

**Dr.AanchalBatra**

AssistantProfessor  
PG Department of  
Chemistry [aanchalbatra@mcmd.acwchd.in](mailto:aanchalbatra@mcmd.acwchd.in),  
[aanchalbatra1@gmail.com](mailto:aanchalbatra1@gmail.com) Contac  
tNumber9814303700

**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	MCMDAV College for Women Chandigarh

**Awards & Recognitions**

Award	Institute	Year
UGCNET		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	<a href="https://www.thieme-connect.com/products/ejournals/pdf/10.1055/s-0033-1339335.pdf">https://www.thieme-connect.com/products/ejournals/pdf/10.1055/s-0033-1339335.pdf</a>

<b>Indoles under Metal free Conditions</b>				
<b>Oxidative C-Se Coupling of Formamides and Diselenides by Using Aqueous tert-Butyl Hydroperoxide: A Convenient Synthesis of Selenocarbamates</b>	European Journal Of Organic Chemistry	Yes	29-10-2013	<a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.201301248">https://onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.201301248</a>
<b>Transition-Metal-Free Arylation of N-Alkyl-tetrahydroisoquinolines under Oxidative Conditions: A Convenient Synthesis of C1-Arylated Tetrahydroisoquinoline Alkaloids</b>	Synthesis	Yes	27-05-2014	<a href="https://www.organic-chemistry.org/abstracts/lit4/694.shtm">https://www.organic-chemistry.org/abstracts/lit4/694.shtm</a>
<b>Cross Dehydrogenative Coupling (CDC) Reactions of N,N-Disubstituted Formamides, Benzaldehydes and Cycloalkanes</b>	European Journal Of Organic Chemistry	Yes	27-06-2016	<a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.201600401">https://onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.201600401</a>
<b>Recent Advances in Functionalization of <math>\alpha</math>-C(sp<sup>3</sup>)-H Centres in Inactivated Ether through Cross Dehydrogenative Coupling</b>	European Journal Of Organic Chemistry	Yes	20-04-2017	<a href="https://onlinelibrary.wiley.com/doi/10.1002/ejoc.201700341">https://onlinelibrary.wiley.com/doi/10.1002/ejoc.201700341</a>
<b>Recent Developments in Transition Metal-Free Cross-Dehydrogenative Coupling Reactions for C-C Bond Formation</b>	European Journal Of Organic Chemistry	Yes	29-07-2020	<a href="https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.202000785">https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.202000785</a>

<b>Transition-Metal-Free Strategies for the Synthesis of C-1 Aryl-Substituted Tetrahydroisoquinolines</b>	<b>Synthesis</b>	<b>Yes</b>	<b>27-01-2021</b>	<a href="https://www.thieme-connect.com/products/ejournals/abstract/10.1055/a-1344-2074">https://www.thieme-connect.com/products/ejournals/abstract/10.1055/a-1344-2074</a>
<b>Latest Advancements in Transition-Metal-Free Carbon-Heteroatom Bond Formation Reactions <i>via</i> Cross-Dehydrogenative Coupling</b>	<b>Asian Journal Of Organic Chemistry</b>	<b>Yes</b>	<b>03-03-2021</b>	<a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/ajoc.202100070">https://onlinelibrary.wiley.com/doi/abs/10.1002/ajoc.202100070</a>

