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Centre for Interdisciplinary Research in Basic Sciences, Ramanujan Block, gate No. 23 Jamia Millia Islamia, New Delhi- 110025

**Member, National Academy of Sciences, India (NASI)**

**Co-Ordinator**, Extension Activities, CIRBSc., JMI

**Member**, Institutional Animal Ethics Committee, JMI

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### **Academic Background**

- (i) Ph. D. Title                                      Studies of Conformation and Conformational Stability of Nef Protein of HIV 1
- (ii) M. Sc. (1999-2001)                          Master of Science in Biosciences from Jamia Millia Islamia, New Delhi, (with First Division)  
      M. Sc. Dissertation:                        PCR amplification of chr A gene from Indian isolates of *E.coli*
- (iii) B. Sc. (1996-1999)                        Bachelor of Science in Biosciences from Jamia Millia Islamia, New Delhi (with First Division)

### **Scholastic Background:**

- (i) Senior Secondary School (1995): Intermediate from Cambrian Hall School under the Council for I.S.C.E., New Delhi, (**first division with 1 distinction**).
- (ii) Secondary School (1993): High School from Cambrian Hall School, Dehradun under the Council for I.S.C.E., New Delhi, (**first division with 4 distinctions**).

### **Research Summary:**

<b>h-index:</b>	35	(As per SCOPUS on 15 March 2023)
<b>i-index</b>	135	(As per SCOPUS on 15 March 2023)
<b>Total Publications:</b>	235 <sup>+</sup>	(As per SCOPUS on 15 March 2023)
<b>Total Citations</b>	4500 <sup>+</sup>	(As per SCOPUS on 15 March 2023)
<b>Total Impact factor of all the papers:</b>	1000 <sup>+</sup>	

**Invited Talks:** 30 plus (IIT-Guwahati, IIT-BHU, AMU, Jamia Hamdard, Alagappa University, Indian Sciences Congress, etc.).

**Invited Talks:** 30 plus (IIT-Guwahati, IIT-BHU, AMU, Jamia Hamdard, Alagappa University, Indian Sciences Congress, etc.).

### **Awards/Honours/Achievements:**

- (i) **Research Excellence Award 2020** by Institute of Scholars, An ISO 9001:2015 certified Institute by International Accurate Certification, Accredited by UASL
- (ii) **International Best Researcher in Protein Folding** by Research Under Literal Award.

- (iii) **Outstanding Researcher in Molecular & Structural Biology** by Venus International Foundation.
- (iv) **NESA EMINENT SCIENTIST OF THE YEAR AWARD-2019** by National Environmental Science Academy
- (v) **Fellow Award- 2019** by Agricultural and Environmental Technology Development Society (AETDS).
- (vi) **Fellow Member**, InSc International Publishers (IIP)
- (vii) **DST-SERB Fast Track Young Scientist Award**
- (viii) **CSIR-UGC Lectureship NET**, December, 2000
- (ix) **UGC-JRF**, December 2001
- (x) **Graduate Aptitude Test for Engineering, (GATE) 2002**

### Details of Research Projects Completed

S. No.	Title of Project	Amount	Funding Agency	Duration	
				From	To
1	PROTEIN FOLDING: Would the Heat/Acid Denatured State Serve as Reference State for Protein Folding.	10.2 Lakh	UGC	2009	2012
2	Effect of macromolecular crowding agent on protein in the presence of sugar osmolytes.	24 lakh	DST	2012	2015
3	Cloning and expression of envelope protein genes of chikungunya virus in bacterial system and their biophysical characterization.	23 Lakh	CSIR	2012	2015
4	Relation between Stability and Functional Activity of Proteins in the Presence of Different Sizes of Sugar Osmolytes	28 Lakh	CSIR	2013	2016
5	Study the role of deregulation in multiple signaling cascades, genetic and epigenetic mechanisms in the development of gall bladder diseases and carcinomas in the northeast India., DBT's Twinning project with the North East (Gauhati University, Assam)	78.48 Lakh	DBT	2014	2017
6	In Silico (Molecular Dynamic Simulation) and In Vitro Approaches to Understand Counteraction of Urea's Effects on Proteins by Kidney Osmolytes (ICMR/BIC/12(16)/2014)	30 lakh	ICMR	2017	2020
7	Studies on endothelial nitric oxide synthase (eNOS) phosphorylation and its consequences on uncoupled NO synthesis, tetrahydrobiopterin (BH <sub>4</sub> ) recycling and superoxide generation SERB/F/377/2019-2020 dated 9 May 2019	60 Lakh	DST-SERB	2019	2022
8	Elucidation of neurodegenerative tauopathies through MARK4 inhibitors: Design and evaluation of MARK4 inhibitors using insilico and invitro approaches and investigation of their role to cure hyper phosphorylation of tau proteins.	25 Lakh	ICMR	2021	2024

### PROFESSIONAL RECOGNITION

- i. Member, Editorial Board, Biochemistry and Molecular Biology
- ii. Member, Editorial Board, Annals of Genetics
- iii. Life member, Iran Society of Biophysical Chemistry (ISOBC)
- iv. Life member, Indian Science Congress
- v. Life member, Indian Immunology Society
- vi. Life member, Society of Biological Chemists
- vii. Life member, National Magnetic Resonance Society
- viii. Life member, Indian Biophysical Society
- ix. Life member, Protein Society
- x. Life Member, National Environmental Science Academy
- xi. Life Member, Institute of Scholars, An ISO 9001:2015 certified Institute by International Accurate Certification, Accredited by UASL
- xii. Member, The European Peptide Society
- xiii. Member, National Academy of Sciences, India (NASI)
- xiv. Warden, Jamia Hostel

