# Profile of Prof. Faizan Ahmad

| S.No. | Name | Prof. Faizan Ahmad |  |
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| 1 | Designation | INSA Honorary Scientist | |
| 2 | Qualifications | M.Sc., M.Phil., Ph.D. | |
| 3 | State of Domicile | New Delhi | |
| 4 | Department & School | Department of Biochemistry, School of Chemical and Life Sciences Jamia Hamdard Jamia Nagar, New Delhi, India-110062 | |
| 5 | Specialization | Molecular Biophysics, Mechanism of Protein Folding, Protein Folding Intermediates, Protein Stability Determination, Mechanism of Protein Stabilization by Osmolytes, Urea Stress, and Alcohol Stress. | |
| 6 | Home Tel | 011-2692-0954 | |
| 7 | Cell | +91-9810413115 | |
| 8 | E-mail | faizanahmad@jamiahamdard.ac.in; Faizan.ahmad.jmi@gmail.com; | |
| | URL | https://jmi.ac.in/Centre-For-Interdisciplinary-Research-In-Basic-Sciences/Faculty-Members/1631/Faizan_Ahmad | |
| 9 | Date of Birth | July 10, 1949 | |
| | **PUBLICATIONS** | | |
| 10 | Publications in peer reviewed National & International journals, Citations, H-index | 328<br>Citations: 12400; h-index: 55; i10 : 297<br>Link : Professor Faizan Ahmad - Google Scholar | |
| | **BOOKS & BOOK CHAPTERS PUBLISHED** | | |
| | Number of Book Chapters in Edited books of International Publishers | 04 | |
| | **RESEARCH GRANTS AND CONSULTANCY PROJECTS** | | |

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| | Number of research grants from govt. funding agencies as PI | 16 Research Projects as PI<br>04 Research Projects as Co-PI |
| | **RESEARCH SUPERVISION** | |
| | **As Supervisor** | |
| | Number of Ph.D. Guided | 53 |
| | **PRESENTATIONS IN CONFERENCES AS SPEAKER/ RESOURCE PERSON** | |
| | Number of presentations in National or International Conferences in India | 53 |
| | Number of presentations in International Conferences abroad | 20 |
| | **NATIONAL AWARDS, HONOURS AND FELLOWSHIPS RECEIVED** | |
| | 2021 **Selected among top 2% scientists of the world**<br>2020 **Fourth top scientist in India in the field of Biophysics**<br>2008: till date ***Fellow of Indian National Science Academy***<br>1997 ***Pride of Delhi***, honored by the Government of Delhi.<br>1997 ***Norman H. Dill Memorial Gold Medal***<br>1996: till date ***Member of Guha Research Conference***<br>1996: till date ***Fellow of National Academy of Sciences*** | |
| | **INTERNATIONAL AWARDS, HONOURS AND FELLOWSHIPS RECEIVED** | |
| | 1) 2013 - 2022 Adjunct Professor, IBB, University of Tehran, Iran<br>2) 1996 DAAD Fellow, Centre for Molecular Medicine, Buch, Berlin, Germany<br>3) 1978-1979 National level award by National Research Council, Washington | |
| | **MEMBER(S) OF NATIONALCOMMITTEES** | |
| | 1) American Society of Biochemistry & Molecular Biology (1983-1989: 2005-to-date)<br>2) Canadian Biochemical Society (1981-1987)<br>3) Society of Biological Chemists (India)(1995-todate)<br>4) Indian Biophysical Society(1996-todate)<br>5) ITCP, Trieste (1996-todate)<br>6) Guha Research Conference(1996-todate)<br>7) Society of Biosciences(1996-todate) | |

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| | 8) Advisory Member of the Editorial Board, Journal of Iranian Chemical Society<br>9) On the Editorial Board of the Journal of Iranian Chemical Society |

# Curriculum Vitae


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| Name | : Prof. **Faizan Ahmad** |
| Designation | : INSA Honorary Scientist |
| Office Address | : Department of Biochemistry, School of Chemical and Life Sciences, Jamia Hamdard Jamia Nagar, New Delhi, India-110062 |
| Home Tel | : 011-2692-0954 |
| Cell | : +919810413115 |
| E-mail | : faizanahmad@jamiahamdard.ac.in; Faizan.ahmad.jmi@gmail.com; |
| Date of Birth | : July 10, 1949 |


