

Supplementary Material

Antibiofilm activity of flavonoids on *staphylococcal* biofilms through targeting BAP amyloids.

Leticia Matilla-Cuenca¹, Carmen Gil², Sergio Cuesta¹, Beatriz Rapún-Araiz², Miglė Žiemytė³, Alex Mira³, Iñigo Lasa², Jaione Valle^{1*}

¹*Instituto de Agrobiotecnología (IDAB). CSIC-UPNA-Gobierno de Navarra. Avenida Pamplona 123. Mutilva-31192, Spain*

²*Navarrabiomed-Universidad Pública de Navarra-Departamento de Salud, IDISNA, Pamplona-31008, Navarra, Spain*

³*Genomics and Health Department, FISABIO Foundation, 46020 Valencia, Spain*

* *Corresponding author: jaione.valle@csic.es*

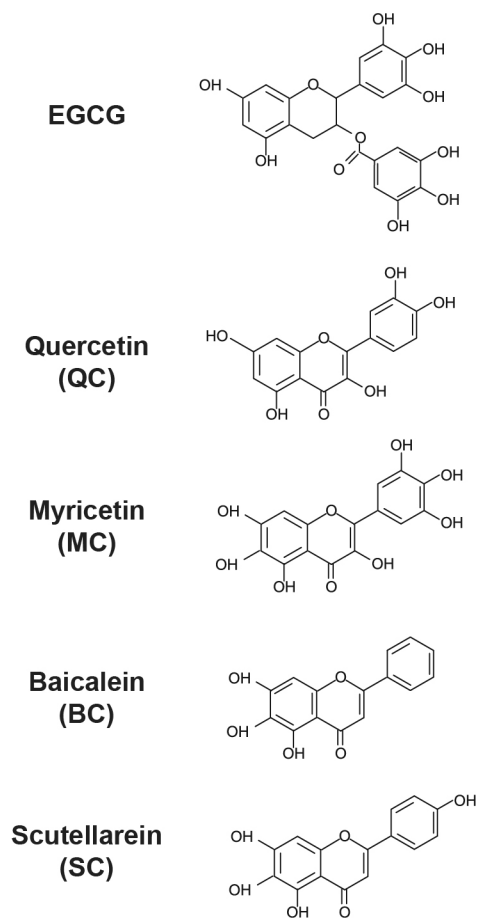


Figure S1: Structures of the polyphenolic compounds used in this study

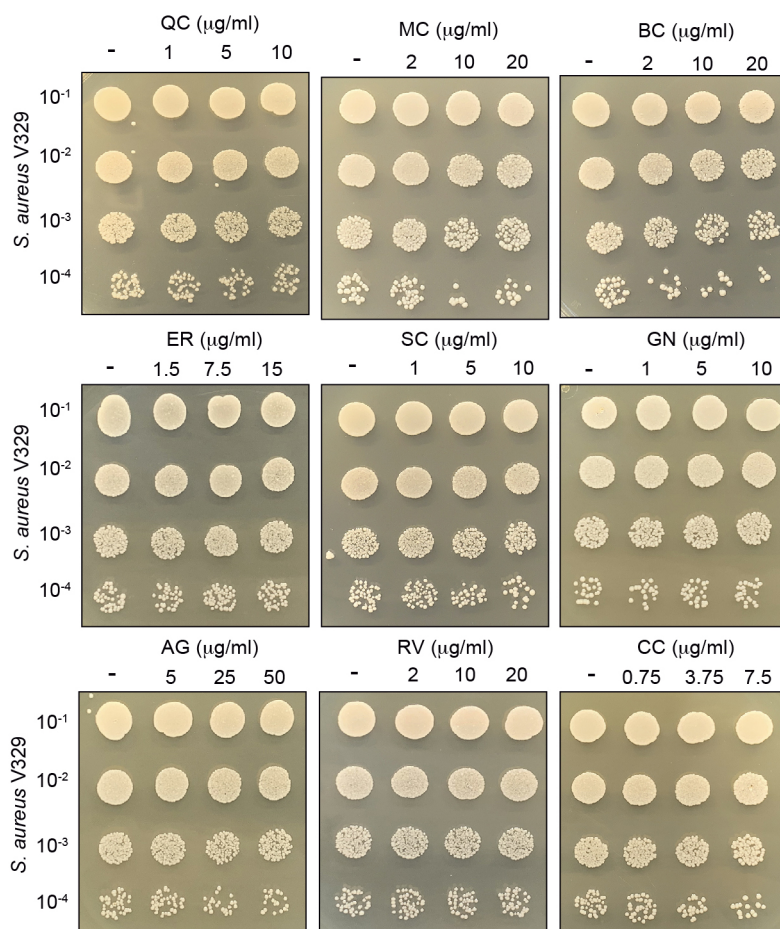