### RESEARCH AREA & INTEREST

Neurodegeneration and Protein aggregation, Diseases due to protein misfolding, Protein Folding, Macromolecular Crowding in Cell, Protein isolation, purification and characterization, Biophysics, Osmolytes and Stress Biology

**Research Group:  
Post-Doctoral Fellow:**

- (1) Dr. Anas Shamsi, 1 April 2018 to 31 March 2020;
- (2) Dr. Moin Ishrat, ICMR RA (16 July 2018- 15 May 2021);
- (3) Dr. Misha Ali, CSIR RA (10 October 2019 to 30 August 2020);
- (4) Dr. Anas Shamsi, D. S. Kothari PDF (1 April 2020 to 31 March 2023);
- (5) Dr. Zahoor Ahmad Parrey, ICMR RA (21 March 2021-9 November 2021),
- (6) Dr. Masihuzzaman, SERB N-PDF (23 March 2021-31 August 2021).

**Ph.D. Students:**

- (1) Nabeel Ali (MN-SRF),
- (2) Rashid Waseem (DST Inspire Fellow),
- (3) Zainy Zehra (CSIR-JRF),
- (4) Tanzeel Khan (UGC-JRF),
- (5) Md. Ali Imam (MN-SRF) (Registered at CIRBSc, JMI),
- (6) Zoya Shafat (Registered at CIRBSc, JMI),
- (8) Ziaul Hasan (Registered at Department of Biosciences, JMI),
- (9) Seerat Siraj (Registered at Department of Biotechnology, JMI),
- (10) Shahnawaz Ahmad (Registered at IFTM University, Moradabad),
- (11) Daraksha Yameen (Registered at Department of Biotechnology, JMI),
- (12) Ayesha Aiman (Registered at Department of Biosciences, JMI),
- (13) Danish Alam (Registered at Department of Biosciences, JMI),
- (14) Israil (Registered at Sharda University),
- (15) Sunidhi Singh (Registered at Department of Biosciences, JMI),
- (16) Faiza Iram (UGC-JRF)

**Ph.D awarded:**

- (1) Dr. Ilyas Beg
- (2) Dr. Moin Ishrat
- (3) Dr. Sumra Shahid
- (4) Dr. Khalida Nasreen,
- (5) Dr. Zahoor Ahmad Parrey,
- (6) Dr. Khalid Anwar
- (7) Dr. Syed Ausaf Ali,
- (8) Dr. Khadega Khamis Moh
- (9) Dr. Priyanka Sinha
- (10) Dr. Farheen Naz
- (11) Dr. Ishfaq Ahmad Ahanger
- (12) Dr. Sania Bashir
- (13) Dr. Abu Hamza
- (14) Dr. Neha Raina

**M.Phil awarded:**

- (1) Mohd Amir,
- (2) Abu Hamza,
- (3) Zahoor Ahmad Parrey,
- (4) Nabeel Ali,
- (5) Mahima Singla,
- (6) Muneera Lateef,
- (7) Sana Kauser

**M.Sc. Dissertations: 200 plus**

**RESOURCE FACULTY**

Resourceful in organising following conferences/workshops/refresher courses

- i. One day Virtual Symposium on Biophysics, Biophysika 5, Organised by Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi, India, February 23, 2021.
- ii. Interdisciplinary Science Conference on Big Data and Computational Biology, Organised by Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi, India, October 21-22, 2019.

- iii. DST-Purse sponsored National Seminar on Biophysics (BIOPHYSIKA-2019), Organised by Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi, India, October 4, 2019.
- iv. National Conference on Complex Systems in Interdisciplinary Research in Basic Sciences, Organised by Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi, India, March 11-12, 2019.
- v. Workshop on “How to crack NET/ GATE/ JAM exams in Life sciences and Biotechnology with high scores and promising research career in India and Aboard”, Organised by Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi, India, 8 March 2019.
- vi. Symposium on Biophysics, Biophysika, Organised by Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi, India, November 20, 2018,
- vii. Seminar on Confocal Raman Microscope with 3D Mapping and it's application in Biotechnology, Pharmaceutical Science, Material Science and Health Sciences, Organised by Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi, India, 10 August 2018.
- viii. Seminar on “Functional genomic screen using CRISPR/Cas9 based genome editing for Human diseases”, Organised by Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi, India, 30 July 2018.
- ix. International Conference on Nanobiotechnology, Organised by Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi, India, February 5-6, 2018.
- x. National conference on Protein Structure and Dynamics in Health and Agriculture, Organized by the Department of Biosciences and Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi under the aegis of Protein Society, November 3-4, 2017.
- xi. Awareness Program/Workshop” in collaboration with Bio-Services & 3i Molecular Solutions, on Awareness and perceptions regarding common cancers among women and girls in India. Can it be prevented? Organised by Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi, India, September 28, 2017.
- xii. National Seminar on Biophysics (BIOPHYSIKA-2017), Organised by Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi, India, March 16, 2017.
- xiii. Workshop on Social Entrepreneurship and Higher Education, Organised by Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi, India, 02 March 2017.
- xiv. National Conference on Interdisciplinary Approaches in Chemical Sciences, Organised by Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi, India, December 16, 2015.
- xv. National Symposium on Biophysics & Golden Jubilee Meeting of Indian Biophysical Society, organized by the Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi, under the aegis of Indian Biophysical Society, February 14-17, 2015.
- xvi. National Conference on Recent Trends in Molecular Virology 2014, organised by Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi, India, November 17-19, 2014.
- xvii. 3<sup>rd</sup> 3-Week Refresher Course in Basic Sciences organised by UGC-Human Resources Development Centre, Jamia Millia Islamia, 6 May to 27 May 2014.
- xviii. National conference on Recent Trends in Protein Structural Biology, 2013, Organized by the Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi from December 16-18, 2013, where I was the **General Secretary** of the conference.
- xix. International-Interdisciplinary Science Conference 2012 on Protein Folding and Diseases, Organized by the Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi, December 8-10, 2012.
- xx. International-Interdisciplinary Science Conference 2011 on Bioinformatics: an interface between Computer Science and Biology, Organized by the Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi, December 8-10, 2012.
- xxi. International-Interdisciplinary Science Conference 2010 on Nanobiotechnology: An Interface between Physics and Biology, Organized by the Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi, 04 Dec 2010.
- xxii. Interdisciplinary Science Conference 2009 on Interface between Chemistry and Biology, Organized by the Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi, October 8, 2009.
- xxiii. Interdisciplinary Science Conference-2008 on Mathematics in Biology, Organized by the Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi, December 4, 2008.
- xxiv. Interdisciplinary Science Conference-2007 on Recent Trends in Research in Biological Sciences, Organized by the Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi, December 7, 2007.

