




## Aditi Mahavidyalaya

### Faculty Details



Title	Dr.	First Name	<b>Bhupender</b>	Last Name	<b>Singh</b>	Photograph
Designation	<b>Assistant Professor</b>					
Department	<b>Chemistry</b>					
Address	<b>Department of Chemistry Aditi Mahavidyalaya, University of Delhi Bawana, Delhi – 110039. &amp; (Res.) VPO Jaunti, Delhi-110081</b>					
Phone number	<b>9818811510</b>					
Email	<b>drbs@aditi.du.ac.in</b>					
Web-Page	<a href="https://sites.google.com/view/bschhikara">https://sites.google.com/view/bschhikara</a>					
<b>Educational Qualifications</b>						
Degree	Institution				Year	
Ph.D.	<b>INMAS/ACBR, University of Delhi</b>				<b>2006</b>	
M.Sc. (Organic Chemistry)	<b>M.D. University</b>				<b>1997</b>	
B.Sc.	<b>M.D. University</b>				<b>1995</b>	
<b>Career Profile</b>						
<b>Aug 2014 – onwards: Assistant Professor, Aditi Mahavidyalaya, University of Delhi</b> <b>2012-13: Teaching Associate, DCR University of Science and Technology, Murthal (Sonapat), Haryana</b> <b>2009-2012: Postdoctoral Fellow, University of Rhode Island, Kingston, RI, US</b> <b>2006-2009: DST-PDF, Indian Institute of Science, Bangalore</b> <b>Mar 2006-Sept 2006: Lecturer, Bundelkhand University, Jhansi, UP.</b>						
<b>Administrative Assignments</b>						
<b>Member of college committees</b>						
<b>Areas of Interest / Specialization</b>						
Organic Chemistry, Medicinal Chemistry, Nanomedicine, Materials Chemistry, Environmental Science						
<b>Subjects Taught</b>						
Chemistry – I (O 2.5) Chemistry – II (O 3.5) Science and Society (VAC) Environmental Science (since 2014)						
<b>Research Guidance</b>						
NA						

## Publications Profile

Recent:

2023

1. [Global Cancer Statistics 2022: the trends projection analysis](#). Bhupender S. Chhikara, Keykavous Parang. *Chemical Biology Letters*, **2023**, 10(1), 451.

2022

2. [Nanotherapeutics and HIV: Four decades of infection canvass the quest for drug development using nanomedical technologies](#). Bhupender S. Chhikara, Nirpendra Singh, Poonam, Parveen Bazard, Rajender S. Varma, Keykavous Parang. *Applied Nanomedicine* **2022**, 22 (1), 354.
3. [Synthesis and Biological Evaluation of 5'-O-Fatty Acyl Ester Derivatives of 3'-Fluoro-2',3'-dideoxythymidine as Potential Anti-HIV Microbicides](#). Hitesh K. Agarwal, Bhupender S. Chhikara, Guofeng Ye, Sitaram Bhavaraju, Ajay Dixit, Anil Kumar, Gustavo F. Doncel, Keykavous Parang. *Molecules* **2022**, 27 (10), 3352.
4. [Synthesis of new analogs of morpholine and their antiplasmodial evaluation against human malaria parasite Plasmodium falciparum](#). Charu Upadhyay, Neha Sharma, Sumit Kumar, Prem Prakash Sharma, Diana Fontinha, Bhupender S. Chhikara, Budhaditya Mukherjee, Dhruv Kumar, Miguel Prudencio, Agam P Singh, Poonam. *New Journal of Chemistry*, **2022**, 46, 250-262.

