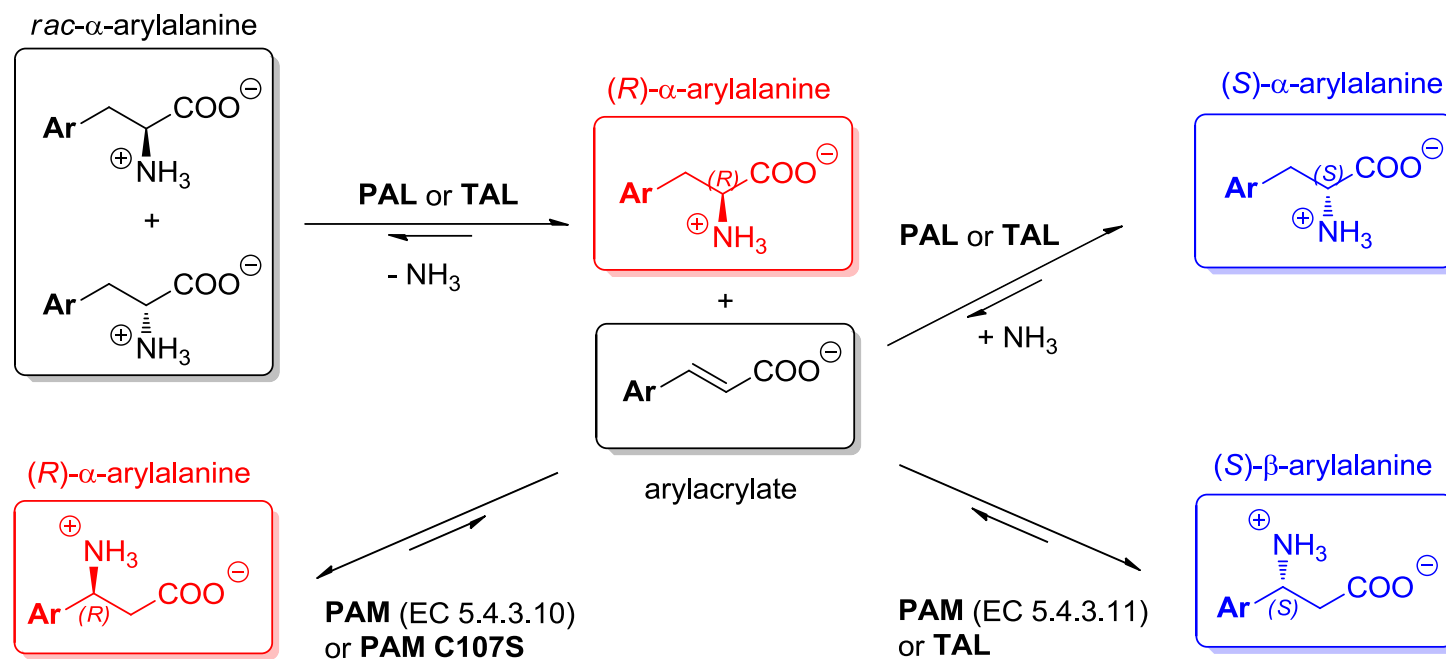


The MIO-enzyme toolbox

Routes to enantiopure (*R*)-/(*S*)- α/β arylalanines



Due to the biocatalytic potential and substrate tolerance of the ammonia-lyases (PAL and TAL) and 2,3-aminomutases (PAM and TAM), these enzymes are potential biocatalysts for preparation of both enantiomers of various α - and β -amino acids.

Therefore genes of various PALs (TALs) and PAMs (EC 5.4.3.10 and 5.4.3.11) were synthesized and expressed in recombinant *E. coli* for further studies.