




Faculty Details proforma for DU Web-site

Title	Professor	First Name	Shrikant	Last Name	Kukreti	Photograph
Designation	Professor					
Address	Department of Chemistry North Campus, University Of Delhi, Delhi 110007					
Phone No Office	+91-11-27666726					
Residence	D-13 (29-31) Probyn Road (Chatra Marg), University of Delhi Delhi-110007					
(Residence)	+91-11-27666729					
Mobile						
Fax	+91-11-27666 726					
Email	skukreti@chemistry.du.ac.in, kukretishrikant@yahoo.com shrikant.kukreti6@gmail.com					
Web-Page	http://people.du.ac.in/~skukreti/					
Educational Qualifications						
Degree	Institution				Year	
Ph.D.	University of Roorkee (IITR)				1989	
M.Sc.	Garhwal University (HNBGU)				1984	
B.Sc.	Garhwal University (HNBGU)				1981	
Career Profile						
Organisation / Institution		Designation		Duration		Role
University of Delhi		Professor		Oct.'09 - Present		Teaching and Research
University of Delhi		Associate Professor		Oct.'04 – Sep.'09		Teaching and Research
Princeton University, Princeton, USA		Visiting Fellow		June '04-Oct.'04		Research
University of Delhi		Reader		Sep.'01 – Sep.'04		Teaching and Research
Institute Gustave Roussy Villejuif, Paris, France		Visiting Fellow		Oct.'98 – Jan.'99		Research
University of Delhi		Lecturer		Feb.'98-Aug.'01		Teaching and Research
MNHN, Paris and Institute Gustave Roussy (CNRS), Villejuif, Paris, France		Post Doctoral Fellow		Sep.'94-Oct.'97		Research
Administrative Assignments						
Programme Coordinator, DU Pre-Entrance Summer School 2017, ILLL, DU						

<p>Programme Coordinator, DU Pre-NET Winter School 2016, ILL, DU Programme Coordinator, DU Pre-Entrance Summer School 2016, ILL, DU Programme Coordinator, Workshop on Theory & Practical, UG Course on Biochemistry & Environmental Chemistry, Department of Chemistry, DU, July 2012. Coordinator, UGA-ASC CPDHE Refresher Course in Chemistry, December 2011. Resident Tutor, Jubilee Hall, Univ. of Delhi, Delhi (From July 2006 – May 2008.) Resident Tutor, V. K. R. V. Rao Hostel, Univ. of Delhi, Delhi, (From Oct. 2001-Sept.2004)</p>
<p>Areas of Interest / Specialization</p>
<p>Biophysical and Biochemical aspects of Nucleic Acids, Multistranded-DNA/RNA structures (Triplexes, Quadruplexes etc.), Bimolecular interactions: DNA-Protein, DNA-Drug interactions (using UV-Spectroscopy, UV-thermal denaturation, Circular Dichroism, Fluorescence, High resolution NMR, Gel-filtration chromatography & Gel-electrophoresis (EMSA))</p>
<p>Subjects Taught</p>
<p>M.Sc. (Chemistry) Teaching, Post graduate level Chemistry, <u>Core courses-</u> (i) Chemistry of Life processes, (ii) Stereochemistry (iii). Reaction Mechanism, <u>Special papers:</u> (i) Nucleic Acids and Carbohydrates, (ii) Proteins and lipids M.Tech. (Chemical synthesis and Process Chemistry)- Chemistry of Life processes (Unit 204) M.Tech. (Nano Sciences and Nanotechnology)-Biochemistry and Biophysics (Course IX NSNT – 204) Pre-Ph.D. course work: Biopolymers, Proteins & Peptides</p>
<p>Research Guidance</p>
<p><i>List against each head (If applicable)</i> A. <i>Supervision of awarded Doctoral Thesis-</i> Sixteen B. <i>Supervision of Doctoral Thesis, under progress-</i> Six C. <i>Supervision of awarded M.Phil. dissertations-</i> Six</p>
<p>Publications Profile</p>
<ol style="list-style-type: none"> Structural switch from a multistranded G-quadruplex to single strands as a consequence of point mutation in the promoter of the human GRIN1 gene. S. Chaudhary, M.Kaushik, R.Kukreti, S.Kukreti Molecular Biosystems (2017) in press [DOI: 10.1039/c7mb00360a] Magnesium and molecular crowding of the cosolutes stabilize the i-motif structure at physiological pH S. Saxena, S. Joshi, J. Shankaraswamy, S. Tyagi, S. Kukreti Biopolymers (2017) DOI: 10.1002/bip.2301,;107:e23018 Effect of Oxidative Stress on ABC Transporters: Contribution to Epilepsy Pharmacoresistance.

