Faculty Details proforma for DU Web-site

Title	**Professor**	First Name	**Ramesh**	Last Name	**Chandra**	Photograph
Designation		**Head & Professor**				
Department		**Chemistry**				
Address (Campus)		Department of Chemistry, University Of Delhi, Delhi- 110007				
(Residence)		38/01, Probyn Road, University of Delhi, Delhi- 110 007, India				
Phone No (Office)		Tel: +91-11-27667151 Telefax: +91-11-27666294				
(Residence)		+91-11-27667593(Res)				
Mobile		+91-9810240532				
Email		acbrdu@hotmail.com rchandra@chemistry.du.ac.in				
Web-Page						

Educational Qualifications

Degree	Institution	Year
Ph.D.	University of Delhi	1981-1982
*F.IC	Institution of Chemists, India	1987
Certificate in Forensic Science	University of Delhi	1979
M.Phil.	University of Delhi	1978

* (Equivalent to Ph.D)

Career Profile

Prof. Ramesh Chandra is a distinguished scientist; Fellow of the Royal Society of Chemistry, London and an outstanding researcher in the field of Biomedical Sciences. He is Professor of Chemistry at University of Delhi and Founder Director of Dr. B. R. Ambedkar Center for Biomedical Research, University of Delhi. He has been Vice-Chancellor, Bundelkhand University, Jhansi for six years (1999-2005) as well as the President of the Indian Chemical Society (2004-2006), Member, Planning Commission, Government of U.P., India and Secretary - Zaheer Science Foundation, New Delhi, Non-Official Director, Rashtriya Ispat Nigam Ltd (RINL).

Professor Chandra shows deep commitment to the cause of higher education and research and possess in ample measure, quality of dynamic leadership and a vision required for building academic institutions. Professor Chandra started his research career at the University of Delhi, thereafter he went to The New York Hospital-Cornell University Medical Center and the Rockefeller University, New York; State University of New York at Stonybrook as Assistant Research Professor. He conducted advanced research at the Harvard University Medical School-Massachusetts General Hospital, jointly at MIT, Cambridge, USA. Over the last 39 years, Professor Chandra has contributed largely in the field of Chemical Sciences and particularly in New Drug Discovery and Development as well as Drug Metabolism. His research work is being used in the development of drugs for Physiological Jaundice/ Neonatal Jaundice and development of naturally occurring chemotherapeutic agents for the treatment of Breast and Ovarian Cancers, and drugs for Diabetes and Hypertension. He has

supervised large number of Ph. D. and M. Phil. Students, in all trained more than 100 research scholars, who are now occupying high positions internationally. He has published more than 260 original Scientific Research Papers in International journals of repute, including Review Articles/Monographs, Book Chapters; Four of his internationally acclaimed Books.

Prof. Chandra is the recipient of several professional national/ international recognitions. These includes Award of the Highest Honor of Soka University, Tokyo, Japan (2000); J William Fulbright Scholarship(1993); The Rockefeller Foundation USA-Biotechnology Career Award (1993); UGC Career Award(1993); UGC Research Scientist Award (1988); Rajib Goyal Award for Young Scientists (2002); Lifetime Achievement Award of The Indian Chemical Society (ICS) (2003); Bronze Medal of the Chemical Research Society of India (CRSI) (2004); Prof. Ghanshyam Srivastava Commemoration Award of ICS (2002); Prof. D. P. Chakraborty Commemoration Award of ICS (2001); IMNM-99 Award; Gold Medal in Integrated Medicine for New Millennium (1999); Vidya Ratan Gold Medal (2005) and Dr. BR Ambedkar National Award (2004). He is Fellow of The Royal Society of Chemistry, London; International Academy of Physical Sciences; Institution of Chemists, India and the Indian Chemical Society. He is member of several International Scientific Societies.

He has been a member of the Governing Council, BOG, Executive/ Academic Councils of several Universities/ Institutions globally and also Member – U.P Council of Higher Education; U.P. State, Youth Welfare Council and others. He has also been Consultant and Advisor to the various multinational companies like Polaroid Corporation, Diakron Pharmaceuticals, USA, HIKMA Pharmaceuticals-Jordan & currently Consultant to Proviva Pharma, Canada and Director of BIZ SHAKTI, India etc; Advisor to various academic institutions, viz. IIIT-Allahabad & others and also non-official Director of PSU's, Govt. of India. Prof. Chandra is a prolific writer and displays extraordinary flair for writing on themes particularly to Higher Education and social issues.

A brief statement regarding the most innovative contribution

Prof. Ramesh Chandra has made sustained, outstanding contributions to the invention, discoveryand development ofnew drugs. He has discoverednovel molecules such as EM011, EM012, EM015, (which are based on natural opioid, noscapine), which display unique anti-microtubule properties (high efficacy and no detectable toxicity towards tissues). In particular he has demonstrated high promise of EM011 (bromo-noscapine) in leukemia treatment, and of EM015 (chloro-noscapine) in breast tumor regression, in comparative studies with other anti-microtubule acting drugs.

He has projected a therapy for neonatal jaundice, which has gained in-depth investigations on binding affinity of Heme Oxygenase Inhibitor, Sn-protoporphyrin and Sn-mesoporphyrin, with proteins, apomyoglobin and human serum albumin and mechanism of interaction of retinoic acid with Heme Oxygenase and other heme metabolic enzymes.

Prof Chandra has shown that heterocyclic compounds such as 5-(4-methylpiperazin-1-yl)-2-[2'-(3,4-dimethoxyphenyl)-5'-benzimidazolyl]-benzimidazole (DMA) and 5-(4-methyl-piperazin-1-yl)-2-[2'{2"-(4-hydorxy-3-methoxyphenyl)-5"-benzimidazolyl}-5'-benz-imidazolyl}benzimidazole (TBZ) are good novel ligands which provide increase sequence and structure selective recognition and enhanced fluorescence upon DNA minor groove binding; the features have special significance for development as probes for chromatin structure stability.

Also, Prof Chandra has developed several polymer based non-viral vectors and successfully demonstrated their efficacy to deliver genes and siRNA to mammalian cells by exploring chitosan and PEI & modulate them to fabricate nanoparticles for delivery of genes and siRNA.

Administrative Assignments

EXPERIENCE (Administrative, Academic and Research):

• Head, Department of Chemistry, University of Delhi, Delhi	August 2017 - onwards
• Vice-Chancellor, Bundelkhand University, Jhansi	August 2002- July 2005
• Vice-Chancellor, Bundelkhand University, Jhansi	July 1999-July 2002
• Member, Planning Commission, Govt. of Uttar Pradesh	2001-2004
• President, Indian Chemical Society, Kolkata	2004-2006
• Vice-President, (Ex Officio) Indian Chemical Society, Kolkata	2006-for Life
• Director -Rashtriya Ispat Nigam Ltd. (RINL) (Non-Official) Vihakhapatnam Steel Plant, Vishakhapatnam-520031	August, 2009-2010
• Member, U.P, State Youth Welfare Council	2005-2007
• Director, Dr. B.R. Ambedkar Center for Biomedical Research University of Delhi, Delhi-110007	1995 onwards
• Project Director, Dr. B.R. Ambedkar Center for Biomedical Research University of Delhi, Delhi-110007	1991-1995
• Chairman, Board of Research Studies Faculty of Science, University of Delhi, Delhi-110007, India	1997-99
• Chairman, Publication Advisory Committee University of Delhi, Delhi – 110 007, India	1997-99
• Joint Proctor University of Delhi, Delhi - 110 007, India	1995-99
• UGC Career Award, University of Delhi, Delhi	1994-97
• **Professor**, Department of Chemistry, University of Delhi, Delhi	June 1996 – onwards
• Research Scientist-C (**UGC National Professor**), University of Delhi	April 1993-June 1996
• J. William Fulbright Scholar: The New York Hospital, Cornell University Medical Center, NY 10021, USA	1994
• Research Scientist-B (**UGC National Reader**), University of Delhi	1988-93
• Research Fellow: Harvard Medical School Massachusetts General Hospital, Boston, MA 02114, USA *Jointly at Dept. of Chem. Engg.* Massachusetts Institute of Technology *(MIT), Cambridge, USA,)*	1988
• Assistant Research Professor: Pharmacology Dept. School of Medicine, SUNY, Stonybrook, New York 11794, USA	1986
• Lecturer: Department of Chemistry, University of Delhi	1985-88
• Research Associate: Department of Biochemistry The New York Hospital-Cornell Medical Center jointly at *The Rockefeller University, New York, NY 10021, USA*	1983-85
• Scientist-B, Publication and Information Directorate Council of Scientific & Industrial Research, New Delhi, India	1982-83
• Research Associate, Department of Biochemistry V. P. Chest Institute, University of Delhi, Delhi- 110 007	1982

CORPORATE ADMINISTRATIVE EXPERIENCE

Consultant	Proviva Pharma Inc. 1100, De la Montagne, Unit-1505, Montreal, Quebec, H3G OA1, Canada	June 2016 onwards
Director - 2010 (Non-Official)	Rashtriya Ispat Nigam Ltd. (RINL) Vihakhapatnam Steel Plant, Vishakhapatnam- 520031	August, 2009- (A Government of India, Undertaking)
Member -	Audit Committee, (RINL) 2010 Vihakhapatnam Steel Plant, Vishakhapatnam-520031	August, 2009-
Member -	High Power Steering Committee 2010 Rashtriya Ispat Ligam Ltd. Vihakhapatnam Steel Plant, Vishakhapatnam- 520031	August, 2009-
Member -	Subcommittee for long term Service Agreements 2010 Rashtriya Ispat Ligam Ltd. Vihakhapatnam Steel Plant, Vishakhapatnam- 520031	August,2009-
Member -	Empowered Joint Committee (EJC) of SAIL & RINL	2009-2010
Member -	Governing Council, onwards Steel Research &Development Mission (SRDM), Virtual Center, R & D Center, Hyderabad (Funded by Ministry of Steel, Govt. of India)	2006
Founder -	Steel Resource and development mission (SRPM) Society,	2006-onwards
Member	(Established by Ministry of Steel, Govt. of India)	
Director - (Non-Official)	BIZ Shakti Inc., Boston, USA	2000-2006
Director - (Non-Official)	BIZ Shakti India Pvt. Ltd., New Delhi	2000-2006
Scientific - Advisor	Polaroid Corporation, Cambridge, MA, USA	1994-1999
Advisor -	Polaroid India Pvt. Ltd. (Wholly owned subsidiary of Polaroid Corporation, USA)	1994-1999

MEMBER OF THE SEARCH COMMITTEES FOR APPOINTMENT OF VICE CHANCELLORS:

Member-	Search/Selection Committee for the post of Vice-Chancellor Ch. Devi Lal

	University, Sirsa (Haryana)-2005
Member-	Search/Selection Committee for the post of Vice-Chancellor Maharishi Dayanand University, Rohtak (Haryana)-2004
Member-	Search/Selection Committee for the post of Vice-Chancellor Arunachal University, Itanagar (Arunachal Pradesh)-2003
Member-	Search/Selection Committee for the post of Vice-Chancellor Himachal University, Shimla (HP)-2001

Areas of Interest / Specialization

Drug Discovery, Drug Metabolism, Bioinorganic Chemistry

Subjects Taught

• **Professor**, Department of Chemistry, University of Delhi, Delhi	June 1996 - onwards
• Research Scientist-C (**UGC National Professor**), University of Delhi	1993-June 1996
• J. William Fulbright Scholar: The New York Hospital, Cornell University Medical Center, NY 10021, USA	1994
• Research Scientist-B (**UGC National Reader**), University of Delhi	1988-93
• Research Fellow: Harvard Medical School Massachusetts General Hospital, Boston, MA 02114, USA *Jointly at Dept. of Chem. Engg. (MIT, Cambridge, USA)*	1988
• Assistant Research Professor: Pharmacology Dept. School of Medicine, SUNY, Stonybrook, New York 11794, USA	1986
• Lecturer: Department of Chemistry, University of Delhi	1985-88
• Research Associate: Department of Biochemistry The New York Hospital-Cornell Medical Center jointly at	1983-85
• Research Associate, Department of Biochemistry V. P. Chest Institute, University of Delhi, Delhi- 110 007	1982

Research Guidance

ADVISOR/ SUPERVISOR OF THE Ph.D./ M.D. THESIS:

1. Cancer prevention targeting HDAC enzyme: An *in silico* and *in vitro* study
   (**Ph.D.,** February 2018, Mr. Neeraj Kumar)

2. Noscapine: A promising therapeutic agent for cancer
   (**Ph.D.**, February, 2017, Ms. Vartika Tomar**) Awarded in November 2017.

3. Metal Nanoparticles using plant extract: Synthesis and their biological applications.
   (**Ph.D.,** 2013, Mr. Pradeep Kumar**) Awarded in February 2014.

4. Role of Metalloporphyrins in Modulating Malaria Induced Haemolytic Anaemia in Mouse Model
   (**Ph.D.**, June 2011, Ms. Aparajita)

5. Role of Nitric Oxide in T cell Apoptosis.
   (**Ph.D.,** June 2011, Mr. Unni Krishnan Nair R*)

6. Synthesis of Mimic of the dihydro pyrione calcium channels antagonists and Synthesis of Piperioine
   Derivatives (Azasugars)
   (**Ph.D.**, May 2011, Ms Sakshi Malik*)

7. Novel Methods for the Synthesis of oligonucleotides and their modified Analogs
   (**Ph.D.,** October 2010, Mr. Gagan Dhawan*)

8. Identifiaction and functional characteraization of cellualr protein inter acting with HIV integrase and inhibition of these proteins interaction by Specific Ribozyme
   (**Ph.D.**, 2010, Mr. Nirpendera Singh)

9. Preparation and Evaluation of Preformulated Niosomes containing antioxidants in Gel
   (**Ph.D.**, April 2010, Ms. Anita R. Desai)

10. Novel routes for the Synthesis of Thiazolidine-2,4-diones and their studies.
    (**Ph.D.,** 2009, Mr. Prashant Singh**) Awarded in February 2010.

11. Biochemical Investigations On The Antidiabeic Effect And Mechanism Of Action Of Cinnamomum Zeylanicum And Brassaic Nigra In Experimantal Dioabetes
    (**Ph.D.**, September 2009, Ms. Prachi Anand)

12. Synthesis and Pharmacokinetic Studies of Noscapine Analogs having Antitumor Activity.
    (**Ph.D.,** March 2009, Ms. Neerupma Dhiman)

13. To study the effect of Noscapine and its Analogues on Ovarian Cyst and Tumour.
    (**Ph.D.**, April 2008, Ms. Anjali Priyadarshani)

14. Pharmacological evaluation of free rdical scavengng and antidiabetic activity of some common medicinal plants.
    (**Ph.D.,** June 2008, Mr. Nanu. R. Rathod)

15. Study on Phytochemical and Pharmacological Activity of *Scoparia Dulcis*.Linn
    (**Ph.D.,** February 2008, Mr. Manhunath K.P.)

