Curriculum Vitae

Abdul Rouf Dar, Ph. D

Currently working as:

Postdoctoral Research Associate

Department of Chemistry,

University of Florida (UF), Florida, USA

Personal Details:

Name: Abdul Rouf Dar
Nationality: Indian
Gender: Male
Marital status: Married
Languages: English, Urdu, Hindi
E-mail: roufdr99@gmail.com
Skype name: abroufdar

Teaching experience - 2 years

Research experience - 9 years and 9 months

Career objectives: To be actively involved in research and academic activities.

I have published twenty two papers in various international journals and currently few are under process.

Brief academic profile:

S. No	Degree	Date	Institute	Subject
1	Post-doctoral research associate	May 2016-Present	University of Florida (UF), Florida, USA	Organic / Bio-Chemistry
2	Post-doctoral research associate	2015-2016	Universidade de Brasília: UnB, Brazil	Organic Chemistry
3	Post-doctoral research associate	2013-2014	Middle East Technical University (METU), Ankara, Turkey	Organic Chemistry
4	Ph. D	2007-2013	Guru Nanak Dev University, Punjab, India	Organic Chemistry
5	Lecturer of Chemistry	2006-2007	Education department in Kashmir, India	Chemistry
6	M. Sc	2003-2005	University of Kashmir, India	Chemistry (First division)

List of peer reviewed publications:

1. **Abdul Rouf**, Ertan Şahin, Cihangir Tanyeli. Divergent synthesis of polysubstituted isoxazoles, isoxazoline-*N*-oxides, and dihydroisoxazoles by one-pot cascade reaction. ***Tetrahedron 2017, 73, 331-337*.**
2. Mushtaq A. Aga, Sheikh Rayees, **Abdul Rouf**,***** Brijesh Kumar, Nagaraju P. V. V.S, Anjna Sharma, Gurdarshan Singh, Subhash C. Taneja. Synthesis of Ofornine mimics from natural source *l*-Vasicine as anti-hypertensive agents. ***Bioorganic & Medicinal Chemistry 2017, 25, 4, 1440-1447***.
3. Mudassier Ahmad, Mushtaq Aga, Javeed Bhat, Brijesh Kumar, **Abdul Rouf**, Dilip Mondhe, Mubashir Mintoo, Girish Mahajan, Mohmmad Zargar, Bhahwal Shah, Subhash Taneja, Abid Hamid. Exploring 3-hydroxypyrrolidine moiety of *l-Vasicine* as cap group in the design of antitumor histone deacetylase inhibitors. ***Journal of Medicinal Chemistry, 2017, 60 (8), 3484–3497***.
4. Carlos Kleber Z. Andrade, **Abdul Rouf.** Applying green processes and techniques to simplify reaction work-ups. ***Tetrahedron 2016, 72, 47, 7375-7391***.
5. **Abdul Rouf,** Cihangir Tanyeli. Squaramide based organocatalysts in organic transformations ***Current Organic Chemistry 2016, 20, 28, 2996-3013***.
6. Tabasum Ismail, Syed Shafi, Swarn Singh, Tabasum Sidiq, Anamika Khajuria, **Abdul Rouf**, Mahipal Yadav, Varma Saikam, Parvinder Pal Singh, Mohammad Sarwar Alam, Nasarul Islam, Kalicharan Sharma. H. M. Sampath Kumar. Synthesis and immunopotentiating activity of novel isoxazoline functionalized coumarins. ***European Journal of Medicinal Chemistry 2016, 123, 10, 90104.***
7. **Abdul Rouf**, Cihangir Tanyeli. Bioactive thiazole and benzothiazole derivatives. ***Eur. J. Med. Chem. 2015, 97, 911-927.***
8. **Abdul Rouf,*** Mushtaq A. Aga, Brijesh Kumar, Subhash C. Taneja. (*R*)-2,3-Cyclohexylideneglyceraldehyde, a chiral pool synthon for the synthesis of 2-azido-1,3-diols. ***Helv. Chim. Acta 2015, 98, 823-833***.
9. **Abdul Rouf,*** Subhash. C. Taneja. Synthesis of single-enantiomer bioactive molecules: a brief overview. ***Chirality* 2014, *26*, 63-78**.
10. Brijesh Kumar, Mushtaq A. Aga, **Abdul Rouf**, B. A. Shah, Subhash C. Taneja. Common Precursor Strategy for the Synthesis of Bestatin, Amprenavir intermediate and Syn-4-hydroxy-5-phenyl-γ-lactam**. *RSC Adv. 2014, 4, 17206-17209.***
11. Brijesh Kumar, Mushtaq A. Aga, **Abdul Rouf**, B. A. Shah, Subhash C. Taneja. Tetrahydropyranyl ether (THPE) formation in hydroxyl group protection and conversion to other useful functionalities. ***RSC Adv. 2014, 4, 21121-21130.***

