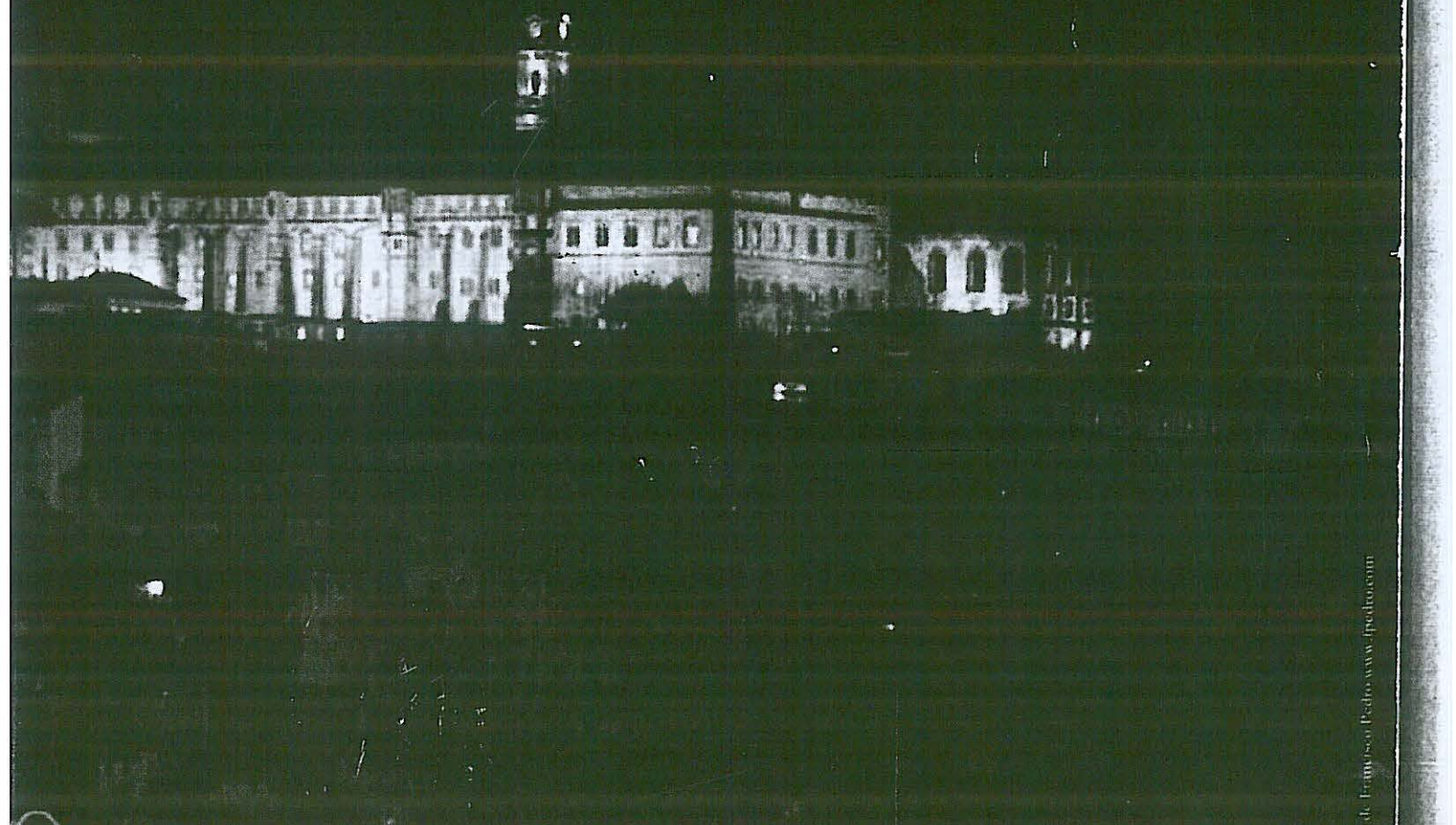




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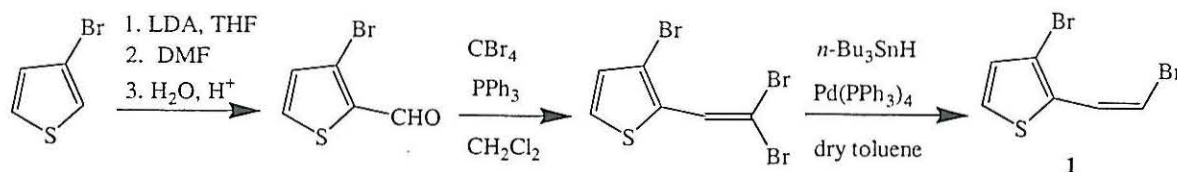
Suzuki Cross-Coupling of Benzo[*b*]thiophene 2- and 3-Boronic Acids with 3-Bromo-2-((*Z*)-2-bromovinyl)thiophene

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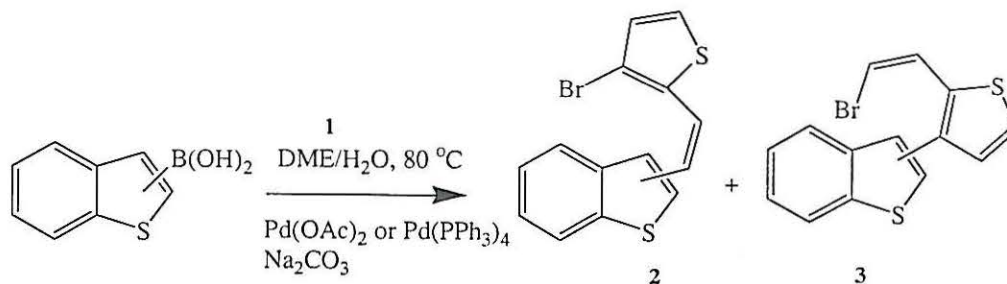
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In order to obtain precursors for a ring C convergent method to thienodibenzothiophene by an intramolecular Heck reaction, 3-bromo-2-((*Z*)-2-bromovinyl)thiophene **1** was prepared from 3-bromothiophene by an *ortho*-directed lithiation followed by electrophilic formylation and formation of the bromovinyl moiety¹ via the dibromo compound.



Compound **1** was coupled to benzo[*b*]thiophene 2- and 3-boronic acids to give mixtures of compounds identified by GC/MS technique and NMR spectroscopy.



Depending on the palladium catalyst used, different proportions of compounds **2** and **3** were obtained in the reaction.

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References:

- 1- Hans-Georg Herz, Maria-João R. P. Queiroz, Gerhard Maas, *Synthesis*, 1999, 1013-1016