### International Visit

To participate in Theoretical and Practical workshop on “**Cloning and Gene Expression in Prokaryotic System**” Alexandria from September 2, 2006 to September 12, 2006

### Books/Chapter

1. Farah Deeba, Nazia Afreen, **Asimul Islam**, Irshad Hussain Naqvi, Shobha Broor, Anwar Ahmed and Shama Parveen (2016) Co-infection with Dengue and Chikungunya Viruses. Chapter 6, Intech Open Science.
2. Khalida Nasreen, Zahoor Ahmad Parray, Ikramul Hasan, **Asimul Islam** (2020) Chemical-Induced Denaturation of Myoglobin Under Crowded Environment. In: Song Guo Zheng, editor. Prime Archives in Molecular Biology. Hyderabad, India: Vide Leaf. **6 Published July 06, 2020**
3. Sania Bashir, Neha Sami, Sayema Bashir, Faizan Ahmad, Md. Imtaiyaz Hassan, and **Asimul Islam** (2020) Management of Insulin Through Co-Solute Engineering: A Therapeutic Approach. In: Singh D., Tripathi T. (eds) Frontiers in Protein Structure, Function, and Dynamics. Springer, Singapore.

4. Sumra Shahid, Ikramul Hasan, Faizan Ahmad, Md. Imtaiyaz Hassan and **Asimul Islam** (2020) Effect of size of crowder on protein stabilization. Recent Research Advances in Biology Vol. 3, Chapter 10, 98-105. Print ISBN: 978-93-90431-53-3, eBook ISBN: 978-93-90431-54-0. DOI: 10.9734/bpi/trab/v3
5. Neha Raina, Amit Kumar Singh and Asimul Islam (2020) Biological Implications of Polyethylene Glycol and PEGylation: Therapeutic Approaches Based on Biophysical Studies and Protein Structure-Based Drug Design Tools. Innovations and Implementations of Computer Aided Drug Discovery Strategies in Rational Drug Design". In book: Innovations and Implementations of Computer Aided Drug Discovery Strategies in Rational Drug Design. DOI: 10.1007/978-981-15-8936-2\_11.
6. Nazim Khan, Arshi Islam, Abu Hamza, Zoya Shafat, **Asimul Islam**, Anwar Ahmed, Shama Parveen; (2021) Morphology, Genomic Organization, Proteins and Replication of SARS-CoV-2, The COVID-19 Pandemic: Epidemiology, Molecular Biology and Therapy (2021) 1: 17. <https://doi.org/10.2174/9789811481871121010005>.  
DOI: 10.2174/97898114818711210101  
eISBN: 978-981-14-8187-1, 2021  
ISBN: 978-981-14-8185-7
7. Md Anzarul Haque, Punit Kaur, Asimul Islam, Md Imtaiyaz Hassan (2021) Application of circular dichroism spectroscopy in studying protein folding, stability, and interaction Running head: Application of circular dichroism spectroscopy. Chapter | 14
8. Ahanger I.A., Sharma A., **Islam A.** (2021) The Pathogenesis and Complications Associated with Autism Spectrum Disorder and Alzheimer's Disease: A Comparative Study. In: Md Ashraf G., Alexiou A. (eds) Autism Spectrum Disorder and Alzheimer's Disease. Springer, Singapore. [https://doi.org/10.1007/978-981-16-4558-7\\_3](https://doi.org/10.1007/978-981-16-4558-7_3)
9. Shamsi A., Anwar S., Mohammad T., Shahwan M., Hassan M.I., **Islam A.** (2021) Therapeutic Potential of Polyphenols in Alzheimer's Therapy: Broad-Spectrum and Minimal Side Effects as Key Aspects. In: Md Ashraf G., Alexiou A. (eds) Autism Spectrum Disorder and Alzheimer's Disease. Springer, Singapore.  
**8 February 2022**  
[https://doi.org/10.1007/978-981-16-4558-7\\_7](https://doi.org/10.1007/978-981-16-4558-7_7)
10. Saleha Anwar, Anas Shamsi, Taj Mohammad, **Asimul Islam**, Md. Imtaiyaz Hassan (2022) Targeting pyruvate kinase M2 signalling for development of effective cancer therapy. In book: Protein Kinase Inhibitors. Pages 199-222
11. Zainy Zehra, Naseem A. Gaur, and **Asimul Islam** (2022) Significant SARS-CoV-2 Variants Circulating Around the World: Origin, Spread and Phylodynamics. The Coronavirus Pandemic and the Future Volume 2: Virology, Epidemiology, Translational Toxicology and Therapeutics Edited by Michael D. Waters, Alok Dhawan, Tim Marrs, Diana Anderson, Stafford Warren and Claude L. Hughes Published by the Royal Society of Chemistry,  
**27 April 2022**  
[www.rsc.org](http://www.rsc.org)  
<https://doi.org/10.1039/9781839166839>
12. Interferons Horizon Therapeutics (2022) Ayesha Aiman, Seemi Farhat Basir and Asimul Islam  
**Published: 15 July, 2022**

