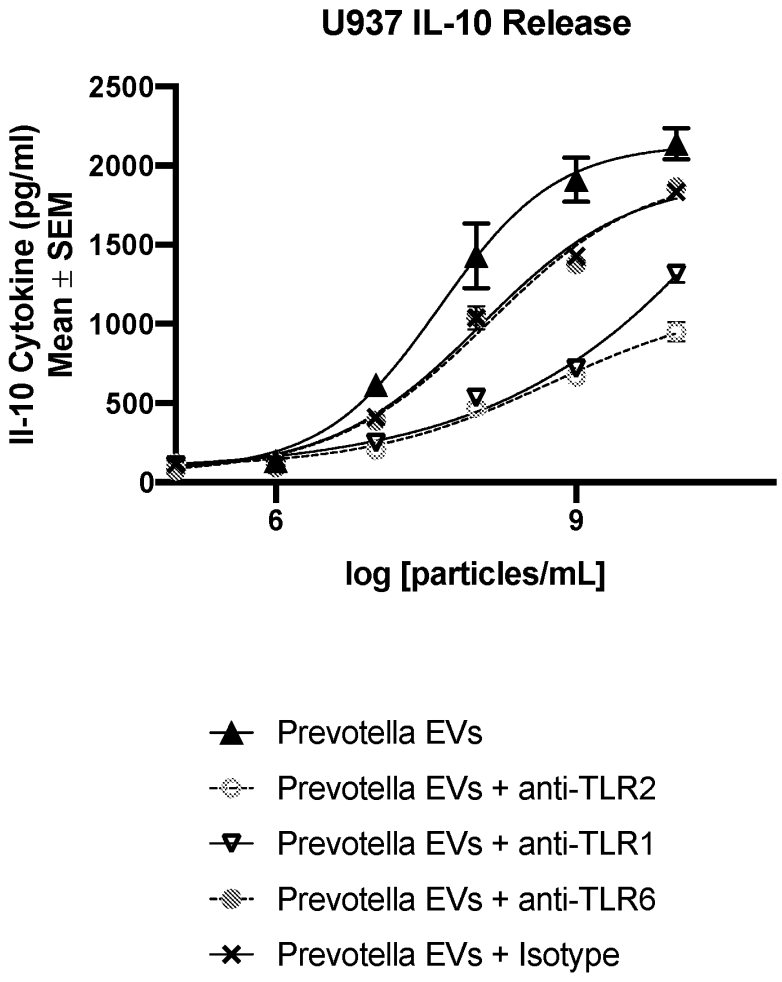

U937 IL-10 Release
Il-10 Cytokine (pg/ml)
Mean ± SEM
2500
2000
1500
1000
500
0
6
9
log [particles/mL]
Prevotella EVs
Prevotella EVs + anti-TLR2
Prevotella EVs + anti-TLR1
Prevotella EVs + anti-TLR6
Prevotella EVs + Isotype

