Dr. Aanchal Batra

Assistant Professor
PG Department of Chemistry
aanchalbatra1@gmail.com
Contact Number 9814303700

Areas of Interest

- Synthetic and mechanistic organic chemistry with focus on C-H activation of heteroatom containing compounds under oxidative conditions.

Educational details

Degree	Year	University	Percentage	Medals/ Positions
Matriculation	2004	I.C.S.E	88.3	1st
10+2 (Medical)	2006	P.S.E.B	70.4	1st
B.Sc. Medical	2009	Panjab University	84.9	1st
M.Sc. Hons School	2011	Panjab University	77.8	1st
PhD in Synthetic Organic Chemistry	2015	Panjab University		Completed

Professional Details

Designation	From	To	Organization
Assistant Professor	15-07-2015	19-04-2018	DAV College Chandigarh
Assistant Professor	21-07-2018	Present	MCM DAV College for Women Chandigarh

Awards & Recognitions

Award	Institute	Year
UGC NET		2010

Research Publications

Title	Journal	Refereed	Date and Year of Publication	Online Link
Cross Dehydrogenative Coupling of Dithiolanes with Ketones and	Synlett	Yes	10-06-2013	https://www.thieme-connect.com/products/ejournals/pdf/10.1055/s-0033-1339335.pdf

Indoles under Metal free Conditions				
Oxidative C-Se Coupling of Formamides and Diselenides by Using Aqueous tert-Butyl Hydroperoxide: A Convenient Synthesis of Selenocarbamates	**European Journal Of Organic Chemistry**	**Yes**	**29-10-2013**	https://onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.201301248
Transition-Metal-Free Arylation of *N*-Alkyl-tetrahydroisoquinolines under Oxidative Conditions: A Convenient Synthesis of C1-Arylated TetrahydroisoquinolineAlkaloids	**Synthesis**	**Yes**	**27-05-2014**	https://www.organic-chemistry.org/abstracts/lit4/694.shtm
Cross Dehydrogenative Coupling (CDC) Reactions of *N*,*N*Disubstituted Formamides, Benzaldehydes and Cycloalkanes	**European Journal Of Organic Chemistry**	**Yes**	**27-06-2016**	https://onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.201600401
Recent Advances in Functionalization of α-C(sp3)–H Centres in Inactivated Ethers through Cross Dehydrogenative Coupling	**European Journal Of Organic Chemistry**	**Yes**	**20-04-2017**	https://onlinelibrary.wiley.com/doi/10.1002/ejoc.201700341

Conferences, Workshops and Lectures Attended

1. Poster Presentation in Prof. Ram Chand Paul National Symposium on Frontiers in Chemical Sciences 24-25 Feb, 2012 on the title **Metal free oxidative C-C bond forming reaction of dithiolane with simple ketones (Best Poster Award)**.
2. Poster Presentation in 6th Chandigarh Science Congress (CHASCON) 26-28 Feb, 2012 on the title **An efficient Cross Dehydrogenative Coupling of sp^3 C-H bonds adjacent to sulphur with simple ketones**.
3. Poster Presentation in National Symposium on Recent Advances in Chemical Sciences 20th September, 2012 on the title **Direct functionalization of Dithiolanes with Ketone and Indole through oxidative C-H activation under Metal-Free Conditions.**
4. Poster Presentation in Prof. Ram Chand Paul National Symposium on New Developments in Chemical Sciences 23-24 Feb, 2013 on the title **Metal free oxidative selenylation of Formamides with Diselinides via Cross Dehydrogenative Coupling (CDC) approach: Direct formation of C-Se bond.**
5. Poster Presentation in 7th Chandigarh Science Congress (CHASCON) 1st-3rd March, 2013 on the title **TBHP mediated oxidative coupling at sp^2 C-H centre of Formamides with Diselinides under metal free conditions (Best Poster Award)**.
6. Poster Presentation in International Conference on Interdisciplinary areas with Chemical Sciences (ICIAS-2013) 30th Oct-1st Nov 2013 on the title **Direct C-1 arylation of *N*-alkyl tetrahydroisoquinolines under metal free oxidative conditions**.
7. Poster Presentation in Indian Chemical Society 50th Annual Convention of Chemists 2013 **DEAD mediated direct sp^3 C-H bond arylation adjacent to nitrogen. Synthesis of C-1 arylated tetrahydroisoquinolines**.
8. Oral Presentation in Prof. Ram Chand Paul National Symposium on New Visions in Chemical Sciences 15-16th Feb, 2014 on the title **Metal free oxidative arylation of *N*-alkyl tetrahydroisoquinolines with aryl Grignard reagent's using DEAD as an oxidant: a convenient synthesis of C-1 arylated tetrahydroisoquinolines.**
9. Poster Presentation in Asian Network for Natural and Unnatural Materials (ANNUM-3) 28th – 2nd March, 2015 on the title **Transition metal catalysed oxidative amidation of Aldehydes with Aromatic Amines *via* Cross Dehydrogenative Coupling (CDC) approach: Direct formation of C-N bond.**
10. Poster Presentation in Prof. Ram Chand Paul National Symposium on Innovations in Chemical Sciences

20-21st March, 2015 on the title **Oxidative Amidation of Aldehydes with Aromatic Amines *via* Cross Dehydrogenative Coupling (CDC): Direct formation of C-N bond.**

11. Poster Presentation in National Seminar on "Innovations and Challenges in Basic and Applied Sciences" 4th March, 2017 on the title **Oxidative Metal Free Coupling For The Construction Of C-C/C-N/C-P Bond Under Mild Conditions.**

12. Attended lecture-cum workshop on **Quantum Chemistry and Spectroscopy** sponsored by Indian Academy of Sciences, Bengaluru in S.G.G.S. Khalsa College Mahilpur, Hoshiarpur, Punjab (INDIA) on 28-29 September 2018.

13. Attended lecture-cum-workshop on **Nanoscience, Nanotechnology and its Environmental Applications** on 9th August 2018.

14. Attended Science Fest sponsored by DST, Chandigarh on the theme **Wonders of Science** on 4th October 2018.
15. Attended lecture on **Awareness on Primary Immunodeficiency Diseases (PID)** by Prof. Nima Rezaei of Tehran University of Medical Sciences on 21st February, 2019.
16. Attended a lecture on **Glass Ceiling** by Dr. Manoj Kumar of PGGCG-11, Chandigarh on 6th February, 2019.
17. Attended a lecture on **Empowering Women through Cyber Crime Awareness** by Ms. Rashmi Sharma Yadav, Deputy Superintendent of Police, Chandigarh on 29th August, 2018.
18. Attended a Workshop on **Sanitary Pad Making** on 22nd February, 2019.
19. Attended a lecture on **Pharmaceutical Chemistry: Contribution to Society** delivered by Dr. Deepak Salunke of PU, Chandigarh as a part of National Science Day celebration sponsored by Punjab State Council for Science and Technology on 25th February 2019.