G.K . Grewal, S. Kukal, N. Kanojia, L . Saso, **S. Kukreti**, R. Kukreti.
Molecules. (2017) [DOI: 10.3390/molecules22030365]

4. Genetic contribution of CYP1A1 variant on treatment outcome in epilepsy patients: a functional and interethnic perspective.
P. Talwar, N. Kanoji, S. Mahendru, R. Baghel, S. Grover, G. Arora, G. K. Grewal, S. Parween, A. Srivastava, M. Singh, S. Vig, S. Kushwaha, S. Sharma, K. Bala, **S. Kukreti** and R. Kukreti.
The Pharmacogenomics Journal, (2017) 17, 242-251.
5. Peptide Biomarkers: Exploring the Diagnostic Aspect
S. Mahendru, K. Roy, **S. Kukreti**
Current Protein & Peptide Science (2017) 18, 914-919.
6. New Cancer Therapeutics: Noscapine and Analogs.
V. Tomar, R. Chandra, S. Prakash, J. Madan, and **S. Kukreti**
Current topics in medicinal chemistry (2017) 17, **174-188**.
7. Structure-Specific Ligand Recognition of Multistranded DNA Structures.
M. Kaushik, A. Singh, M. Kumar, S. Chaudhary, S. Ahmed, and **S. Kukreti**
Current topics in medicinal chemistry (2016), 17, 138-1474.
8. Protein engineering and de novo designing of a biocatalyst.
M. Kaushik, P. Sinha, P. Jaiswal, S. Mahendru, K. Roy, and **S. Kukreti**
Journal of Molecular Recognition (2016) 10, 499-503.
9. Exploring the characterization tools of Guanine-Quadruplexes.
M. Kaushik, S. Kaushik, and **S. Kukreti**
Frontiers in bioscience (Landmark edition) (2016), 21, 468-478.
10. A bouquet of DNA structures: Emerging diversity.
M. Kaushik, S. Kaushik, K. Roy, A. Singh, S. Mahendru, M. Kumar, S. Chaudhary, S. Ahmed, and **S. Kukreti**
Biochemistry and Biophysics Reports (2016), 5, 388-395.
11. Binding of ethyl pyruvate to bovine serum albumin: Calorimetric, spectroscopic and molecular docking studies
M. Pathak, R. Mishra, P. K. Agarwala, H. Ojha, B. Singh, A. Singh, **S. Kukreti**,
Thermochimica Acta (2016), 633, 140-148.
12. General techniques for biomolecular characterization.
S. Kaushik and **S. Kukreti**
Imperial Journal of Interdisciplinary Research (2016), 2(6), 998-1002.
13. Synthesis, preclinical evaluation and molecular modelling of macrocyclic appended 1-(2-methoxyphenyl) piperazine for 5-HT 1A neuroreceptor imaging.

P. P. Hazari, S. Prakash, V.K. Meena, N. Singh, K. Chuttani, N. Chadha, P. Singh, **S. Kukreti**, and A. K. Mishra
RSC Advances (2016), 6(9), 7288-7301.

