

CALIFORNIA SCIENCE & ENGINEERING FAIR 2019 PROJECT SUMMARY

Name(s)	Project Number
Eva Chen	J0608
Project Title	
Revisit to the Synthesis of 1-(2-fluorophenyl)-1H-imidazole	
Abstract	
 Objectives My objective is to get the correct building block for future medicinal compounds (which is 1-(2-fluorophenyl)-1H-imidazole) and get a high yield percentage. Methods I tested phenyldihalide variety, base variety, reaction time, and the reaction temperature. These reactions varieties were tried in hope to synthesize 1-(2-fluorophenyl)-1H-imidazole. 	
Results After many trials and errors, I was successfully able to synthesize 1-(2-fluorophenyl)-1H-imidazole with a high yield percentage.	
Conclusions Using 2-iodo-1-fluorobenzene as the phenyldihalide and potassium carbonate instead of cesium carbonate as base led to the synthesis of my desired product.	
Summary Statement After many trials and errors I was successfully able to synthesis 1-(2-fluoropher	ıyl)-1H-imidazole.
Help Received Qiao-hong Chen, California State University Fresno	