16. Copper Nano particles Catalyzed C-N bond formation: Michael reaction and Amination of Aryl Halides.
    (**Ph.D.,** 2007, Mr. Rupesh kumar**)

17. Clinical Investigation of Sapindus trifoliatuf (Reetha): Isolaiton of Antimigrain Active Principles
    (**Ph.D.,** October 2007, S.K. Joshi)

18. Studies on the Antidiabeteic Effects of *Terminalia chebula* in Experimental Animals.
    (**Ph.D.**, September 2007, Mr. Yanda Murali Krishna)

19. A Study on Phytochemical and Biological activity of Carissa Carandas Linn.
    (**Ph.D.**, May, 2007, Mr. Mallikarjun Malipatil)

20. Development of Nanoparticle Based Carrier Systems for the delivery of Biomolecules
(**Ph.D.,** August, 2006, Mr. Surendra Nimesh)

21. Study of Secretory protein(s) of Mycobacterium Tuberculosis: Molecular characterization and analyis of Immunological properties with special reference to application in serodiagnosis and utility of vaccination against Tuberculosis.
(**Ph.D.**, May 2006, Mr. Dileep Tiwari)

22. Studies on Some Botanicals with Immunomodulatory Properties
(**Ph.D.**, November 2005, Mr. Raghuveer Irchhaiya)

23. Synthesis of Bifunctional Chelating Agents to label Monoclonal Antibodies for Radio Immunodiagnosis of cancer.
(**Ph.D.,** December 2005, Mr. Bhupinder Chitkara**)

24. Syntheses and Evaluation of Specific Radiopharmaceuticals for Target Specific Scintigraphy and Cancer Therapy
(**Ph.D.**, August 2005, Ms. Puja Panwar)

25. A Systematic Study of Criminal Justice Administration in India
(**Ph.D.**, July 2005, Mr. K. S. Pratap Kumar)

26. Pre-clinical Pharmacokinetics of New Anti-TB Compound
(**Ph.D.**, June 2005, Ms. Jyoti Idnani)

27. A Study on Some Common Narcotic Drugs of Abuse from Hair
(**Ph.D.**, May 2005, Mr. Navjot Kaur Kanwal)

28. Studies on the Cost Effective Process for Cefixime and Characterization of Releated Impurities
(**Ph.D.**, (**Ph.D.,** March 2005, Mr. Dnyandev R. Rane)

29. The New Syntehsis of Mefloquine Hydrochloride an Antimalarial Drug and its Analogues
(**Ph.D.**, March 2005, Mr. Sanjay Deshmukh)

30. Isolation and Charaterization of Impurities of Cephalosporins.
(**Ph.D.**, January 2005, Mr. Anurag Trivedi)

31. Non-Hormonal Intravaginal Contraceptives Device: BioringTM
(**Ph.D** , January 2005, Ms. Mukul Singh)

32. Phytochemical & Pharmacological Investigation of Vitex negundo & Ficus religiosa for Antidiabetic Activity
(**Ph.D** , Decemmer 2004, Mr. Sanjay Kumar Jain)

33. Synthesis of Some New Derivtives: A Redox Delivery Prodrug Approach for Brain Specific Sustained Release
(**Ph.D** , November 2004, Mr. Kamta Prasad Namdeo)

34. Proniosomal Transdermal Drug Delivery System of Esreadiol, Ethinylestradiol and Levonorgestrel for Contraception and Hormone Replacement Therapy
(**Ph.D** , October 2004, Mr. Sunil K. Kumhar)

35. Ocular Delivery of Biopeptide / Bioprotein using Carrier System
(**Ph.D** , September 2004, Mr. Awani K. Rai)

36. A Study of Bronchial Asthma with special reference to Menstruation
(**Ph.D.,** September 2004, Ms. Neelima Raj)

37. Reconstruction of Living stature through upper limb dimensions among Brahmins and Yadavs of Bundelkhand region of U.P.
(**Ph.D.,** July `2004, Ms. Anu Singla)

38. Studies on biomethanation process of wastes from Tanneries and Slaughterhouse
(**Ph.D.,** June 2004, Mr. N. P. Singh)

39. Investigation of antigenic epitopes of HIV-I and HIV-2 for the diagnosis, immunogenecity and immunotherapy of HIV/AIDS.
(**Ph.D.,** May 2004, Mr. Sanjay Kumar Singh)

40. Studies releated to reproduction physiology and factors, responsible for biochemical aspects of sperm maturation in male genital tract of Spodoptera litura (Lepidoptera: Noctuidae)
(**Ph.D.,** May 2004, Ms. Anjali Dhar)

41. Systematic Investigation of Curcuma longa (Turmeric): Isolation, Purification and Chatacterization of Sesquiterpenoid Compounds Active Against Pathogenic Bacteria
(**Ph.D.,** April 2004, Mr. Rambir Singh)

42. A Study of the Metalloporphyrin Mediated Heme Oxygenase Modulation in Oxidative Stress-Induced Liver Injury
(**Ph.D.,** April 2004, Mr. Jagdish Chander)

43. Synthesis of substituted 1,2,3,4 – Tetrahydroquinoxalin-2-One-Analogues of Thiazolidinedione: Potent Euglycemic and Hypolipidemic Agents.
(**Ph.D.,** April 2004, Ms. Dipti Gupta)

44. On the Intracellular Survival of Mycobacteria: Biochemical studies on serina – Threomine Kinases of Mycobacterium tuberculosis.
(**Ph.D.,** November 2003, Ms. Anubha Singh)

45. Effect if Calcium Channel Antagonists (Nifedipine) on the Dynamics of T-Lymphocytes during the Course of P.berghei Infection
(**Ph.D.,** October 2003, Mr. Karni Singh Moshal)

46. Synthesis of Novel Azole Derivatives as Antifungal Agents
(**Ph.D.,** October 2003, Mr. Ram Shankar Upadhyaya)

47. Safety Pharmacological Evaluation of LLL-2011: An Anti Migraine Herbal Formulation
(**Ph.D.,** October 2003, Mr. Rajan Goel)

48. Cytotoxic and Radiomodifying Effects of Certain Antioxidants in Established Normal and Transformed Cell Lines
(**Ph.D.,** September 2003, Ms.Ligy Koshy)

49. Controlled Release Systems of Oral Cephalosporin Antibiotic
(**Ph.D.,** September 2003, Mr. Himadri Sen)

50. Pharmacological Investigation of Calotropis Gigantea in Bundelkhand Region
(**Ph.D.,** September 2003, Mr. Chitme Havagiray)

51. Studies on Transcriptional Activation at Targeted Sites Through Triplex Forming Oligonucleotides. (**Ph.D.,** September 2003, Mr. Mrinal K. Ghosh)

52. A study of the influence of Phytoestrogens-Genistein and Daidzein on chemically induced oxidative stress and free radical generating system in Wistar Rats.
(**Ph.D.,** July 2003, Ms. Gunjan Upadhyaya)

53. Multistranded DNA Structures.
(**Ph.D.,** July 2003, Ms. Sarika Saxena)

54. Toxicological and Immunological evaluation of noscapine, an antineoplastic agent.
(**Ph.D.,** June 2003, Ms. Pankaj Sharma)

55. The synthesis of novel diallyldisulphide compounds having antilipidemic and antioxidant activity.
(**Ph.D.,** December 2002, Ms. Meenakshi Sharma)

56. Use of the Active Principles of *Withania somnifera* to Treat Skin Toxicity Leading to Skin Carcinoma, Induced by UV-Radiation.
(**Ph.D.,** December 2002, Ms. Sheenu Mathur)

57. Immunopathology of Cerebral malaria: Profiling of Th-2 Cytokines and IgE in a Mouse Model.
(**Ph.D.,** December 2002, Ms. Sheetal Sharma)

58. To Study the Effect of Dietary Fat and Endotoxin on Immune Responses and Pathogenesis of Experimental Alcoholic Liver Disease.
(**Ph.D.,** December 2002, Ms. Charu Mehra)

59. Synthesis of New 1,4-Dihydropyridines of Pharmacological importance and addition reactions upon 1,4-Dihydropyridines.
(**Ph.D.,** December 2002, Mr. Anil Kumar Teotia)

60. Effect of Active Constituents of *Withania somnifera* on Anti-stress activity in an Animal Model.
(**Ph.D.,** December 2002, Ms. Parvinder Kaur)

61. Evaluation of diagnostic and prognostic value of nested-Polymerase Chain Reaction in the reactivation of Cytomegalovirus Infection in Renal Transplant Recipients.
(**Ph.D.,** December 2002, Ms. Niti Singh)

62. Synthesis of Novel Monosaccharides as Anti-cancer agents.
(**Ph.D.,** August 2002, Mr. Naval Kishore)

63. Synthesis of N-Substututed Piperazinyl Carbamoyl, Acetyl and related analogues of Papaverine: potent Antispasmodic Agents.
(**Ph.D.,** July 2002, Ms. Jaskiran Kaur)

64. Noscapine, An Anti Tumor Opium Alkaloid: Synthesis of Its Derivatives, Effect on Drug Metabolism and Hepato-Renal Toxicity in Male Wistar Rats.
(**Ph.D.,** April 2002, Ms. Shefali Aggarwal)

65. Analsysis of Cephalosporin Antibiotics.
(**Ph.D.,** April 2002, Mr. Pritesh Rameshbhai Upadhyay)

66. Toxicological Evaluation of LLL2011 and Anti Migraine Herbal Preparation.
(**Ph.D.,** March 2002, Mr. Sharad Kumar Sharma)

67. Anthrax Toxin Mediated Delivery of Protein Antigens.
(**Ph.D.**, December 2000, Ms. Varsha Sharma)

68. Development of New Synthetic Routes for Drug and Drug Intermediates: In relation to Cisapride (A 5HT, Receptor Agonist).
(**Ph.D**, November 2000, Mr. Akhilesh Verma)

69. A new Approach to look into the Chemistry and Biology of Heme in relation to Anti Tumor Agents: Anthracediones.
(**Ph.D**., June 2000, Ms. Charu Rewal)

70. New Innnovations in Metal Porphyrin Biochemistry: Interaction with Vitamin B_2 (Riboflavin) to control Neonatal Jaundice.
(**Ph.D.,** April, 2000, Ms. Ritu Jain)

71. Investigation of Hypothalamus-Pituary-Adrenal Axis Dysregulation in Major Depressive Disorder-A Focus on Serial DST.
(**M.D.**, May 2000, Dr. Girish Sawhney)

72. A comparative Study of the Therapeutic Response of Sertraline and Electroconvulsive Therapy (ECT) and its Correlation with Platelet Serotonin (5-HT) Content in Patients with Depressive Disorder.
(**M.D.**, April, 2000, Dr. Ajay Dogra)

73. Multidentate Macromolecules: Effect on Heme Metabolism.
(**Ph.D.**, December 1999, Ms. Deepali Jain)

74. Cytochrome P-450 Dependent Drug Metabolism and Oxidative Stress as Influenced by Opium Alkaloids in vivo In Rats.
(**Ph.D.**, September 1998, Ms. Archana Sharma)

75. Biological Studies of some Symmetric Heterocycles (Metalloporphyrins).
(**Ph.D**., February 1998, Ms. Manisha Tiwari)

76. Biochemical Studies on Fibronectin.
(**Ph.D**., February 1998, Mr. Nizamuddin)

77. Biological Activity of Heme Metabolic Enzymes as Influenced by Xenobiotics in Association with Metalloporphyrins in Rats.
(**Ph.D**., September 1996, Ms. Ritu Aneja)

78. Metal Ion Interaction in vivo on Hepatic Heme Metabolism in Rats.
(**Ph.D**., August 1995, Ms. Mukta Dhawan)

79. Some Studies on the Regulation of Induction of UV (254 nm) Specific Damage and Repair Processes: An Immunological Approach.
(**Ph.D**., October 1994, Mr. G.U.Gurudutta)

80. Regulation of Pulmonary Surfactant Biosynthesis and Heme Metabolism by Synthetic Metal Porphyrins.
(**M.D.-** Doctor of Medicine, August 1994, Ms. Sujata Wengkheimayum)

81. Studies of Some Potential Anti Cancer Agents: Synthesis and characterisation of Metal Complexes of Macrocyclic ligands having resemblance to biological systems: An approach to develop and evaluate model systems.
(**Ph.D.,** June 1990, Ms. Anjana Sarkar)

82. Synthesis and study of some Heterocyclic compounds as potential Therapeutics: Their Interaction in Heme Metabolism and Biosynthesis.
(**Ph.D,** May 1990, Mr. Narendra Nath Ghosh)

83. Effect of Metalloporphyrins on Heme Metabolism and Biosynthesis: An approach to develop metalloporphyrins therapy for Neonatal Jaundice.
(Ph.D., February 1989, Ms. Ripla Beri)

84. Biological Properties of Pyrimidine derivatives and their Effect on DNA.
(**Ph.D.,** September 1987, Ms. Rachna Agrawal)

*(**Note**: * - Thesis of these students was signed by the co-supervisors*
***** - These students have worked under my supervision but were registered with my co-workers*

ADVISOR/SUPERVISOR of Ph.D. students:

(Thesis of these students were submitted under my supervision, but they have worked with co-supervisors.)