14. Design, Synthesis, and Biological Evaluation of 1, 2-Dihydroisoquinolines as HIV-1 Integrase Inhibitors.

V. Tandon, Urvashi, P. Yadav, S. Sur, S. Abbat, V. Tiwari, R. Hewer, M. Papathanasopoulos, R. Raja, A.C. Banerjea, A. Verma, **S. Kukreti**, and P.V. Bharatam.
ACS medicinal chemistry letters (2015), 6(10), 1065-1070.

15. Differential structural status of the RNA counterpart of an undecamer quasi-palindromic DNA sequence present in LCR of human β -globin gene cluster.

M. Kaushik and **S. Kukreti**

Journal of Biomolecular Structure and Dynamics (2015), 33(2), 244-252.

16. Comparative In Vitro Binding Studies of $TiCl_2(dpme)_2$, $Ti(ada)_2(bzac)_2$, and $TiCl_2(bzac)(bpme)$ Titanium Complexes with Calf-Thymus DNA.

P. Awasthi, N. Kumar, R. Kaushal, M. Kumar, and **S. Kukreti**

Biochemistry Research International (2015), 1-7.

17. Advancement in the structural polymorphism of G-quadruplexes.

M. Kaushik, S. Kaushik, and **S. Kukreti**

International Review of Biophysical Chemistry (2014), 5(2), 37-46.

18. Protection against ionizing radiation induced oxidative damage to structural and functional proteins by semiquinone glucoside derivative isolated from radioresistant bacterium bacillus sp. inm-1

S. Mishra, A.K. Gupta, P. Malhotra, O. K. Singh, R. Pathak, A. Singh, **S. Kukreti**, H. K. Gautam, S. Javed and Raj Kumra*

Current Biotechnology (2014), 3, 117-126 (Ahead to Print).

19. In-silico engineering of intrinsically conducting copolymers using particle swarm optimization algorithm

P. Thakral, V. Arora, **S. Kukreti**, A. K. Bakhshi

Indian Journal. Chemistry-A (2013).52A, 317-326

20. A short GC-rich palindrome of human mannose receptor gene (MRC2) coding region, displays a conformational switch.

A. Bansal, M. Prasad, K. Roy, **S. Kukreti**

Biopolymers (2012) 97,950-62

21. Structural Diversity and Specific Recognition of four stranded G-quadruplex DNA.

M. Kaushik, S. Kaushik, A. Bansal, S. Saxena, **S. Kukreti**

Current Molecular Medicine, (2011) 11, 744-69.

22. Presence of Divalent Cation is not Mandatory for the Formation of intramolecular purine-

motif triplex containing human c-jun protooncogene target.

S. Kaushik, M. Kaushik, Svinarchuk F, Malvy C, Fermandjian S, S. Kukreti
Biochemistry, (2011) 50, 4132-4142.

23. Structural Transition from Dimeric to tetrameric i-motif, caused by the presence of TAA at the 3'-end of human telomeric C-rich sequence.

M. Kaushik, S. Kaushik, A. Singh, S. Kukreti
Biopolymers, (2010), 93, 156-160.

24. Structural polymorphism at LCR and its role in beta-globin gene regulation.

S. Kukreti, H. Kaur, M. Kaushik, A. Bansal, S. Saxena, S. Kaushik, R. Kukreti
Biochimie, (2010), 92(9), 1199-1206.

25. Structural polymorphism exhibited by a homopurine.homopyrimidine sequence found at the right end of human c-jun protooncogene.

S. Saxena, A. Bansal, S. Kukreti
Arch. Biochemistry Biophysics. (2008), 47, 95-108.

26. Possibility of an Antiparallel (Tetramer) Quadruplex Exhibited by the Double Repeat of the Human Telomere.

M. Kaushik, A. Bansal, S. Saxena, S. Kukreti
Biochemistry, (2007), 46: 7119 – 7131.

27. Structural polymorphism exhibited by a quasipalindrome present in the locus control region (LCR) of the human - β globin gene cluster.