**Education**:

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| 1975 | Ph.D.(Chemistry), Aligarh Muslim University. |
| 1972 | M. Phil (Physical Chemistry), Aligarh Muslim University |
| 1970 | M.Sc. (Chemistry), Aligarh Muslim University. |
| 1968 | B.Sc. (Chemistry), Aligarh Muslim University. |

**Work Experience:**

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| 2023- Till date | **INSA Honorary Scientist**, Department of Biochemistry, SCLS, Jamia Hamdard, New Delhi |
| 2021- 2023 | **INSA Senior Scientist**, Dept. Biochemistry, SCLS, JH, New Delhi |
| 2017- 2021 | **INSA Senior Scientist**, CIRBSc, Jamia Millia Islamia (JMI), New Delhi |
| 2006- 2017 | **Professor**, CIRBSc, JMI, New Delhi. |
| 2006-2012 | **Professor & Director**, CIRBSc, JMI, New Delhi. |
| 2000-2006 | **Dean of Students' Welfare**, JMI, New Delhi. |
| 1998-2006 | **Professor**, Department of Biosciences, JMI, New Delhi. |
| 1994-1998 | **Professor & Head**, Department of Biosciences, JMI, New Delhi. |
| 1993-1994 | Professor, Department of Chemistry, JMI, New Delhi. |
| 1990-1993 | **Professor & Head**, Department of Chemistry, JMI, New Delhi. |
| 1987-1990 | **Reader**, Department of Biosciences, JMI, New Delhi. |
| 1981-1987 | **Research Associate** for Dr. C.C. Bigelow, Chemistry Department, University of Manitoba, Winnipeg, Manitoba, Canada. |
| 1979-1980 | **Research Associate** for Dr. R. S. Roche, Chemistry Department, University of Calgary, Calgary, Alberta, Canada. |
| 1979 (Jan-Aug) | **NRC Research Associate**, Naval Medical Research Institute, Department of Navy, Bethesda, Maryland 20014, U.S.A. |
| 1976-1978 | **Visiting Fellow** with Dr. P. McPhie, National Institutes of Health, Bethesda, Maryland, U.S.A. |
| 1975-1976 | **Postdoctoral Fellow** for Dr. C.C. Bigelow, Biochemistry Department, M.U.N., St. John's, Newfoundland, Canada. |
| 1974-1975 | **Research Assistant** for Dr. V.S. Anathanarayanan, Molecular Biophysics Unit, Indian Institute of Science, Bangalore 560012, India |

**Research Interest**

**Specialization**:
Molecular Biophysics, Protein Folding: Protein Stability determination/Mechanism of Protein stabilization by osmolytes/Urea and Alcohol stresses/Protein folding intermediates
*We have contributed to the problems relating to the "**protein folding and stability**", namely:*

**1**. Development of methods of the structural characterization of the random coil state native state, of the folding equation, native state ↔ denatured state (Biochemistry (USA), 1974; Intl. J. Pept. Protein Res., 1975, 1980; Intl. J. Biochem., 1978; etc.);

**2**. conformational and thermodynamic characterization of partial denatured states (BBA, 1977, 1994, 1996; J. Mol. Biol., 1979; J. Biol. Chem. 1983a, 1983b, 1984, 1985; Biochemistry (USA), 2003, 2006; PlosOne, 2015; etc.);

**3.** Development of methods of estimation of ${}_{D}\Delta G^{0}_{D}$, the protein stability under physiological conditions (J. Biol. Chem., 1982; Biopolymers, 1986, 1990; Biochem. J., 1992, 2000; J. Biochem., 1994; Biochemistry (USA), 1996, 1999, 2003, 2006; Anal. Biochem., 2000; PINSA, 2002; BBA, 2003; JICS, 2004; Biophys. Chem., 2008; J. Chem. Therm., 2013; Front. Mol. Biosc., etc.).

**4.** Estimation of $\Delta G^{0}_{D}$ (Biochemistry (USA), 1976, 1978, 1996, 1999, 2003, 2006, BBA, 2008; J. Biol. Inorg. Chem., 2009, 2010; JBDS, 2013, 2015; ABB, 2014; etc.)

**5**. Characterization of the phenomenon of stabilization of proteins by osmolytes against environmental stresses (Biochem. J., 1994, 1998; BBA, 2000, 2007, 2017; J. Biol. Chem., 2005; FEBS Lett., 2005, Biophys. Chem., 2005, 2006; FEBS J., 2009; JBSD, 2009; JICS, 2011; PINSA, 2013; PLOS ONE, 2013, 20015; Biochemistry, 2015; Int JBiol Macromol, 2017, etc.)