1. Synthesis, Spectral Investigation and Biological Studies of Coordination Compounds of Mn (II), Co(II), Ni(II), Cu(II) with Nitrogen and Oxygen Donor Ligands.
   (**Ph.D.,** February 2019, Mr. Ravi Kant) Co-supervisor – Dr. Sulekh Chandra

2. Synthesis, Characterization and Biological Screening of Transition Metal Complexes with Schiff's base Ligands
   (**Ph.D.,** February 2019, Ms. Monika Tyagi) Co-supervisor – Dr. Sulekh Chandra

3. Synthesis, Spectral Characterization and Molecular Modelling of Co(II), Ni(II), Cu(II) and Zn(II) Complexes of Nitrogen, Oxygen amd Sulphur containing Tetradentate Schiff's base ligands.
   (**Ph.D.,** February 2019, Mr. Satish Chand) Co-supervisor – Dr. Sulekh Chandra

4. Micronutrient containing clay polymer composite films as seed coating material for better plant growth
   (**Ph.D.,** February 2018, Ms. Priyanka Kumari) Co-supervisor – Prof. Monika Dutta

5. Application of Naturally Occuring Clay Minerals for the Synthesis of Nano Pigments as Colorant
   (**Ph.D.,** September, 2017, Ms. Neeraj Kumari) Co-supervisor – Prof. Monika Dutta

6. Synthesis, Reaction ans Applications of Selected Newer Functional Porphyrinoids
   (**Ph.D.,** September, 2017, Ms. Uma Narang) Co-supervisor – Prof. SMS Chauhan

7. Chemical Reactions of Selected Porphyrinoids and Polyaromatic Hydrocarbons
   (**Ph.D.,** September, 2017, Ms. Smriti Arora) Co-supervisor – Prof. SMS Chauhan

ADVISOR/ SUPERVISOR OF THE M.Phil. THESIS:

1. Electrophilic Oxidative Additions upon 1,4 Dihydropyridines
   (**M.Phil.,** September, 1999, Mr. Anil Kr. Teotia)

2. Physico-Chemical studies on Manganese (II) and Copper (II) complexes of Macrocyclic Ligands (**M.Phil.,** September, 1999, Ms. Aparna)

3. Biochemical Studies of Melatonin and SnPP on Cytochrome P450 Dependent Enzymes: Pharmacological Consequences
   (**M.Phil.,** August 1998, Ms. Gunjhan Upadhyaya)

4. Membrane Stability in Relation to Metal Ions Interaction.
   (**M.Phil.,** May 1992, Ms. Shashi Goel)

5. Alcohol Dehydrogenase Inhibitor/Activator: Pyrazole [3,4-d] Pyrimidine derivatives of Thiobarbituric acid.
   (**M.Phil,** May 1992, Mr. Rassanand Sahu)

6. Suppression of chemically Induced Experimental Hepatic Porphyria by Macrocyclic Metal Compounds: Potential Clinical Implications
   (**M.Phil.,** October 1991, Ms. Anuradha Aggarwal)

7. Toxicity of Metal Ions on Neonatal Rat Brain: Influence on Demyelination and Mitochondrial Membrane stability.
   (**M.Phil.,** April 1990, Mr. Prem Pal)

8. Hepatic Mitrchondrial Membrane Chemistry and Heme Metabolism in relation to Multidentate Macromolecules.
   (**M.Phil.,** June 1989, Ms. Deepali Jain)

9. Effect of Metalloporphyrins on Biochemical Development of Rat Brain.

(**M.Phil.,** February 1989, Mr. Vijay Kumar)

10. Synthesis and Characterisation of TiCl4 derivatives of and Co(II) bis-chelates of some Oximes. (**M.Phil**., June 1987, Mr. Rana Rajender Singh)

ADVISOR OF THE THESIS OF THE M.Sc. (BIOMEDICAL SCIENCE) FINAL YEAR STUDENTS OF ACBR:

1. RNAi in Plasmodium Falciparum using Endoribonuclease prepared SiRNAs. Mr. Vamsi K. Kodali, M.Sc (Biomedical Science) June 2003.

2. Protein-Protein interacton studies in Malaria Parasite-Plasmodium Falciperum by least two Hybrid System. Mr. Hemant , M.Sc (Biomedical Science) 2002.

3. Effects of Allicin Extract on lipids and antioxidant properties on wistar stain rats. Ms. Anubha SIngh, M.Sc (Biomedical Science) 2001.

4. Synthesis and characterisation of Modiefied Oligonucleotides Using Maldi-Tof Mass Spectrometry. Mr. Surendra Nimesh, M.Sc (Biomedical Science) Final Year 2001

5. Effect of REM Sleep deprivation on Morphometric parameters of Hippocampal CA3 Neurons in Wistar Rats. Mr. Harish Batra, M.Sc. (Biomedical Sciences) Final Year 2001

6. Modulation of Na+/K+ ATPhase Activity by Serotonin : Implications in REM Sleep Function. Mr. M. Sashi Kiran, M.Sc. (Biomedical Sciences) Final Year 2001

7. Changes in Protein Expression Patterns on E. Coli under Various Growth Conditions. Ms. Bhumika Singh, M.Sc. (Biomedical Sciences) Final Year 2001

8. Synthesis and Purification of Photoresponsive Oligonucleotides. Mr. Gagan Dhawan, M.Sc (Biomedical Science) Final Year 2000

9. Understanding the Molecular Mechanism of Action of Anthrax Lethal Toxin: Role of Domain III of Protective Antigen in the Activity of Anthrax Lethal Toxin
   Ms. Anubha Singh, M.Sc. (Biomedical Science) Final Year 2000

ADVISOR OF THE THESIS OF THE SUMMER UNDERGRADUATE RESEARCH PROGRAM (SURP):

1. Transdermal delivery of noscapine HCl by Microemulsion
   Mr. Jitender Madan, Summer Undergraduate Research Program (SURP) 2004

2. Histopathological and Protein analysis of control and polycystic ovary in female wistar rats
   Mr. KulPrakash Siddharth, Summer Undergraduate Research Program (SURP) 2004

3. A Preliminary study to see the effect of noscapine on to cultured Granulosa cells of a normal and diseased rat ovary
   Mr. Deepak Kumar, Summer Undergraduate Research Program (SURP) 2004

4. Synthesis of unsymmetrical thioureas using piperazine as secondary amine
   Ms. Priyanka Verman, Summer Undergraduate Research Program (SURP) 2004

5. Chemical and pharmacological studies of the semipurified fractions isolated from Ocimum Sanctum
   Mr. Hemant Bangani, Summer Undergraduate Research Program (SURP) 2003

6. Synthesis of various aryl amide derivatives of piperazine and isoleamine using benzotriazole medhology
   Mr. Gaurav Sahel, Summer Undergraduate Research Program (SURP) 2003

7. Protein-Protein interacton studies in Malaria Parasite-Plasmodium Falciperum by least two Hybrid System.
   Mr. Vamsi. K. Kodali, Summer Undergraduate Research Program (SURP) 2003

8. Synthesis and Molecular Characterization of Antisense Oligonucleotides against *gag-pol* transframe domain and *DIS* site of HIV-I genome
   Ms. Suchi Midha, Summer Undergraduate Research Program (SURP) 2001

9. Xanthones of Canscora decussata and their Bioactivities
   Ms. ILA Joshi, Summer Undergraduate Research Program (SURP) 2001

10. Synthesis and Spectroscopic Evaluation of Affinity of Nonpeptidic CCK-B/ gastrin Receptor Antagonists for its Receptors
    Ms. Neetu Kalra, Summer Undergraduate Research Program (SURP) 2001

11. Mutagnesis of Clacium Binding Residues of Anthrax Toxin Protective Antigen
    Mr. Ashutosh Chaudhry, Summer Undergraduate Research Program (SURP) 2000

12. Study of the diagnostic value of ELISA for cortisol estimation in sera of endogenously depressed patients
    Amandeep Kaur**,** Summer Undergraduate Research Program (SURP), 2000

13. Techniques in Recombinant DNA Technology
    Mr. Sanjeev Prasad, Summer Undergraduate Research Program (SURP), 2000

14. Synthesis of DNA – Affinity Binding Molecules Such as Carbazole Derivatives to Undestand the Topology of Drug-DNA Interaction in Designing Anticancer Chemotherapeutic Agents
    Mr. Ahswani Kumar, Summer Undergraduate Research Program (SURP) 1999

15. Synthesis of 2-Amino Benzol [h] Quinazoline and DNA Binding Activity as DNA Intercalating Agents
    Mr. Braham Parkash, Summer Undergraduate Research Program (SURP) 1999

16. Towards the Detection of Proteins Rsponsible for Sex Specific Heterochromatization of Mealybugs
    Mr. Ayaz Sayed, Summer Undergraduate Research Program (SURP) 1999

17. Immunological Alterations in Experimental Alcoholic Hepatitis
    Ms. K.S. Ratna Kumari, Summer Undergraduate Research Program (SURP) 1999

18. Immunological Effect Of Carbon Tetrachloride Induced toxicity in Murine Model
    Ms. P. Naga Lakshmi, Summer Undergraduate Research Program (SURP) 1999

19. Localization of the oligomerization domain of anthrax domain
    Ms. Anubha Singh, Summer Underghraduate Research Program (SURP) 1999

20. To evaluate immunotoxicity of an antineoplastic agent, Noscapine in Wistar Rats
    Ms. Pankaj Sharma, Summer Undergraduate Research Program (SURP), 1998

21. A study of the noscapine – mediated alterations of lipid peroxidation and glutathione content in rat lung
    Mr. Krishan Kumar, Summer Undergraduate Research Program (SURP), 1998

22. A Versatile Oxygen Carrying Synthetic Chelate: Cobalt Stearate Synthesis and study of oxidation of organic substances using cobalt stearate - dioxygen
    Mr. Vinod Kumar V., Summer Undergraduate Research Program (SURP), 1998

23. Synthesis of 9-substituted acridine derivatives as DNA intercalating agents
Ms. Parul, Summer Undergraduate Research Program (SURP), 1998

24. Synthesis of carbazole and indolocarbazole for studying their anti cancer Activity
Ms. Anshu, Summer Undergraduate Research Program (SURP), 1998

25. A study of the effect of cryptopine, an opium alkaloid on the biotransformation enzyme system and lipid peroxidation *in vivo* in rats
Mr. Hridip K. Sarma, Summer Undergraduate Research Program (SURP), 1998

26. Effect of cryptopine on the hepatic and splenic biotransformation enzymes system and lipid peroxidation *in vivo* in rats
Mr. Arun Pradhan, Summer Undergraduate Research Program (SURP), 1998

27. SnPP (A Potential drug for neonatal jaundice) in association with gossypol alters heme metabolism
Ms. Swati Bhowmik (August, 1997) under SURP program.

28. Protoporphyrin-IX-Ethanol interaction alters heme metabolism
Ms. Ritu Jain (August, 1997) under SURP program

29. Antagonistic effect of FePP on the ethanol mediated induction of hepatic, renal and splenic -amino levulinic acid synthase activity in vivo in rats
Ms. Charu Rewal (August, 1997) under SURP program.

30. A study of differential dosage of 4-acetyl-amino-5-chloro-2-methoxy benzoic acid (Cisapride intermediate) on the regulatory enzymes of heme metabolism.
Ms. Anita (August, 1997) under SURP program.

Publications Profile

PATENTS

1. Indian Patent No.: 245820
Patent Application No. - 1154/DEL/2001

Title: “Novel Diallyldisulphide Compounds Having Antilipidemic And Antioxidant Activity”
Manisha Tiwari, Meenakshi Sharma and **Ramesh Chandra**
Date of Filing – 16/11/2001
Date of Grant of Patent – 02/02/2011

2. Indian Patent No: 217681
   Patent application No 21/DEL/2003
   Title:"A process of preparing an extract of annona squamosa for treatment of diabetes”
   Vibha Tandon, Geeta Watal, **Ramesh Chandra**, Rajesh kumar Gupta, Achyut Narayan Kesari,
   Date of Filing-07/01/2003
   Date of Grant-28/03/2008

3. Indian Patent No: 241650
   Patent application No 32/DEL/2003
   Title: “The process for the synthesis of bisbenzimidazoles and its derivations”
   Akash Jain, Urmila Tawar, **Ramesh Chandra**, B.S. Dwarakanath, N. K. Chaudhury, Vibha. Tandon,
   Date of Filing-09/01/2003
   Date of Grant-17/07/2010

4. European Patent No: 1590332 (European patent application no. 03815133.8)
   (Priority Indian patent application No 32/DEL/2003 and PCT International patent application no.PCT/IN03/00301)
   Title: “The process for the synthesis of bisbenzimidazoles and its derivations”
   Akash Jain, Urmila Tawar, **Ramesh Chandra**, B.S. Dwarakanath, N. K. Chaudhury, Vibha. Tandon,
   Date of Filing: 08.09.2003
   Date of Grant: April 27, 2011

5. European Patent No: 1589983 (European patent application no. 03814526.4)
   (Priority Indian patent application No 21/DEL/2003 and PCT International Patent Application no PCT/IN03/00228)
   Title: "A process of preparing an extract of annona squamosa for treatment of diabetes”
   Vibha Tandon, Geeta Watal, **Ramesh Chandra**, Rajesh kumar Gupta, Achyut Narayan Kesari,Date of Filing: 20.06.2003
   Date of grant : EPO intention to grant issued, further pursuance would subject to quick possibility of commercialization.

6. Patent Application No. PCT/US2008/055818
   Title: “9-Chloro Noscapine and its use in treating Cancers, including Drug-Resistant Cancers”.
   Ramesh Chandra
   Date of Filing – 04/03/2008
   Date of Publication – 12/09/2008

7. International Application No. - PCT/IN2003/000250
   Title: “Diallyldisulphide Compounds Having Antilipidemic And Antioxidant Activity”
   Manisha Tiwari, Meenakshi Sharma and **Ramesh Chandra**
   Date of Filing – 24/07/2003
   Date of Publication – 04/02/2011

8. “Rational Design of a Microtubule targeting Anti-Breast Cancer Drug, EM015”
   Ritu Aneja, **Ramesh Chandra** and Harish C. Joshi
   US Patent filed in Atlanta, GA, USA (July, 2005)

List of Books

1. Silver nanoparticles in drug delivery: From bench to bedside.
   Jitender Madan, Ramesh Chandra and Rahul Sharma
   Lap Lambert Academic Publishing **(2018)**

ISBN: 978-613-7-32812-5

2. Advances in Nanomedicine for the Delivery of Therapeutic Nucleic Acids.
   Surendra Nimesh, Nidhi Gupta, Ramesh Chandra.
   Woodhead Publishing Series in Biomedicine, Oxford, UK **(2017)**
   Publisher: Elsevier, Published on 6th April 2017

3. Post-genomic Approaches in Drug and Vaccine Development
   Editors: Meena K. Sakharkar, Kishore R. Sakharkar and **Ramesh Chandra**
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4. Post-genomic Approaches in Cancer and Nano Medicine
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5. Theory, Techniques and Applications of Nanotechnology in Gene Silencing
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   Authors: V.K. Ahluwalia, Pooja Bhagat, Renu Aggarwal, **Ramesh Chandra**
   Publisher- I.K. International, India Publishing House, **2005**,
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1. Saravana Babu Chidambaram, Bipul Ray, Abid Bhat1, Arehally Marappa Mahalakshmi, Tuladhar Sunanda, Padamati Jagadeeswari, Mysore Prakash Gowrav, **Ramesh Chandra**, Meena Kishore Sakharka **(2019).**
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2. Vaishali Sengar, Kiran Jyoti, Upendra Kumar Jain, Om Prakash Katare, **Ramesh Chandra**, Jitender Madan **(2018)**.
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5. R. Mankamna Kumari, Nikita Sharma, Nidhi Gupta, **Ramesh Chandra** and Surendra Nimesh **(2018).** Synthesis and evolution of polymeric nanoparticles: Development of an improved gene delivery system. Chapter 11 in Design and Development of New Nanocarriers. Editor: Alexandru Mihai Grumezescu, Elsevier, William Andrew Publications. ISBN: 978-0-12-813627-0.

