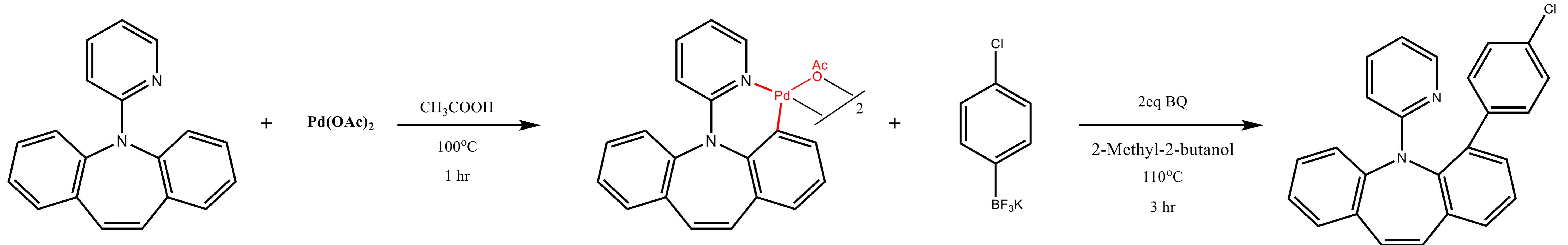


# Palladium-Catalyzed *ortho* Arylation of Iminostilbene via C-H Bond Activation

## 利用鈀金屬催化亞氨基芪分子之鄰位碳-氫鍵芳香基化反應研究

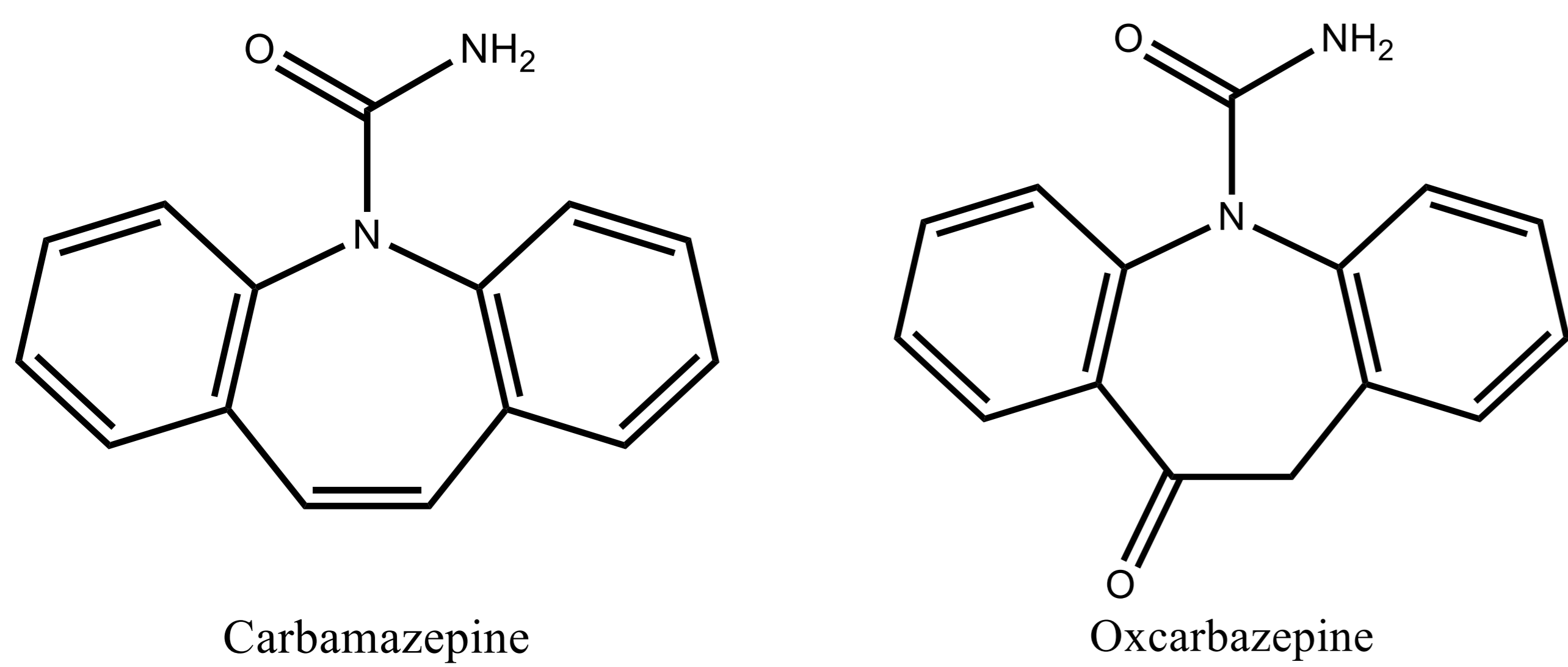
### Abstract

利用鈀金屬結合特定導向基團於亞氨基芪之鄰位進行芳香基化反應。2-碘吡啶作為鄰位活化的導向基團，利用亞氨基芪上氮原子之孤對電子和鈀金屬螯合來活化亞氨基芪的鄰位碳-氫鍵，最後在苯醌作為促進劑以及鉀（4-氯苯基）三氟硼酸鹽作為偶合試劑下得到鄰位芳香基取代亞氨基芪分子。