**6.** Characterization of folding intermediates (pre-molten and molten globules) of proteins (BBA, 2003, 2007; Biochemistry (USA), 2003, 2006; BBA, 2007; Boiphys. Chem., 2007; J. Biol. Inorg. Chem, 2009, 2010; Metallomics, 2011; I. J. Biol. Macromol., 2015, 2016, 2017; PLOS ONE, 2015; JBSD, 2015; etc.).

**Grants/Projects (16)**

**Principal Investigator**

1. In Silico (Molecular Dynamics Simulation) and In Vitro Approaches to Understand Counteraction of Urea's Effects on Proteins by Kidney Osmolytes [April 2016 - till date] **Principal Investigator** (ICMR submission id 2014-3313)
2. Mechanism of Survival of Ethanol Producing Organisms: Role of Cellular Compatible Osmolytes in Counteracting the Deleterious Effects of Ethanol on Structure, Stability and Functions of Proteins [December, 2013- 2016] **Principal Investigator** (CSIR Ref. No. 3809/NS-EMR-II).
3. Protein Structural Biology (Protein Folding) [September 2013 till Five Years]. **Principal Coordinator:** FIST (Ref. No. PDB/PC-402/2013/FISR#: 185826)
4. The Critical Role of Five N-terminal Residues in the Folding and Stability of Yeast

Iso-1 Cytochrome-C [ April 1, 2011 – Nov 30, 14] **Principal Investigator -** DST ( Ref. No. SR/SO/BB-7/2010)

5. Investigating the Involvement of Other Osmolytically Active solutes (Non-Methylamines) of urea Rich Cells in Counteracting the Urea's Effect on Protein Stability and Function [Dec 1, 2009 – Nov 2012] **Principal Investigator -** CSIR (Ref. No. 37(1377)/09/EMR-II)
6. PROTEIN FOLDING: Would the Heat/Acid Denatured State Serve As Reference State for Protein Folding [May 1, 2009- Apr 30, 2012] **Principal Investigator** - UGC (Ref No. F. No. 36-112/2008(SR)
7. In Vivo and In Vitro Paradox of the Compensatory Effect of Methylamines: Urea (1:2) on Stability and Function of Proteins [ April 1, 2006 – 2010], **Principal Investigator** - DST (Ref. No. SR/SO/BB-80/2004)
8. PROTEIN FOLDING: Conformational and Thermodynamic Studies of the Effect of Amino Acid Substitution on Equilibrium, Native State ↔ Molten Globule State ↔ Denatured State of Cytochrome C [ Oct 1, 2005 – Sept 2009] **Principal Investigator** - CSIR ( Ref. No. 37(1232)/05/EMR-II)
9. Stabilization of Industrial and Therapeutical Enzymes by Osmolytes [March 1, 2005 – 2008] **Principal Investigators-II -** Iran National Science Foundation
10. Mechanism of Stabilization of Proteins by Naturally Occurring Polyol Osmolytes Accumulated in Response to Environmental Stresses [April 1, 2001 – Sept 30, 2005] **Principal Investigator** - CSIR (ref no. 37(1078)/01/EMR-II)
11. Protein Folding: Determination of Stability of Molten Globules. [From April 1, 1998-March 31, 2002] **Principal Investigator** - CSIR (Ref no. 37(976)/98 EMR-II
12. Protein Folding: Estimation of Protein Stability from Conformational Transition Curves [October 1997-November 30, 2001], **Principal Investigator** - DST (Ref. no. SP/SO/D26/96)
13. Mechanism of Stabilization of Proteins by amino acids and other Additives Accumulated in Response to Heat Stress [1-11-94 – 31-10-98] **Principal Investigator** - U.G.C. (Ref. no. 12-4/94(SR-I))
14. Roll of Building Block Molecules Induced by Heat in the Stabilization of Proteins Under Hyperthermia. [1-4-94 – 31-3-97] **Principal Investigator** - CSIR (Ref. no. 37\0841\94\EMR-II)
15. Fast reaction Kinetics of ATP Hydrolysis by Myosin ATPase. [17-11-79 - 17-5-92] **Principal Investigator** - DST (Ref. no. SP\SO\D51\87)
16. Mechanism of Protein Denaturation: Effect of Physical and Chemical Denaturants on Cytochrome-c and Myoglobin. [1-4-89 - 30-6-92] **Principal Investigator** - CSIR (Ref. No. 9\295)