M. Kaushik and S. Kukreti
Nucleic Acids Research, (2006), 34 (12), 3511–3522.

28. Reaction of artemisinin with haemoglobin: implications for antimalarial activity.

R. Kannan, K. Kumar, D. Sahal, S. Kukreti, V. S. Chauhan.
Biochem. J. (2005), 385 (2), 409-18.

29. Hairpin-Duplex equilibrium reflected in A \rightarrow B transition in an undecamer quasi-palindrome present in locus control region (LCR) of Human β -globin gene cluster.

M. Kaushik, R. Kukreti, D. Grover, S. K. Brahmachari, S. Kukreti
Nucleic Acids Research (2003), 31 (23), 6904-6915.

30. Temperature induced hyperchromism exhibited by Hoechst 33258: Evidence of drug aggregation from UV-Melting method.

M. Kaushik, and S. Kukreti.
Spectrochimica Acta, Part A (2003), 59, 3123-3129.

PUBLISHED PROCEEDINGS:

1. Duplex to Cruciform transition in a Quasipalindrome present in Human Neuronal Growth Regulator 1 (*NEGR1*) gene, associated with Cancer

M. Kaushik, A. Singh and S. Kukreti; J. of Proteins and Proteomics; 6(1), 2015, (JPP99).

2. Preferential Recognition of DNA G-Quadruplex Topologies

A. Singh, M. Kaushik and S. Kukreti; J. of Proteins and Proteomics; 6(1), 2015, (JPP 35).

3. Spectroscopic investigation of interaction between CT-DNA and New Methylene Blue

M. Kumar, M. Kaushik and S. Kukreti

J. of Proteins and Proteomics, 6(1), 2015, (JPP 104).

4. G-Quadruplex polymorphism: An attempt to explore the association between G-tracts and intervening T's.

A. Singh, M. Kaushik, S. Joshi and S. Kukreti,

Journal of Proteins And Proteomics, /0975-8151, 2012 (JPP 27-28).

Conference Organization/ Presentations (in the last three years)

Poster Presentations

1. In Search of G-Quadruplex Ligand

Anju Singh, Arkaja Goswami, Savita Joshi, Shrikant Kukreti

Conference Proceeding in National Conference NCC2016 "Environment & Harmonious Development" at Shyam Lal College, University of Delhi, India, 7th-8th April, 2016.

2. "Interaction of an electrochemical redox indicator New Methylene Blue with DNA using biophysical techniques"

Mohan Kumar, Mahima Kaushik, Shrikant Kukreti

International Conference on Materials Science & Technology (ICMTech -2016) at Department of Chemistry, University of Delhi, India, 1st - 4th March, 2016

3. "To explore the structural difference between the $\epsilon 3$ and $\epsilon 4$ allele SNP of the human apolipoprotein (APOE) gene"

Swati Chaudhary, Saami Ahmed, Shrikant Kukreti

22nd ISCBC International Conference, Recent Trends in Affordable and Sustainable drug discovery and developments at Uka Tarsadia University, Surat, India, 6th – 8th Feb, 2016

4. "Structural polymorphism exhibited by a quasipalindrome present in Human SCAI gene"

Saami Ahmed, Swati Chaudhary, Shrikant Kukreti

22nd ISCBC International Conference, Recent Trends in Affordable and Sustainable drug discovery and developments at Uka Tarsadia University, Surat, India, 6th – 8th Feb, 2016

5. "Identification and Characterization of DNA Quadruplex element in the human GRIN1 promoter region"

Swati Chaudhary, Saami Ahmed, Shrikant Kukreti

21st ISCBC International Conference, Current trends in drug discovery and developments at CDRI, Lucknow, India, 25th – 28th Feb, 2015

6. "Plausible G-quadruplex elements in the human GRIN1 promoter region"