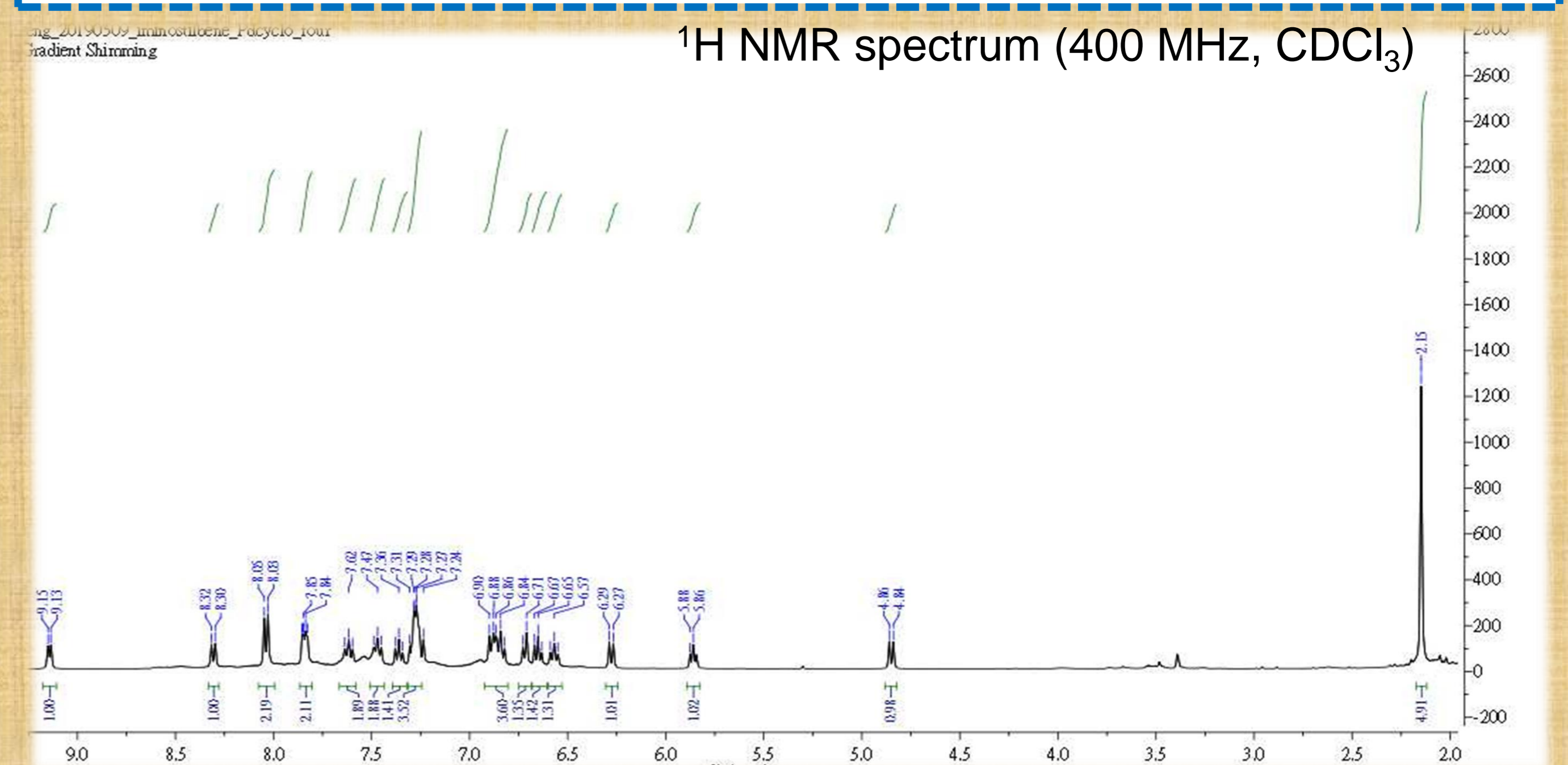
