



DEPARTMENT OF CHEMISTRY
DYAL SINGH COLLEGE, UNIVERSITY OF DELHI
FACULTY DETAIL



Title	Dr.	First Name	Aruna	Last Name	Chhikara	Photograph
Designation		Associate Professor				
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Educational Qualifications						
Degree		Institution			Year	
Ph. D Chemistry		Department of Chemistry, University of Delhi, Delhi			1996	
M.Sc. Chemistry (Org.)		Department of Chemistry, University of Delhi, Delhi			1993	
B. Sc. (Hons) Chemistry		Rajdhani College, University of Delhi, Delhi			1989	
Career Profile						
Dr. Aruna Chhikara has a Ph.D. degree in Organic Chemistry from the Department of Chemistry, University of Delhi, India. She teaches Organic Chemistry to undergraduate and graduate students at University of Delhi and also is actively pursuing a research program in the areas of anticancer drug design, discovery and development of novel drug delivery systems. She supervises Ph.D. and UG students and has published a number of publications in reputed journals.						
Administrative Assignments (From 1st July 2017 onwards)						
1. Convener, Committee to Scrutinize PBAS applications (for promotion in the next stage), Department of Chemistry, Dyal Singh College, University of Delhi (2017-18) 2. Member, Committee to scrutinize PBAS applications of Department of Chemistry, Dyal Singh College (2020)						
Areas of Interest/Specialization						
Synthetic Organic Chemistry, Medicinal Chemistry						
Subjects Taught						
Chemistry (UG) Nano chemistry (Ph. D. Course work, Department of Chemistry, 2011-12) Environmental Studies (UG)						
Research Guidance						
Ph. D. Awarded: Two; Currently Registered: One Guided UG 20 students in Innovative Projects for consecutive three years.						
Publications Profile (From 1st July 2017 onwards)						

<p>1. Detection of Heavy Metal Ions in Water by Rhodamine Sensors: A Review on the Modern Approach Deepak Tomar, Madhuri Chaurasia, Sulekh Chandra, Aruna Chhikara. DU Journal of Undergraduate Research and Innovation. August, 2018, Volume 3, Issue 1, pp 83-96.</p> <p>2. PEG-coumarin nanoaggregates as π-π stacking derived small molecule lipophile containing self-assemblies for anti-tumour drug delivery Gautam Behl, Parveen Kumar, Manisha Sikka, Laurence Fitzhenry & Aruna Chhikara, Journal of Biomaterials Science, Polymer Edition, December 2017 (https://doi.org/10.1080/09205063.2017.1421346) © 2017 Informa UK Limited, trading as Taylor & Francis Group, Impact Factor: 2.060</p> <p>3. Co-delivery of Vorinostat and Etoposide Via Disulphide Cross- Linked Biodegradable Polymeric Nanogels: Synthesis, Characterization, Biodegradation, and Anticancer Activity. Parveen Kumar, Lubna Wasim, Madhu Chopra and Aruna Chhikara. American Association of Pharmaceutical Scientists, E Pub.August 2017, Feb. 2018 (2) Page 634-637, DOI: 10.1208/s12249-017-0863-5, ISSN No. 1530-9932, Impact Factor: 3.545</p> <p>4. Development of 1,3,4-oxadiazole thione based novel anticancer agents: Design, synthesis and in-vitro studies, Nalini Yadav, Parveen Kumar, Aruna Chhikara and Madhu Chopra. Biomedicine and Pharmacotherapy, Volume 95, 2017, Page 721–730, ISSN No. 0753-3322. (Elsevier, Impact Factor 3.743),</p> <p>5. Recent Progress in Combinatorial Solid Phase Synthesis: Techniques, Characterization and its Application in Drug Development. Parveen Kumar, Nalini Yadav, Aruna Chhikara, Madhu Chopra Current Biochemical Engineering, Volume 4, Issue 1, 2017, Page 9-33, DOI: 10.2174/2212711903666160622085741, ISSN (Print): 2212-7119, ISSN (Online): 2212-7127. Bentham Science Publishers</p> <p>6. “Dye removal studies with ionic liquids 1-ethyl-3-methyl imidazolium lactate & 2-hydroxyethyl-trimethyl ammonium L+ Lactate & 2-hydroxyethyl-trimethyl ammonium L+ Lactate”, International Journal of Current Research, Vol. 9, Issue, 01, pp.44619-44622, 2017 (ISSN 0975– 833X) Impact Factor: 7.</p>
<p>Research Projects (Major Grants/Research Collaboration) (From 1st July 2017 onwards)</p> <p>1. Synthesis and biological evaluation of antineoplastic agents. Department of Pharmacy, University of Saskatchewan, SK, Canada. (2018-2020)</p> <p>2. Complementary Research Capabilities, Department of Chemistry, Acadia University, Nova Scotia, Canada. (2019-2021)</p> <p>3. Pilot Project Grant for Young Investigators in Cancer Biology, Rs. 25, 00,000 (Twenty-five lakh rupees only) by Department of Biotechnology, New Delhi, India for Major Research Project entitled “Biodegradable nanoarchitecture platform convertible to fluorescent nanoaggregates on glutathione stimulus”. (July 2015 to July 2019)- (Completed) Principal Investigator (Sole): Dr. Aruna Chhikara</p>
<p>Awards and Distinctions (From 1st July 2017 onwards)</p> <p>1. Visiting Professorship for two years at Department of Pharmacy and Nutrition, University of Saskatchewan, Saskatchewan, Canada (2018 to 2020)</p> <p>2. Harrison McCain Foundation Award, Acadia University, Nova Scotia, Canada (Three months in 2020-2021)</p>

Signature of Faculty Member