

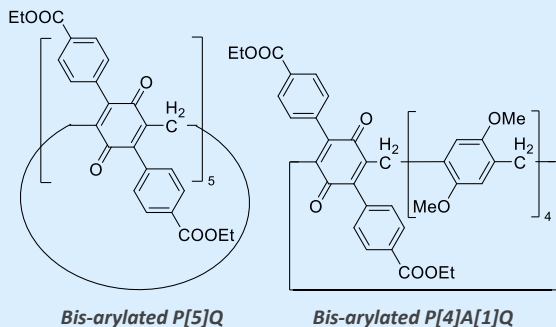
Main research objectives carried out at KU Leuven were as follows:

### Bis-arylation of pillarquinones

**Aim:** To synthesize a diverse series of host compounds with bis-arylation of pillarquinones

**Outcome:**

- Attempts to achieve bis-arylation on pillarquinones and pillararene-monoquinones were unsuccessful

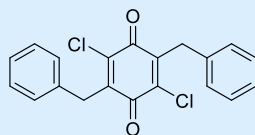


### Synthesis of model compound

**Aim:** To create quinone extended macrocyclic compounds for unique host-guest chemistry

**Outcome:**

- A synthetic approach for the model compound was successfully established
- Isolation of the product is still challenging



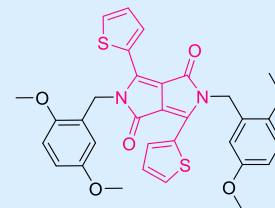
2,5-dibenzyl-3,6-dichlorocyclohexa-2,5-diene-1,4-dione  
(Model Compound)

### Synthesis of a novel macrocyclic host

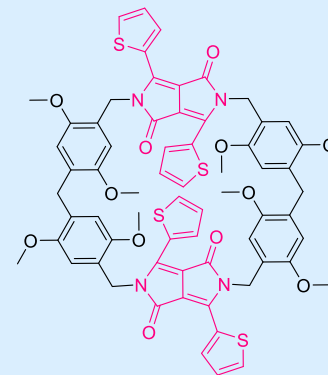
**Aim:** To create a fluorescent-based macrocycle for the applications of sensing and imaging

**Outcome:**

- Step 1.** N-alkylated DPP derivative was obtained



- Step 2.** Initial cyclization attempts were unsuccessful



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