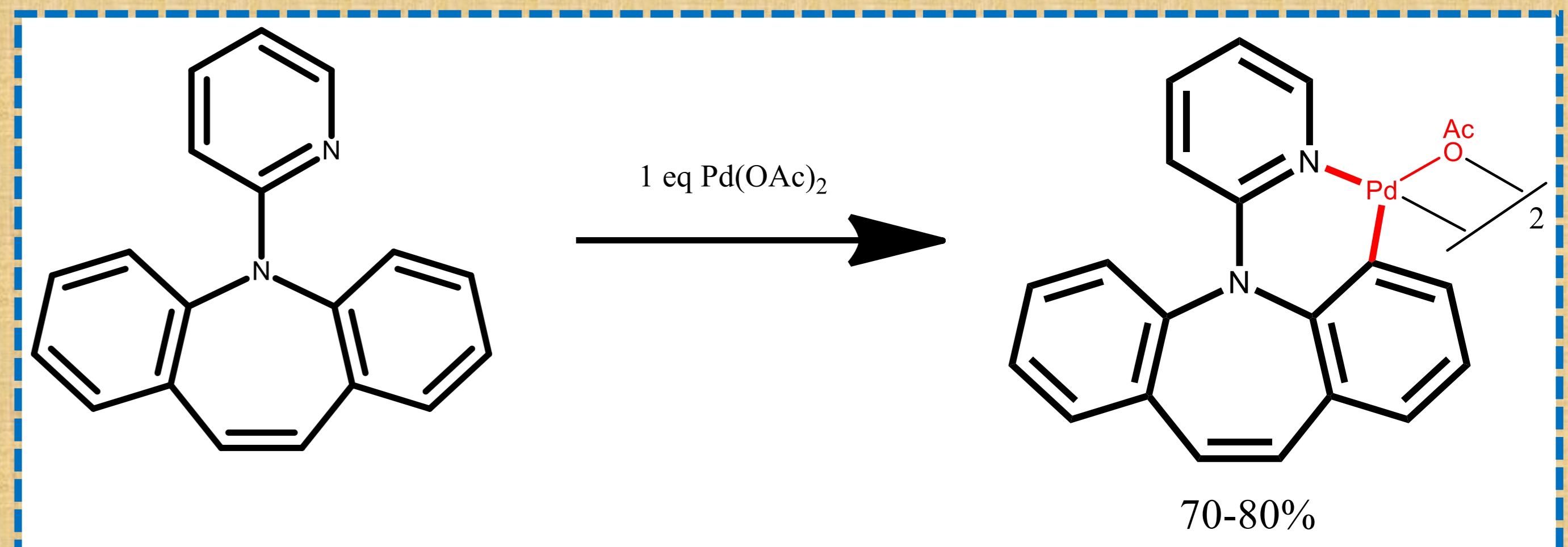