**Co- Principal Investigator**

17. Relation between Stability and Functional Activity of Proteins in the Presence of Different Sizes of Sugar Osmolytes. [2013-2017] – CSIR
18. *In Silico* (Molecular Dynamic Simulation) and *In Vitro* Approaches to Understand Counteraction of Urea's Effects on Proteins by Kidney Osmolytes. [2016-2019] -ICMR BIC/12(16)/2014).
19. Compilation of Useful Information for Indian Diseases through an Online Database Management: a Useful Resource for Researcher and Public Awareness. [01-11-2011 to 30-10-2014] – UGC

20. Structure and Functional Analysis of Putative Conserved Proteins from Common Indian Pathogens. [1-02-2012 to 31-01-2015] –ICMR
21. Folding and stability of naturally truncated photosynthetic pigment, C-phycoerythrin from cyanobacteria Phormidium tenue. [01-09-2012 to 30-10-2015]- DST

**Award and Honors**

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|---|---|
| 2023 | **World's Best Chemistry Scientist (Top 1% as on 21 Nov 2023)** [https://research.com/scientists-rankings/chemistry/in] |
| 2021 | **Selected among top 2% scientists of the world** |
| 2020 | **Fourth top scientist in India in the field of Biophysics** |
| 2013 - 2025 | ***Adjunct Professor***, IBB, University of Tehran, Iran |
| 2008: till date | ***Fellow of Indian National Science Academy*** |
| 1997 | ***Pride of Delhi***, honored by the Government of Delhi. |
| 1997 | ***Norman H. Dill Memorial Gold Medal*** |
| 1996 | ***DAAD Fellow***, Center for Molecular Medicine, Buch, Berlin, Germany |
| 1996: till date | ***Member of Guha Research Conference*** |
| 1996: till date | ***Fellow of National Academy of Sciences*** |
| 1978-1979 | National level award by ***National Research Council, Washington*** |

**Member of Societies**

1. American Society of Biochemistry & Molecular Biology (1983-1989: 2005- to-date)
2. Canadian Biochemical Society(1981-1987)
3. Society of Biological Chemists (India)(1995-todate)
4. Indian Biophysical Society(1996-todate)
5. ITCP, Trieste (1996-todate)
6. Guha Research Conference(1996-todate)
7. Society of Biosciences(1996-todate)
8. Advisory Member of the Editorial Board, Journal of Iranian Chemical Society
9. On the Editorial Board of the Journal of Iranian Chemical Society

**PhD Degree Awarded: 53**

*Main Supervisor

| S. No. | Name | Year | S. No. | Name | Year |
|---|---|---|---|---|---|
| 1. | Luqmqn A Khan | 1991 | 35 | Sobia Zaidi | 2015 |
| 2. | Zulfiqar Ahmad* | 1992 | 36 | Charu Thaplial | 2015 |
| 3. | Sushma Yadav* | 1992 | 37 | Sheeza Khan* | 2015 |
| 4. | Sperna Taneja* | 1992 | 38 | Md. Anzarul Haque* | 2016 |
| 5. | Amita Sinha* | 1995 | 39 | Farha Naz | 2016 |
| 6. | Syed Ehtaishamul Haque* | 1997 | 40 | Parvez Khan | 2016 |
| 7. | Reena Gupta* | 1998 | 41 | Huma Naz | 2016 |
| 8. | Tapas Saha* | 1998 | 42 | Danish Idreess | 2016 |