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8. Madhu Khanna, Nishtha Agrawal, Gagan Dhawan and **Ramesh Chandra (2017)**. Influenza pandemics and the associated bacterial infections. Aust n Publishing Group. Basic and Clinical Virology: Student Book.

9. Singh P, Kumari K, Vishvakrma VK, Mehrotra GK, **Chandra R**, Kumar D, Patel R and Shahare VY **(2017)**. Metals Nps (Au, Ag and Cu): Synthesis, stabilization and their role in green chemistry and drug delivery. Chapter in Green Technologies and Environmental Sustainability. Editors: Ritu Singh and Sanjeev Kumar. ISBN: 978-3-319-50653-1.

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13. Vishvakarma V. K., Kumari K., Patel R., Singh P., Mehrotra G. K. and **Chandra R. (2015)** Gelatin Nanocomposites (GNCs): An Efficient Drug Delivery System, Biomedical Applications of Natural Proteins, SpringerBriefs in Biochemistry and Molecular Biology, Editors: Dhiraj Kumar, Rajesh R. Kundapur, ISBN: 978-81-322-2490-7 (Print) 978-81-322-2491-4 (Online)

14. **Chandra R**, Madan J, Singh P,Tomar V, Dass SK, & Chandra A **(2014)**.
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18. Kumar K, Singh P, Shrivastava RC, Kumar P, Mehrotra GK, Samim M, **Chandra R**, & Mordhwaj **(2011)**. A green approach for the synthesis of thiazolidine-2,4-dine and its analogues using gold NPs as catalyst in water. *Chemistry of Polypotentials: Health, Energy and Environmental Perspectives, Invited Chapter No. 70. DOI: 10.1007/978-3-642-23394-4-70*, published by Springer-Verlag, Heidelberg (Germany).

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delivery system. *In Gene Silencing: Theory, Techniques and Applications, Chapter IV.* Editor: Anthony J. Catalano. ISBN: 1-61728-276-8. Published by: Nova Science Publishers, Inc. New York, USA.

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1. Bhat A., Mahalakshmi, A.M., Ray B., Tuladhar S., Hediyal A.D., Manthiannem E., Padamati J., **Chandra R.,** Chidambaram S., and Sakharkar M. **(2019).** Benefits of curcumin in brain disorders. *BioFactors.* 1-24.

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4. Singh, S., Rajendran, V., He, J., Singh, A.K., Achieng, A.O., Vandana, Pant, A., Nasamu, A.S., Pandit, M., Singh, J., Quadiri, A., Gupta, N., Poonam, Ghosh, P., Singh, B., Narayanan, L., Kempaiah, P., **Chandra, R**., Dunn, B., Pandey, K.C, Goldberg, D.E., Singh, A., and Brijesh, R. **(2019)**. Fast-acting small molecules targeting malarial aspartyl proteases, plasmepsins, inhibit malaria infection at multiple life stages. *ACS Infect. Dis*. *5(*2), 184-198

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8. Nagpal, M., Kaur, M., Sharma, D., Baldi, A., **Chandra, R.** and Madan, J. **(2019).** Optimization of sulfation of okra fruit gum for improved rheological and pharmacological properties. *Int. J. Biol. Macromol.*, *122*, 1-9.

9. Tomar, R., Singh, N., Kumar, N., Tomar, V., and **Chandra, R. (2019)**. Base-Free Suzuki-Miyaura Coupling Reaction Using Palladium (II) Supported Catalyst in Water. *Catalysis Letters*. *149(6)*, 1589-1594.

10. Kumar, N., Chugh, H., Sood, D., Singh, S., Singh, A., Awasthi, A., Tomar, R., Tomar, V. and **Chandra, R. (2019)**. Biology of Heme: Drug Interactions and Adverse Drug Reactions with CYP450, *Curr. Top. Med. Chem. 18*(23), 2042-2055.

11. Singh A., Kumar N., Sood D., Singh S., Awasthi A., Tomar V., and **Chandra R. (2019)**. Designing of a Novel Indoline scaffold based Antibacterial Compound and Pharmacological Evaluation using Chemoinformatics approach, *Curr. Top. Med. Chem. 18(23),* 2056-2065.

12. Kumari K., Singh P., Bauddh K., Sweta, Mal-lick S. and **Chandra R. (2019).** Implications of Metal Nanoparticles on Aquatic Fauna: A Review. *Nanosc. Nanotechno.-Asia*, *9*, 30-34

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PAPERS/ ABSTRACTS IN SCIENTIFIC MEETINGS/CONFERENCE

1. Employment of Cerium-Based Catalyst in Organic Chemistry.
   Ravi Tomar and **Ramesh Chandra**,
   Japan-India Symposium, School of Materials Science, Japan Advanced Institute of Science and, Technology, Ishikawa, Japan. 7th March, 2019 (Poster Presentation)

2. Emerging Implications of Nanoscale Based Drug Delivery Systems in Delivery and Targeting Tubulin Binding Agent, Noscapine And Its Analogs in Cancer Cells
   Vartika Tomar, Ravi Tomar, **Ramesh Chandra**
   Japan-India Symposium, School of Materials Science, Japan Advanced Institute of Science and, Technology, Ishikawa, Japan. 7th March, 2019 (Poster Presentation)

3. Noscapine Structure-guided Potential Analogue Designing and Pharmacological Evaluation employing Chemoinformatics Approach (Oral Presentation-7)
   Neeraj, Kumar, Damini, Sood, Pallavi, Jain, Garima, Pandey, Swati Sharma & **Ramesh Chandra**
   Integrative Chemistry, Biology & Translational Medicine - (ICBTM), 25 & 26 February, 2019 at University of Delhi, Delhi, India

4. Large-scale flexibility analysis of protein-peptide fragments: An Advanced approach to design potential antibacterial peptide

Neeraj Kumar, **Ramesh Chandra**
International Conference on "6th world congress on Nanomedical Sciences-ISNSCON-2018", "Chemistry-Biology Interface 2019" and "Conference on "Science and Technology for the Future of Mankind" from 7th-9th January, 2019 at Vigyan Bhawan, New Delhi. (Poster Presentation)

5. A Journey from Bench to Bedside Noscapine: Opium Alkaloid- A Potential Chemotherapeutic Agent
   Ramesh Chandra
   International Conference on "6th world congress on Nanomedical Sciences-ISNSCON-2018", "Chemistry-Biology Interface 2019" and "Conference on "Science and Technology for the Future of Mankind" from 7th-9th January, 2019 at Vigyan Bhawan, New Delhi. (Poster Presentation)

6. Manufacturing blood (cells) to deal with safety and supply concerns: Tissue engineering approaches using stem cells and other essential techniques
   Dr. Vimal Kishor Singh, Abhishek Saini, **Ramesh Chandra**
   International Conference on "6th world congress on Nanomedical Sciences-ISNSCON-2018", "Chemistry-Biology Interface 2019" and "Conference on "Science and Technology for the Future of Mankind" from 7th-9th January, 2019 at Vigyan Bhawan, New Delhi. (Poster Presentation)

7. Direct Synthesis Of Imines From Benzyl Alcohols Using Gold Nanoparticles Supported Mgce-Hdo Composite
   Sahil Kohli, Ravi Tomar, VartikaTomar, **Ramesh Chandra**
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8. Polymeric Nanocarrier Assisted Drug Delivery For The Treatment Of Cancer
   Nikita Sharma, Nidhi Gupta, **Ramesh Chandra**, Romila Manchanda, Surendra Nimesh
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9. Synthesis of Co3O4 Nanoparticles Wrapped Within Full Carbon
   Matrix as an Anode Material for Lithium Ion Batteries
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10. Chitosan/siRNA nanoparticles: An efficient approach for breast cancer treatment
    R. Mankamna Kumari, Nidhi Gupta, **Ramesh Chandra**, Surendra Nimesh
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11. Activity Profile of Phthalimide Analogs Against Schistosomiasis: Synthesis, Anti-Schistosomal and Structure Activity Relationship
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12. Bioreceptor less biosensing platform for efficient detection of serotonin neurotransmitter
    Chhaya Chaudhary, Shikha Sharma , **Ramesh Chandra**
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13. Aza-Bambusurils En Route To Anion Transporters
    Mandeep Singh, Ephrath Solel, Ehud Keinan , Ofer Reany, S M S Chauhan, **Ramesh Chandra**
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14. Nanomedicine Based Strategies For The Treatment Of Hypercholestrolemia And Related Cardiovascular Diseases
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15. One-Pot Synthesis Of Imines Using Hydrotalcite Supported Ceria Nanoparticles As Heterogeneous Catalyst
    Ravi Tomar, Shun Nishimura, Kokhi Ebitani and **Ramesh Chandra**
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16. Design And Engineered Pegylation Technology Biologics Open The New Vision Of Biotherapeutics
    Dileep Tiwari and Ramesh Chandra
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17. A New Emergent Biocompatible Nifeti Layered Double Hydroxide Adsorbent For Ultrafast Removal Of Anionic Organic Dyes
    Garima Rathee, **Ramesh Chandra**
    International Conference on "6th world congress on Nanomedical Sciences-ISNSCON-2018", "Chemistry-Biology Interface 2019" and "Conference on "Science and Technology for the Future of Mankind" from 7th-9th January, 2019 at Vigyan Bhawan, New Delhi. (Poster Presentation)

18. Synthesis and Characterization of Novel Noscapine and its Analogues: Innovative Anti-Cancer Drug
    Ravi Tomar, Ishita Chandra, Vartika Tomar, and Ramesh Chandra
    International Conference on "6th world congress on Nanomedical Sciences-ISNSCON-2018", "Chemistry-Biology Interface 2019" and "Conference on "Science and Technology for the Future of Mankind" from 7th-9th January, 2019 at Vigyan Bhawan, New Delhi. (Poster Presentation)

19. Development And Evaluation Of Novel Diclofenac Diethylamine Gel For Anti-Inflammatory And Analgesic Activity
    Jitender Madan, Rupinder Kaur Sodhi, Simerjeet Kaur Chahal, M. Arockia Babu, **Ramesh Chandra**
    International Conference on "6th world congress on Nanomedical Sciences-ISNSCON-2018", "Chemistry-Biology Interface 2019" and "Conference on "Science and Technology for the Future of Mankind" from 7th-9th January, 2019 at Vigyan Bhawan, New Delhi. (Poster Presentation)

20. Inhalable MUC-1 peptide vaccine for the treatment of lung cancer: Opportunities and Challenges
    Kiran Jyoti, Jitender Madan, M. Arockia Babu, Om Prakash Katare, Anju Katyal, **Ramesh Chandra**
    International Conference on "6th world congress on Nanomedical Sciences-ISNSCON-2018", "Chemistry-Biology Interface 2019" and "Conference on "Science and Technology for the Future of Mankind" from 7th-9th January, 2019 at Vigyan Bhawan, New Delhi. (Poster Presentation)

21. Synthesis of novel noscapine-amino acid conjugates for the potential treatment of cancer
    Amardeep Awasthi, Mandeep Singh, Vartika Tomar, **Ramesh Chandra**
    International Conference on "6th world congress on Nanomedical Sciences-ISNSCON-2018", "Chemistry-Biology Interface 2019" and "Conference on "Science and Technology for the Future of Mankind" from 7th-9th January, 2019 at Vigyan Bhawan, New Delhi. (Poster Presentation)

22. Identification Of Promising Molecular Targets For Curcumin And Its Novel Analogs By Molecular Docking Technique

Monika Chaudhary , Upendra KumarJain, JitenderMadan, **Ramesh Chandra**
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23. Cancer antigenic peptide presentation and optimization employing immunoinformatics and structural biology approaches
    Damini Sood, Neeraj Kumar, Vartika Tomar, **Ramesh Chandra**
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24. "Design and Synthesis of Bioactive Pyrazinoindoles"
    Aarushi Singh, Mandeep Singh, Srishti Kakkar, **Ramesh Chandra**
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25. "Base-Free Oxidation Of Aldose Using Solid Support Catalyst",
    Loveneesh Kumar, Ravi Tomar, Vartika Tomar, **Ramesh Chandra,**
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26. "Interaction of Noscapine with Blood Proteins".
    Heerak Chugh, Pramod Kumar, Navrinder Kaur, Vartika Tomar and **Ramesh Chandra.**
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27. "Synthesis, In-silico and In-vitro Evaluation of Novel Noscapine based Ionic Liquids showing Potential Anticancer activity"
    Hitesh Sehrawat, Ravi Tomar, Neeraj Kumar, Vartika Tomar, **Ramesh Chandra**
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28. Greener Approaches Towards Organic Transformation Using Heterogeneous Catalysis
    Ravi Tomar, VartikaTomar, **Ramesh Chandra**,
    6th World Congress on Nanomedical Sciences ISNSCON-2018 & Chemistry Biology Interface Synergistic in New Frontiers 7-9th January 2019(Poster Presentation)

29. "An Efficient and Stereoselective synthesis of novel pyrazinopyrrole derivatives"
    Nidhi Singh, Mandeep singh, Vartika Tomar, **Ramesh Chandra**
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31. "Interaction of Noscapine with Blood Proteins".
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    Navrinder Kaur and **Ramesh Chandra**
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    Garima Rathee, Ravi Tomar, Vartika Tomar and **Ramesh Chandra**
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    Vartika Tomar, **Ramesh Chandra** and Satya Prakash
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    Akhilesh Verma, Devender Singh, Rakesh Tiwari, Parminder Kaur, Jaspal Singh and Ramesh Chandra
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    Akhilesh Verma, Preeti Chaudhary, Rupesh Kumar and **Ramesh Chandra**
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    Niti Singh, Sarman Singh, P S Bisen and **Ramesh Chandra**
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    R. K. Gupta, A.N. Kashri, Geeta Watal, P.S. Murthy, **Ramesh Chandra**, Kapil Maithai and Vibha Tandon
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213. Metal Ion Regulation of Heme Metabolic Enzyme
Ripla Beri and **Ramesh Chandra**
Proceedings 20th FEBS Meeting (Federation of European Biochemical Societies), Budapest, Hungary, P-Tu-576, 218 **(1990)**

