

Professional Training

Organization	Period	Details of Training
Chemistry Department P.U. Chandigarh	16.5.1996 to 15.5.1999	Nucleophilic VS[2+2] Additions of Anions to Benzyne.
Chemistry Department P.U. Chandigarh	16.11.1994 to 31.3.1996	Generation and Synthetic Applications of α -amino Carbanions
Chemistry Department University of Texas, Arlington, Texas U.S.A.	1.3.1994 to 31.8.1994	Synthesis towards phenanthroline based Polymers.
Chemistry Department Southern Methodist University, Dallas, Texas, USA.	16.12.1991 to 31.1.1994	Synthetic applications of benzyne chemistry to polycyclic aromatic and heteroaromatic Compounds.
Chemistry Department Panjab University Chandigarh carbanions	3.3.1989. to 12.12.1991	Generation and Synthetic applications of α -azaalylic

Experience

Name & Address Of Employer	Date of Joining/ Leaving	Designation	Reason for Leaving
Bundelkhand University Jhansi	28.3.2003 to ---	Reader	Continuing
G.N.D. University Amritsar	1.7.2002 to 25.3.2003	Lecturer	Term appointment
G.N.D. University Amritsar	16.8.2001 to 30.4.2002	Lecturer	Term appointment
CSIR/Chemistry Department, P.U. Chandigarh	16.5.1996 to 15.5.1999	Senior Research Associate. (Pool Officer)	Term appointment

Name, Addresses and occupation of two references.

1. Professor S.V.Kessar
INSA Senior Scientist
Department of Chemistry
Panjab University
Chandigarh 160014
2. Dr. Tejvir Singh
Reader
Department of Chemistry
Panjab University
Chandigarh 160014

List of publications

1. The reaction of halogeno substituted N, N-dimethylanilines and polycyclic aromatic hydrocarbons with certain arylacetonitriles or α -cyano-O-tolunitrile under aryne forming conditions" wei han Yingchun Lu,he zhao, **Mahesh Dutt**, Edward R.Biehl Published in **synthesis**, 59, [1996]
2. "Reaction of Hexachlorobenzene and (Pentachlorophenyl) lithium with arylacetonitriles", Hala Mohammed Refat, John Waggenspack, **Mahesh Dutt**, Hongming zhang, A.A. Fada and Ed Biehl. Published in **J. Org. Chem.**, 60, 1985 (1995).
3. "Synthesis of Novel Anthrone Imines", **Mahesh Dutt**, Brad Fravel, George P. Ford and Edward R. Biehl. Published in **J.Org. Chem.** 59, 497 (1994)
4. " Preparation of 1-Aminoisoquinolines from the Reaction of 2-Arylmethylbenzonitriles and Lithium Diisopropyl Amide", **Mahesh Dutt**, Hongming Zhang, and Ed Biehl, Published in **Heterocyclic Communications**, 1, 9, (1994).
5. "LDA – Mediated Reactions of 1- Naphthalynes with Lithiated Acetonitriles and 1, 4-Dipolar Nucleophilic Anions", Edward R Biehl, A Rakeeb Deshmukh and **Mahesh Dutt**, published in **Synthesis**, 885, (1993)
6. "Synthesis and X-Ray Structure of a Novel 9-Imino Derivative of Anthracene", Edward R Biehl, **Mahesh Dutt**, Brad Fravel and Hongming Zhang. Punlished in **J.Chem. Soc. Chem. Commun.**, 1520 (1992).
7. " An Investigation of the Influence of Haloarenes and Hetarylacetonitriles on the Competition between possible Aryne Arylation and Tandem Addition Rearrangement Pathways", A Rakeeb Deshmukh, Matt Morgan, Long Tran,

Hongming zhang, **Mahesh Dutt**, and Edward R Biehl Published in **Heterocycles 34**, 1239 (1992).

8. "Lewis Acid Complexed Heteroatom Carbanions, Synthesis of some Pyridyl Alcohols", Satinder V Kessar, Paramjit Singh, Kamal Nain Singh And **Mahesh Dutt**, Published in **J Chem. Soc. Chem. Commun.**, 570 (1991).
9. "Intramolecular Reaction of 1-azaallylic Anions and Aryl Halides; Synthesis of Isoquinolines", Satinder V. Kessar, Paramjit Singh, **Mahesh Dutt**, Published in **Ind. J. Chem.**, **28B**, 365 (1989)
10. "Benzyne Cyclization Route to Benzo (c)phenanthridine Alkaloids; Synthesis of Chelerythrine, Decarine and Nitidine", Satinder V.Kessar, Y.P.Gupta, P.Balakrishnan, K.K. Sawal, T. Mohammad and **Mahesh Dutt**. Published in **J.Org. Chem.**, 1708 (1988).

Conferences attended/organized :

1. Poster presentation in American Chemical Society, Annual meeting held at San Diego(USA) in 1994.
2. Attended American Chemical Society, Annual meeting held at Denver in Colarado,(USA) in 1993.
3. Organized (Co Convenor) 40th National Convention of Chemists(ICS Kolkata), Deptt. of chemistry, Bundelkhand University, Dec 23-27, 2003

(Signature of the applicant)

Preparation and characterization of amidated pectin based Hydrogels for drug delivery system;

R.K. Mishra, M. Dutt, K. Pal, A.K. BANTHIA,
J. Mater. Sci. Mater. Med. Accepted 2007.

12. Amidated PECTIN BASED Hydrogels; SYNTHESIS, CHARACTERIZATION & CYTOTOXICITY STUDY.

R.K. Mishra, J.P. SINGHAL, M. DUTT, A.K. BANTHIA
Journal of Applied Biomaterials and Bio-Mechanics volume NO 5, NO. 2 (2007)

13. SYNTHESIS AND CHARACTERIZATION OF PECTIN/PVP HYDROGEL MEMBRANES FOR DRUG DELIVERY SYSTEM.; R.K. Mishra, MAHESH DUTT and AJIT BANTHIA, AAPS PHARM SCI TECH. Accepted 2008.