Swati Chaudhary, Saami Ahmed, Shrikant Kukreti

National symposium on Biophysics and Golden Jubilee Meeting of the Indian Biophysical Society at Jamia Millia Islamia, New Delhi, India, 14th – 17th Feb, 2015

7. "Structural status of a quasipalindromic segment present in the Human SCAI gene"

- Saami Ahmed, Swati Chaudhary, Shrikant Kukreti
National symposium on Biophysics and Golden Jubilee Meeting of the Indian Biophysical Society at Jamia Millia Islamia, New Delhi, India, 14th – 17th Feb, 2015
8. “Spectroscopic investigation of interaction between ctDNA and New Methylene Blue”
Mohan Kumar, Mahima Kaushik, Shrikant Kukreti
National symposium on Biophysics and Golden Jubilee Meeting of the Indian Biophysical Society at Jamia Millia Islamia, New Delhi, India, 14th – 17th Feb, 2015
9. “A Novel Three Stranded G-Quadruplex Formation In Promoter Region of Human Myosin (MYH7) Gene”
Anju Singh and Shrikant Kukreti
20th ISCBC International Conference on Chemistry and Medicinal Plants in Translational Medicine for Healthcare at Department of Chemistry, University of Delhi, India, March 1st - 4th, 2014.
10. “Diverse Topology of G-Quadruplexes”
Anju Singh, Mahima Kaushik, Savita Joshi and Shrikant Kukreti
Emerging Trends in Development of Drugs and Devices at Department of Chemistry, University of Delhi, 21st-23rd Jan, 2013.
11. “Triplex Formation at C-Allele of a Common Promoter Variant -765 G > C (rs20417) of COX-2 Gene: A Plausible Modulator of COX-2 Gene Expression”
Swati Mahendru, Kapil Roy, Mohan Kumar and Shrikant Kukreti
Emerging Trends in Development of Drugs and Devices (ETDDD 2013) at Department of Chemistry, University of Delhi, Delhi, India, 21st -23rd Jan, 2013
12. “Triplex Formation at C-Allele of a Common Promoter Variant -765 G > C (rs20417) of COX-2 Gene: A Possible Cause for Significantly Reduced Promoter Activity”
Swati Mahendru, Kapil Roy, Mohan Kumar and Shrikant Kukreti
National Symposium on Frontiers of Biophysics, Biotechnology & Bioinformatics (IBS 2013) at Department of Biophysics and Centre Biotechnology & Bioinformatics, University of Mumbai, Mumbai, India, 13th -16th Jan, 2013.
13. “G-Quadruplex : Incredible Topology”
Anju Singh, Mahima Kaushik, Savita Joshi and Shrikant Kukreti
National Symposium on Frontiers of Biophysics, Biotechnology & Bioinformatics (IBS 2013) at Department of Biophysics and Centre Biotechnology & Bioinformatics, University of Mumbai, Mumbai, India, 13th -16th Jan, 2013.
14. “G-Quadruplex Polymorphism: An Attempt to Explore the Association between G-tracts and Intervening T’s”
Anju Singh, Mahima Kaushik, Savita Joshi, Shrikant Kukreti
International Interdisciplinary Science Conference (I-ISC, 2012) on Protein Folding and Diseases, Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, Jamia Nagar, New Delhi, India, 8th – 10th Dec, 2012
15. “Significant Reduction in COX-2 Promoter activity can be attributed to stable triplex formation at C-Allele of a Common Promoter Variant-765G>C(rs id:20417)”
Swati Mahendru, Kapil Roy, Mohan Kumar and Shrikant Kukreti
International Interdisciplinary Science Conference (I-ISC, 2012) on Protein Folding and Diseases, Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, Jamia Nagar, New Delhi, India, 8th – 10th Dec, 2012
16. Genomic G/C Rich DNA Sequences Exhibit Structural Polymorphism