214. Interaction of Metalloporphyrins on Hepatic Plasma membrane in Neonatal Hyberbilirubinemic Rats.
Ramesh Chandra and Ripla Beri
Proceedings of Gordon Research Conference on Drug Metabolism, Plymouth, (N.H.), USA, W-2, **(1990)**

215. Long term administration of massive doses of barbiturates in rats.
Ramesh Chandra
Proceedings of 637th Meeting of Biochemical Society, London, England**,** Presentation Ref. 198, **(1990)**

216. Effect of barbiturates on cholesterol levels in rats.
Ramesh Chandra
Proceedings of Gordon Research Conference on Drug Metabolism, Plymouth, (N.H.), USA, W-3, **(1990)**

217. Suppression of Hyperbilirubenemia in rats having high plasma bilirubin levels by Cr-protoporphyrin.
Ramesh Chandra
Proc. XXVIII International Conference on Coordination Chemistry, Queensland, Australia, **2** (1-74), **(1990)**

218. Tautomersim in synthesis of 1,3-diaryl 1-5[4-(Arylazo) Benzene amino azo] dihydro-2,4,6 (1,3,5H) pyrimidinediones.
Ramesh Chandra and N.N.Ghosh
Proc. 8th Internat. IUPAC Conf. on OrganicSynthesis, 477, **(1990)**

219. Synthesis and spectral studies on some hydrazonesof 1,3-diaryl barbituric acids and thiobarbituric acids.
Ramesh Chandra and Narender Nath Ghosh

Proceedings National Seminar on Heterocyclic Chemistry in Nature and Industry, Gauhati, India P-20, 15, **(1990)**

220. Regulatory Action of Metal Ions on S-aminolevulinate synthase and Heme Oxygenase
Chandra R
Proc. 32nd IUPAC Congress., 208, 8054 **(1989)**

221. Regulatory Action of Metal Ions on d-aminolevulinate synthase and Heme oxygenase.
Ramesh Chandra
Proc. 32nd IUPAC Congress. Stockholm, Sweden, 208, 8056, **(1989)**

222. Synthesis of 1,3-Bis aryl-5 [4`-arylazo) benzeaminoazo] dihydro-2-thioxo-4, 6-(1H,5H) - pyrimidinediones.
Ramesh Chandra and Narender Nath Ghosh
Proc. Convention of Chemists, ORG(OS)-38, C14, **(1989)**

223. Spectral Studies of Uranyl (VI) Complexes
Ramesh Chandra
Proc. XXVII Int. Conf. Coord. Chem. W 138, **(1989)**

224. Effective Role of Metalloporphyrins in controlling Plasma levels of bilirubin.
Ramesh Chandra
Inorganic Biochemistry Proc. IVth International Conference on Bioinorganic Chemistry MIT, Cambridge, USA, **(1989)**

225. Chromium-protoporphyrin suppression of Hyperbilirubinemia in Rats having Plasma Bilirubin levels.
Ramesh Chandra
Proc. Gordon Research Conference in Inorganic Chem., M-7, **(1989)**

226. Coordination of Amido Oxygen in keto and enolic for ms in mixed ligands complexes.
Ramesh Chandra and B.S.Garg
Proc. XXII Internat. Conf. Coord. Chem., MO 56, **(1982)**

227. VO(IV), Zr(IV), Hf(IV) and UO_2 complexes of planar pentadentate ligands.
Ramesh Chandra, S.K.Sahni and R.N.Kapoor
Proc. Convention of Chemists, ING.10, 2-48, **(1979).**

SYMPOSIUM /SEMINARS/ INTERNATIONAL CONFERENCES ORGANIZED:

President	ISNSCON 2018 - 6th World Congress on Nanomedical Sciences, held at Vigyan Bhavan, New Delhi, during 7th -10th January, 2019.
Chairman	International Conference on Emerging Trends in Drugs Development And Natural-Products (ETDDNP-2018), during 12th – 14th January, 2018, University of Delhi, Delhi.
Co-Chairman	International Conference on translational Medicine in 21st century: Stem Cell Transplantation:Current satus", during 11th – 14th April, 2015, Baraktullah University, Bhopal
Member	International Advisory Board in 16th International Biomedical science and Technology Symposium held in Istanbul, Turkey, 28-30 October, 2010-onwards
Secretary	Interantional Conference of Forum of Scienctist from South and South East Asia on "*Capacity Building in Science & Technology, Policy Perspective Opportunities and Challenges in the Context of Globalization*" Organized by Zaheer Foundation in Colloboration with INSA and Supported by UNESCO, Ministry of HRD & Ministry of Science and Technology, Govt. of India, ISSESCO, November 27-29, 2007
Chairman -	International Conference on 'Chemistry Biology Interface: Synergistic New Frontiers', November 21-26, 2004, Vigyan Bhavan, New Delhi (Organized by ACBR).

Chairman - V Annual Symposium on Frontiers in Biomedical Research, New Delhi, April 14-16, 2004 Organized by ACBR

Chairman - International Conference on Recent Advances in Biomedical and Therapeutic Sciences organised jointly by Institute of Biomedical Sciences and Vaidya Ram Narain Sharma Institute of Ayurveda and Alternate Medical Education & Research, Bundelkhand University, Jhansi and Erasmus MC University Medical Center, Rotterdam, The Netherlands, January 13-15, 2004

Chairman - 40th Annual Convention of Chemists (Annual Meet of Indian Chemical Society) held at Bundelkhand University, Jhansi, December 23-27, 2003

Chairman - IV Annual Symposium on Frontiers in Biomedical Sciences, organised by University of Delhi, Delhi, April 13-15, 2003

Chairman - Seminar on 'National Conference on Emerging Areas in Biomedical Sciences' Bundelkhand University, Jhansi and Dr. B.R.Ambedkar Center for Biomedical Research, December 28-30, 2002

Chairperson- Annual Symposium in Biomedical Science
Dr. B.R.Ambedkar Center for Biomedical Research, April 14-16, 2003.
University of Delhi, Delhi - 110 007, India.

Seminar on 'Annual Symposium in Biomedical Sciences'
Dr. B.R.Ambedkar Center for Biomedical Research, April 11-12, 2002.
University of Delhi, Delhi - 110 007, India.

Chairperson- Seminar on 'Annual Symposium in Biomedical Sciences'
Dr. B.R.Ambedkar Center for Biomedical Research, April 13-14, 2001
University of Delhi, Delhi - 110 007, India.

Chairperson- Workshop on ' Techniques in Recombinant DNA Technology'
Dr. B.R.Ambedkar Center for Biomedical Research, April 13-14, 2000
University of Delhi, Delhi - 110 007, India.

Chairperson - Indian Chemical Society Sponsored Seminar on ' Drug Discovery Research'
Dr. B.R.Ambedkar Center for Biomedical Research, December 17, 1998,
University of Delhi, Delhi - 110 007, India.

Chairperson- Seminar on 'Current Status of Oral and Implantable Contraceptive Agents'
Dr. B.R.Ambedkar Center for Biomedical Research October 31-November 1, 1998,
University of Delhi, Delhi - 110 007, India.

Chairperson- 'STN Seminar' (Scientific and Technical Online Information Network)
Dr. B.R.Ambedkar Center for Biomedical Research Sept. 18-19, 1998,
University of Delhi, Delhi - 110 007, India.

Chairperson- Seminar on `Hyphenated Techniques for Chemical Analysis',
Dr. B.R.Ambedkar Center for Biomedical Research, April 25, 1998
University of Delhi, Delhi - 110 007, India.

Chairperson- Symposium on `Frontiers in Biomedical Research',
Dr. B.R.Ambedkar Center for Biomedical Research, March 31-April 2, 1998
University of Delhi, Delhi - 110 007, India.

Convenor- Local Organizing Committee, 34th Annual Convention of Chemists, Indian Chemical Society
Dr. B.R.Ambedkar Center for Biomedical Research, December 17-20, 1997
University of Delhi, Delhi - 110 007, India.

Chairperson- International Seminar on Interface between Chemistry and Biology, January 1st, 1997, Delhi, India.

Chairperson-	International Conference on Current Trends in Chemical and Experimental Lung Research, November 20-22, 1996, Department of Chemistry, University of Delhi, Delhi – 110 007, India.
Secretary-	International Conference on Current Trends in Chemical Research, January 5-7, 1991, Delhi, India.
Secretary-	National Seminar on Dr. Ambedkar, Science and Society held at NPL, March 7-8, 1991, New Delhi, India.
Member-	IUPAC-NOST International Symposium on Enzymes in Organic Synthesis, January 6-9, Org. Comm 1992, New Delhi, India.

Research Projects (Major Grants/Research Collaboration)

1. Design of Novel Fluorinating Reagent: Application in the synthesisi of Fluoror organic molecules. Funded by DRDO under ARMREB. Amount - Rs. 40 lakhs on 31st December, 2018.

2. Synthesis and Characterization of Eco-friendly Gold supported LDH catalyst, application in Synthesis of Organic Compounds.Funded by- Science and Engineering Research Board (SERB), DST(Amount- 49,61,440/-) during 2016-2019. Principal Investigator- Prof. Ramesh Chandra. during 2016-2019

3. Identification Of 5-Hydroxymethylcytosine Markers and Design of Epigenetic drugs for Head and Neck Carcinomas. Funded by- Science and Engineering Research Board (SERB), DST during 2016-2019. Principal Investigator- Prof. Ramesh Chandra, Co-Principal Invertigator(I)- Dr. Uma Dhawan,Co-Principal Investigator (II)- Dr. Gagan Dhwan.

4. Synthesis and Biological Evaluation of a Novel Class of Anti-tumor drugs based upon the natural alkaloid noscapine. Funded by- Council of Scientific Research and Industrial Research (CSIR). (Amount-29,76,540/-) during 2016-2019. Principal Investigator- Prof. Ramesh Chandra.

5. Design, synthesis and biological screening of chiral pyrazinoindoles and pyrazinopyrroles as potential antibacterial agent. Funded by- Science and Engineering Research Board (SERB), DST. during 2016-2019 (Amount – 43,26,000). Principal Investigator- Prof. Ramesh Chandra.

6. Development of Tubulin binding Novel Noscapine Derivatives and their Nanopartilces for the Potential Treatment of Cancer and Drugs Resistant Cancer. Funded by the Research & development scheme 2015-2016, University of Delhi. (Rs.3,00,000)

7. Nanomedicine nanotechnologie cancer research initiative. International Nanotechnology Collaboration (PI). Funded by Quebec Ministry of Economic, Innovation and Exportation (MDEIE) of Can. $ 69,000.00 during 2007-2009

8. Evaluation of a novel tubulin-binding noscapinoid, 9-bromo-noscapine for the management of hormone responsive and refractory breast cancers *.Funded by Indian Council of Medical Research, 2007 (Amount Rs. 10, 50, 000/-) Principal Investigator: Prof. Ramesh Chandra

9. Treatment of Hormone and Drug Sensitive and Refractory Human Breast Tumors by

Augmentation of Specific Apoptosis by 9-Br-Noscapine and its Novel Analogs *. Funded by Department of Science and Technology, 2007 (Amount Rs. 8, 70, 000/-) Principal Investigator: Prof. Ramesh Chandra Co-Principal Investigator: Prof. Harish Joshi, USA

10. Commmercial production of Bijasal (Pterocarpus Marsupium Roxb.)- An Endangered Medicinal Leguminous Tree Funded by Indian Council of Medical Research, 2007(Amount Rs. 4, 11, 768) Principal Investigator: Prof. Ramesh Chandra & Co-PI: Dr. S. C. Gupta

11. UGC Assistance to ACBR under SAP I for Drug Discovery & Development Coordiantor: Prof. Ramesh Chandra & Co-Cordiantor: Dr. Vibha Tandon Funded by University Grant Commission,2007-2012 (Amount Rs. 39, 00, 000/-)

12. Human Resource Development for Biomedical Research (Catch Them Young) Funded by Council of Scientific and Industrial Research, 2000-2009 (Amount Rs. 7,00, 000/- per annumn,) Principal Investigator: Prof. Ramesh Chandra & Co-PI: Dr. Y. Singh

13. Biochemical investigations on antidiabetic effect of Brassica Nigra. Funded by Indian Council of Medical Research, 2006 (Amount Rs. 12, 00, 000/-) Principal Investigator: Prof. Ramesh Chandra

14. Drug Discovery and Development in Biomedical Sciences (Under Innovative Program) Funded by University Grant Commission, 2005(Amount Rs. 39,75, 000/-) Coordianator: Prof. Ramesh Chandra

15. Molecular Mechanism of acetoxy drug: Protein trans-acetylase catalyzed activation of smooth muscle nitric oxide synthase by polyphenolic peracetates * Funded by Defence Research and Development Organization,2005 (Amount Rs. 9, 57, 500/-) Principal Investigator: Prof. Ramesh Chandra Co-Principal Investigator: Prof. H.G. Raj

16. A search for some new anti-tumor drugs based upon the natural alkaloid – Noscapine *. Funded by Department of Science and Technology, 2005(Amount Rs. 68, 40, 000/-) Principal Investigator: Prof. Ramesh Chandra.

