

Supporting Information

**Ovotransferrin Antibacterial Peptide Coupling
Mesoporous Silica Nanoparticle as An Effective
Antibiotic Delivery System for Treating Bacterial
Infection *In Vivo***

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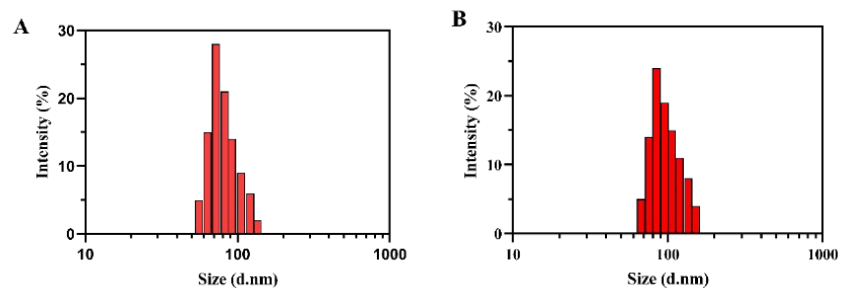


Figure S1. The size distribution of MSNs@Gen (A) and MSNs@OVTp12@Gen (B).

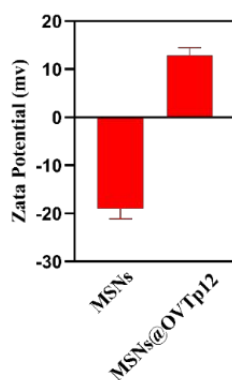


Figure S2. The zeta potential of MSNs and MSNs@OVTp12

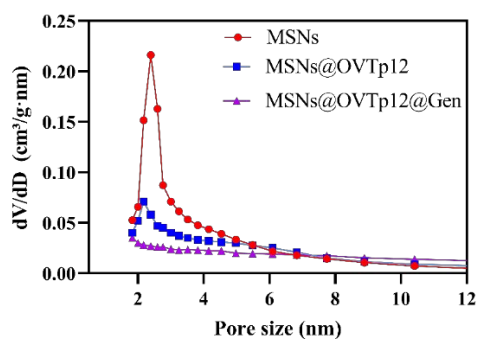


Figure S3. The pore-size distribution for MSNs, MSNs@OVTp12 and MSNs@OVTp12@Gen.

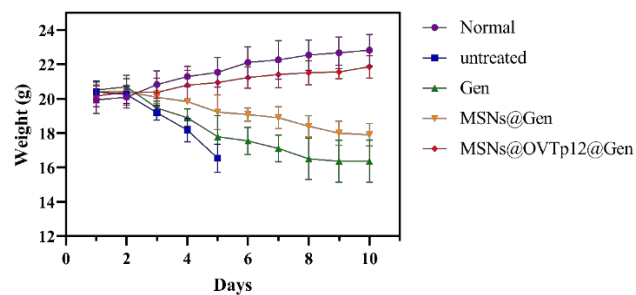


Figure S4. Body weight of infected mice as a function of time during treatment by Gen, MSNs@Gen and MSNs@OVTp12@Gen

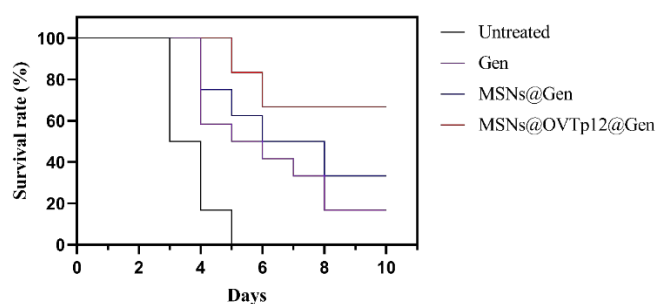


Figure S5. The survival rate of infected mice as a function of time during treatment by Gen, MSNs@Gen and MSNs@OVTp12@Gen.

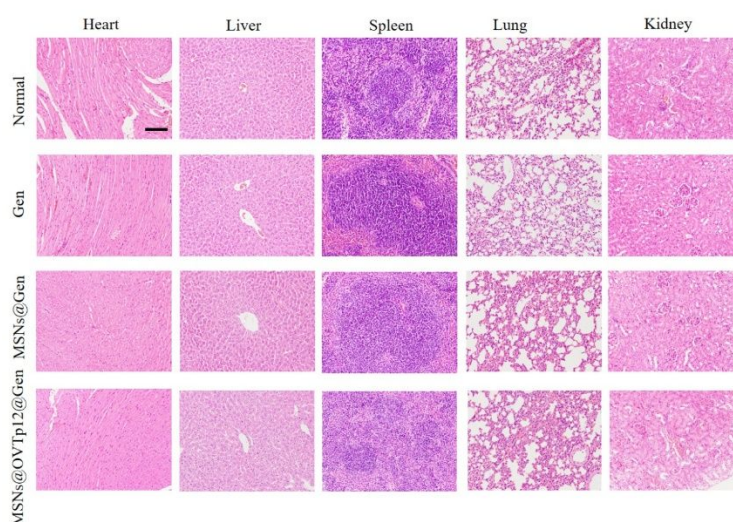


Figure S6. Histopathological examinations of different treated groups in main organs.

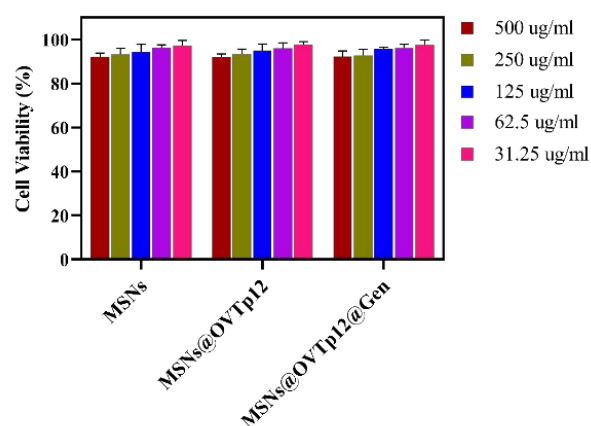


Figure S7. Cell viability of RAW264.7 cells incubated for 24 h with different concentrations of MSNs, MSNs@OVTp12 and MSNs@OVTp12@Gen.

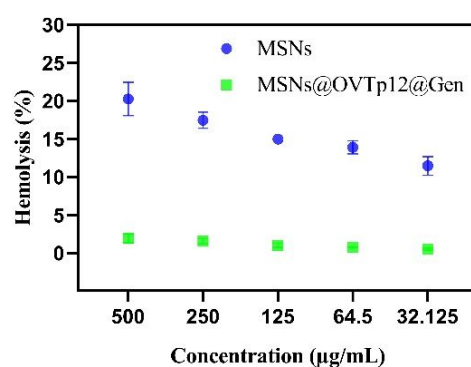


Figure S8. Hemolytic percentage of RBCs incubated with MSNs and MSNs@OVTp12@Gen at different concentrations.