Figure S2. Bacterial growth on TSA medium. *S. aureus* was grown overnight in TSB-glu with sub-MICs dosages of the polyphenols. Serial dilutions were spotted on agar plates and were incubated at 37 °C.

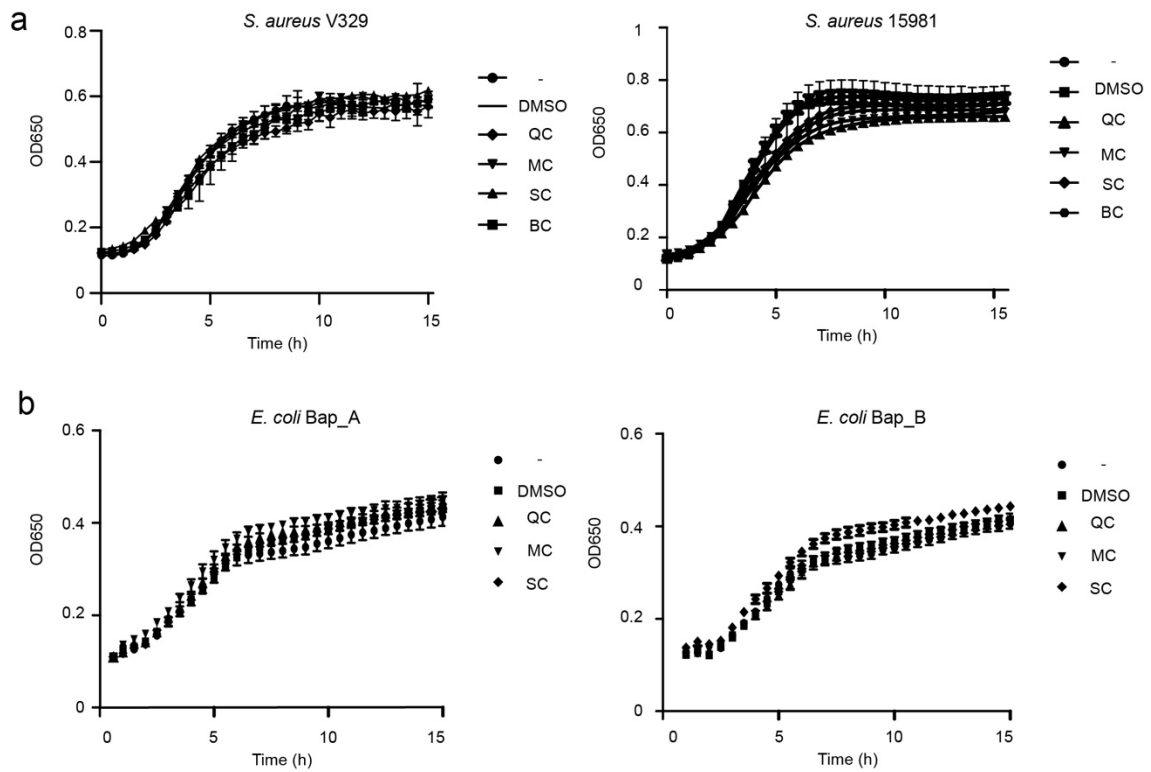


Figure S3: a) Growth curves of *S. aureus* V329 and 15981 strains in TSB-glu medium (-), and medium supplemented with DMSO 2% and MBIC of polyphenols. b) Growth curves of *E. coli* VS39 expressing the Bap_A and Bap_B in LB medium (-), and medium supplemented with DMSO 2% and MBIC of polyphenols. MBIC were used as 10 $\mu\text{g/ml}$ for quercetin (QC), 10 $\mu\text{g/ml}$ for myricetin (MC) and 5 $\mu\text{g/ml}$ for scutellarein (SC), 10 $\mu\text{g/ml}$ for baicalein (BC). Average and SD of three assays are represented.

