

## **Seminar**

# **Palladium Catalysed C-C bond Cleavage of Strained Carbocyclic Systems: A Useful Strategy in Organic Synthesis**

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During the last century direct functionalisation of inert bond such as C-C bond has been largely ignored due to its high bond strength and inertness. Since the beginning of 21<sup>st</sup> century there has been renewed interest in functionalising inert bonds through palladium catalyst for the synthesis of many useful organic molecules. As compared to C-H bond functionalisation, C-C bond functionalisation is far more difficult due to the high thermodynamic barrier in breaking the C-C bond. One useful strategy to overcome high thermodynamic barrier is to use strained ring systems as substrates. In our group we have employed this strategy for the synthesis of heterocycles and useful organic scaffolds. A brief overview of the works completed so far and our ongoing works will be presented.

***Thursday, Jan 19<sup>th</sup> 2023***

***4:00 PM (Tea/Coffee at 3:45 PM)***

***Auditorium, TIFR-H***