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|---|---|---|---|---|---|
| 9. | Viks Rishi* | 1999 | 43 | Syed Ausaf Ali* | 2017 |
| 10. | Sunita Yadav* | 2000 | 44 | Mohd. Aasif Dar* | 2017 |
| 11. | Farah Anjum* | 2000 | 45 | Shabab H. Khan * | 2017 |
| 12. | Hanief M.Shahjee* | 2001 | 46 | Ilyas Beg | 2017 |
| 13. | Mohammad Zaffrullah* | 2002 | 47 | Wahiduzzaman* | 2017 |
| 14. | Beenu Moza* | 2002 | 48 | Moin Ishrat | 2017 |
| 15. | Shabir H. Qureshi* | 2003 | 49 | Abdullah Naiyer* | 2018 |
| 16. | Akalank Jain* | 2005 | 50 | Sumra Shahid | 2018 |
| 17. | Ritu Singh* | 2005 | 51 | Khalida Nasreen | 2019 |
| 18. | Inamul Haque* | 2005 | 52 | Shagufta Khan | 2019 |
| 19. | L.R. Singh* | 2006 | 53 | Mohd. Amir | 2020 |
| 20. | Madhvi Gupta* | 2007 | | | |
| 21. | Humaira Farooqi | 2008 | | | |
| 22. | Gul M. Mustafa | 2008 | | | |
| 23. | Tanveer A. Dar* | 2009 | | | |
| 24. | Md. H. Rahaman* | 2009 | | | |
| 25. | Nitesh Poddar* | 2009 | | | |
| 26. | Md. K.A.Khan* | 2010 | | | |
| 27. | Asimul Islam* | 2010 | | | |
| 28. | Rinky Minakshy* | 2010 | | | |
| 29. | Shazia Jamal* | 2011 | | | |
| 30. | Mohd. Wahid* | 2011 | | | |
| 31. | Md. T. Rehman* | 2012 | | | |
| 32. | Syed I. Hassan* | 2012 | | | |
| 33. | Shafikur Rahman* | 2012 | | | |
| 34. | Shah Ubaidullah* | 2014 | | | |

**Invited talk delivered abroad**

2023 IBB, University of Tehran, Tehran, Iran
2022 IBB, University of Tehran, Tehran, Iran
2021 IBB, University of Tehran, Tehran, Iran
2021 ISOBC & IASBS, Iran
2020 Institute of Biochemistry & Biophysics, Univ. Tehran, Iran
2016 Institute of Biochemistry & Biophysics, Univ. Tehran, Iran
2015 Biophysical Society of China, Hangzhou, China
2012 International Conference of Biophysical Chemistry, Ardabil, Iran.
2010 Gordon research Conferenc, N.C., USA.
2009 IBB, University of Tehran, Iran
2007 IBB, University of Tehran, Iran.
2006 Society of the Biophysical Chemistry (Iran), University of Tabriz, Tabriz, Iran
2006 Workshop on Protein Characterization, Institute of Biochemistry & Biophysics, University of Tehran, Iran
2005 University of Terbiat Mudarris, Iran
2005 University of Tehran, Iran
2004 University of Mashhad, Iran

2004 University of Tehran, Iran
2002 "The 2002 Colorado Protein Stability Conference" in Colorado, USA.
2000 "NIDKD, National Institutes of Health, Bethesda, MD, USA.
1999 "University of Texas Medical Centre, Galveston, TX, USA.
1999 "Dept. Biophysics and Biochemistry, A&M Univ. College Station, USA.