12. Mushtaq A. Aga, Brijesh Kumar, **Abdul Rouf**, Bhahwal A. Shah, Subhash C. Taneja. Vasicine as Tridentate Ligand for Enantioselective Addition of Diethyl Zinc to Aldehydes. ***Tetrahedron Lett.*** **2014, 55, 2639-2641.**
13. Pankaj Gupta, **Abdul Rouf**, Bhahwal Ali Shah, Neha Mahajan, Asha Chaubey, Subhash Chandra Taneja, *Arthrobacter* sp. lipase catalyzed kinetic resolution of BINOL: The effect of substrate immobilization. ***J. Mol. Cat. B: Enzymatic. 2014, 101, 35-39.***
14. **Abdul Rouf,** Mushtaq A. Aga, Brijesh Kumar, Syed Khalid Yousuf, and Subhash C. Taneja. Regioselective monochloro substitution in carbohydrates and non-sugar alcohols *via* mitsunobu reaction: applications in the synthesis of reboxetine. ***Org. Biomol. Chem*****. 2013, *11*, 6195-6207.**
15. **Abdul Rouf,*** Mushtaq A. Aga, Brijesh Kumar, Subhash C. Taneja. A facile approach to chiral 1,4-benzodioxane toward the syntheses of doxazosin, prosympal, piperoxan and dibozane. ***Tetrahedron Lett.*** **2013*, 54,* 6420-6422.**
16. Asha Chaubey, Chand Raina, Rajinder Parshad, **Abdul Rouf**, Pankaj Gupta, Subhash C. Taneja. Bioconversion of sucralose-6-acetate to sucralose using immobilized microbial cells. ***J. Mol. Cat. B: Enzymatic. 2013, 91, 81-86.***
17. Mushtaq A. Aga, Brijesh Kumar, **Abdul Rouf**, Bhahwal A. Shah, Samar S. Andotra and Subhash C. Taneja. Natural Vasicine as a Novel Source of Optically Pure 1-Benzyl pyrrolidin-3-ol. ***Helv. Chim. Acta.*** **2013, 96, 969-977.**
18. Pankaj Gupta, **Abdul Rouf**, Bhahwal A. Shah, Debaraj Mukherjee, and Subhash C. Taneja. An efficient preparation of biologically important 1,2-amino alcohols. ***Syn. Comm.*** **2013, *43*, 505-519.**
19. **Abdul Rouf**, Pankaj Gupta, Mushtaq A. Aga, Brijesh Kumar, Asha Chaubey, Rajinder Parshad, Subhash C. Taneja. Chemoenzymatic synthesis of piperoxan, prosympal, dibozane, and doxazosin. ***Tetrahedron: Asymmetry*** **2012, *23*, 1615-1623.**
20. **Abdul Rouf**, Pankaj Gupta, Mushtaq A. Aga, Brijesh Kumar, Rajinder Parshad, Subhash C. Taneja. Cyclic trans-β-amino alcohols: preparation and enzymatic kinetic resolution. ***Tetrahedron: Asymmetry*** **2011, *22*, 2134-2143.**
21. Brijesh Kumar, Mushtaq A. Aga, **Abdul Rouf**, Bhahwal A. Shah, Subhash C. Taneja. 2,3-Unsaturated Allyl Glycosides as Glycosyl Donors for Selective α-Glycosylation. ***J. Org. Chem*****. 2011, *76*, 3506-3510**.
22. Mudasir Ahmad Tantrya, Reehana Khan, Seema Akbar, **Abdul Rouf Dar**, Abdul Sami Shawl, Mohammad Sarwar Alam. An unusual bioactive oleanane triterpenoid from *Rhododendron campanulatum* D. Don. ***Chinese Chemical Letters*** **2011, *22*, 575–579.**