2021

5. [Viral infection mitigations using advanced nanomaterials and tools: lessons from SARS-CoV-2 for future prospective interventions](#). B.S. Chhikara, Rajiv Kumar, Poonam, Parveen Bazard, Rajender S. Varma. *Journal of Materials NanoScience*, **2021**, 8(2), 64-82.
6. [Chemerin and male reproduction: 'a tangled rope' connecting metabolism and inflammation](#). Fong Fong Liew, Sulagna Dutta, Pallav Sengupta, Bhupender S. Chhikara. *Chemical Biology Letters*, **2021**, 8(4), 224-237.
7. [Orexins: the 'multitasking' neuropeptides in the energy metabolism and immune regulation of male reproduction](#). Pallav Sengupta, Muhjah Falah Hasan, Sulagna Dutta, Ravindran Jegasothy, Bhupender S. Chhikara. *Chemical Biology Letters*, **2021**, 8(4), 202-212.
8. [Adropin in immune and energy balance: 'a molecule of interest' in male reproduction](#). Roland Akhigbe, Sulagna Dutta, Pallav Sengupta, Bhupender S. Chhikara. *Chemical Biology Letters*, **2021**, 8(4), 213-223.
9. [Immunoendocrine regulation of energy homeostasis and male reproduction](#). Sulagna Dutta, Pallav Sengupta, B. S. Chhikara. *Chemical Biology Letters*, **2021**, 8(4), 141-143.
10. [Cleaning the molecular machinery of cells via proteostasis, proteolysis and endocytosis selectively, effectively, and precisely: intracellular self-defense and cellular perturbations](#). Rajiv Kumar, Bhupender S. Chhikara, Kiran Gulia, Mitrabasu Chhillar. *Molecular Omics*, **2021**, 17(1), 11-28.
11. [Review insights of nanotheranostics for molecular mechanisms underlying psychiatric disorders and commensurate nanotherapeutics for neuropsychiatry: the mind-knockout](#). Rajiv Kumar, **Bhupender S Chhikara**, Kiran Gulia, Mitrabasu Chhillar. *Nanotheranostics*, **2021**, 5(3), 288-308. doi:10.7150/ntno.49619.

2020

12. [Developmental and histochemical studies on carposporophyte of Solieria robusta \(Greville\) Kylin \(Solieriaceae, Gigartinales\) from Port Okha, India](#). I.N. Gahlawat, P. Lakra, J. Singh, Bhupender S. Chhikara, *J. Integr. Sci. Technol.*, **2020**, 8(2), 12-20.

13. [Experimental and Computational Studies of Microwave-Assisted, Facile Ring Opening of Epoxide with Less Reactive Aromatic Amines in Nitromethane](#). Sumit Kumar, Charu Upadhyay, Meenakshi Bansal, Maria Grishina, **Bhupender S. Chhikara**, Vladimir Potemkin, Brijesh Rathi, and Poonam. *ACS Omega*, **2020**, 5(30), 18746-57. doi:10.1021/acsomega.0c01760
14. [Knowledge drain versus Brain drain: the one more dangerously significant](#). **Bhupender S. Chhikara**, *Current Science*, **2020**, 119(3), 421.
15. [Phenylpyrazalopyrimidines as Tyrosine Kinase Inhibitors: Synthesis, Antiproliferative Activity, and Molecular Simulations](#). **Bhupender S. Chhikara**, Sajda Ashraf, Saghar Mozaari, Nicole St. Jeans, Dindyal Mandal, Rakesh K. Tiwari, Zaheer Ul-Haq, Keykavous Parang. *Molecules*, **2020**, 25, 2135; doi:10.3390/molecules250921355
16. [Corona virus SARS-CoV-2 disease COVID-19: Infection, prevention and clinical advances of the prospective chemical drug therapeutics](#). **B.S. Chhikara**, Brijesh Rathi, J. Singh, Poonam. *Chem. Biol. Lett.* **2020**, 7 (1), 63–72.

Pls see previous Publications details at Lab site: <https://sites.google.com/view/bschhikara/publications>  
 Google Scholar: <https://scholar.google.com/citations?user=S8GMgt8AAAAJ&hl=en>

#### Conference Organization/ Presentations (in the last three years)

NA

#### Research Projects (Major Grants/Research Collaboration)

NA

#### Awards and Distinctions

Young Achiever Award (2021 APP)  
 Young Scientist Award (2014 APP)

#### Association With Professional Bodies

Chemical Research Society of India  
 Society of Biological Chemists India  
 Association of Pharmacy Professionals, India  
 American Chemical Society (2010-11)

#### Other Activities

Check Outreach activities at <https://sites.google.com/view/bschhikara>  
 Editor, [Chemical Biology Letters](#)