Fig. 4A

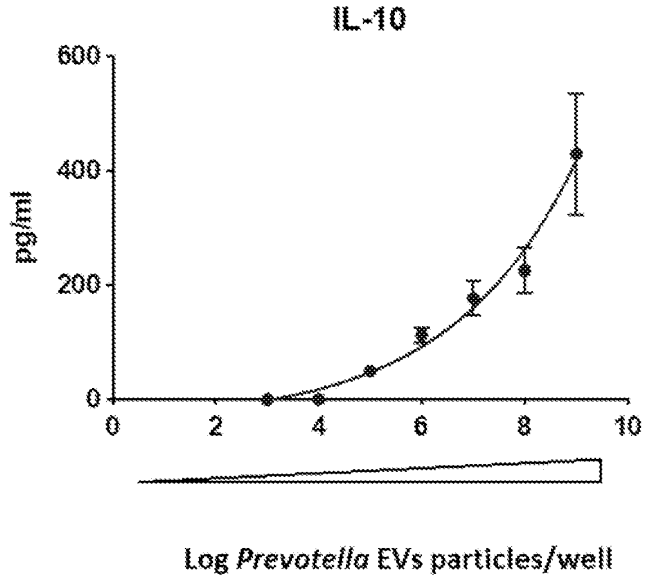

IL-10
600
400
200
0
pg/ml
0
2
4
6
8
10
Log *Prevotella* EVs particles/well

Fig. 4B

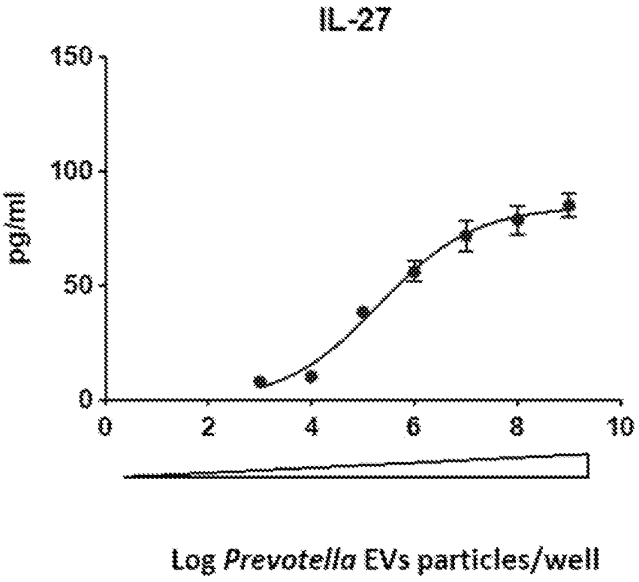

IL-27
150
100
50
0
pg/ml
0
2
4
6
8
10
Log *Prevotella* EVs particles/well

FIG. 5

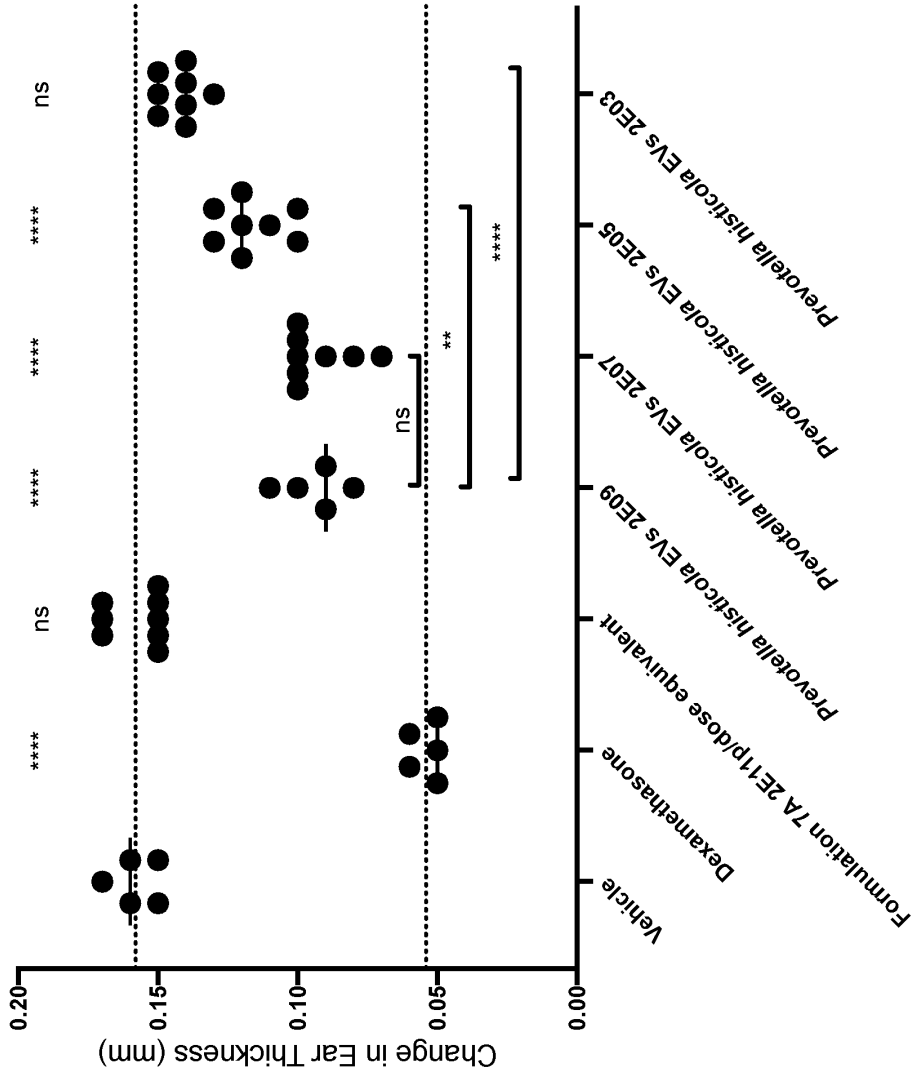

24 Hour Ear Measurements
Change in Ear Thickness (mm)
0.20
0.15
0.10
0.05
0.00
****
ns
****
****
ns
ns
**
****
Vehicle
Dexamethasone
Formulation 7A 2E11p/dose equivalent
Prevotella histicola EVs 2E09
Prevotella histicola EVs 2E07
Prevotella histicola EVs 2E05
Prevotella histicola EVs 2E03