17. Identification and Characterization of antidiabetic compounds from *Annona Squamosa* and *Ocimum sanctum* Funded by Indian Council of Medical Research, 2005(Amount: Rs. 5,28,318/-) Principal Investigator: Prof. Ramesh Chandra & Co- Principal Investigator: Dr. Vibha Tandon

18. Teaching & Research in Interdisciplinary and Emerging Area Funded by University Grants Commission, 2005(Amount: 39,75.000/-) Principal Investigator: Prof. Ramesh Chandra

19. Establishment of High Resolution NMR Central Facility for Biomedical Research Funded by Department of Science and Technology, Amount: Rs. 95,00,000/-, 2004) Principal Investigator: Prof. Ramesh Chandra Co- Principal Investigator: Dr. Vibha Tandon

20. Establishment of Liquid Chromatograph-Mass Spectrometer (LC-MS-MS) (Funded by Department of Science and Technology, Amount: Rs. 75,00,000/-, 2003) Principal Investigator: Prof. Ramesh Chandra

21. Design and synthesis of mimic of the dihydropyridine calcium channel modulator and synthesis of peperidine derivatives such as Azasgars (Funded by Indian Council of Medical Research, 2003) Principal Investigator: Prof. Ramesh Chandra

22. Role of metalloporphyrins in Therapeutics of Cardiovascular Complications during hypoxic stress" (Funded by Indian Council of Medical Research, Amount: Rs. 8,18,200/-, 2003) Principal Investigator: Prof. Ramesh Chandra

23. In vitro propagation of Bijaswal (Pterocarpus marsupium Roxb.): A Medicinal Leguminous Tree" (Funded by Department of Science and Technology, Amount: 16,13,760/-, 2003) Principal Investigator: Prof. Ramesh Chandra Co-Principal Investigator: Dr. S. C. Gupta

24. The Adaptive Medicine and its Relevance.(Funded by Department of Science and Technology,

Amount Rs. 5,13, 000/-, 2003) Principal Investigator: Prof. Ramesh Chandra Co-Principal Investigator: Dr. S. K. Srivastava

25. Design and synthesis of mimic of the dihydropyridine calcium channel modulator and synthesis of peperidine derivatives such as Azasugars. (Funded by Indian Council of Medical Research, Amount Rs. 7,80, 000/-, 2003) Principal Investigator: Prof. Ramesh Chandra Co-Principal Investigator: Dr. Manisha Tiwari

26. Computer facility for induction of computer paper at PG level. (Funded by University Grant Commission, Amount Rs. 2,40, 000/-, 2002) Principal Investigator: Prof. Ramesh Chandra

27. Synthesis of Oxandrolone (Funded by HIKMA, Jordan, Amount: US$ 30,000/-, 2001) Principal Investigator: Prof. Ramesh Chandra Co- Principal Investigator: Dr. Vibha Tandon

28. Standardisation of Method of Optimisation of Morphine and other alkaloids of Opium by HPLC as Stipulated in British Pharmaeopic.(Funded by Central Revenue Control Laboratory (CRCL), Amount: 7,72,000/-, 1998-2001) Principal Investigator: Prof. Ramesh Chandra Co- PI: Dr. Pratibha M. Luthra

29. Human Resource Development for Biomedical Research: CSIR - University Interaction Model(Funded by CSIR, Amount: 13,35,000/-, 2000) Principal Investigator: Prof. Ramesh Chandra

30. Effect of the Active Principles of Withania Somnifera, Curculigo Orchides, Asparagus Racemosus on Anti Stress Activity in Animal Models (Funded by DRDO, Ministry of Defence, Amount: Rs. 8,08,400/-, 1999) Principal Investigator: Prof. Ramesh Chandra Co- Principal Investigator: Dr. Manisha Tiwari

31. Techniques in Recombinant DNA Technology: (Funded by Department of Biotechnology, Government of India, Amount Rs. 3, 80, 000, 1999) Principal Investigator: Prof. Ramesh Chandra

32. Development of Structural Activity Relationship of Noscapine – A Potential Antineoplastic Agent: In the Context of Socio-Economic Importance in South-East Asia Funded by United Nations Educational, Scientific and Cultural Organization (UNESCO), 1998 (Amount:US$ 15,000) PI: Prof. Ramesh Chandra

33. Development of New Synthetic Chemical Methods. Funded by Polaroid Corporation, USA, 1996, (Amount: US$ 3,50,000/- plus rquiment and supplies worth ~ US $ 5,50,000/-) Principal Investigator: Prof. Ramesh Chandra

34. RGD containing Peptides: Development of Anticancer Agents. (Sanctioned by UGC as part of Career Award (Rs. 2, 50, 000 per annumn), Ref: F. 10-46/95 (SA-III) dt. 26/12/9Principal Investigator: Prof. Ramesh Chandra

35. A4 Amyloid Related Proteins from Sperm: Structure, Function and Genetics. (Sanctioned by the Rockefeller Foundation, New York, U.S.A in collaboration with the Center for Biomedical Research, Population Council - The Rockefeller University, New York, December 1992).\

36. Synthesis of Organometallic Compounds. (Sanctioned by DRDO [Defence Research & Development Organ.], New Delhi for two years, March 1990-92, Amount 16,00,000/-). Principal Investigator: Prof. Ramesh Chandra

37. Biochemical Properties of Metalloporphyrins: Interaction with Apomyoglobin, Heme Binding Proteins and DNA.(Sanctioned by Council of Scientific and Industrial Research, New Delhi, Ref. letter no.1 (1140)/89- EMR-II, dated 21/4/1989, Amount Rs. 6, 50, 000/- approximately)

38. Role of Metals in Biological Systems *in vitro* and *in vivo* studies. (Sanctioned by University Grants Commission, New Delhi Ref. letter no.F. 7-30 (Sc)/88 (SA-I), dated April 25, 1988).

39. Synthesis and Characterisation of Transition Metal Complexes of Macrocyclic ligands having

Resemblance to Biological Systems: An approach to Develop and Evaluate Model Systems. (Sanctioned by University Grants Commission, New Delhi Ref. letter no. F.12-6/86 (SR-III), dated March 10, 1987).

(* These projects are yet to be implemented because of the administrative reasons)

Awards and Distinctions

- Millennium Plaques of Honour Award(Life Time Achivement Award for Contribution in Science & Technology) for 2017-2018,
  (Awarded by Indian Science Congress Association (ISCA) at 105th Indian Science Congress, held at Manipur March 16, 2018)
- Vidya Ratan of the Millennium Gold Medal by Indian Council of Management Executives, 2005
- INSA-Royal Netherlands Acadamy of Arts & Sciences, Fellowship, 2005
- Dr. B. R. Ambedkar National Award, 2004
- Chemical Research Society of India, CRSI Bronze Medal, 2004
- Life Time Achievement Award of the Indian Chemical Society, 2003
- Rashtriya Gaurav Award, October, 2003
- Prof. Ghanshyam Srivastava Commemoration Award of the Indian Chemical Society, 2003
- Rajib Goyal Award for Young Scientist, 2002
- INSA- Russian Acadamy of Sciences, (Moscow) Fellowship, 2002
- Prof. D. P Chakravorty Commemoration Award of Indian Chemical Society, 2001
- Award of Highest Honor of the Soka University, Tokyo, Japan, 2000
- IMNM-99 Award and Gold Medal: Integrated Medicine for New Millennium, 1999
- ISSX (Int. Soc. for Study of Xenobiotics) Scholarship, 1994
- The Rockefeller Foundation, USA - Biotechnology Career Award, 1993
- Career Award, University Grants Commission, New Delhi, 1993

- Indo -U.S. Award (J. William Fulbright Scholarship) 1993
- Dr. Ambedkar National Distinguished Service award, 1993,

  Dalit Sahitya Academy, New Delhi
- FEBS (Federation of European Biochemical Societies), 1990

  Scholarship in collaboration with Hungarian Academy of Sciences
- Research Scientists Award - University Grants Commission, New Delhi, 1987
- National Scholarship for Study abroad, Minister of Education, Govt. of India, 1980-81
- GDR Government Scholarship for higher Studies, Ministry of Education, 1980-81

  Govt. of India, New Delhi
- National Overseas Scholarship for Higher Studies, Ministry of Home Affairs, 1979-80,

  Govt. of India, New Delhi

Association With Professional Bodies

FELLOWSHIP OF SCIENTIFIC/ACADEMIC SOCIETIES:

Fellow- Royal Society of Chemistry, London, UK

Fellow - International Academy of Physical Sciences (2001)

Fellow- Institution of Chemists, India

Fellow- Indian Chemical Society, India

MEMBER OF THE SEARCH COMMITTEES FOR APPOINTMENT OF VICE CHANCELLORS:

Member-	Search/Selection Committee for the post of Vice-Chancellor Ch. Devi Lal University, Sirsa (Haryana)-2005
Member-	Search/Selection Committee for the post of Vice-Chancellor Maharishi Dayanand University, Rohtak (Haryana)-2004
Member-	Search/Selection Committee for the post of Vice-Chancellor Arunachal University,Itanagar (Arunachal Pradesh)-2003
Member-	Search/Selection Committee for the post of Vice-Chancellor Himachal University, Shimla (HP)-2001

MEMBER OF EDITORIAL BOARD OF INTERNATIONAL JOURNALS:

1. Int. J. Human Genetics, India

2. J. Heterocyclic Communications

3. Archive of Organic Chemistry, ARKIVOC, Switzerland

4. Int. J. Artificial Cells, Blood Substitutes and Biotechnology, Canada

5. Artificial Cells, Nanomedicine and Biotechnology, Canada

6. Indian Journal of Biochemistry and Biophysics (CSIR)

7. Guest Associate Editor, Cell Biochemistry and Biophysics, Vol. 43-1/2005 and Vol. 44-1/2006, Humana Press, New York.

MEMBERSHIP OF SCIENTIFIC/ACADEMIC SOCIETIES:

Member- American Society for Microbiology, USA

Member- The Scientific Society, SIGMA Xi, USA

Member- International Society for the Study of Xenobiotcs, USA

Member- International Society for Artificial Cells, Blood Substitutes and Immobilisation Biotechnology, Canada

Member- The New York Academy of Science, New York, USA

Member- Society of Chemical Industry, London

Member- The National Academy of Sciences, India

Member- American Association for the Advancement of Science.

Member- American Chemical Society, Washington, D.C, U.S.A.

Member- The American Phytopathological Society, U.S.A.

Member- Optical Society of America, U.S.A.

Member- Affiliate International Union of Pure & Applied Chemistry, U.K. (INSA nominated)

Member- The Society for General Microbiology, U.K.

Member- The Biochemical Society, London, U.K.

Member- Royal Society of Chemistry, London, U.K.

Member- Society of Biological Inorganic Chemistry, U.K.	Life
Member- Indian Science Congress Association, Calcutta	
Member- Indian Institute of Public Administration, New Delhi	
Member- Zaheer Science Foundation, New Delhi (Governing Council)	
Member- Indian Chemical Society, Calcutta	
Member- Institution of Chemists, India	
Member- Asian Federation of Clinical Pharmacologists	
Member- Indian Society of Analytical Scientists	
Member- Society of Biological Chemists, India	Member
Member- Delhi University Botanical Society	
Member- Chemical Research Society, India	
Member- Society of Clinical Biochemists	

PROFESSIONAL ACTIVITIES:

Consultant	Proviva Pharma Inc. 1100, De la Montagne, Unit-1505, Montreal, Quebec, H3G OA1, Canada	June 2016 onwards
Advisor	Indian Institute of Information Technology, Allahbad	2010-2013
President	Ambedkar Center For Biomedical Education & Research (A Non Profit Scientific-Research Foundation), India	2008 onwards
Secretary & Treasurer-	Zaheer Science Foundation, New Delhi, (A Forum of Scientists)	2008-2010
President-	Indian Chemical Society, Kolkata	2004-2006
Vice President-	Indian Chemical Society, Kolkata (For Life)	2006 –till date
Managing Trustee	Baba Saheb Dr. B.R Ambedkar Mission of India, New Delhi (An Educational Trust for the Development of Society)	2006 onwards
Chairman-	Advisory Committee, State Level Entrance Test (SLET), Haryana	2004
Chairman-	Combined Pre-Medical Test (CPMT) 2002 for UP & Uttaranchal	2002
ice-President- Vice President-	World Fellowship of Religions, New Delhi.	2003- 2008
Chairman -	Board of Research Studies Faculty of Science, University of Delhi, Delhi-110007.	1997-1999
Chairman -	Publication Advisory Committee University of Delhi, Delhi – 110 007, India	1997-1999

Convenor-	Inorganic Chemistry Section University of Delhi, Delhi-110007, India	1998-1999
Founder-President	Indian Chemical Society (Delhi Chapter), New Delhi	1996 - 2003
Secretary-	Zaheer Science Foundation, New Delhi	1996- 2011
Founder - Executive Secretary	Prof. R.C. Mehrotra Foundation, New Delhi	1996 onwards
Convenor-	Zaheer Science Foundation (Delhi Chapter) Organised a series of lectures by eminent scientists and of World.	1990-1996
Founder Director-	Dr. B.R. Ambedkar Center for Biomedical Research, University of Delhi, Delhi – 110 007, India –	1991 Till date
Founder President -	Delhi University Researchers Association (DURA),	1978-81
Founder President-	All India Research Scientists Association (AIRSA)	1991-96
Founder-Secretary	Bhagwan Buddha Coorperative G/H Society Ltd., New Delhi	1979-2000

Memberships of Executive Council/ Governing Boards/ Academic Bodies

Member	Academic Council, Amity University, Raipur (Chattisgarh)	2019- onward
Member	Academic Council, Indira Gandhi National Open University (IGNOU), New Delhi	2018-2020
Member	Governing Council (University Court), Amity University, Noida (U.P)	2018 onward
Member	Life Sciences Research Board (LSRB) Defence Research and Development Organization (DRDO), New Delhi	2018 onward
Member	University Court, University of Delhi, Delhi	1996 onwards
Member	Academic Council, University of Delhi, Delhi	2017 onwards
Member	Academic Council, Indira Gandhi National Open University (IGNOU), New Delhi	2016-2018
Member	Academic Council, Mahatma Gandhi Chitrakoot Gramodaya Vishwavidyalaya, Chitrakoot, M.P	2016-2019
Visitor's Nominee	Baba Saheb Bhim Rao Ambedkar Central University, Lucknow	2014-2017
Member	Finance Committee, Indian Institute of Information Technology (IIIT) Allahabad (U.P), India	2012-2014
Member	Sectional Committee on Electronic Measuring Systems and Accessories (LITD 08 Earlier LTD 21 AND LTD 26 AND LTD 32) , **Bureau of Indian Standards,** Government of India, New Delhi	2010-2016
Member	Governing Body, International Academy of Nanomedicine (IANM) Washington, DC, USA	2010 onwards

Member-	Finance Committee, National Institute of Pharmaceutical Education and Research (NIPER), SAS Nagar, Mohali, Punjab, 2008-2011
Member-	Board of Governors, National Institute of Pharmaceutical Education and Research (NIPER), SAS Nagar, Mohali, Punjab, 2007-2010
Member-	Governing Council, Steel Research and Development Mission (SRDM), Virtual Center/R & D Center, Hyderabad (Ministry of Steel, Govt. Of India) 2006 onwards
Founder member-	Steel Resource and Development Mission (SRDM) Society, Ministry of Steel, Govt. of India 2006-onwards
Member-	University Court, Maharshi Dayanand University, Rohtak (Haryana) 2005-2006
Member-	Executive Council, Maharshi Dayanand University, Rohtak (Haryana) 2005-2006
Member-	Executive Council, Kurukshetra University, Kurukshetra (Haryana) 2005-2006
Member-	Executive Committee, India Internaitonal Center, New Delhi 2005
Member-	Dr. Ambedkar Chair's Committee (Ambedkar Foundation), Ministry of Social Justice and Empowerment, Govt. of India. 2005-2006
Member-	UP State Council of Sports and Youth Affairs, Govt. of Uttar Pradesh 2005-2008
Member-	Standing Committee on SC/ST's University Grants Commission, New Delhi 2004-2007
Member-	Standing Committee on Minorities, UGC, New Delhi 2004-2007
Member-	Executive Committee of INSA-IUPAC (International Union of Pure & Applied Chemistry) 2004-2005
Member-	Advisory Committee, Academic Staff College, JN Vyas University, Jodhpur (Rajasthan) 2004-2005
Member-	Board of Directors, Institute of Management Studies, Rai University, Faridabad (Haryana) 2003-2004
Member-	Board of Management, Hindu Institute of Engineer & Technology, Sonepat (Haryana) 2003-2004
Member-	Board of Management, Hindu Institute of Management & Computer Science, Sonepat (Haryana) 2003-2004
Member-	Executive Council, Maharshi Dayanand University, Rohtak (Haryana) 2002-2004
Member-	Finance Committee, Maharshi Dayanand University, Rohtak (Haryana) 2004-2006
Chancellors -	Selection Committee of Lecturers/Readers/Professors Nominee Kurukshetra University (Kurukshetra) 2001-2004
Member-	Executive Committee, Indian Association of Social Science Institutions,

New Delhi 2002-2005

Member- Advisory Committee, Academic Staff College, Guru Nanak Dev University, Amritsar 2002-2006

Member- Academic Council (Chancellor's Nominee) Kurukshetra University, Kurukshetra 2002 - 2005

Member- UGC Curriculum Development Committee in Chemistry 2002-2003

Member- Advisory Committee 2001-2004
Vision 2001-2016 for Development of Youth,
Ministry of Sports and Youth Affairs
Govt. of India, New Delhi

Member- Executive Council, Guru Jambeshwar University, Hisar 2000 - 2004
Member-University Court (Chancellor's Nominee)
Guru Jambeshwar University, Hisar

Member- U. P. State Higher Education Council 2000-2005

Member- Board of Management (Visitors nominee) 2000-2003
Babasaheb Bhimrao Ambedkar Central University, Lucknow

Member- Board of Management 2000-2003
Maharani Laxmibai Institute of Physical Education, Gwalior (M.P.)