#### Publications:

1. Haque, I., **Islam, A.**, Singh, R., Moosavi-Movahedi, A. A., Ahmad, F. (2006) Stability of proteins in the presence of polyols estimated from their guanidinium chloride-induced transition curves at different pH values and 25 degrees C. **Biophysical Chemistry 119**, 224-233. **IF = 3.628**  
**14 October 2005**
2. Moza, B., Qureshi, S. H., **Islam, A.**, Singh, R., Anjum, F., Moosavi-Movahedi, A. A., Ahmad, F. (2006) A unique molten globule state occurs during unfolding of cytochrome c by LiClO<sub>4</sub> near physiological pH and temperature: structural and thermodynamic characterization. **Biochemistry 11**, 4695-4702.  
**18 March 2006 IF = 3.321**
3. Dar, T. A., Singh, L. R., **Islam, A.**, Anjum, F., Moosavi-Movahedi, A. A., Ahmad, F. (2007) Guanidinium chloride and urea denaturations of beta-lactoglobulin A at pH 2.0 and 25 degrees

C: the equilibrium intermediate contains non-native structures (helix, tryptophan and hydrophobic patches). **Biophys. Chem.** 127, 140-148. **IF = 3.628**

**25 January 2007**

4. Shee, C., **Islam, A.**, Ahmad, F., Sharma, A.K. (2007) Structure-function studies of *Murraya koenigii* trypsin inhibitor revealed a stable core beta sheet structure surrounded by alpha-helices with a possible role for alpha-helix in inhibitory function **International Journal of Biological Macromolecules** 41, 410-414. **IF = 8.025**  
**5 June 2007**
5. Dey, P., **Islam, A.**, Ahmad, F., Batra, J. K. (2007) Role of unique basic residues of human pancreatic ribonuclease in its catalysis and structural stability. **Biochem. Biophys. Res. Commun.** 7, 809-814. **IF = 3.322**  
**9 July 2007**
6. Aruna, B., **Islam, A.**, Ghosh, S., Singh, A. K., Vijayalakshmi, M., Ahmad, F., Ehtesham, N. Z. (2008) Biophysical analyses of human resistin: oligomer formation suggests novel biological function. **Biochemistry** (25) 12457-12466. **IF = 3.321**  
**1 November 2008**
7. Kumar, P., **Islam, A.**, Ahmad, F., and Satyanarayana, T. (2010) Characterization of a neutral and thermostable glucoamylase from the thermophilic mold *Thermomucor indicae-seudaticae*: activity, stability, and structural correlation. **Appl. Biochem. Biotechnol.** 160, 879-890. **IF = 3.094**  
**30 May 2009**
8. Hamidur Rahaman, Md. Khurshid Alam Khan, Md. Imtaiyaz Hassan, **Asimul Islam**, Ali Akbar Moosavi-Movahedi, Faizan Ahmad (2013) Evidence of non-coincidence of normalized sigmoidal curves of two different structural properties for two-state protein folding/unfolding. *Journal of Chemical Thermodynamics* 58, 351-358. **IF = 3.269**  
**8 December 2012**
9. Khan, S., Bano, Z., Singh, L. R., Hassan, I., **Islam, A.**, Ahmad, F. (2013) Why is glycine not a part of the Osmoticum in the Urea-rich Cells? **Protein Pept Lett.** 20, 61-70. **IF = 1.927**  
**1 January 2013**
10. Naz, F., Anjum, F., **Islam, A.**, Ahmad, F., Hassan, M. I. (2013) Microtubule Affinity Regulating Kinase 4: Structure, Function, and Regulation. *Cell Biochem Biophys.* 67, 485-499. **IF = 2.989**  
**8 March 2013**
11. Zaidi, S., Hassan, M. I., **Islam, A.**, Ahmad, F. (2013) The role of key residues in structure, function, and stability of cytochrome-c. *Cell Mol Life Sci.* 71 (229-255). **IF = 7.014**  
**25 April 2013**
12. Khan, S., Bano, Z., Singh, L. R., Hassan, M. I., **Islam, A.**, Ahmad, F. (2013) Testing the Ability of Non-Methylamine Osmolytes Present in Kidney Cells to Counteract the Deleterious Effects of Urea on Structure, Stability and Function of Proteins **PLoS One** 9;8(9):e72533. doi: 10.1371. **IF = 3.752**  
**9 September 2013**
13. Naz, H., **Islam, A.**, Waheed, A., Sly, W. S., Ahmad, F., Hassan, M. I. (2013) Human  $\beta$  Glucuronidase: Structure, Function, and Application in Enzyme Replacement Therapy. **Rejuvenation Res.** 8, 1-10. **IF = 3.192**  
**18 October 2013**
14. Ubaid-Ullah S, Haque MA, Zaidi S, Hassan MI, **Islam A**, Batra JK, Singh TP, Ahmad F. (2014) Effect of sequential deletion of extra N-terminal residues on the structure and stability of yeast iso-1-cytochrome-c. **Journal of Biomolecular Structure & Dynamics** 32, 2005-2016. **IF = 5.235**  
**20 Nov 2013**
15. Prakash Amresh, Kundan Kumar, **Asimul Islam**, Md. Imtaiyaz Hassan and Faizan Ahmad (2013) Receptor Chemoprint Derived Pharmacophore Model for Development of CAIX Inhibitors *J Carcinogene Mutagene* 2013, S8.  
<http://dx.doi.org/4172/2157-2518.S8-003>  
**23 Nov 2013**
16. Anwer K, Parmar A, Rahman S, Kaushal A, Madamwar D, **Islam A**, Hassan MI, Ahmad F. (2014) Folding and stability studies on C-PE and its natural N-terminal truncant. *Arch Biochem Biophys.* 545, 9-21. **IF = IF = 4.114**  
**13 January 2014**
17. Naz F, Asad M, Malhotra P, **Islam A**, Ahmad F, Hassan MI. (2014) Cloning, Expression,