Fig. 6

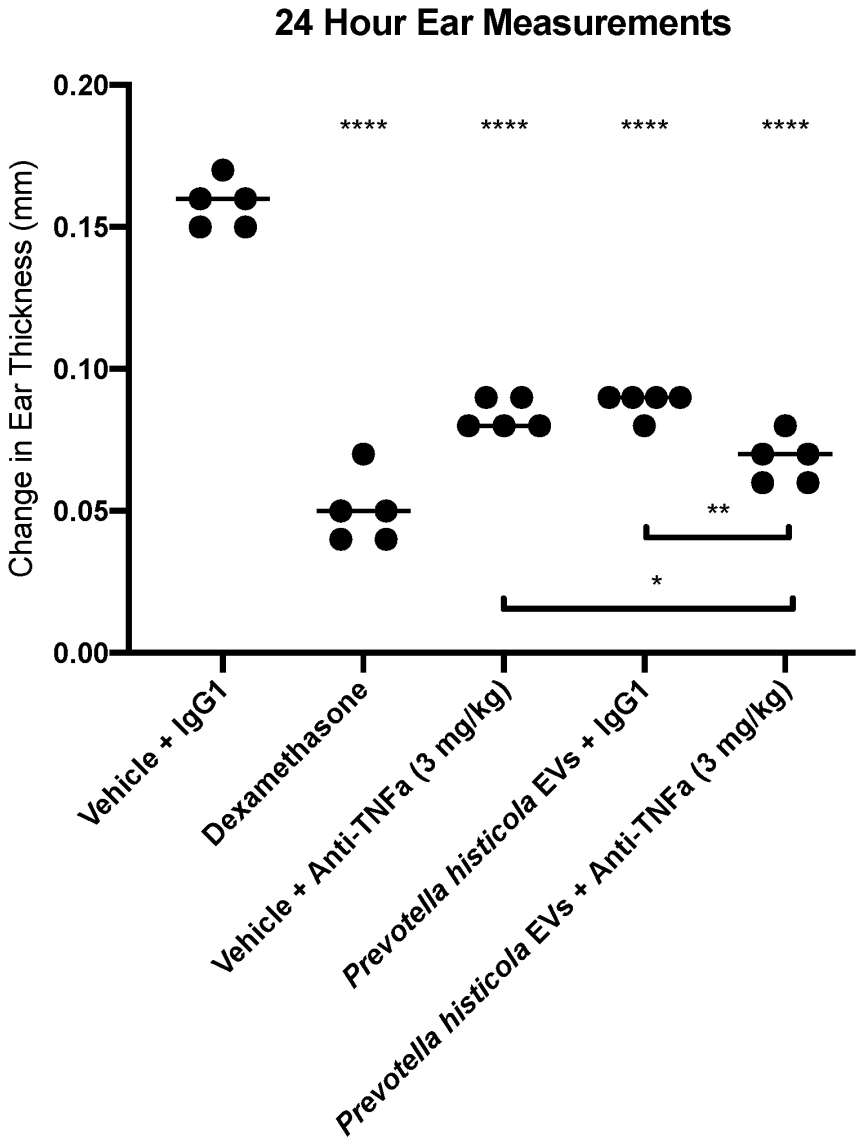

24 Hour Ear Measurements
Change in Ear Thickness (mm)
0.20
0.15
0.10
0.05
0.00
****
****
****
****
**
*
Vehicle + IgG1
Dexamethasone
Vehicle + Anti-TNFa (3 mg/kg)
Prevotella histicola EVs + IgG1
Prevotella histicola EVs + Anti-TNFa (3 mg/kg)