Member- Advisory Committee 2000-2003
Maharani Laxmibai Institute of Physical Education, Gwalior (M.P.)

Member- Governing Body 1999-2001
Maharani Laxmibai Medical College, Jhansi (U.P.)

Member- Governing Body 1999-2001
Bundelkhand Institute of Engineering and Technology, Jhansi (U.P.)

Member- Advisory Committee, Academic Staff College 1999-2000
University of Allahabad (U.P.)

Member- Research Advisory Committee 1999-2007
The Talwar Research Foundation, New Delhi

Member – Governing Body 1999-2000
Shyam Lal College, Delhi University, Delhi-110032

Member – Governing Body 1998–1999
Acharya Narendra Dev College,
Delhi University, New Delhi-110019

Member – Governing Body 1998–1999
Maharaja Agarsen College, Delhi University, Delhi–110091

Member- Governing Body/ Advisory Committee 1997-1999
Maulana Azad Medical College, New Delhi.

PARTICIPATION IN SCIENTIFIC MEETINGS:

1. Science and Technology in Society forum (STS forum), Kyoto, Japan, October 2018.
2. 105th Indian Science Congress Association, March 17, 2018 held at Manipur University, Manipur.
3. 60th Anniversary of Artificial Cells, in conjugation with XVI ISBN Int. Symposium Bllod Substitutes & Oxygen Therapeutics, VISNS Nanomedicine Conference, Mc Gill University, Montreal Canada, 13th – 15th November, 2017
4. Science and Technology in Society forum (STS forum), Kyoto, Japan, October 2017
5. Visit to the campus of Japan Advanced Institute of Science and Technology, Japan, September, 2017
6. Visit to Massachusetts Institute of Technology, Cambridge MA, USA, University of Massachusetts Boston, MA, USA and Rutgers University, The State University of New Jersey, USA, July 2017
7. Meeting with the General Director of the Administrative Department of Science, Technology and Innovation – Colciencias, Bogota, Colombia, March 2017
8. Visit to the Amity University Campus, Dubai, December 2016
9. Invited Lecture on Noscapinods: New Cancer Therapeutics in International Conference on Obesity & Chronic Diseases in Las Vegas, Newada, USA, July 2016
10. Gordon Research Conference on Natural Products and Bioactive Compounds, Proctor Academy in Andover, New Hamshire, USA. July-August, (**2016)**
11. Metabolism of Noscapine and its analogues. Gordon Research Conference on Drug Metabolism, Holderness School, Holderness, New Hamshire, USA. July, (**2015)**
12. Indian Science Congress Association, February 2014 held at Jammu University (Chaired the Session)
13. Sixth National Science Conclave of Nobel Laureates, December 8-14, 2013

14. Native and Induced Pluripotent Stem Cell Standardization
Vimal Kishor, G.U.Gurudatta, Ramesh Chandra and M.D.Tiwari
March 19–21, 2012, Florence, Italy

15. Fifth National Science Conclave of Nobel Laureates, December 8-14, 2012

16. Challenges of the Universities in the Knowledge Society Ramesh Chandra,
National Seminar on Challenges of the Universities in the Knowledge Society, Science City, Lucknow July 4th, 2011

17. Fourth National Science Conclave of Nobel Laureates, November 26- December 2, 2011

18. Noscapine loaded Nanoparticles: A Promising therapy for Cancer
Ramesh Chandra, Prashant Singh and Pradeep Kumar
16th International Biomedical Science and Technology Symposium, Istanbul, Turkey, September, 28-October, 2, 2010

19. Noscapine loaded Nanoparticles: A Promising therapy for Cancer
Ramesh Chandra, Prashant Singh and Pradeep Kumar
World Congress, International Academy of Science, Antalya, Turkey, 3-6 October, 2010

20. Green ICT Empowering Rural India organized at Rajiv Gandhi Institute of Information Technology, Amethi Tikermafi, Amethi (Allahabad) and Indian Institute of Information technology Allahabad (IIIT-A), India 20-21 August, 2010

21. Third National Science Conclave of Nobel Laureates, December 8-14, 2010

22. U.S. Higher Education: Top Choice for Indian Students-Find Out Why" November 18, 2009 at New Delhi

23. FICCI Higher education Summit 2009 "Imperitives for Higher Education: Inclusion, Expansion & Excellence November 6 & 7, 2009 at New Delhi

24. **SARC Seminar** on "*S & T Digital Library*" April 2-3, 2009 at Ashoka Hotel, New Delhi

25. Interantional Conference of Forum of Scienctist from South and South East Asia on "*Capacity Building in Science & Technology, Policy Perspective Opportunities and Challenges in the Context of Globalization*" Organized by Zaheer Foundation in Colloboration with INSA and Supported by UNESCO, Ministry of HRD & Ministry of Science and Technology, Govt. of India, ISSESCO, November 27-29, 2007

26. **SARC Seminar** on "*S & T Digital Library*" April 2-3, 2009 at Bangkok, Thialand

27. Second National Science Conclave of Nobel Laureates, December 8-14, 2009

28. First National Science Conclave of Nobel Laureates, December 15-21, 2008

29. The Annual Convention of Chemists (Annual Meet of Indian Chemical Society) held at Vishva Bharti Shanti Niketan, West Bengal, February, 2006 presisded.

30. Indo-US workshop on Green Chemistry, January, 2006 (Session Chaired) University of Delhi, Delhi

31. Indian Science Congress Association, January 2005 (chaired Session), Ahmedabad, Gujrat

32. International Conference on 'Chemistry Biology Interface: Synergestic New Frontiers', Vigyan Bhavan, November 21-26, 2004 chaired

33. The Annual Convention of Chemists (Annual Meet of Indian Chemical Society) held at Department of Chemistry, University of Delhi, , December, 2004 presisded.

34. 5th Florida Heterocyclic Conference and Course, March 2004 University of Florida,

Gainesville, Florida, USA

35. Symposium on 'Frontiers In Biomedical Research', April 14-16, 2004 Dr. B.R.Ambedkar Center for Biomedical Research, University of Delhi, Delhi - 110 007, India.

36. Inaugural address on 'Automation and Molecular Biology Techniques in Infectious Disease Diagnosis', August 2-22, 2003 All India Institute of Medical Sciences, New Delhi, India

37. 40th Annual Convention of Chemists, December 25-28, 2003 Bundelkhand University, Jhansi

38. Gordon Research Conference on Drug Metabolism, July 6-11, 2003 Holderness School, Plymouth, N.H., USA.

39. 4th Florida Heterocyclic Conference and Course, March 2003 *(Session Chair)* University of Florida, Gainesville, Florida, USA

40. Chaired Session on 'Current Concepts in Biochemistry and Molecular Biology' International Conference on Chest Disease and Allied Sciences, 12-14 january, 2003, V.P.Chest Institute, University of Delhi

41. Invited Lecture – Future of Bioinorganic Chemistry – from Lab to Clinic Rajasthan University, Jaipur, Jan 9, 2003

42. Invited Lecture on "Chemistry and Biology of Heme' Indian Science Congress 2nd -7th January, 2003, Bangalore

43. Invited Lecture on "Synthesis and Investigation of Mass Spectral Studies on Aryl Substituted N- Carbamoyl/Thiocarbamoyl Narcotine Pittcon 2002, March 17-22, New Orleans, LA, USA

44. Chaired session on Environmental Biochemistry, Toxicology and Micronutrients in Health and Disease 9th Asian Pacific Congress of Clinical Biochemistry (APCCB), 9-14th March, 2002, New Delhi

45. Seminar on "Environmental Pollution and Public Health", February, 2002 Deen Dayal Updhyaya College, University of Delhi, Delhi, India

46. Second National Conference on Laboratory Medicine (LABCON-2), February, 2002 All Indian Institute of Medical Sciences, New Delhi, India

47. International Symposium on Leishmaniasis, February, 2002 All Indian Institute of Medical Sciences, New Delhi, India

48. 2nd Florida Heterocyclic Conference and Course, March 2001 *(Session Chair)* University of Florida, Gainesville, Florida, USA

49. Gordon Research Conference on Drug Metabolism, July 9-14, 2000 Holderness School, Plymouth, N.H., USA.

50. 4th Meeting of International Academy of Physical Sciences, Dec. 17th, 1999, Allahabad, India

51. Fourth International Workshop on Chemical and Biological Agents: Detection and Decontamination, September 15-17, 1999, Indian Institute of TechnologyResearch Institute, Chicago, USA

52. Indo French Symposium on Multiple Drug Resistance and Emerging Diseases February 28-March 4, 1999, INSA, New Delhi, India

53. ISSX Meeting, October 25-29,1998, Cairns, Queensland, Australia.

54. Seminar on 'Current Status of Oral and Implantable Contraceptive Agents' October 31-

November 1, 1998, Dr. B.R.Ambedkar Center for Biomedical Research, University of Delhi, Delhi – 110 007, India.

55. ISAS Seminar on "Hyphenated Techniques For Chemical Analysis", April 25, 1998, Dr. B. R. Ambedkar Center for Biomedical Research University of Delhi, Delhi - 110 007, India.

56. Symposium on 'Frontiers In Biomedical Research', March 31-April 2, 1998 Dr. B.R.Ambedkar Center for Biomedical Research, University of Delhi, Delhi - 110 007, India.

57. American Chemical Society organized Short Course on "Effective Management of Chemical Analysis Laboratories", February 28- March 1, 1998, New Orleans, LA, USA.

58. Pittsburg Conferences in Analytical Chemistry, March 2-7, 1998, New Orleans, LA, USA

59. 34th Annual Convention of Chemists, December 17-20, 1997 Dr. B.R.Ambedkar Center for Biomedical Research, University of Delhi, Delhi - 110 007, India.

60. International Symposium on Fuels and Lubricants, December 8-10, 1997, New Delhi, India.

61. International Conference on Advances in Reproductive Medicine, November 15-18, 1997, Science City, Calcutta, India.

62. 84th Session of Indian Science Congress, January 3-8, 1997, University of Delhi, Delhi – 110 007 (Chaired the Session).

63. International Seminar on Interface between Chemistry & Biology, January 1st, 1997, University of Delhi, Delhi – 110 007, India.

64. International Conference on Clinical and Experimental Lung Research, Nov.20-22, 1996, New Delhi.

65. 7thNorth American ISSX (International Society for the Study of Xenobiotics) Meeting, October 20-24, 1996, San Diego, CA, USA.

66. National Science Day- DBT Sponsored, organised by the Department of Biotechnology, Guru Nanak Dev University, Amritsar, India (delivered Inaugural Address Feb. 28, 1996).

67. International Symposium on Perspective in Bio-organic Chemistry, December 8-9, 1994, New Delhi, India, (Delivered lecture).

68. 6th North American ISSX (International Society for the Study of Xenobiotics) Meeting. October 22-27, 1994, Raleigh, North Carolina, USA (Invited).

69. Asian Symposium on Super Critical Fluid Extraction Technology for Natural Products. September 27-29, 1994, Indian Institute of Technology, Delhi.

70. XVIth IUBMB (International Congress of Biochemistry and Molecular Biology, September 19-22, 1994, New Delhi, India.

71. Gordon Research Conference on Chemotherapy of Experimental and Clinical Cancer. July 24-29, 1994, Colby Sawyer (South), New Hampshire, USA (Invited with full funds).

72. Gordon Research Conference on Drug Metabolism, July 17-22, 1994, Holderness School, Plymouth, N.H., USA.

73. Gordon Research Conference on Hetrocyclic Compounds, July 10-15, 1994, New Hempton School, N.H., USA.

74. Symposium on Modern Trends in Inorganic Chemistry, August 11-13, 1993, Indian Institute of Science, Bangalore, India.

75. Gordon Research Conference on Drug Metabolism, July 11-16, 1993, Holderness School,

Plymouth, N.H., USA. (Invited with full funds)

76. Ninth National Symposium on Analytical techniques for Fossil, Fuel and Lubricants. December 22-24, 1994, New Delhi, India.

77. Gordon Research Conference on Molecular and Ionic Clusters, October 3-9, 1992, Swabian Center, Irsee, Germany. (Invited with travel funds & local hospitality)

78. Gordon Research Conference on Separation and Purifications, August 10-14, 1992, Colby Sawyer College, New London, NH, USA. (Invited with travel funds & local hospitality)

79. UPAC-NOST International Symposium on Enzymes in Organic Synthesis. January 6-9, 1992, New Delhi, India.

80. The Fifth International Kyoto Conference on New Aspects of Organic Chemistry. November 11-15, 1991, Kyoto, Japan. (Invited with travel funds and local hospitality)

81. Manipur Science Congress, September 1991, Imphal, Manipur. (Delivered session lecture).

82. Fifth International Conference on Bioinorganic Chemistry, August 4-10, 1991 University of Oxford, U.K.

83. 10th International Conference on Iron and Iron Proteins (IP10), July 27-31, 1991 Keble College, Oxford, U.K.

