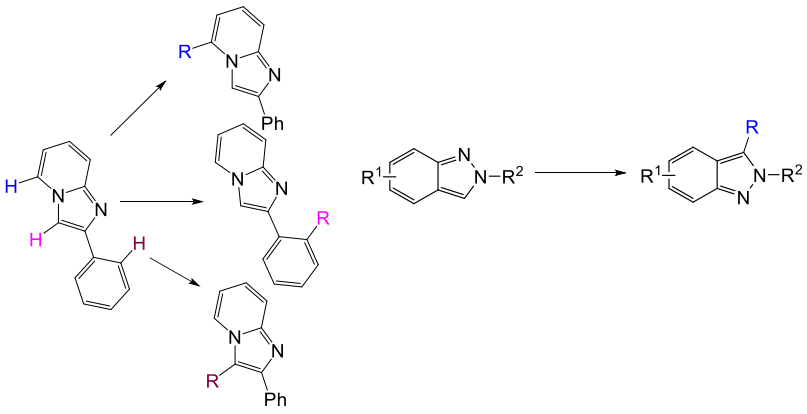
Prof. D. Nasipuri Memorial Award Lecture
57th Annual Convention of Chemists (ACC) - Indian Chemical Society (ICS)
Recent Trends in Chemical Sciences (RTCS 2020)

Regioselective C−H Functionalization of Indazoles and Imidazopyridines

Alakananda Hajra*
Asst. Professor of Chemistry
Visva-Bharati University, West Bengal
e-mail: alakananda.hajra@visva-bharati.ac.in

Abstract:
Heterocyclic compounds have gained a great deal of attention as majority of the drugs contain heterocycle scaffolds. So the developments of new synthetic strategies for heterocycles are prime targets of the organic chemists over the years. Imidazopyridine is one of the important fused bicyclic 5–6 heterocycles and it is recognized as "drug prejudice" scaffold due to its wide applications in medicinal chemistry. This scaffold is the constituent of various marketed drug like zolpidem, alpidem, zolimidine, necopidem, saripidem etc. In this lecture I will discuss our recent works on sustainable synthesis of imidazo[1,2-*a*]pyridines,[1,2] and indazoles[3]



Scheme 1. Regioselective functionalization of imidazopyridine and indazole

References and Notes:

1. (a) Bagdi, A. K.; Santra, S.; Monir, K; Hajra, A. *Chem. Commun.* **2015,** *51***,** 1555; (b) Monir, K.; Bagdi, A. K.; Ghosh, M.; Hajra, A. *Org. Lett.* **2014**, *16*, 4630.
2. (a) Mitra, S.; Hajra, A. *Org. Lett*, **2014**, *16*, 5652; (b) Mishra, S.; Monir, K.; Mitra, S.; Hajra, A. *Org. Lett*, **2014**, 16, 6084; (c) Mondal, S.; Hajra, A. *Org. Lett*, **2017**, *19*, 3751; (d) Samanta, S.; Mondal, S.; Ghosh, D.; Hajra, A. *Org. Lett*, **2019**, *21*, 4905.; (e) Singsardar, M.; Mondal, S.; Laru, S. Hajra, A. *Org. Lett*, **2019**, *21*, 5606.
3. (a) Ghosh, P.; Mondal, S.; Hajra, A. *Org. Lett*, **2020**, *22*, 1086; (b) Neogi, S.; Ghosh, A. K.; Majhi, K.; Samant, S.; Kibriya, G.; Hajra, A. *Org. Lett.* **2020**, *22*, 5605.

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Bio-Sketch of Speaker

Dr. Alakananda Hajra
Department of Chemistry
Visva-Bharati University, WB, India.
Web: http://vbchem.ac.in/AlakanandaHajra/
Email: alakananda.hajra@visva-bharati.ac.in

Dr. Alakananda Hajra graduated (M.Sc) from the Department of Chemistry, Indian Institute of Technology, Kharagpur India in 1998. After completing his Ph.D in 2002 under the supervision of Prof. B. C. Ranu from Indian Association for the Cultivation of Science (IACS), Kolkata he joined in SUNY at Albany, USA as a postdoctoral research fellow with Prof. Frank M. Hauser (2002-04). He was also a JSPS research Fellow in the University of Tokyo and worked with Prof. Eiichi Nakamura and Prof. Masaharu Nakamura from November 2004 to May, 2006. He also worked with Prof. N. Yoshikai, NTU, Singapore for one year (2011-2012) as a visiting scientist. His research interests are the development of new synthetic methodologies and green synthetic procedures. He has published more than 167 peer-reviewed articles with more than 6600 citations, giving him a *h*-index of 41.

Awards / Honors / Membership:

- Professor D Nasipuri Memorial Award for the year 2019 by Indian Chemical Society
- Chemical Research Society of India (CRSI) Bronze Medal Award for the year 2018
- Prof. D. K. Banerjee Memorial Lecture Award for the year 2015 from Indian Institute of Science