Bharti Arora, Kapil Roy, Aparna Bansal, Swati Mahendru, Lipi Munjal, Shrikant Kukreti
Workshop & Symposium on Recent Trends in Biophysics, Department of Physics, Banaras
Hindu University, Varanasi, India, 13th -16th Feb, 2010

17. “Structural Polymorphism Exhibited By Genomic G/C Rich DNA Sequences”

Bharti Arora, Kapil Roy, Aparna Bansal, Swati Mahendru, Lipi Munjal, Shrikant Kukreti
International Symposium on Trends in Drug Discovery and Development, Department of
Chemistry, University of Delhi, Delhi, India, 5th -8th Jan, 2010

Oral Presentations

1. Nucleic Acids : Isolation, Purification & Characterization
Faculty Development Program, Daulat Ram College, University of Delhi, Delhi, India 15th –
22nd June 2017
2. Unveiling the Environmental aspect of Biomolecules
National Conference on Sustainable Chemical & Material Sciences organized by
Department of Chemistry, S. S. Jain Subodh P.G. College, Jaipur, India 5th – 6th August
2016.
3. Chemistry Of Biomolecules: Unveiling the Environmental Aspects
National Conference in Chemistry, Environment & Harmonius Development organized by
Shyam Lal College, University of Delhi, Delhi, 7th – 8th April 2016
4. A Novel Parallel Triple Stranded G-Quadruplex Formation In Promoter Region of Human
Myosin β (MYH7) Gene
Anju Singh, Mahima Kaushik and Shrikant Kukreti,
International Congress on Friedreich’s ataxia & DNA Structure in Health and Disease
Organized by DNA Society of India & Department of Biochemistry, All India Institute of
Medical Sciences, Delhi, India, 11th – 13th April, 2015.
5. Preferential Recognition of DNA G-Quadruplex Topologies,
Anju Singh, Mahima Kaushik, and Shrikant Kukreti
National Symposium on Biophysics and Golden Jubilee Meeting of The Indian
Biophysical Society, Organized by the Centre for Interdisciplinary Research in Basic
Sciences, Jamia Millia Islamia, New Delhi, India, February 14th-17th, 2015. Journal of
Proteins & Proteomics, Volume : No.6 (2015) Issue No. :1 Pages : JPP 34 (Special Issue)
2015 , ISSN No. 0975-8151.
6. DNA structural Polymorphism: A biologically relevant phenomenon”, (Invited Lecture)
20th ISCBC International Conference on Chemistry and Medicinal Plants in Translational
Medicine for Healthcare, Department of Chemistry, University of Delhi, India, March 1st –
4th, 2014.
7. Differential Structural of a RNA counterpart of an undecamer quasi-palindromic DNA
sequence present in LCR of human β -globin gene cluster; “Emerging Trends in
Development of Drugs and Devices”; Department of Chemistry, University of Delhi,
Delhi; January 21-23, 2013.
8. Diverse Topology of G-quadruplexes; “Emerging Trends in Development of Drugs and
Devices”; Department of Chemistry, University of Delhi, Delhi; January 21-23, 2013.
9. Triplex Formation at C-allele of a common promoter variant -765 G>C (rs20417) of COX-
2 Gene: A Plausible Modulator of COX-2 Gene Expression; “Emerging Trends in
Development of Drugs and Devices”; Department of Chemistry, University of Delhi,

Delhi; January 21-23, 2013.