- Purification and Refolding of Microtubule Affinity-Regulating Kinase 4 Expressed in *Escherichia coli*. *Appl Biochem Biotechnol.* 172, 2838-2848. **IF = 3.094**  
**21 Jan 2014**
18. Kumar K, Prakash A, Tasleem M, **Islam A**, Ahmad F, Hassan MI. (2014) Functional annotation of putative hypothetical proteins from *Candida dubliniensis*. *Gene.* 543, 93-100. **IF = 3.914**  
**1 April 2014**
  19. Ali SA, Hassan I, **Islam A**, Ahmad F. (2014) A Review of Methods Available to Estimate Solvent-Accessible Surface Areas of Soluble Proteins in the Folded and Unfolded States. *Curr Protein Pept Sci.* 15, 456-476. **IF = 3.118**  
**1 August 2014**
  20. Dar MA, Wahiduzzaman, **Islam A**, Hassan MI, Ahmad F. (2014) Purification and Characterization of Calreticulin: a Ca<sup>2+</sup>-Binding Chaperone from Sheep Kidney. *Appl Biochem Biotechnol.* 174, 1771-1783. **IF = 3.094**  
**23 Aug 2014**
  21. Md. Anzarul Haque, Sobia Zaidi, Shah Ubaid-ullah, Amresh Prakash, Md. Imtaiyaz Hassan, Asimul Islam, Janendra K. Batra & Faizan Ahmad (2015) *In vitro* and *in silico* studies of urea-induced denaturation of yeast iso-1-cytochrome c and its deletants at pH 6.0 and 25 °C. **Journal of Biomolecular Structure and Dynamics** (33) 1493-1502. **IF = 5.235**  
<http://dx.doi.org/10.1080/07391102.2014.958760>  
**23 Sept 2014**
  22. Kumar K, Prakash A, Anjum F, **Islam A**, Ahmad F, Hassan MI. (2015) Structure-based functional annotation of hypothetical proteins from *Candida dubliniensis*: a quest for potential drug targets. *3 Biotech.* 5, 561-576. **IF = 2.893**  
**17 Oct 2014**
  23. Haque, M.A., Ubaid-ullah, S., Zaidi, S., **Asimul Islam**, Batra, J.K., Ahmad, F. (2015) Characterization of pre-molten globule state of yeast iso-1-cytochrome c and its deletants at pH 6.0 and 25°C. **International Journal of Biological Macromolecules** (72) 1406-1418. **IF = 8.025**  
**4 Nov 2014**
  24. Munazzah Tasleem, Romana Isirat, **Asimul Islam**, Faizan Ahmad and Md. Imtaiyaz Hassan (2014) Structural Characterization, Homology Modeling and Docking Studies of ARG674 Mutation in MyH8 Gene Associated with Trismus-Pseudocamptodactyly Syndrome. *Letters in Drug Design & Discovery* (11) 1177-1187. **IF = 1.099**  
**December 2014**
  25. Naiyer, A., Hassan, M. I., **Islam, A.**, Sundd, M., and Ahmad, F. (2015) Structural characterization of MG and pre-MG states of proteins by MD simulations, NMR, and other techniques. *J Biomol Struct Dyn.* 33, 2267-2284. **IF = 5.235**  
<http://dx.doi.org/10.1080/07391102.2014.999354>  
**14 Jan 2015**
  26. Rahaman, H., Alam Khan, M. K., Hassan, M. I., **Islam, A.**, Moosavi-Movahedi A. A., and Ahmad, F. (2015) Heterogeneity of equilibrium molten globule state of cytochrome *c* induced by weak salt denaturants under physiological condition. *PLoS ONE* 10. e0120465. **IF = 2.776**  
DOI:10.1371/journal.pone.0120465  
**7 April 2015**
  27. Beg I, Minton AP, Hassan I, **Islam A**, Ahmad F. (2015) Thermal Stabilization of Proteins by Mono- and Oligosaccharides: Measurement and Analysis in the Context of an Excluded Volume Model. *Biochemistry.* 54, 3594-3603. **IF = 2.952.**  
**22 May 2015**
  28. Singh R, Hassan MI, **Islam A**, Ahmad F (2015) Cooperative Unfolding of Residual Structure in Heat Denatured Proteins by Urea and Guanidinium Chloride. *PLoS ONE* 10(6): e0128740. doi:10.1371/journal.pone.0128740. journal.pone.0128740PLoS One. 10, doi: 10.1371/journal.pone.0128740. **IF = 2.776.**  
**5 June 2015**
  29. S. Zaidi, M. Imtaiyaz Hassan, **A. Islam** and F. Ahmad (2015) Structural Characteristics of Stable Folding Intermediates of Yeast Iso-1-Cytochrome-c. *Biomacromol. J.*, 1, 19-45.  
**July 2015**
  30. Naz F, Singh P, **Islam A**, Ahmad F, Imtaiyaz Hassan M. (2015) Human microtubule affinity-regulating kinase 4 is stable at extremes of pH. *J Biomol Struct Dyn.* 21, 1-11. **IF = 5.235**  
**21 Aug 2015**