### Introduction

亞氨基芪分子根據先前文獻或研究發現具有相當高的藥物活性，並且已有主結構為亞氨基芪知藥品市售，並且普及於大眾。

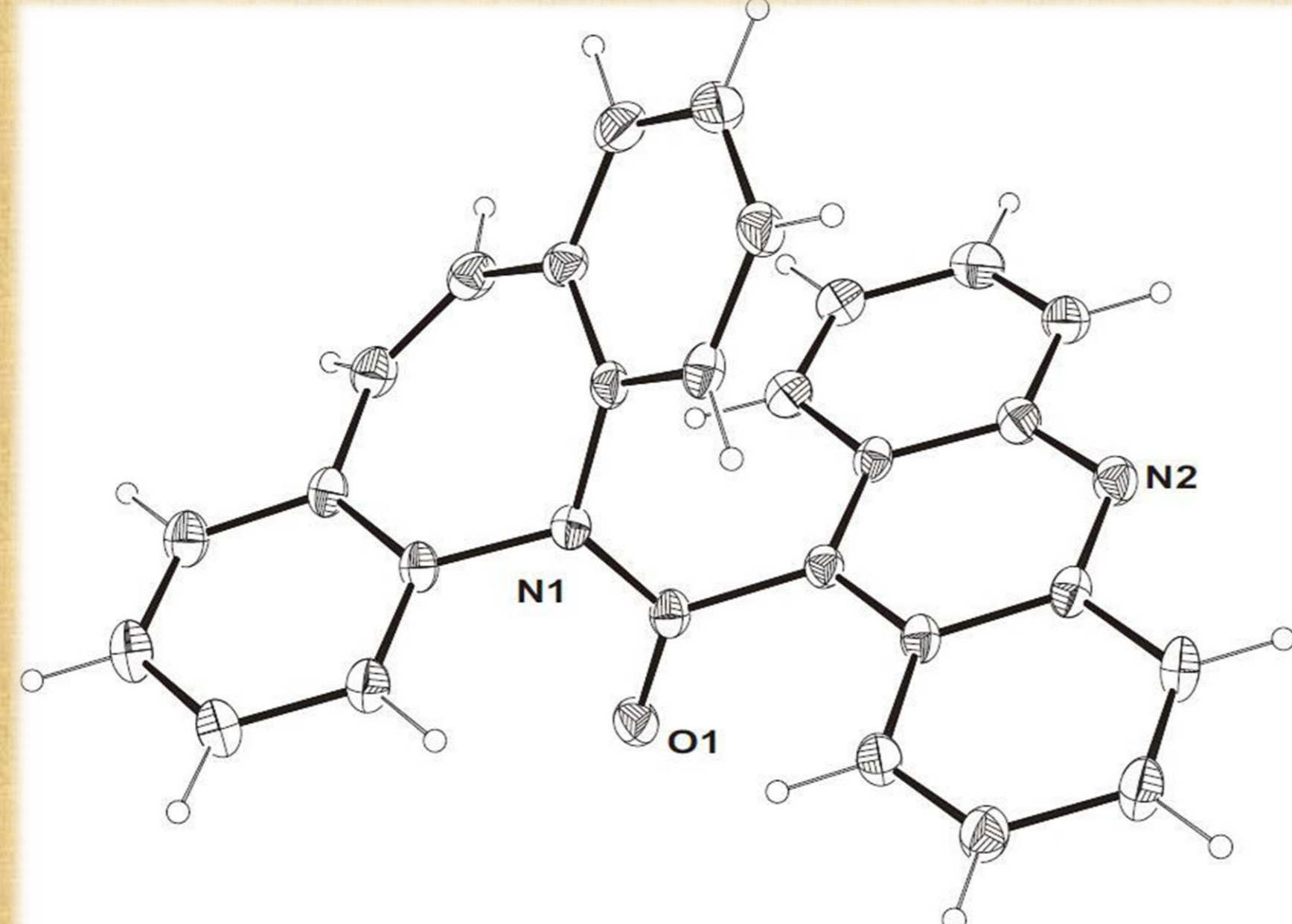
