



DESHBANDHU COLLEGE
(UNIVERSITY OF DELHI)
KALKAJI, NEW DELHI - 110019
Faculty Details Proforma for College Website

Title	ASSISTANT PROFESSOR	First Name	ARCHANA	Last Name	MILHOTRA	Photograph
Designation	ASSISTANT PROFESSOR					
Address	C-8, DEFENCE COLONY NEW DELHI-110024					
Phone No. Office						
Residence	011-24337208					
Mobile	9810076259, 9625044489					
Email	archanamilhotra@gmail.com					
Web-Page						
Educational Qualifications						
Degree	Institution				Year	
Ph.D.	University of Roorkee (IITR)				1994	
PG	Garhwal University (HNBGU)				1988	
UG	Garhwal University (HNBGU)				1986	
Career Profile						
Organization / Institution		Designation		Duration		Role
Deshbandhu College, University of Delhi (DU)		Assistant professor		Aug'12- present		Teaching
S.G.T.B. Khalsa College, (DU) , Department of Chemistry (DU) , Miranda house, (DU) Maharaja Agarsen College (DU) ,		Assistant professor		Jan' 09 – May'12		Teaching
Jervoise, Birmingham, United Kingdom (UK)		Teacher		Oct.'05- Dec.'07		Volunteer teaching
Indian Institute of Technology, Delhi (I.I.T.D)		Pool Scientist (Post-Doctoral Fellow)		Dec.'01-Nov.'04		Research and Teaching
Indian Institute of Technology, Delhi (I.I.T.D)		Senior Research Associate (Post-Doctoral Fellow)		April'96-March'01		Research
Administrative Assignments						
ILLL University of Delhi (Academic Officer), June 2010 – Nov. 2010						
Areas of Interest/Specialization						
<p>The major focus of my research is synthesis of heterocyclic compounds of biological interest. Heterocyclic groups are pharmaceuticals active moieties and are being used as antibacterial, anti-cancer, antifungal, anti-inflammatory etc. The moieties we worked on are benzimidazole, Imidazolobenzimidazole, Pyrimidobenzimidazoles and their derivatives.</p> <p>Water treatment has the Challenges for the new generation. Recently Waste Water Purification Using Bio-degradable waste as a natural adsorbent is the main focus of my research.</p>						