31. Shahid S, Ahmad F, Hassan MI, **ASIMUL ISLAM** (2015) Relationship between protein stability and functional activity in the presence of macromolecular crowding agents alone and in mixture: An insight into stability-activity trade-off. *Arch Biochem Biophys.* 584, 42-50. **IF = 3.559**  
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#### **Abstracts published in conferences/workshops**

- i. **Asimul Islam (2019)** Macromolecular Crowding: An important but neglected aspect of protein folding (26-27 March, 2019) Organised by Department of Biotechnology, Faculty of Sciences, Jamia Hamdard, Hamdard Nagar, New Delhi, India.
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- v. **Asimul Islam (2018)** Osmolytes-induced Stabilization of Proteins in Macromolecular Crowded Cellular Environment at National Symposium Cum Bioinformatics Workshop on Trends In Genomics: Congruence With Contemporary Biotechnological Tools ((20-21 March 2018) Organised by Interdisciplinary Biotechnology Unit, AMU, Aligarh.
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- xv. **Asimul Islam** (2015) Sugar osmolytes play important role in the stabilization of the stability of proteins at National Conference on Interdisciplinary Approaches in Chemical Sciences, Organised by Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi, India, December 16, 2015
- xvi. **Asimul Islam** (2015) Molecular and macromolecular crowding play important role in the stabilization of the stability of proteins, at Recent Developments in Medical Biotechnology and Structure Based Drug Designing (RDMSBDD-2015), IIT, Guwahati, Assam (December 6-7, 2015).
- xvii. **Asimul Islam** Moin Ishrat, Md. Imtaiyaz Hassan and Faizan Ahmad (2014) Macromolecular crowding enhances structure and thermostability in proteins, Kusuma School of Biological Sciences, Indian Institute of Technology, New Delhi, India (December 12-14, 2014).
- xviii. **Asimul Islam**, Shahid Jameel and Faizan Ahmad (2014) N-terminal of Nef Protein May Contribute to the Stability of the Protein at National Conference on Recent Trends in Molecular Virology, Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi, India, (November 17-19, 2014).
- xix. **Asimul Islam** Moin Ishrat, Md. Imtaiyaz Hassan and Faizan Ahmad (2014) Life of protein in the crowded milieu at The Second International Symposium on Protein Folding and Dynamics, National Centre for Biological Sciences, TIFR, Bangalore (November 5-7, 2014)
- xx. **Asimul Islam**, Moin Ishrat, Md. Imtaiyaz Hassan and Faizan Ahmad (2014) Life of a protein in crowded environment at UGC SAP Sponsored National seminar on Metal Toxicity and Oxidative Stress, Department of Biosciences, Jamia Millia Islamia, New Delhi, India (November 17-19, 2014).
- xxi. **Asimul Islam**, Moin Ishrat, Md. Imtaiyaz Hassan and Faizan Ahmad (2014) Effect of macromolecular crowding agent on protein in the presence of sugar osmolytes at Molecular Architecture, Dynamic, and Assemble in Living Systems MADALS 2014, Annual Meeting of Indian Biophysical Society (IBS) at Saha Institute of Nuclear Physics, Kolkata, India (February 7-10, 2014)
- xxii. **Asimul Islam**, Ilyas Beg and Faizan Ahmad (2013) Effect of Size of Sugar Osmolytes on the Stability and the Functional Activity of Lysozyme at National Symposium on Frontiers of Biophysics, Biotechnology & Bioinformatics & 37<sup>th</sup> Annual Meeting of Indian Biophysical Society (IBS) at University of Mumbai, Mumbai (January 13-16, 2013).
- xxiii. Moin Ishrat, Faizan Ahmad and **Asimul Islam** (2013) Macromolecular Crowding Environment Stabilizes Ribonuclease-A at National Symposium on Frontiers of Biophysics, Biotechnology & Bioinformatics & 37<sup>th</sup> Annual Meeting of Indian Biophysical Society (IBS) at University of Mumbai, Mumbai (January 13-16, 2013).
- xxiv. Ilyas Beg, Faizan Ahmad and **Asimul Islam** (2012) Effect of Size of Sugar Osmolytes on the *m*-Value of Lysozyme at International Interdisciplinary Science Conference-2012 on Protein Folding and Diseases on December 8-10, 2012, Jamia Millia Islamia, New Delhi
- xxv. Moin Ishrat, Faizan Ahmad and **Asimul Islam** (2012) Macromolecular Crowding Environment Stabilizes Ribonuclease-A at International Interdisciplinary Science Conference-2012 on Protein Folding and Diseases on December 8-10, 2012, Jamia Millia Islamia, New Delhi
- xxvi. Sumra Shahid, Faizan Ahmad and **Asimul Islam** (2012) Effect of Dextran on the Secondary Structure of Lysozyme
- xxvii. **Islam, A.**, Ishrat, M. and Ahmad, F. (2012) Effect of macromolecular crowding agent on the structure and stability of lysozyme, at **International Symposium on Protein Folding and Dynamics** at National Centre for Biological Sciences, TIFR, Bangalore (15-17 October, 2012).
- xxviii. **Islam, A.**, Ishrat, M. and Ahmad, F. (2012) Protein Folding in Crowded Environment: Effect of Crowding Agent on the Structure and Stability of Proteins, at Annual Meeting of the Indian Biophysical society, IBS 2012 organized at Chennai on 19-21 January 2012
- xxix. Beg, I., Ahmad, F. and **Islam, A.** (2011) Biophysical Characterization of Cochinin B, a Ribosome Inactivating Protein at International Interdisciplinary Science Conference-2011 on Bioinformatics: An Interface between Compute Science and Biology on November 15-17, 2011
- xxx. Ishrat, M., Ahmad, F. and **Islam, A.** (2011) Effect of crowding agent on the thermal stability of ribonuclease-A Protein at International Interdisciplinary Science Conference-2011 on Bioinformatics: An Interface between Compute Science and Biology on November 15-17, 2011
- xxxi. **Islam, A.** (2011) Analysis of Protein Stability Curves to Measure Stability Parameters at International Conference & Exhibition on Proteomics & Bioinformatics conducted by Omics Publishing Group at Hydrbad from June 6-8, 2011
- xxxii. Kumar P., **Islam, A.**, Ahmad, F. and Satyanarayana, T (2008) Characterization of a neutral glucoamylase from the thermophilic mould *Thermomucor indicae-seudaticae* in terms of activity, stability and structure, Natural Science Info Fest, conducted by Faculty of Natural Sciences, Jamia Millia Islamia on November 1, 2008