BIBLIOGRAPHY-2023

***Total no. of publications:*** **335**

| S.No. | **Publications** |
|---|---|
| 1. | **Ahmad, F**. and Salahuddin, A. (1974), Influence of Temperature on the Intrinsic Viscosities of Proteins in Random Coil Conformation. ***Biochemistry 13***, 245-249. |
| 2. | **Ahmad, F**. and Salahuddin, A. (1975), Intrinsic Viscosity of Ovomucoid in Random Coil Conformation. ***Intl. J. Pept. Protein Res. 7***, 417-421. |
| 3. | **Ahmad, F**. and Salahuddin, A. (1976), Reversible Unfolding of the Major Fraction of Ovalbumin by Guanidine Hydrochloride. ***Biochemistry 15***, 5168-5175. |
| 4. | Ananthanarayanan, V. S. and **Ahmad, F**. (1977), Evidence from Rotatory Measu rements for an Intermediate State in the Guanidine Hydrochloride Denaturation of ß-Lactoglobulin. ***Can. J. Biochem. 55***, 239-243. |
| 5. | Ananthanarayanan, V.S., **Ahmad, F**., and Bigelow, C. C. (1977), The Denaturation of ß-Lactoglobulin-A at pH 2. ***Biochim. Biophys. Acta 492,*** 194-203. |
| 6. | **Ahmad, F**. and McPhie, P. (1978), Thermodynamics of the Denaturation of Pepsinogen by Urea. ***Biochemistry 17***, 241-246. |
| 7. | **Ahmad, F**. and McPhie, P. (1978), Intrinsic Viscosities of Randomly Coiled Glycoproteins. ***Intl. J. Biochem. 9***, 647-651. |
| 8. | **Ahmad, F**. and McPhie, P. (1978), The Denaturation of Covalently Inhibited Swine Pepsin. ***Intl. J. Pept. Protein Res. 12***, 155-163. |
| 9. | **Ahmad, F**. and McPhie, P. (1978), Spectrophotometric Titration of Phenolic Groups of Pepsin. ***Biochim. Biophys. Acta 537***, 247-254. |
| 10. | **Ahmad, F**. and Bigelow, C. C., (1978), Inorganic Salt Denaturants Stabilize Ribonuclease Against Denaturation by Urea. ***Can. J. Biochem. 56***, 1003-1005. |
| 11. | **Ahmad, F**. and Salahuddin, A. (1979), The pH Dependence of Reversible Unfolding of Ovalbumin by Guanidine Hydrochloride. ***Biochim. Biophys. Acta 576***, 333-338. |
| 12. | **Ahmad, F**. and Bigelow, C. C. (1979), The Denaturation of Ribonuclease-A by Combinations of Urea and Salt Denaturants. ***J. Mol. Biol. 131***, 607-617. |
| 13. | **Ahmad, F**. and McPhie, P. (1979), Characterization of a Stable Intermediate in the Unfolding of DAG-Pepsin by Urea. ***Can. J. Biochem. 57***, 1090-1092. |
| 14. | **Ahmad, F**. and McPhie, P. (1980), The Intrinsic Viscosity of Glycoproteins. ***Intl. J. Biochem. 11***, 91-96. |
| 15. | **Ahmad, F**. (1981), Stability of Acetylcholinesterase in Guanidine Hydrochloride Solution. ***Can. J. Biochem. 59***, 551-555. |
| 16. | **Ahmad, F**. and Bigelow, C. C. (1982), Estimation of Free Energy of Stabilization of Ribonuclease-A, Lysozyme, α-Lactalbumin and Myoglobin. ***J. Biol. Chem. 257***, 12935-12938. |
| 17. | **Ahmad, F**., Contaxis, C. C., and Bigelow, C. C. (1983), Free Energy Changes in Lysozyme denaturation. ***J. Biol. Chem. 258***, 7960-7963. |

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|---|---|
| 18. | **Ahmad, F**. (1983), Free Energy Changes in Ribonuclease-A denaturation: Effect of urea, guanidine hydrochloride and lithium salts. ***J. Biol. Chem. 258***, 11143-11146. |
| 19. | **Ahmad, F**. (1984), Free Energy Changes on Denaturation of Ribonuclease-A by Mixed Denaturants: Effects of combination of guanidine hydrochloride and one of the denaturants, LiBr, LiCl and NaBr. ***J. Biol. Chem. 259***, 4183-4186. |
| 20. | **Ahmad, F**. (1985), Complexities in the Denaturation of Horse Metmyoglobin by Guanidine Hydrochloride. ***J. Biol. Chem. 260***, 10458-10461. |
| 21. | **Ahmad, F**. (1985), Thermodynamic Characterization of the Partially Denatured States of Ribonuclease-A in Calcium Chloride and Lithium Chloride. C***an. Biochem. Cell Biol. 63***, 1058-1060. |
| 22. | **Ahmad, F**. and Bigelow, C. C. (1986), Estimation of the Stability of Globular Proteins. ***Biopolymers 25***, 1623-1633. |
| 23. | **Ahmad, F**. and Bigelow, C. C. (1986), Thermodynamic Stability of Proteins in Salt Solutions: a comparison of the effectiveness of protein stabilizers. ***J. Protein Chem. 5***, 355-367. |
| 24. | Corbett, R. J. T., **Ahmad, F**., and Roche, R.S. (1986), Domain Unfolding and Stability of Thermolysin in Guanidine Hydrochloride. ***Can Biochem. and Cell Biol. 64***, 953-961. |
| 25. | **Ahmad, F**. and Khan, L.A. (1989), The Denatured States of Ribonuclease-A: Mechanism of Denaturation by Lithium Chloride. ***Ind. J. Biochem. Biophys. 26***, 301-304. |
| 26. | **Ahmad, F**. and Bigelow, C. C. (1990), Thermodynamics of Solvation of Proteins in Guanidine Hydrochloride. ***Biopolymers 29***, 1593-1598. |
| 27. | **Ahmad, F**. (1991), Protein Stability from Denaturation Transition Curves. ***Ind. J. Biochem. Biophys***. ***28***, 168-173. |
| 28. | **Ahmad, F**., Yadav, S. and Taneja, S. (1992), Determining Stability of Proteins from Guanidinium Chloride Transition Curves. ***Biochem. J. 287***, 481-485. |
| 29. | Ahmad, Z. and **Ahmad, F**. (1992), Mechanism of Denaturation of Cytochrome-c by Lithium Salts, ***Ind. J. Chem. 31B***, 874-879. |
| 30. | Yadav, S., Taneja, S. and **Ahmad, F**. (1992), Measuring the Conformational stability of Proteins. ***Ind. J. Chem. 31B***, 859-864. |
| 31. | **Ahmad, F**. (1993), Measuring the Conformational Stability of Enzymes *in the Thermostability of Enzymes* (M.N. Gupta, ed.), pp 95-112, Narosa Publishing House, India. |
| 32. | **Ahmad, F**., Taneja, S., Yadav, S. and Haque, S. E. (1994), A New Method for Testing the Functional Dependence of Unfolding Free Energy Changes on Denaturant Concentration, ***J. Biochem. 115***, 322-327. |
| 33. | Ahmad, Z. and **Ahmad, F**. (1994), Physico-Chemical Characterization of Products of Unfolding of Cytochrome-C by Calcium Chloride. ***Biochim. Biophys. Acta 1207***, 223-230. |
| 34. | Taneja, S. and **Ahmad, F.** (1994), Increased Thermal Stability of Proteins in Presence of Amino Acids. ***Biochem. J. 303***, 147-153. |
| 35. | Ahmad, Z., Yadav, S., **Ahmad, F**. and Khan, N. Z. (1996), Effects of Salts of Alkali Earth Metals and Calcium chloride on the Stability of Cytochrome-C and Myoglobin. ***Biochim. Biophys. Acta 1294***, 63-71. |