FIG. 7

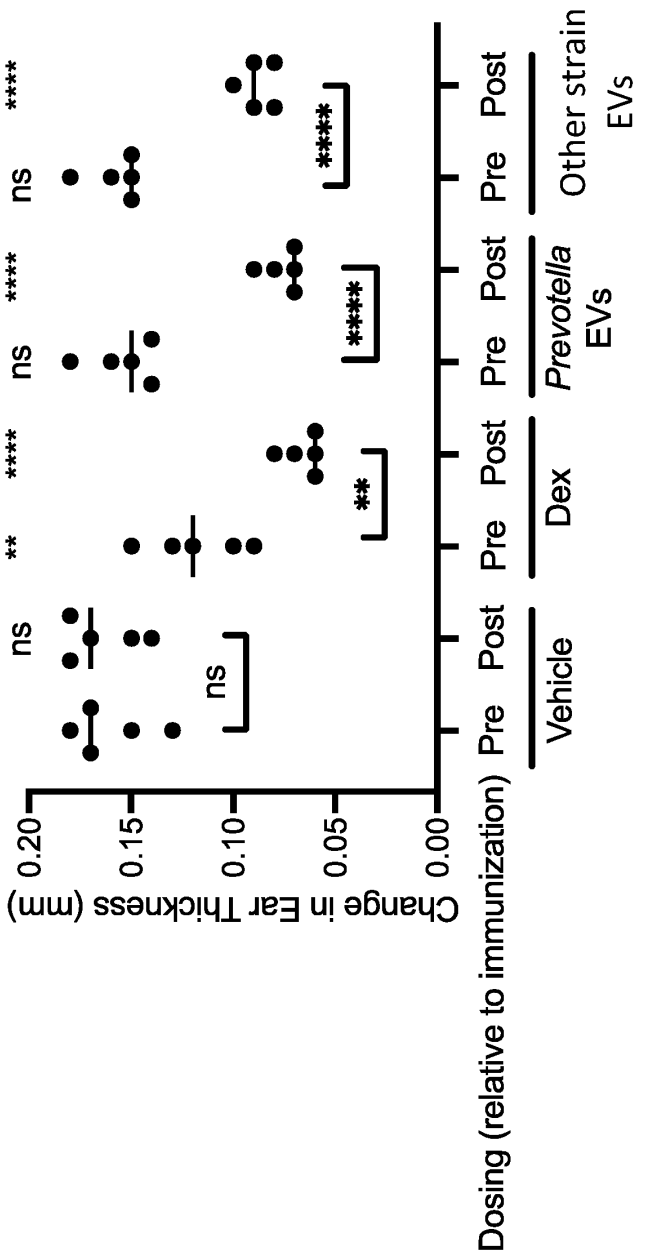

Change in Ear Thickness (mm)
0.20
0.15
0.10
0.05
0.00
ns
ns
**
****
ns
****
ns
****
**
****
****
Dosing (relative to immunization)
Pre
Post
Pre
Post
Pre
Post
Pre
Post
Vehicle
Dex
Prevotella EVs
Other strain EVs