## 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 6<sup>th</sup> 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 20<sup>th</sup> 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 Diselindes via Cross Dehydrogenative Coupling (CDC) approach: Direct formation of C-Se bond**.
5. Poster Presentation in 7<sup>th</sup> Chandigarh Science Congress (CHASCON) 1<sup>st</sup>-3<sup>rd</sup> March, 2013 on the title **TBHP mediated oxidative coupling at  $sp^2$  C-H centre of Formamides with Diselindes under metal free conditions (Best Poster Award)**.
6. Poster Presentation in International Conference on Interdisciplinary areas with Chemical Sciences (ICIAS-2013) 30<sup>th</sup> Oct-1<sup>st</sup> 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 50<sup>th</sup> 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 15-16<sup>th</sup> 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) 28<sup>th</sup> - 2<sup>nd</sup> 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 20-21<sup>st</sup> 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" 4<sup>th</sup> 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 9<sup>th</sup> August 2018.
14. Attended Science Fest sponsored by DST, Chandigarh on the theme **Wonders of Science** on 4<sup>th</sup> October 2018.
15. Attended lecture on **Awareness on Primary Immunodeficiency Diseases (PID)** by Prof. Nima Rezaei of Tehran University of Medical Sciences on 21<sup>st</sup> February, 2019.
16. Attended a lecture on **Glass Ceiling** by Dr. Manoj Kumar of PGGCG-11, Chandigarh on

6<sup>th</sup> February, 2019.

17. Attended a lecture on **Empowering Women through Cyber Crime Awareness** by Ms. Rashmi Sharma Yadav, Deputy Superintendent of Police, Chandigarh on 29<sup>th</sup> August, 2018.
18. Attended a Workshop on **Sanitary Pad Making** on 22<sup>nd</sup> February, 2019.
19. Attended a seminar cum workshop to celebrate 150<sup>th</sup> year of periodic table by Dr. Vimal K. Bhardwaj, Asst. Prof., Dept. of Chemistry, Dr. B. R. Ambedkar NIT, Jalandhar on 2<sup>nd</sup> November, 2019.
20. Attended a **seminar on "Rethinking Scientific Presentations: The Assertion-Evidence Structure"** by **Prof. Michael Alley** from Pennsylvania State University, USA on 14<sup>th</sup> November, 2019.
21. Attended a **webinar, "The Third Alphabets of Life and Synthetic Vaccines"** by **Prof. S. Eswaran, Visiting Professor, Regional Centre for Biotechnology, Fairdabad** on 31/7/2020.
22. **Online FDP, E-Content Development and Deployment using GSuite** organized by Department of Computer Science and Applications, Mehr Chand Mahajan DAV College for Women, Chandigarh, 5 days, 20-07-2020 to 24-07-2020.
23. **Online Orientation** Organized by Teaching Learning Centre, Ramanujan College, Delhi University, MHRD, 28 days from 26-6-2020 to 24-7-2020.
24. Attended National Symposium **Zabaan-o-Adab** celebrating the confluence of languages, Mehr Chand Mahajan DAV College for Women in Collaboration with Haryana Urdu Akademi & Punjab Arts Council on 19-10-2019.
25. Attended a RUSA sponsored online Workshop cum awareness programme on **Character Building through education with special reference to National Education Policy 2020** on 25/2/2021.
26. Attended a RUSA Sponsored Online Workshop on **"Online Assessment Tools: A Step Forward"** organised by RUSA on 22/3/2021.
27. Attended lecture cum workshop on **"Chemistry Lab skills post lockdown"** by Dr. Angshuman Roy Choudhury, Asst. Prof IISER, Mohali and Dr. Rishu Asst. Prof, MCM DAV on 9-10<sup>th</sup> September 2021.
28. Attended Special lecture on **"Nanoscience- A World beyond visual limits"** by Dr. Nishima Wangoo Department of applied science, UIET, Panjab University, Chandigarh on 22<sup>nd</sup> September 2021.
29. Attended Webinar on **"Nanotech and Future Implications"** by Dr. Ashish Pal Scientist, INST, Mohali on 22<sup>nd</sup> Feb 2022.
30. Organised Lecture cum Workshop on **"Basic learning and Handling of Spectroscopic Techniques (UV-VIS, FTIR, NMR)** on 18<sup>th</sup> and 19<sup>th</sup> May 2022.
31. Attended online two week interdisciplinary refresher course in **"Advanced Concepts In Developing Moocs"** from 7-21 January, 2022.