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| 36. | Shereghi, B., **Ahmad, F**. and Moosavi-Movahedi, A. A. (1996), Stability of D-Amino Acid Oxidase: Denaturation by Guanidine Hydrochloride and Urea. ***Ind. J. Biochem. Biophys. 33***, 357-362. |
| 37. | Gupta, R., Yadav, S. and **Ahmad, F**. (1996), Protein Stability: Urea- induced Versus Guanidine-induced Unfolding of Metmyoglobin. ***Biochemistry 35***, 11925-11930. |
| 38. | Rishi, V., Anjum, F., **Ahmad, F**. and Pfeil, W. (1998), Role of Non-compatible Osmolytes in the Stabilization of Proteins during Heat Stress, ***Biochem. J. 329***, 137-143. |
| 39. | Gupta, R. and **Ahmad, F**. (1999), Protein Stability: Functional Dependence of Denaturational Gibbs Energy on Urea Concentration. ***Biochemistry 38***, 2471-2479. |
| 40. | Anjum, F., Rishi, V. and **Ahmad, F**. (2000), Compatibility of Osmolytes with Gibbs Energy of Stabilization of Proteins. ***Biochim. Biophys. Acta 1476***, 75-84 |
| 41. | Sinha, A., Yadav, Y., Ahmad, R. and **Ahmad, F**. (2000), A Possible Origin of Differences Between Calorimetric and Equilibrium Estimates of Stability Parameters of Proteins. ***Biochem. J. 345***, 711-717. |
| 42. | Yadav, S. and **Ahmad, F.** (2000), A New Method for the Determination of Stability Parameters of Proteins from Their Heat-induced Denaturation Curves. ***Anal. Biochem.283***, 207-213. |
| 43. | Xiaofang, L., Zafrullah, M., **Ahmad, F**. and Jameel, S. (2001), A C-Terminal Hydrophobic Region is Required for Homo-Oligomerization of the Hepatitis E Virus Capsid (ORF2) Protein. ***J. Biomed. Biotech. 1:3***, 122-128. |
| 44. | Jain, A., Rajeswari, M. R. and **Ahmad, F**. (2002), Formation and Thermodynamic Stability of Intermolecular (R*R.Y) DNA Triplex in GAA/TTC Repeats Associated with Freidreich's Atatxia. ***J. Biomol. Stru. Dyna***. ***19***, 691-699. |
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