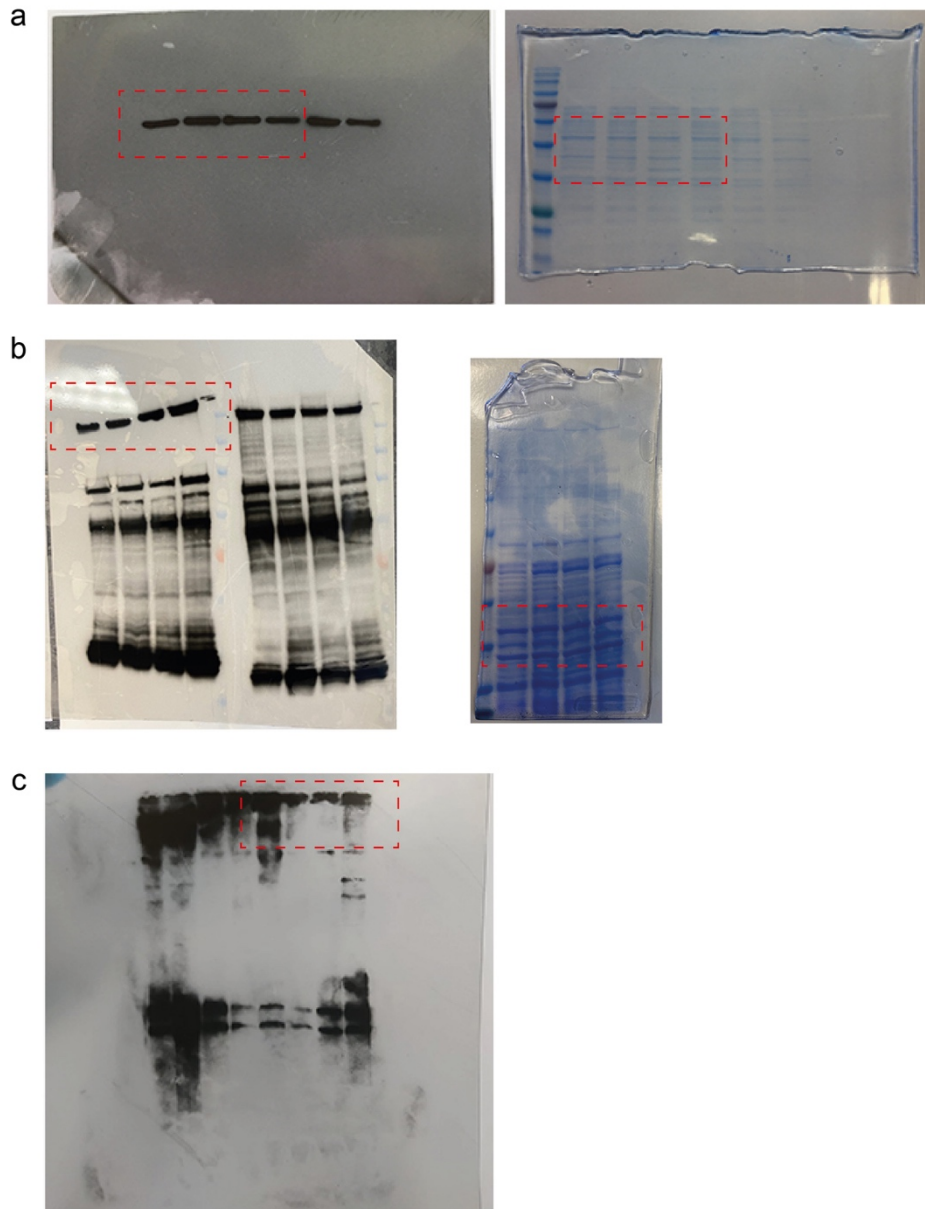


Figure S4. Full-length gels and blots shown in figure 3. a) GFP protein levels of *S. aureus* V329 with pCN52-Pbap:GFP plasmid in presence of MBICs of polyphenols. b) Bap protein levels of *S. aureus* V329 in presence of MBICs of polyphenols. c) Native immunoblotting of cell surface extracts *S. aureus* V329 cultured in presence of MBICs of polyphenols. Cropped gels and blots shown in figure 3 are marked with a red box.