Publications under process:

23. Mushtaq A. Aga, **Abdul Rouf**, Brijesh Kumar, Bhahwal A. Shah, Subhash C. Taneja. Synthesis of novel sulfonaimidines as a potent antidiabetic agent ***(Manuscript ready for***

communication).

Research experience (on Collaborative Projects):

- "*Development of novel target based anticancer therapeutics*" (CSIR Supra Institutional Project: SIP 0027)
- *'Exploitation of India's rich microbial diversity'* (NWP 006).

Awards/ achievements:

- Selected for postdoctoral fellowship program under Prof. Rebecca Butcher in Department of Chemistry, University of Florida (UF), Florida, USA.
- Selected for CNPq postdoctoral fellowship under Prof. Carlos Kleber at University of Brasília: UnB, Brazil.
- Selected for TUBITAK BIDEB postdoctoral fellowship under Prof. Dr. Cihangir Tanyeli at Middle East Technical University (METU), Ankara.
- Qualified the National Eligibility Test for Junior Research Fellowship in Chemical Sciences (JRF-CSIR) in 2008, conducted by Council of Scientific and Industrial Research (CSIR), New Delhi, India.
- Qualified the National Eligibility Test for eligibility for lecturer ship in Chemical Sciences (JRF-CSIR) in 2007, conducted by Council of Scientific and Industrial Research (CSIR), New Delhi, India.
- Recipient of CSIR-IIIM best paper award for publication, "Cyclic trans-β-amino alcohols: preparation and enzymatic kinetic resolution". **Abdul Rouf**, Pankaj Gupta, Mushtaq A. Aga, Brijesh Kumar, Rajinder Parshad, Subhash C. Taneja. ***Tetrahedron: Asymmetry*** **2011, *22*, 2134-2143.**
- Recipient of CSIR-IIIM best paper award for publication, "2,3-Unsaturated Allyl Glycosides as Glycosyl Donors for Selective α-Glycosylation". Brijesh Kumar, Mushtaq A. Aga, **Abdul Rouf**, Bhahwal A. Shah, Subhash C. Taneja. ***J. Org. Chem*****. 2011, *76*, 3506-3510.**
- Best paper award at a national symposium on interdisciplinary sciences for paper "An efficient preparation of biologically important 1, 2 amino alcohols," at GGM science college Jammu, India, 2- 3rd march, 2012.
- Oral and poster presentation on "An efficient one-pot cascade green chemistry approach toward the synthesis of substituted isoxazoline-N-oxides, isoxazoles, and dihydroisoxazoles" at 6th international conference on multicomponent reactions and related chemistry, March 30th to April 2^{nd,} 2015, Brasilia, Brazil.
- Poster presentation at GGM science college Jammu, India, 2- 3rd march, 2012.

- Poster presentation on "An efficient preparation of biologically important 1,2-amino alcohols" at "7th JK science Congress at the university of Jammu, J&K, India on 13-15 Oct., 2011.
- Poster presentation in "Chemical Research Society of India, North Zone Meeting at University of Jammu, J&K, India on 22-24 Sep., 2011.
- Poster presentation on "Synthesis of enantiomerically pure masked 1,2-amino alcohols" in the "Thirteenth Asian Symposium on Medicinal Plants, Spices and other Natural Products (ASOMPS XIII)" at IICT, Hyderabad, (India) on 3-6 Nov., 2008.

