

CURRICULUM VITAE

Diksha Singh
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Scholastic Record:

Ph.D. (Organic Chemistry): University Of Strasbourg, France.

M.S (Chemistry): Indian Institute of Science Education and Research Bhopal, India.

Year: August 2016- May 2019.

Research Advisor: Dr. Manmohan Kapur

Course work: CPI 8.85/10.0

Thesis Title: "Directed C-H Functionalization of Arenes with Allyl Alcohol as a Coupling Partner".

B.Sc. Hons. (Chemistry): University Of Delhi, India.

Year: August 2013- July 2016. (Percentage obtained: 90%)

Research Interests:

- Development of new catalytic methods, to enable the rapid generation of architecturally complex and biologically important molecules from simple building blocks.
- Enantioselective synthesis of biologically active molecules *via* C-H bond functionalization.
- Transition metal catalyzed C-H bond functionalization and multicomponent reactions.
- Mechanistic investigation of transformations throughout the reaction pathway.

Publications:

1. Kumar, G. S.; Singh, D.; Kumar, M.; Kapur, M. "Palladium-Catalyzed Aerobic Oxidative Coupling of Allylic Alcohols with Anilines in the Synthesis of Nitrogen Heterocycles" *J. Org. Chem.* 2018, 83, 3941-3951.
2. Kumar, G. S.; Chand, T.; Singh, D.; Kapur, M. "Ruthenium-Catalyzed C-H Functionalization of Benzoic Acids with Allyl Alcohols: A Controlled Reactivity Switch between C-H Alkenylation and C-H Alkylation Pathways" *Org. Lett.* 2018, 20, 4934-4937.
3. Singh, D.[#]; Kumar, G. S.[#]; Kapur, M. "Oxazolonyl-Assisted Ru(II)-Catalyzed C-H Allylation with AllylAlcohols and Synthesis of 4-Methyleneisochroman-1-ones" DOI: 10.1021/acs.joc.9b01536.

Conference/Symposium:

Participated in:

- "InTeRaCTiONS" Third In-house Symposium, Department of Chemistry, IISER Bhopal, Oct 2016.
- "pre-ICOS" (International Conference on Organic Chemistry), at IISER Bhopal, Dec 2016.
- "Elsevier Workshop on scholarly publication" at IISER Bhopal, May 2017.
- "XVIII NOST" (National Organic Symposium Trust) meeting at IISER Bhopal, Aug 2017.
- "InTeRaCTiONS" Fourth In-house symposium, Department of Chemistry, IISER Bhopal, Oct 2017.

Awards and Achievements:

- Secured All India Rank 203 in IIT JAM, 2016.
- Obtained a score of 93 in TOEFL iBT exam.