### Conferences and Workshops attended

- (i) Workshop and Training on Protein Folding, Simulation and Advanced Docking Techniques Using Discovery Studio (2013) Organised by Accelrys & Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi, India.
- (ii) Author workshop on How to write and get published in scientific journals and publish manuscripts (2012) conducted by Springer and Edanz along with the Jawaharlal Nehru University Central Library (27 August 2012)
- (iii) Current Trends in Structural Biology 2012 Organized by Protein Structural Biology Lab, Department of Biophysics, all India Institute of Medical Sciences, New Delhi on 2<sup>nd</sup> April, 2012
- (iv) OSACC-2012: National Conference on Emerging Trends in Open Source Applications and Cloud Computing by FTK-Centre for Information Technology, Jamia Millia Islamia, Jamia Nagar, New Delhi, on 15 March, 2012

- (v) BIF 2012: Workshop on Bioinformatics Infrastructure and Frontiers at Department of Computer Sciences, Jamia Millia Islamia, New Delhi on 13-14 March, 2012
- (vi) Biotech 2012: Current Advances in Biotechnology and Medicine at Institute of Liver and Biliary Sciences (ILBS) on 24-25<sup>th</sup> February 2012
- (vii) 1<sup>st</sup> Annual Conference on “Research Methodology & Art of Scientific Paper Writing”, October 9, 2011, Organised by Indian Journal of Medical Specialities & Deptt. Of Medicines, MAMC, New Delhi
- (viii) Launch Ceremony of Merck Millipore India Innovation Award 2012, September 26, 2011, Nehru Place New Delhi
- (ix) Accelerating Research and Academia in India: an Agilent Initiative, 20 September 2011, Senate Room, Hyatt Regency, Bhikaji Cama Place, New Delhi, Organised by Agilent Technologies
- (x) International Conference & Exhibition on Proteomics & Bioinformatics conducted by Omics Publishing Group at Hyderabad from June 6-8, 2011
- (xi) National Symposium on “Healthy aging” on 31<sup>st</sup> March 2010 at FTK Centre, conducted by Centre for Physiotherapy & Rehabilitation Sciences, Jamia Millia Islamia, New Delhi
- (xii) Current Trends in Structural Biology 2011 Organized by Protein Structural Biology Lab, Department of Biophysics, all India Institute of Medical Sciences, New Delhi on 30<sup>th</sup> March 2011
- (xiii) International-Interdisciplinary Science Conference 2010 on 04 Dec 2010 (Member of the Organizing Committee), Jamia Millia Islamia, New Delhi.
- (xiv) Regional Workshop–Writing an Effective Grant Proposal Organized by Department of Biotechnology, March 16, 2010, India Habitat Centre, Lodhi Road, New Delhi.
- (xv) Bioinformatics Applications in Systems Biology, March 3-4, 2010, Department of Computer Science, Jamia Millia Islamia, New Delhi.
- (xvi) Interdisciplinary Science Conference 2009 on October 8, 2009, Jamia Millia Islamia, New Delhi. (Member of the Organizing Committee)
- (xvii) National Science Day, Organized by: Ministry of Science & Technology, Govt. of India, Indian National Science Academy, and IIT Delhi, on 28 Feb, 2009.
- (xviii) Bioinformatics Application in Research and development organized by Bioinformatics Infrastructure Facility, Department of Computer Science, Jamia Millia Islamia, New Delhi, India (Feb. 19-20, 2009).
- (xix) XXXII Indian Social Science Congress, Organized by: Jamia Millia Islamia, 18-22, Dec2008
- (xx) Interdisciplinary Science Conference-2008 on December 4, 2008, Jamia Millia Islamia, New Delhi. (Organizing Secretary).
- (xxi) Seminar on Titrators on 14.11.2008 by Mettler-Toledo India Private Limited
- (xxii) Workshop on “Web 2.0 in Education”, conducted by FTK Centre for Information and Technology, JMI on November 4, 2008
- (xxiii) Interdisciplinary Science Conference-2007 on December 7, 2007, Jamia Millia Islamia, New Delhi. (Member of the Organising Committee).