Scientific Skills:

- Asymmetric synthesis using the chiral pool, organo- and bio-catalysis.
- Natural product chemistry.
- Design and development of new synthetic methodologies.
- Expertise in design and execute multi-step synthesis of targeted bioactive molecules and semi-synthetic modification of natural products and synthesis of their structural mimics towards novel drug discovery (medicinal chemistry).
- Carbohydrate chemistry.
- Expertise in handling air and moisture sensitive reactions and endured in the purification of products in minor amounts.
- Good oral and written communication skills (Scientific research articles in English) with the ability to render complex scientific ideas into easily understandable concepts.

Analytical Skills and Computer Experience

- Knowledge of HPLC for resolution of racemic compounds and quantification.
- Knowledge of NMR, HRMS, IR LCMS, HPLC and other analytical techniques for structural elucidation.
- Working knowledge in most of the chemical databases and good in computers.
- Navigate Mac OS, MS Windows, X windows, and UNIX.
- Proficient in Excel, MS Word, MS PowerPoint.
- Acquainted with Cambridge Structural Database.
- Structure Database (Scifinder, MDL, Thomson Pharma).
- Patent database searching.

Supervision and guidance of projects:

During my PhD I was involved in the supervision of research trainees in the following projects.

- Synthesis of phthalimido alcohols and their biological evaluation as anticancer agents
- Synthesis of actinomycin analogs and their biological evaluation as anticancer agents

- Screening and activity of indigenous *Arthrobacter* sp. lipase (ABL) in different organic reactions

Grant writings:

I have experience in writing independent project proposals. I have proposed, prepared and submitted various projects for different funding international agencies. The proposals for TUBITAK BIDEB, Turkey and CNPq, Brazil were successfully approved for grant.

Reviewer of publications:

I am a reviewer of scientific publication International Journal of Chemistry (http://ccsenet.org/journal/index.php/ijc/about/editorialTeam).

I have reviewed manuscripts from different publications, such as Microbial Pathogenesis, International Journal of Chemistry, current bioactive compounds and others.

I have reviewed two grant project proposals of National Science Centre (Narodowe Centrum Nauki - NCN; http://www.ncn.gov.pl).

I am involved with the writing and editing of blogs for the Falcon Scientific Editing Company.

https://falconediting.com/en/blog/why-researchers-need-an-orcid-id-and-how-to-get-one

https://falconediting.com/en/blog/11-tips-for-impressing-the-journal-editor-with-your-cover-letter

https://falconediting.com/en/blog/5-international-funding-opportunity-websites-for-young-researchers

Websites

1. Orcid account

https://orcid.org/my-orcid (orcid.org/0000-0001-9945-1933)

2. Google scholar

(https://scholar.google.com/citations?user=mCeRV3sAAAAJ&hl=en)

3. Research gate

(https://www.researchgate.net/profile/Abdul_Rouf4?ev=hdr_xprf&_sg=f8xUCZhYSr4c9wIf22X6aYMRTtbPwWry1aJkLqOZbyonBX9D1l8YFHuOrL0JVqyelPB07OJeD0FdiytrTrkoQ-ON)

4. Linkedin

(https://www.linkedin.com/in/abdul-rouf-5556138a/)

English language course:

I have attended a communicative English and Personality Development course conducted by IL&FS Education and Technology Services Ltd from 15th October 2012 to 15th February 2013. All symposia, colloquy, seminars and discussions were conducted in English. During the course, I was required to communicate in English with colleagues, seniors, scientists and other personalities. Both the technical skills and English language proficiency helped me to perform effectively and efficiently.

References:

1. Dr. S. C. Taneja

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2. **Prof. Rebecca Butcher**

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I Abdul Rouf Dar hereby acknowledge that all the information given above is correct

Place: Florida **(Abdul Rouf Dar)**