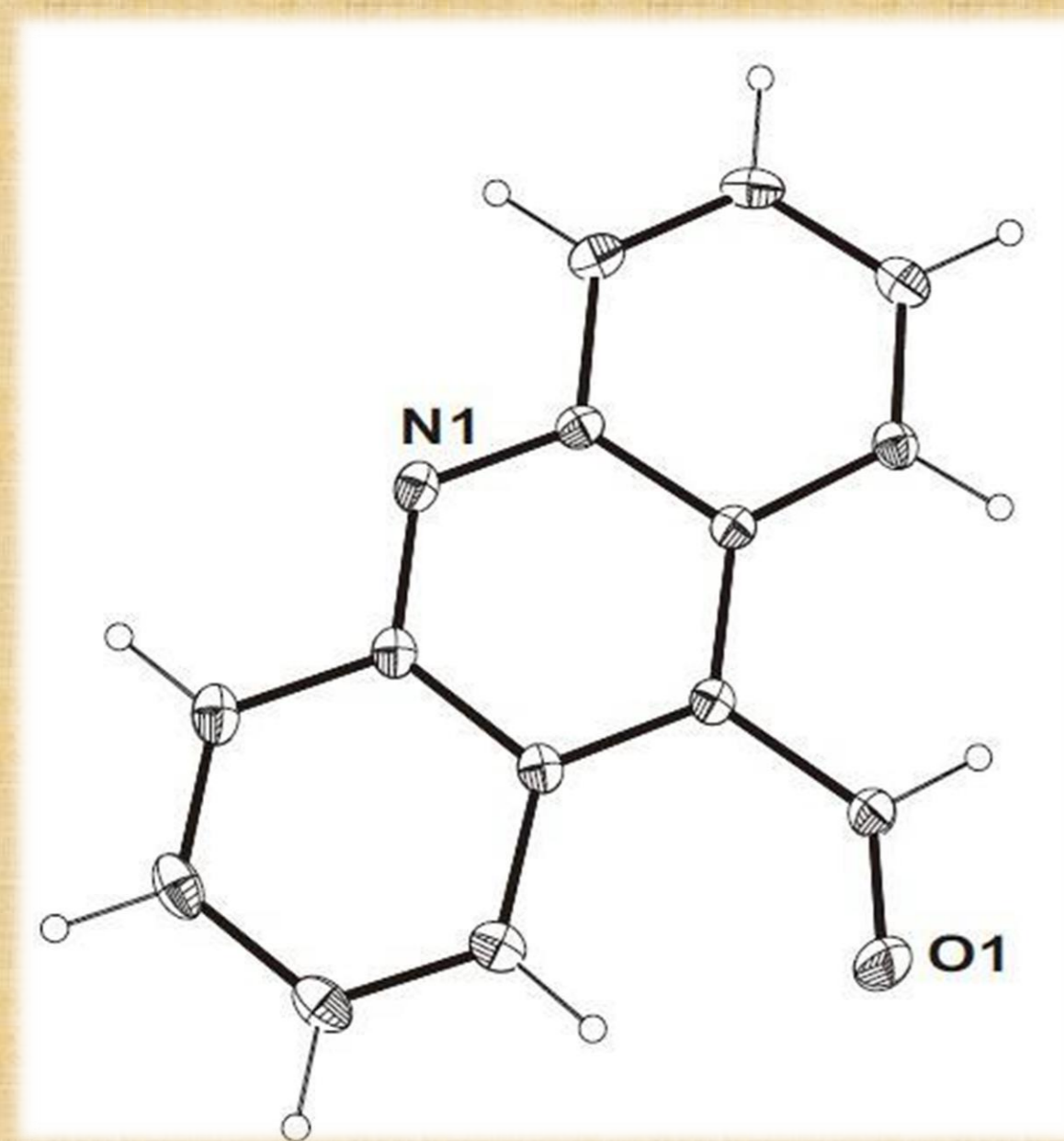
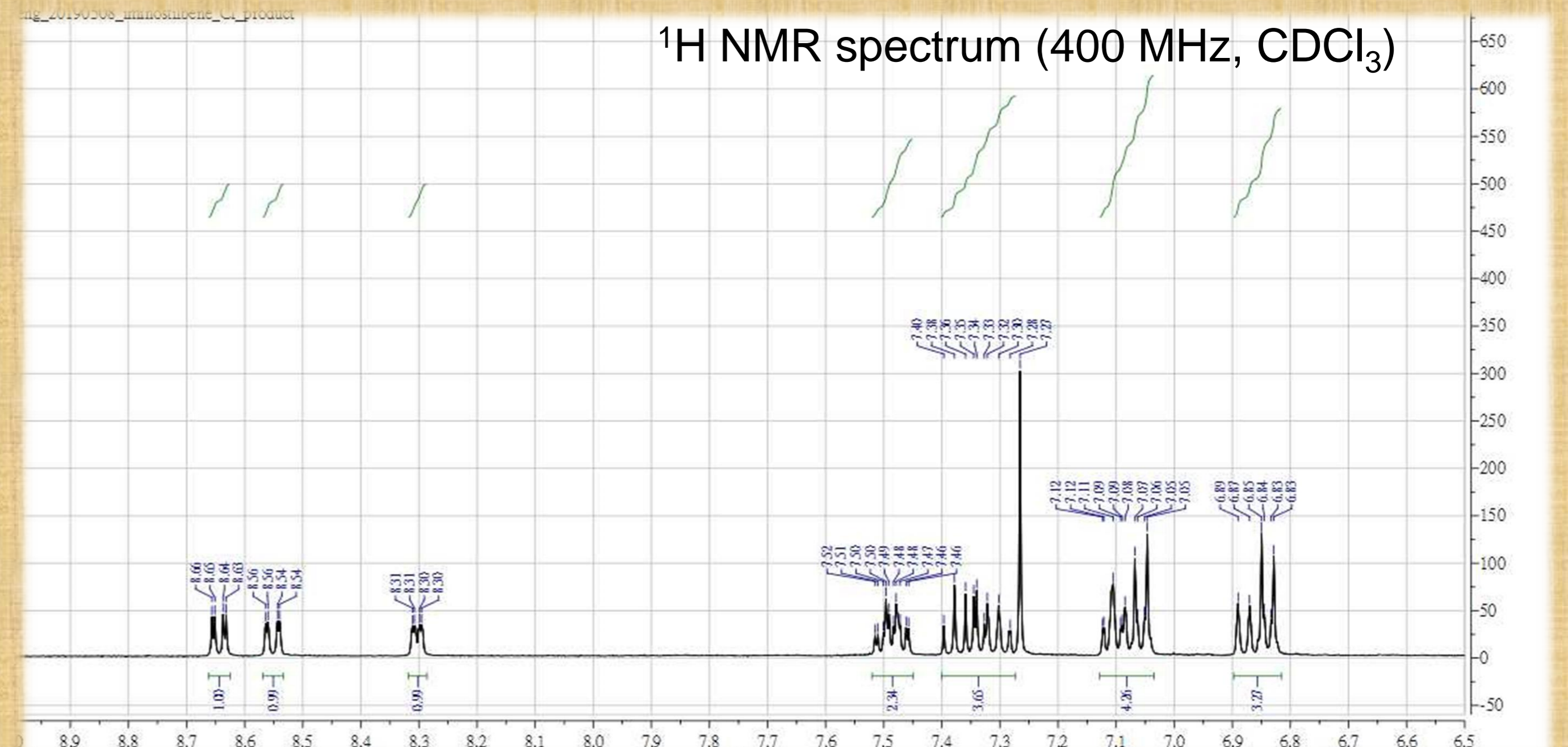
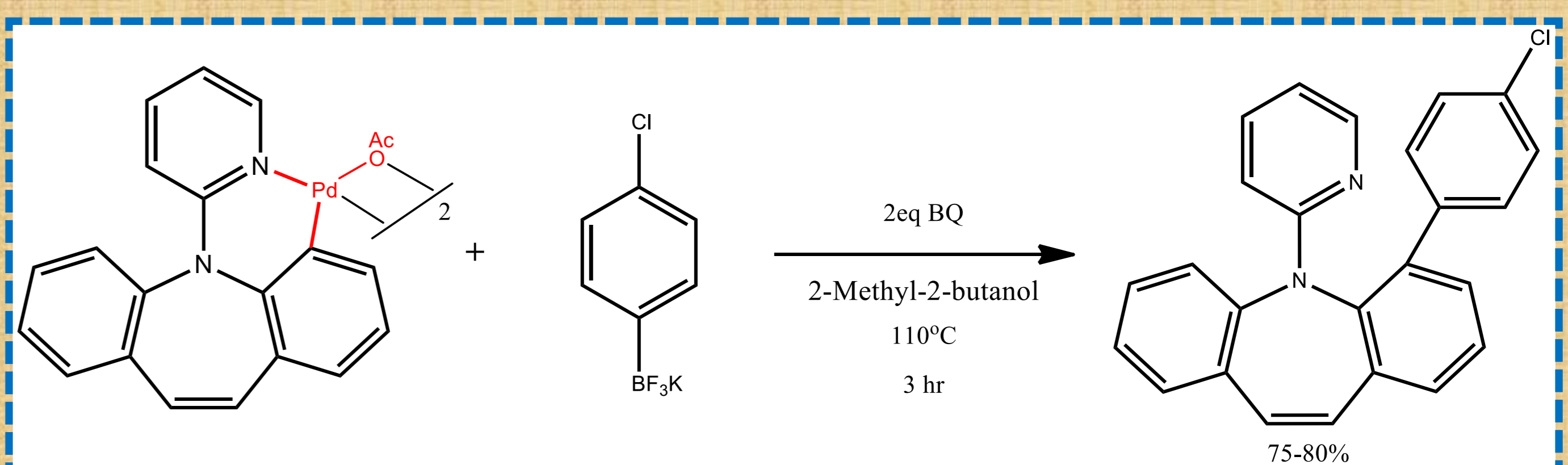