Fig. 8

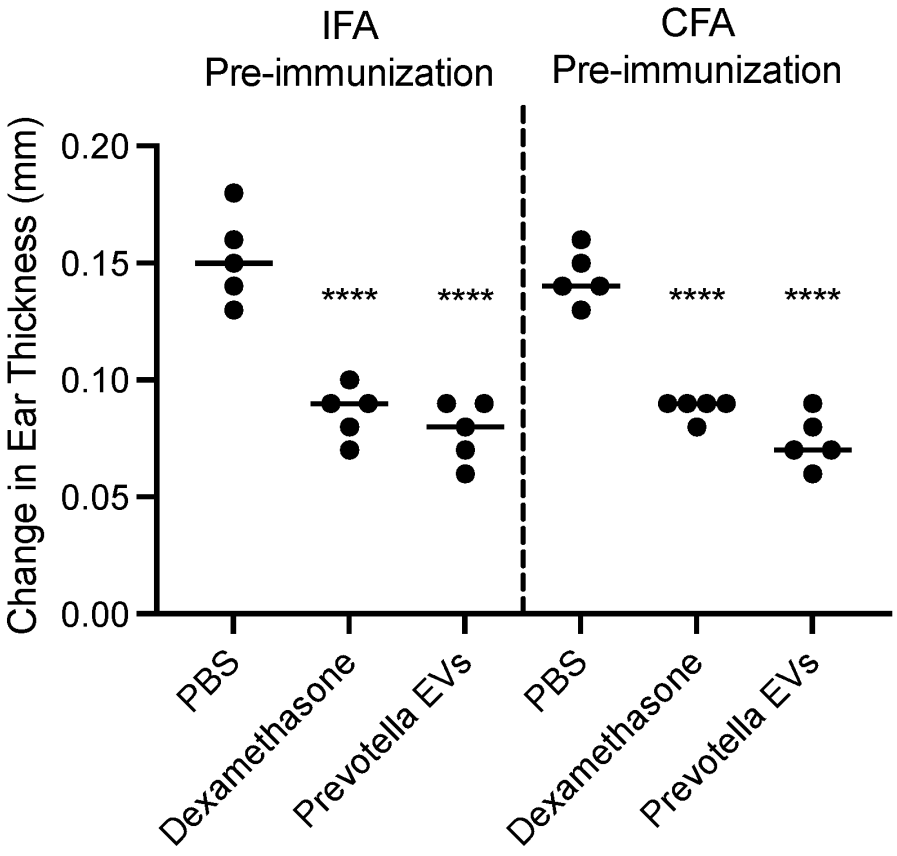

IFA
Pre-immunization
CFA
Pre-immunization
Change in Ear Thickness (mm)
0.20
0.15
0.10
0.05
0.00
****
****
****
****
PBS
Dexamethasone
Prevotella EVs
PBS
Dexamethasone
Prevotella EVs

Fig. 9

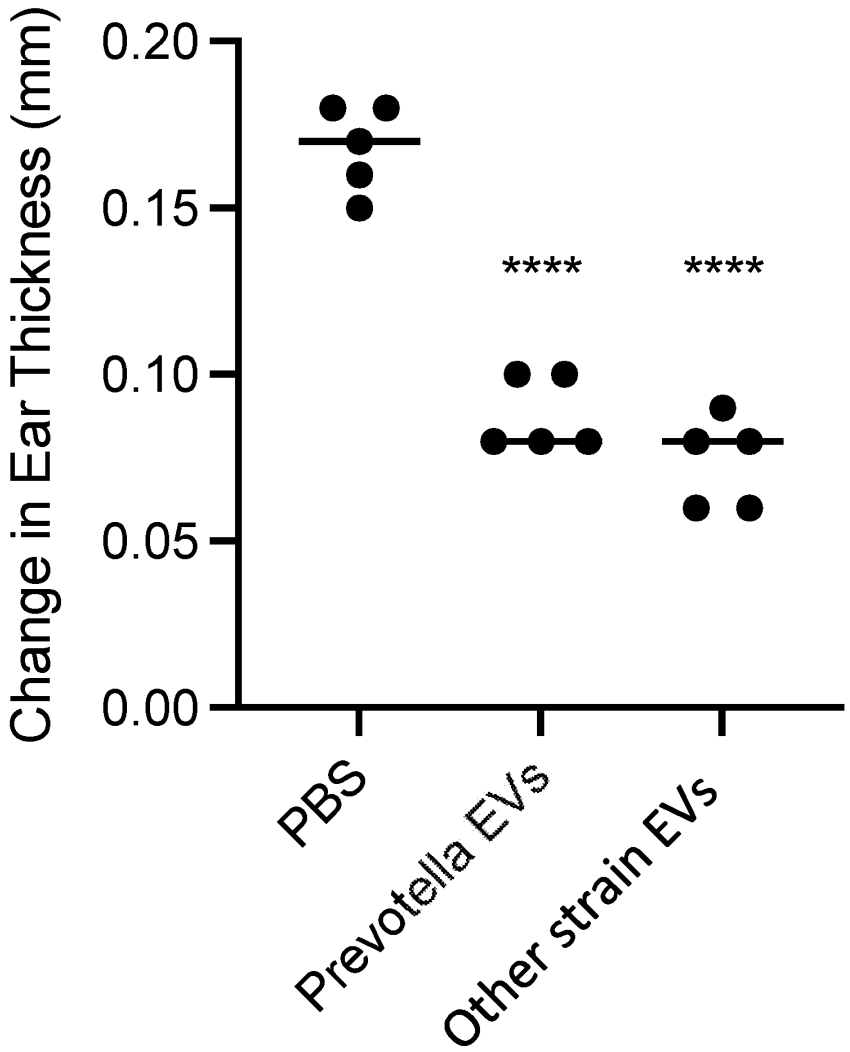

Change in Ear Thickness (mm)
0.20
0.15
0.10
0.05
0.00
****
****
PBS
Prevotella EVs
Other strain EVs

