Synform SynOpen Highlight

Aryl Methyl Ketones: Versatile Synthons in the Synthesis of Heterocyclic Compounds

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Aryl methyl ketones, including heteroaryl analogues, are useful, cost-effective and commercially abundant substrates for the synthesis of aromatic heterocycles. The latter are very frequently used as building blocks in drug discovery and development, as a broad range of heterocycles can be very commonly found as key structural features in biologically active compounds. Among the key features of heterocycles in medicinal chemistry are their capacity for modifying ADME (absorption, distribution, metabolism, excretion) and pharmacokinetic properties (lipophilicity/hydrophilicity, solubility, hydrogen bonding, etc.), while improving the toxicological profile of drug candidates.

Modern methods for accessing heterocyclic compounds from aryl methyl ketones have been recently reviewed by way of a Graphical Review in *SynOpen*, authored by Mark J. Mitton-Fry and co-workers (The Ohio State University, Columbus, USA).

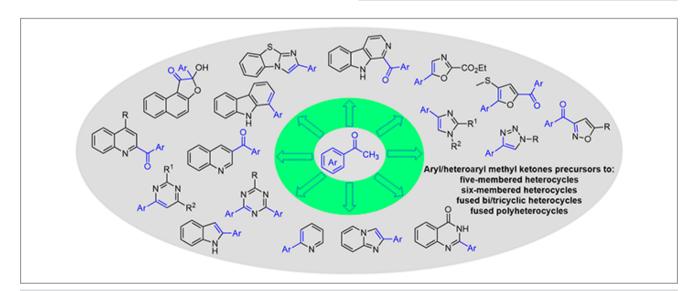
Dr. Shabber Mohammed, co-corresponding author and a postdoc in the Mitton-Fry lab said: "I am pleased to share a few words about my experience in publishing my Graphical review in *SynOpen*. It was my first experience publishing in the scientific community as a corresponding author. In addition, the concept of Graphical Review was very new to me,

although I easily accommodated it in the manuscript preparation. I am thankful to the editorial board for supporting each step in clarifying any doubt about the publishing process. Their timely responses were highly appreciated. I have been impressed with the excellent professionalism of constructive editorial work and the quick turnaround time for our manuscript as a publication. I am sure this wonderful knowledge-disseminating journal will reach millions of science readers in the future. I am thankful and grateful to *SynOpen* team members for accommodating my review in this journal."

Matter tamble



From left to right: S. Mohammed, J. S. West, M. J. Mitton-Fry



Scheme 1 Graphical abstract of the Mitton-Fry group's SynOpen Graphical Review