- (xxiv) Natural Science Info Fest conducted by Faculty of Natural Sciences on November 1, 2008
- (xxv) How to get best performance from your CD Polarimeter, April 19, 2007 Qutub Ball, Qutub Hotel, New Delhi, funded and organized by Jasco Corporation Ltd.
- (xxvi) Applications of Microcalorimetry in Biosciences and Biotechnology, Hotel Siddharth Continental, Pusa, New Delhi, February 16, 2007 Funded and organized by Microcal, LLC, USA and Jawaharlal Nehru University.
- (xxvii) Theoretical and practical workshop on “Cloning and Gene Expression in Prokaryotic System” (2-12 September 2006) at Alexandria, Egypt
- (xxviii) Workshop on Bioinformatics & Drug Design (April 1-2, 2005) at SIES-Indian Institute of Environment Management, Nerul, Navi Mumbai.
- (xxix) National Workshop on Soft Computing, Machine Learning and Bioinformatics applications (17-19 Nov, 2004) Department of Computer Science, Jamia Millia Islamia, New Delhi
- (xxx) National Symposium on Intellectual Property Rights and Indian Germplasm Resources: Rights and Indian Challenges, (20-21 October, 2000), Department of Biosciences, Jamia Millia Islamia, New Delhi

### **Academic Staff College Orientation/Refresher Course attended/coordinated**

<b>Name of the Course/ Summer School</b>	<b>Place</b>	<b>Duration</b>	<b>Sponsoring Agency</b>
94 <sup>th</sup> Orientation Programme (Participated)	Academic Staff Collage, Jamia Millia Islamia	18 October to 16 November 2010	UGC
1 <sup>st</sup> 3-Week Refresher Course in Basic Sciences (Interdisciplinary) (Participated)	Academic Staff Collage, Jamia Millia Islamia	6 May to 27 May 2011	UGC
3 <sup>rd</sup> 3-Week Refresher Course in Basic Sciences (Interdisciplinary) (Co-ordinated)	Academic Staff Collage, Jamia Millia Islamia	6 May to 27 May 2014	UGC
5 <sup>th</sup> 3-Week Refresher Course in Basic Sciences (Interdisciplinary)	Human Resources Development Centre, Jamia	5 May to 25 May 2015	UGC

(Participated)	Millia Islamia, New Delhi-110025		
6 <sup>th</sup> 3 week Refresher Course in Basic Sciences (Interdisciplinary)	UGC-Human Resource Development Centre, Jamia Millia Islamia, New Delhi.	26 September 2018 to 17 October, 2018	UGC
9 <sup>th</sup> 2 week Online Refresher Course in Basic Sciences (Interdisciplinary)	UGC-Human Resource Development Centre, Jamia Millia Islamia, New Delhi.	5 October 2021 to 21, 2021 October 2021	UGC

**Teaching Experience:** I have a vast teaching experience of more than 12 years, which includes course work teaching of Ph.D., M.Phil. (Interdisciplinary Sciences); regular teaching in Integrated M.Sc. in bioinformatics & biotechnology, M.Sc. Biotechnology, M.Sc. Bioinformatics, M.Sc. Biophysics, B.Sc. Biotechnology, B. Sc. Biosciences.

**Other Activities:**

1. Team Manager, Boys Basketball Team, Centre for Interdisciplinary Research in Basic Sciences.
2. Team Manager, Girls Basketball Team, Centre for Interdisciplinary Research in Basic Sciences.

The Girls Basketball Team became the Jamia Champion successively for two years.

***We have contributed to the problems relating to the "protein folding", namely:***

1. Determination of protein stability ( $\Delta G^0$ , the standard Gibbs free energy change) under physiological condition (dilute aqueous buffer at 25 °C)
2. Determination of protein stability in the presence of crowding agents that mimic the environment of the protein in the cell
3. Development of excluded volume theory that explains how additives can affect protein stability
4. Mechanism of stabilization of proteins by naturally occurring osmolytes
5. Characterization of folding intermediates such as molten globule and pre-molten globule
6. Prediction of protein stability and function of hypothetical proteins using tools of bioinformatics
7. Molecular docking and MD simulation studies