Fig. 10

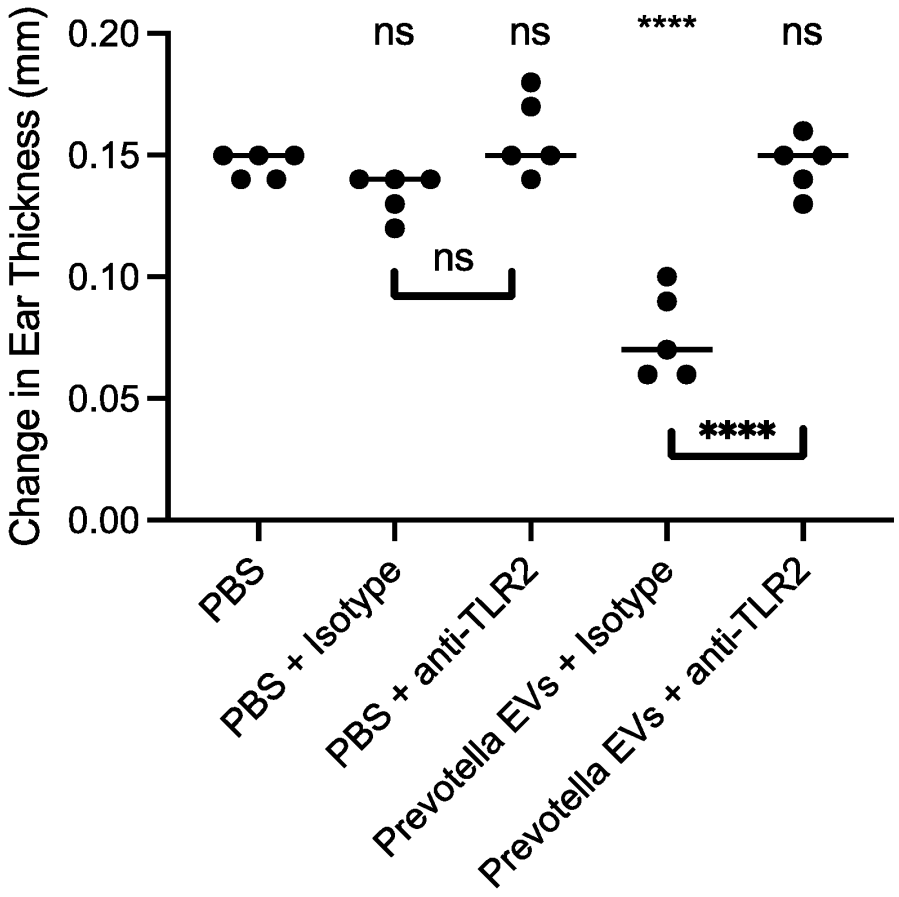
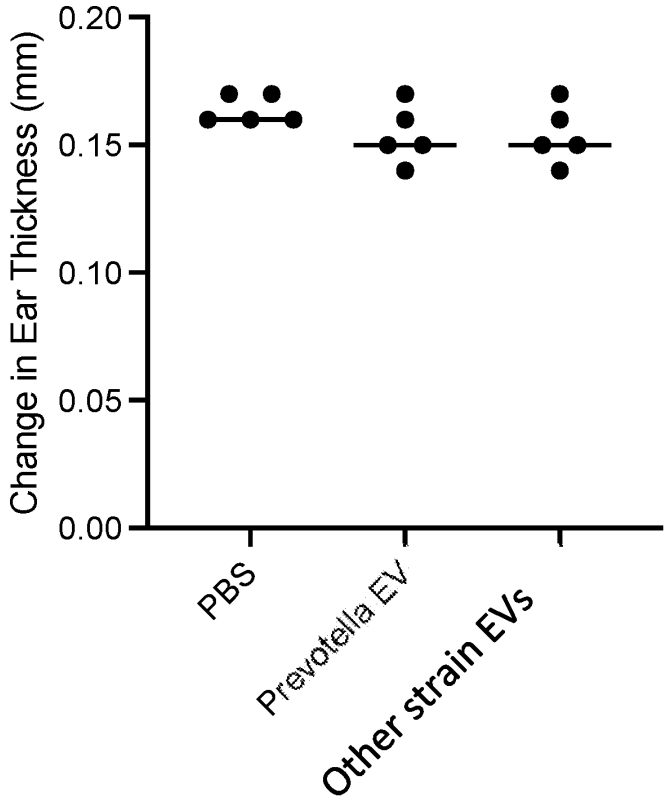

Change in Ear Thickness (mm)
0.20
0.15
0.10
0.05
0.00
ns
ns
****
ns
ns
****
PBS
PBS + Isotype
PBS + anti-TLR2
Prevotella EVs + Isotype
Prevotella EVs + anti-TLR2

Fig. 11


Change in Ear Thickness (mm)
0.20
0.15
0.10
0.05
0.00
PBS
Prevotella EV
Other strain EVs