Subjects Taught
<ul style="list-style-type: none"> • M.Tech. Course in ‘Chemical synthesis and process Technology’ at the Department of Chemistry. (Module-31) University of Delhi. (Jan 2011-May2011) • B.Sc. (Honors) Organic Chemistry -(Basic concepts, Stereochemistry, Hydrocarbons, Reaction mechanism) at Delhi University Colleges. • B.Sc. (program)—life Science, Physical science, Industrial Chemistry courses-Taught Organic Chemistry and Industrial Chemistry papers. • B. Tech. Ist -year (CYP-100 Course) at I.I.T. Delhi. (April 1996- December 2004) • B.E. Tutorial classes and conducted laboratory practical for M.Sc. at I.I.T. Roorkee.
Publications Profile
<p>(Citations- 147, h-index- 6, i10-index- 4)</p>
<ol style="list-style-type: none"> 1. Renu Gautam, Sweta Mishra, Archana Milhotra, Ritika Nagpal, Mradul Mohan, Anchal Singhal and Pratibha Kumari ‘Challenges with Mosquito-borne Viral Diseases: Outbreak of the Monsters’ Current Topics in Medicinal Chemistry, 2017, 17(32) (ISSN-1873-5294) (Bentham science publisher) 2. Pratibha Kumari, Renu Gautam and Archana Milhotra: ‘Application of porphyrin nanoamaterials in photodynamic therapy’ Chem. Biol. Lett. 2016, 3(2), 32-37 (ISSN-2347-9825) 3. R.C.Anand, Archana Milhotra ‘An unusual reaction of ethyl 4-bromomethylbenzoate with the carbanion of substituted ethyl acetate’. Chemical communications 1999, 1415. (ISSN-1359-7345) 4. R.C.Anand, Vimal and Archana Milhotra, ‘Selective esterification of nonconjugated carboxylic acids in the presence of conjugated or aromatic Carboxylic acids under mild conditions’. Journal of Chemical Research (S) 1999, 378-379 (ISSN-0308-2350) 5. S.M Sondhi, R. Sahu, A.Magan, D.K. Ghosh - Anti-Amoebic and anthelmintic evaluation of heterocyclic compounds containing nitrogen and/or sulphur. ‘Indian Drugs-Bombay’ 1994, (317-317) 6. Rajesh Sahu, Archana Magan, Bina Gupta, S.M.Sondhi, R.C.Srimal and G.K.Pathaik, ‘Reaction of 4-Isothiocyano-4-methyl-2-pentanone with amines having functional group at position and anti-inflammatory evaluation of resulting heterocyclic compounds’. Phosphorus,Sulfur and Silicon,1994,(88) 45-51 (ISSN- 1042-6507) 7. S.M.Sondhi, Archana Magan, Rajesh Sahu, V.K.Mahesh, Rakesh Shukla and G.K.Patnaik ‘Evaluation of some Anti-inflammatory Pyrimidobenzimidazoles synthesized via novel Tin(II) Chloride-hydrochloric acid assisted water addition and reduction of 4,4,6-trimethyl-1-(2-nitroaryl) -1,4- dihydropyrimidine-2(3H)-thiones’. , Synthesis, 1994,(11), 1175-1180 (ISSN- 0039-7881) 8. S.M. Sondhi, Archana Magan, V.K.Mahesh, R.C.Srimal and A.K.Goel ‘Synthesis, isomer identification by 2D-NMR and anti-inflammatory evaluation of some 9H-imidazole[1,2-a]benzimidazole and perhydroimidazole[1,2-d]dithiazepine derivatives’. Indian Journal of chemistry, 1994, (33B), 1144-1149. (ISSN-0975-0975) 9. S.M.Sondhi and Archana Magan ‘Porphyrins and Metalloporphyrins anti-cancer agents- A Review Indian Journal of Heterocyclic Chemistry, 1994, (4), 155-162. (ISSN- 0971-1627) 10. N. Jain, A. Magan and S.M.Sondhi “Determination of Mineral Elements Presents in Medicinal Plants used for the Development of Health, for the Treatment of Cough and Vomitting, Pyorrhoea and Rheumatic and Allied Disorder” Indian Drugs-Bombay 1993 (30), 5, 190. (ISSN:0019-462X) 11. S.M.Sondhi, Archana Magan and J.William Lown ‘Synthesis of a series of acodazole and naphthothiophene-deuterioporphyrins and metalloporphyrins’. Bull.Chem.Soc.Jpn. 1992 (65), 579-585 (ISSN- 0009-2673) 12. Sapna Maheshwari, Archana Magan and S.M.Sondhi. ‘Determination of Sulphadiazine and tetracycline in their mixture by spectrophotometric method’ Asian Journal of Chemistry,(1992), 4, 770-774 (ISSN- 0970-7077) 13. Archana Magan, S.M.Sondhi, P.P.Singh and N.K.Ralhan, ‘Thermal retrogression study of N,N’-Substituted thioureas’. J.Indian Chem.Soc., 1990,(67),476-477 (ISSN- 0019-4522)
Book Chapter
<ul style="list-style-type: none"> • Kishwar Saleem, Waseem A. Wani, Ashanul Haque, Archana Milhotra and Imran Ali ‘<i>Nanodrugs: Magic Bullets in Cancer Chemotherapy</i>’, Topics in Anti-cancer-reasearch, volume(2) 2013, Pp437-494 (58)Bentham e-book (Bentham science publisher) (ISSN- 2213-3585)
Conference Organization/Presentations
<p>POSTER PRESENTATION –(National/International)/ ORAL PRESENTATION</p> <ul style="list-style-type: none"> • Archana Magan, R. Sahu, V.K. Mahesh and S.M. Sondhi ‘Synthesis of pyrimidobenzimidazoles as potential anti-inflammatory agents at 205th American Chemical Society National Meeting held at Denver Colorado, USA. (April, 1993) • Archana Milhotra, Ruby Mishra, Usha Arora and Prachi singh “Waste water Purification: Challenges Using bio-degradable waste as a natural adsorbent” :International conference on Empowering and Enabling women in Science-

