特 別 講 演 会

主催：先導物質化学研究所

Wandering in the Wonderland of Unnatural Product Synthesis

［漫遊在非天然物合成的綺境］

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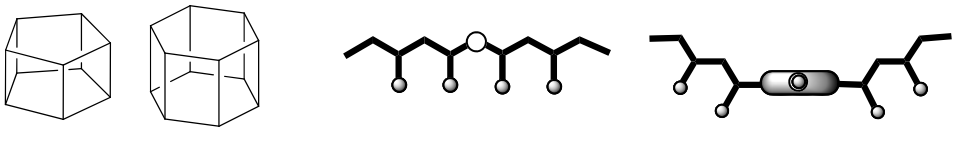
日時：２０１０年７月２３日（金）午後３時３０分より

会場：理学部化学第３講義室（箱崎キャンパス）

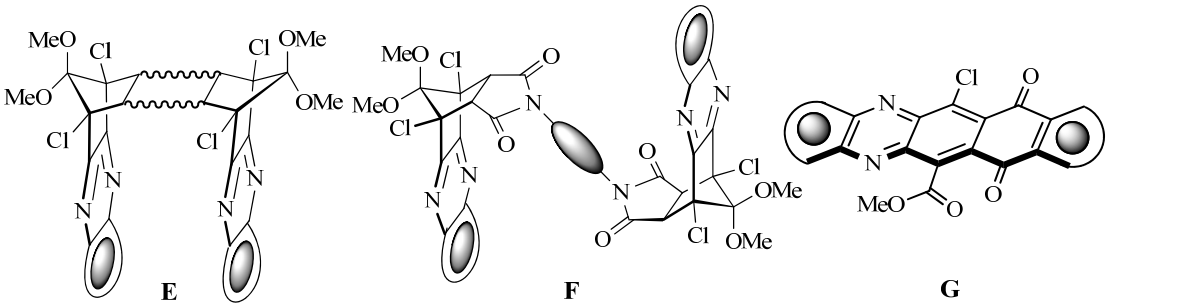
Unnatural products are human-made, not created by Nature. Their shapes (structures) are designed by human's imagination for the purpose of satisfying their curiosity, answering particular theoretical questions, or probing specific applications. The driving force for synthetic endeavor has been shifted in years toward more intensive emphasis on making molecules of specially designed architecture that may possess specific functions concurrent with contemporary applications.

In the 1980's, we initiated research projects aiming at the synthesis of cage compounds, particularly then actively quested pentaprismane (**A**) and hexaprismane (**B**), and subsequently the synthesis of laticyclic conjugated polyenes (**C**/**D**). Research work was soon after extended to the synthesis of quinoxaline-annelated polycyclic compounds, the U-shaped multi-bridged [n,n']orthocyclophanes (**E**) and the N-shaped π,π-stacked molecules (**F**). In this report, some results of solid-state structural and physicochemical investigation will be presented along with the synthetic work. Preliminary results of the most recent effort in the synthesis quinoxaline-embeded oligoacene derivatives (**G**) as new nitrogen-containing fluorescent molecules will also be presented.



A **B** **C** **D**

penta- and haxaprismanes　　laticyclic conjugated polyenes



E **F** **G**

U-shaped multi-bridged [n.n]orthocyclophanes　　N-shaped π–π stacking molecules　　quinoxaline-embeded oligoacenes

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