10. 9th National Magnetic Resonance Society meeting (NMRS 2013) IIT Bombay, 3-6 Feb 2013.
1. Structural polymorphism of Nucleic Acids “National Conference on Condensed Matter Physics, (NCCMP-2012)” 24-25 Feb. 2012. BITS Pilani (Rajasthan)
8. Presence of divalent cation is not mandatory for the formation of intramolecular purine-motif triplex containing human *c-jun* protooncogene target. 7th Asian Biophysics Association (ABA) Symposium & Annual Meeting of the Indian Biophysical Society (IBS). 30th Jan - 2nd Feb, 2011 at India Habitat Center, New Delhi
9. Structural polymorphism exhibited by (AT)_xN₁₂(AT)_y motif in HS2 of β-globin locus control region. 7th Asian Biophysics Association (ABA) Symposium & Annual Meeting of the Indian Biophysical Society (IBS). 30th Jan - 2nd Feb, 2011 at India Habitat Center, New Delhi

Research Projects (Major Grants/Research Collaboration)

Research and Development Grant from University of Delhi (2010-2016)

Principal Investigator, DU/DST Purse Grant, “DNA-Protein Interactions: Exploring the Sequence and Structure Specificity”, (2009-2011)

Principal Investigator, DST project, “Physicochemical and biochemical investigation of Highly Stable Pyrimidine and Purine Motif DNA triple helical structure”, (2004-2007)

Principal Investigator, DBT project, Biophysical and Biochemical Investigations of the Polymorphic DNA Sequences Present in the Regulatory Regions of the β-Globin Gene Cluster”, (2004-2007)

Principal Investigator, UGC project, Multi-stranded DNA Recognition: Use of Synthetic ligands (2002-2005)

Awards and Distinctions

Visiting Fellowship, Institute Gustave Roussy, Villejuif, France. [Oct, 1998 to Jan. 1999]

Postdoctoral fellowship awarded by **Foundation Pour La Recherche Medicale**, and CNRS, Paris. [Jan 96 - Oct.97].

Marie Curie fellowship awarded by **Commission of European Community (CEC)**. **DST**, Govt. of India [Sept.94 - Oct95].

Teaching & Research Associateship at **Center for Biotechnology**, Jawahar Lal Nehru University, New Delhi. [Aug.91 - Jul.94].

Research Associateship (DST Project) at **Center for Biotechnology**, Jawahar Lal Nehru University, New Delhi [Jan.90-Jul.91].

Senior Research Fellowship from DST, Govt. of India [1989] **Ph. D. Period**.

Junior Research Fellowship DST, Govt. of India. [1985-1988] **Ph.D. period**

Association With Professional Bodies

1. Committees and Boards:

- (a) Member, Governing body, Keshav Mahavidyalaya (KMV) DU (2016-).
- (b) Member, Panel of Experts, Indo-Us Joint Proposals Review Meet (2012-15) IUSSTF Delhi
- (c) Member, Governing body, Hansraj College, DU. (2013-15)
- (d) Member, Governing body, Shyamlal College, DU. (2013-15)
- (e) UGC-SAP member, Chemistry Dept., Aligarh Muslim University, Aligarh, Uttar Pradesh.
- (f) Board of Studies, LMS Govt. College, Rishikesh, Utrakhand
- (g) Member, Committee of Courses for PG including honors courses Delhi University(h)
Member, DST delegation to Ljubljana, Slovenia for participation in Indo-Slovenian JWG meeting, DST, Govt. of India (Nov'10)
- (i) Member, DST delegation to Athens, Greece, for participation in Indo-Greece JCST meeting (Nov'10)
- (j) Member of delegation to Stockholm, Sweden for participation in JSTC meeting to Department of Science and Technology (Sep'10)
- (k) Member, Panel Members for joint projects (2010) Indo-Australian Strategic Research Fund
- (l) Member Expert Committee, DST, Govt. of India, for evaluation of Indo-South Africa joint projects (2010).
- (m) Member, Composite Expert Committee at DST, Govt. of India, for International Cooperation Programmes (2010) “Indo-Austria/ Norway/ South Africa/ Israel/ Japan” research proposals.

2. Memberships

- Life Member, Indian Biophysical Society (IBS)
- Life Member, National Magnetic Resonance Society (NMRS)
- Life Member, Indian Science Congress (ICS)
- Life Member, DNA society of India (DSI)