<p>Utkarsh 2018 (30th -31st Oct.2018) (Best Poster Presentation Award)</p> <ul style="list-style-type: none"> • Archana Milhotra ,“Nanotechnology: Leader in Cancer Chemotherapy” : Indo-Portuguese workshop on Emerging Trends of Nanotechnology in Chemistry and Biology (12th -13th Feb.2016) • Archana Milhotra “NANODRUGS: Active at target site in cancer chemotherapy” 1st International conference ‘Emerging trends of nanotechnology in drug discovery’- (26th-27th May-2014) • Ruby Mishra, Atul Kumar and Archana Milhotra ‘Waste Water Purification: Using Bio-degradable waste as a Natural Adsorbent’ at National Conference on Innovations in Health and Environment (NSHE-2018), Organized by Daulat Ram College, University of Delhi. (March 20, 2018) • Archana Milhotra and Ruby Mishra ‘Innovative Experiment: An Unusual Reaction of Ethyl 4-Bromomethylbenzoate with a Carbanion’ at National Conference on Innovations in Chemistry Laboratory Teaching (INCLAT), Organized by Zakir Husain Delhi College, University of Delhi. (8th -9th Feb. 2017) • Archana Milhotra and Ruby Mishra ‘Water treatment: Challenges for the new generation’ at National Conference on Environmental Sustainability in Wastewater Remediation: Current Status and Future Prospects (ESWR-2017), Organized by Sri Venkateswara College, University of Delhi. (19th- 20th Jan. 2017) • Archana Magan, V.K. Mahesh and S.M.Sondhi ‘Synthesis and biological evaluation of some 9H-Imidazo (1, 2-a)-benzimidazole and Imidazolidino(1,2-d) dithiazepine derivatives.’ at 27th Annual Convention of Chemists held at Magadh University, Bodhgaya, India. (26th - 30thDec. 1990) <p>Invited- Chief guest at “ International Chemistry Symposium Spark 2014” Delhi Public School R.K.Puram</p>
<p>Research Projects (Major Grants/Research Collaboration)</p> <ul style="list-style-type: none"> • Project-I Project no-B-10138 Sponsored by- CSIR (Title- ‘Synthesis of heterocyclic compounds of potential anticancer activity’) (Dec. 2001 to Nov. 2004) • Project-II Project no-9186(314)/95-EMR-I Sponsored by- CSIR (Title- ‘Synthesis of potential anti-inflammatory compound (April 1996 - March 2001)
<p>Awards and Distinctions</p> <ul style="list-style-type: none"> • FIRST KHOSLA AWARD and GOLD MEDAL, I.I.T. Roorkee, 1995 • Recipient of Pool Scientist (SRA) from CSIR (Nov.2001-Dec-2004) • Recipient of Research Associate (RA) from CSIR (April 1996- March-2001) • Recipient of Senior Research Fellowship (SRF) from CSIR (April 1992-Feb1994)
<p>Other Activities</p> <ul style="list-style-type: none"> • Developed e-content as Co-Author (8 module) in e- PG Pathshala (NMEICT & UGC Project), 2015-201 • Faculty in Biomedical science for Post-graduate courses for students belonging to weaker sections of the society and economically backward minority communities. Pre-Entrance Summer School 2016, University of Delhi. (30th May - 13th June 2016) • Attended “National Seminar on e-Learning and MOOCs in higher education” at Guru Angad Dev Teaching Learning Center, MHRD, Govt. of India. (29th March 2017) • Coordinated the Chemical Society festival “Resonance” at Deshbandhu College, University of Delhi. (9th-10th march-2017) • Attended National Symposium on ‘Vector Biology and Vector Management’ at Deshbandhu College, University of Delhi. (21st June 2013) • Attended ‘National Symposium on Criminology and Forensic Science’ at S.G.T.B. Khalsa College, University of Delhi. (5th-6th March 2012) • T3D-2010, International Symposium on ‘Trends in Drug Discovery and Development’, Department of Chemistry, University of Delhi. (5th -8th Jan.2010) • 3rd Indo-Italian Seminar on ‘Green Chemistry’, Department of Chemistry, University of Delhi, Delhi. (9th Dec.2009) • Attended workshop on “skill Development to build a clean India’ Organized by Deshbandhu College, University of Delhi. (7th-8th June 2018) • Resource person in the INSPIRE Internship programme-2014 under DST, organized by Deshbandhu College, University of Delhi. (8th - 12th Oct. 2014 & 18th -22nd Dec. 2017)

- Participated in the special Orientation program for **foundation Course** in Life and Science, **University of Delhi South Campus. (19th Aug. 2013)**
- Attended workshop on “**Computational Chemistry for Chemistry Educators**” Organized by Miranda House, University of Delhi. (**23rd -24th Nov. 2011**)
- Assisted in organizing the Workshop on **Chemistry Lab Safety Awareness** hosted by **DRDO** and **ILLL. (31st Aug.2010)**

SPORTS AND EXTRA-CURRICULAR ACTIVITIES

- ‘**Stampe Cup**’ for the best Athlete, **I.I.T. Roorkee** for the session,1990-91
- **Best Girl** of Vidya Mandir School, BHEL, Haridwar, 1983-1984
- **President’s Guide** of Uttar Pradesh from The President of India (Ex-President, His Excellency Giani Zail Singh), 1983
- Represented India at **Girl Guide Jamboree** Asia-Pacific at **Malaysia**, Dec.7th -15th,1981
- Athlete at district level,1978



Signature of Faculty Member

- You are also requested to give your complete resume as a Word or PDF file to be attached as a link on your department page.