Heavy metal adsoption by His6 taq display on the B.sbtilis surface using Sortase and Sortase substrate

<u>김다은</u>, 김우일¹, 김준형^{1,*} 동아대학교; ¹동아대학교 화학공학과 (june0302@dau.ac.kr*)

We used the sortase substrate as anchoring motif to display His6 tag on the B.subtilis cell surface. The sortase substrate has sorting signal at it's C-terminal and the sortase cleaves sorting signal of the sortase substrate and make a covalent bond between the sortase substrate and peptidogylcan cell wall. therefore we inserted His6 tag in front of Sortase substrate gene. constructed vector was transformed in B.subtilis. we confirmed His6 tag surface display by flow cytometry. In the future reserch, we'll anlayse heavy metal adsorption by Atomic Adsorption spectrometry and we'll display CotA using this system.