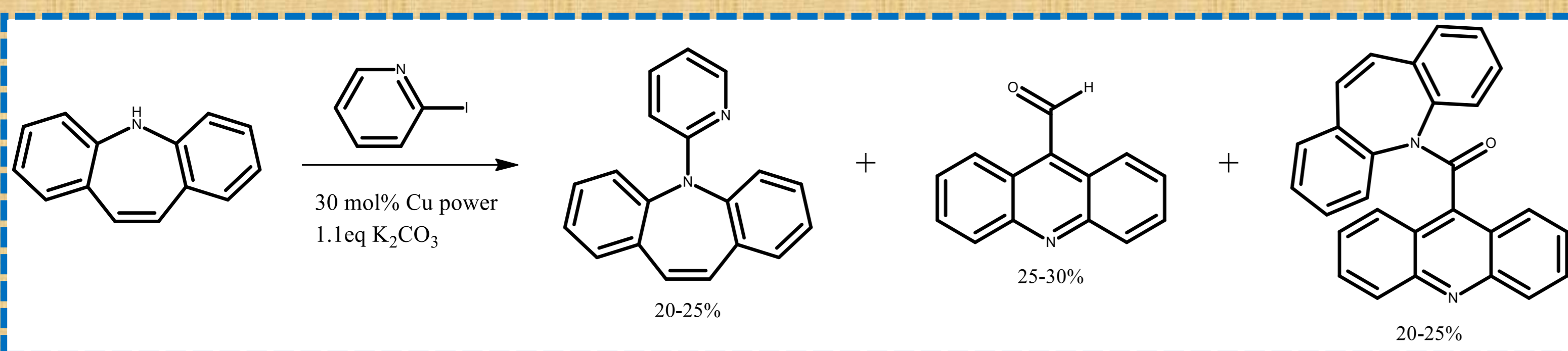


### Preparation of Palladacyclo



### Results and Discussion

#### Ullmann reaction



### Conclusion

本實驗可實現亞氨基芪鄰位C-H鍵活化/芳香基化，並合成出亞氨基芪衍生物，相信此研究果能夠對於亞氨基芪骨架分子合成與應用提供有合成方法。

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