84. Gordon Research Conference on Drug Metabolism, July 15-19, 1991 Holderness School, Plymouth, N.H, USA. (Invited with travel funds and local hospitality)

85. Gordon Research Conference on Molecular Pharmacology, June 16-20, 1991, Tilton School, Tilton, N.H, USA.

86. National Seminar on Dr. Ambedkar, Science and Society, March 8-9, 1991, N.P.L, New Delhi. (Organising Secretary of the National Seminar).

87. International Symposium on Current Trends in Chemical Research, January 7- 8, 1991, Delhi. (Organising Secretary of this International symposium).

88. 20th FEBS Meeting (Federation of Europeon Biochemical Societies), August 19-25, 1990, held at Budapest, Hungary, To deliver invited lecture on Metal-Enzyme Interactions.

89. XXVIII International Conference on Coordination Chemistry, August 13-18, 1990, Organised by GDR Academy of Sciences at GERA, GDR.

90. Gordon Research Conference on Drug Metabolism, July 16-22, 1990 Holderness school, Plymouth, N.H, USA (Invited with travel funds and local hospitality).

91. Manipur Science Congress. held at Imphal, March 20-22, 1990 Delivered Plenary Session Lecture Organised by Department of Science & Technology, Government of Manipur.

92. Symposium on Physiology & Photomedicine, February 14-18, 1990, Organised by INMAS, New Delhi.

93. 17th IUPAC Int. Symposium on the Chemistry of Natural Products, February 4-9, 1990, Organised by National Organic Symposium Trust, New Delhi.

94. Jawahar Lal Nehru Centenary International Seminar on: “Science & Technology for National Development : International and Regional Cooperation”, November 14-16, 1989, Organised by Indian National Science Academy, New Delhi.

95. 32nd IUPAC Congress (International Union of Pure & Applied Chemistry), August 2-7, 1989. Organised by The Royal Society of Chemistry, Stockholm, Sweden.

96. Int. Symposium on Agriculture and Biological Aspects of Aflatoxin related Health Hazards, March 22-25, 1989, Organised by V.P.Chest Institute, New Delhi, India.

PROFESSIONAL VISITS ABROAD:

June 2019	• National University of Lesotho, Lesotho, South Africa
	• Faculty of Science and Technology
	• Faculty of Health Science
	• Faculty of Agriculture
	• Ministry of Health, Kingdom of Lesotho
	• Lerotholi Polytechnic, Lesotho
	• Medigrow Laboratory, Lesotho
	• National Health Training College, Lesotho
	• Lesotho Pharmaceutical Company (LPC)
	• NDSO in Mafeteng, Lesotho
	• Limkokwing University of Creative Technology
	• Medigrow Facilities in Marakabei, Lesotho
	• Mohale Dam, Lesotho
May 2019	• Department of Physiology, School of Medicine, Wayne State University,42. W. Warren Ave.Detroit, MI 48202
	• Permanent Mission of Kingdom of Lesotho, United Nations, New York
April 2019	• Department of Physiology, School of Medicine, Wayne State University,42. W. Warren Ave.Detroit, MI 48202
February 2019	• Department of Biotechnology, Chemistry and PharmacyUniversity of Siena, Siena, Italy

October 2018	•	Japan Advanced Institute of Science and Technology, Ishikawa, Japan
October, 2018	•	Science and Technology in Society forum (STS forum), Kyoto, Japan
June 2018	•	Drexel University, 3141 Chestnut St, Philadelphia, PA 19104, USA Princeton University, New Jersey, USA
November 2017	•	National University of Singapore, Singapore
November, 2017	•	Artificial Cells and Organs Research Center, Department of Biomedical Engineering and Physiology Faculty of Medicine, McGill University, Montreal, Quebec, Canada
November, 2017	•	Princeton University, New Jersey, USA
October, 2017	•	Science and Technology in Society forum (STS forum), Kyoto, Japan
September, 2017	•	Japan Advanced Institute of Science and Technology, Ishikawa, Japan
July, 2017	•	Massachusetts Institute of Technology, Cambridge MA, USA
	•	University of Massachusetts Boston, MA, USA
	•	Rutgers University, The State University of New Jersey, USA
March, 2017	•	General Director of the Administrative Department of Science, Technology and Innovation – Colciencias, Bogota, Colombia
	•	Andes University, Bogota, Colombia (visit to R & D Institution and Centre)
	•	Guadua Manufacturing Company, Pereira, Colombia
	•	Guadua Manufacturing Company, Chinchina, Colombia
	•	Technological University of Pereira, Colombia
	•	Governorate of Valle del Cauca (Cali), Colombia
	•	Bio Pacific Park (Interntaional Center for Tropical Agriculture), Valle del Cauca, Palmira, Colombia
December, 2016	•	Amity University Campus, Dubai
July-August, 2016	•	Harvard Medical School 401 Park Drive, Boston, MA 02215, USA
	•	Drexel University, 3141 Chestnut St, Philadelphia, PA 19104, USA
	•	Boston University School of Medicine, Boston, MA 02118, USA
July-August, 2015	•	Wayne State University School of Medicine, Detroit, MI, USA
May 2015	•	Artificial Cells and Organs Research Center, Department of Biomedical Engineering and Physiology Faculty of Medicine, McGill University, Montreal, Quebec, Canada Drexel University, 3141 Chestnut St, Philadelphia, PA 19104, USA Boston University School of Medicine, Boston, MA 02138, USA

June 2014	•	Artificial Cells and Organs Research Center, Department of Biomedical Engineering and Physiology Faculty of Medicine, McGill University, Montreal, Quebec, Canada
	•	Drexel University, 3141 Chestnut St, Philadelphia, PA 19104, USA
May-June 2014	•	Harvard University, Cambridge, MA 02138, USA
February 2014	•	VU University Medical Center, Amsterdam, The Netherland.
	•	Boston University Medical Center, 72 E Concord St, Boston, USA
October 2013	•	Artificial Cells and Organs Research Center, Department of Biomedical Engineering and Physiology Faculty of Medicine, McGill University, Montreal, Quebec, Canada
June 2013	•	Artificial Cells and Organs Research Center, Department of Biomedical Engineering and Physiology Faculty of Medicine, McGill University, Montreal, Quebec, Canada
June 2012	•	Artificial Cells and Organs Research Center, Department of Biomedical Engineering and Physiology Faculty of Medicine, McGill University, Montreal, Quebec, Canada
	•	New York Presbyterian Hospital Weill Medical College of Cornell University, New York, USA
July 2011	•	Artificial Cells and Organs Research Center, Department of Biomedical Engineering and Physiology Faculty of Medicine, McGill University, Montreal, Quebec, Canada
June 2011	•	Artificial Cells and Organs Research Center, Department of Biomedical Engineering and Physiology Faculty of Medicine, McGill University, Montreal, Quebec, Canada
	•	New York Presbyterian Hospital Weill Medical College of Cornell University, New York, USA
December, 2010	•	University of Rome, Italy
October 2010	, •	International Biomedical Science and Technology, Istanbul University, Turkey
	•	Marmara University, Istanbul, Turkey
	•	Istanbul University, Istanbul, Turkey.
October, 2010	•	International Academy of Biomedical Science, Antalya, Turkey
June-July 2010	•	Artificial Cells and Organs Research Center, Department of Biomedical Engineering and Physiology Faculty of Medicine, McGill University, Montreal, Quebec, Canada
June-July 2009	•	Artificial Cells and Organs Research Center, Department of Biomedical Engineering and Physiology Faculty of Medicine, McGill University, Montreal, Quebec, Canada
June-July 2008	•	New York Presbyterian Hospital Weill Medical College of Cornell University,New York, USA
January 2008	•	Artificial Cells and Organs Research Center, Department of Biomedical Engineering and Physiology Faculty of Medicine, McGill University, Montreal, Quebec, Canada

October 2007	•	ASEAN Countries Meet on 'Digital Libraries' Bangkok, Thailand
Jan- Feb 2007	•	Artificial Cells and Organs Research Center, Department of Biomedical Engineering and Physiology Faculty of Medicine, McGill University, Montreal, Quebec, Canada
Jan- Feb 2006	•	Artificial Cells and Organs Research Center, Department of Biomedical Engineering and Physiology Faculty of Medicine, McGill University, Montreal, Quebec, Canada
	•	New York Presbyterian Hospital Weill Medical College of Cornell University, New York, USA
	•	Deparetment of Cell Biology Emory University, Atlanta, GA, USA
	•	Department of Biochemistry, Hospital for Sick Children University of Toronto, Toronto
January 2005	•	Artificial Cells and Organs Research Center, Department of Biomedical Engineering and Physiology Faculty of Medicine, McGill University, Montreal, Quebec, Canada
	•	New York Presbyterian Hospital Weill Medical College of Cornell University, New York, USA
	•	Deparetment of Cell Biology Emory University, Atlanta, GA, USA
Sept-Oct 2004	•	Sandoz-Novartis Pharmaceuticals Research Lab, Basel (Switzerland)
	•	XeChem Inc., New Jersey, USA
	•	New York Presbyterian Hospital Weill Medical College of Cornell University, New York, USA
June-July, 2004	•	XeChem Inc., New Jersey, USA
July 2004	•	New York Presbyterian Hospital Weill Medical College of Cornell University,New York, USA
March 2004	•	Institute of Pharmacology, Erasmus MC University, Medical Center, Rotterdam, Netherlands
March 2004	•	Shands Cancer Center, Health Science Center University of Florida, Gainesville, USA
March 2004	•	Artificial Cells and Organs Research Center, Department of Biomedical Engineering and Physiology Faculty of Medicine, McGill University, Montreal, Quebec, Canada
July 2003	•	New York Presbyterian Hospital Weill Medical College of Cornell University, New York, USA
March 2003	•	University of Florida, Gainesville, USA Denver University, Denver, Colorado, USA
March-April 2002	•	Shemyakin & Ovchinnikov Institute of Bioorganic Chemistry, Moscow, Russia
March 2002	•	New York Preshyterian Hospital Cornell University-Weill Medical College, New York

March 2002	•	Xavier University, NewOrleans, USA
March 2001	•	University of Florida, Gainesville, USA
October 2000	•	Soka University, Tokyo, Japan
July 2000	•	University of Florida, Gainesville, USA
January 2000	•	Denver University, Denver, Colorado, USA
September- 1999	•	Illinois Institute of Technology 10 West 35th Street, Chicago, Illinois 60616, USA
	•	Deparetment of Cell Biology Emory University, Atlanta, GA, USA
April-1999	•	Polaroid Corporation, 750, Main Street, Cambridge, MA-02139, USA
	•	The New York Hospital, Division Of Endocrinology Cornell University Medical Center, New York, N.Y. 10021
Nov-Dec 1998	•	The New York Hospital, Division of Endocrinology Cornell University Medical Center, New York, N.Y. 10021
October 1998	•	Cairns Convention Center, Cairns, Queensland, Australia
September 1998	•	The New York Hospital, Cornell University Medical Center, New York, N.Y. 10021
	•	Pace University, Pleasentville, New York
	•	Polaroid Corporation, 750, Main Street, Cambridge, MA-02139, USA
Feb-March 1998	•	The New York Hospital Cornell University Medical Center, New York, N.Y. 10021
	•	Polaroid Corporation, 750, Main Street, Cambridge, MA-02139, USA
	•	ACS Delegation to Pittcon, New Orleans, USA
November 1997	•	Ortech Corporation, Toronto, Canada
	•	Polaroid Corporation, 750, Main Street, Cambridge, MA-02139, USA
	•	Imation 3M Research Center 202-3N 04 St. Paul, Minneapolis 55144, USA.
	•	Toyota Technological Institute 717-86, Futamata, Ichikawa, Chiba 272, JAPAN
	•	Department of Cell Biology, Emory University School of Medicine Atlanta, GA-30322-3030, USA
October 1997	•	Thrombosis Research Institute, London (UK) Institute of Pharmacology, cardiopulmonary and Molecular Biology Erasmus University, Rotterdam, Netherlands

October 1997	•	CNRS Institute of biochemistry and Enzymology Institut Gustave-Roussy Pavillon de Recherche II 39 Rue Camille Dermoulins-94805, Vellejuif, Cedex, FRANCE
October 1997	•	The New York Hospital -Cornell University Medical Center, New York, N.Y. 10021
	•	Polaroid Corporation, 750, Main Street, Cambridge, MA-02139, USA
Oct-Nov 1996	•	Mc Gill University, Montreal, Quebec, Canada Artificial cells & Organs research Center
	•	The University of Northern Iowa, Cedar Falls Iowa 50614-0123
	•	Biochem Therapeutic inc., Laval, Quebec, Canada University of Denver, Denver, USA
July-August, 1996	•	Research Labs, The Polaroid Corporation Cambridge, MA 02139, USA
Sept.-Oct, 1995	•	The New York Hospital -Cornell University Medical Center, New York, N.Y. 10021
November1994	•	The New York Hospital -Cornell University Medical Center, New York
Jan-Feb, 1994	•	The New York Hospital -Cornell University Medical Center, New York
July 1993	•	Center for Biomedical Research, Population Council, The Rockefeller University, 1230, York Avenue, New York 10021
July-Oct, 1992	•	Center for Biomedical Research, Population Council, The Rockefeller University, New York 10021
October, 1992	•	Swabian Center, Irsee, Germany
November 1991	•	Institute of Protein Research, Osaka International University, Osaka, Japan
August 1991	•	University of Oxford, Oxford, U.K.
June-July, 1991	•	Center for Biomedical Research, Population Council, The Rockefeller University, New York 10021
August–Sept, 1990	•	Center for Biomedical Research, Population Council, The Rockefeller University, New York 10021
August, 1990	•	Institute of Enzymology, Hungarian Academy of Sciences, Budapest,Hungary
	•	Academy of Science Nasadkach7, 37005 CESKE BUDEJOVICE, Czechoslovakia
August, 1989	•	Center for Biomedical Research, The Population Council, The Rockefeller University, New York 10021
July-Aug, 1989	•	Royal Swedish Academy of sciences, Stocholm, Sweden
June-July, 1988	•	Center for Biomedical Research, Population Council,

		The Rockefeller University, New York 10021
March, 1988	•	Center for Biomedical Research, Population Council, The Rockefeller University, New York 10021
March-April, 1987	•	Center for Biomedical Research, Population Council, The Rockefeller University, New York 10021
June, 1986	•	Department of Pharmacology, School of Medicine, Health Science Center, State University of New York, Stonybrook, USA
April, 1983	•	The New York Hospital-Cornell University Medical College, New York, & The Rockefeller University, New York, NY 10021