
DR. IFTEKHAR MD HASSAN



Departmental Address:

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OBJECTIVE

I am an Assistant Professor in the Department of Zoology, College of Science, King Saud University, Riyadh. Being a scientist, I want to contribute my knowledge in the fields of cancer, clinical toxicology, metabolic disorders and immunology for the betterment of the society. Besides, I am also enthusiastic to share my knowledge and experience with the new generation to prepare them to face upcoming challenges in Biological Sciences. Moreover, I shall try my best to contribute with my knowledge, skills and experience to enhance the reputation and growth of my institute in every possible manner.

PROFILE

- I have been taking **lab classes of graduation and post-graduate (Master) students** for the last three years for physiology and endocrinology courses in zoology (**ZOO-332, ZOO-432, ZOO-531, ZOO-534**)
- **Principal investigator** of one project (م ص-36-67) and **co-investigator** (ا ت -٣٥-١٩) in another projects (**both KCAST**).
- **Doctoral experience** in amelioration of anticancer drug, cisplatin induced toxicities by riboflavin *in vivo* within collaborative laboratory environment covering research areas including oncology, stress biology, photobiology, clinical investigation and histopathology.
- Publication record includes over **24 research papers** in the high impact factor *ISI-indexed* journals of International repute.
- Have proposed a **novel interaction mechanism between cisplatin and riboflavin *in vivo*** leading to blunting of cisplatin-induced side effects, a chemoradiotherapy based strategy to improve cancer treatment with better efficacy and fewer side effects.
- Have been in the team **exploring pro-oxidant potential and mechanism of the major anticancer drugs** like Methotrexate, 5-Fluorouracil and cyclophosphamide *in vitro* in the presence of riboflavin and copper under photoillumination.
- Have contributed in **exploring pharmaceutical and antioxidant aspects of natural toxins** (e.g.- Samsum ant venom).

ACADEMIC QUALIFICATIONS

- September, 2013- **Assistant Professor** and post-doc researcher in the Department of Zoology, King Saud University, Riyadh, Saudi Arabia.
- 2012 **Ph.D.** (Biochemistry) awarded
Thesis title: '*In vivo* studies on riboflavin-cisplatin interactions'
Advisor: Prof. Imrana Naseem *from* Aligarh Muslim University, Aligarh (India)
- 2007 **Mater of Science** (Specialization in **Biochemistry**) *with* 71%
Dissertation Title: "Effect of photoilluminated riboflavin onto cisplatin induced oxidative stress *in vivo*".
Advisor: Prof. Imrana Naseem *from* Aligarh Muslim University, Aligarh (India)
- 2005 **Bachelor in Science** (Honor) in Biochemistry *with* 70.6%
from Aligarh Muslim University, Aligarh (India)
- 2001 **Intermediate in Science** (Physics, Chemistry and Biology stream) *with* 87.5%
from Ram Mohun Roy Seminary +2, Patna (Bihar Intermediate Education Council, Bihar, India)
- 1999 **Matriculation** *with* 73.2%
from National High School, Kishanganj (Bihar School Examination Board, Patna, Bihar, India)

PROFESSIONAL QUALIFICATIONS

- **UGC-BSR Scholarship** (April, 2010-March, 2012) for being among top 5 research students in the department from the University Grants Commission, India.
- **UGC Non-NET fellowship** (November, 2007-March, 2010) from the University Grants Commission, India.
- Qualified **National level graduate aptitude test in Engineering (GATE)** in 2007 with 86.68 percentile conducted by Internationally renowned Indian Institute of Technology (IIT), Government of India.
- Qualified written test (2005) of **National Center for Biological Sciences, Bengaluru, India.**
- **Student's scholarship** (2003, 2004), Aligarh Muslim University, Aligarh, India.
- **Bharat Seva Trust Scholarship** (2002), Government of U.P., India.
- **Numerous district and state level awards** during Intermediate and matriculation

TEACHING EXPERIENCE

- Working as **an assistant professor teaching graduate and post graduate students** of life science and allied sciences (**for lab courses: ZOO-332, ZOO-432, ZOO-531, ZOO-534**) in King Saud University since September, **2013**.
- Have been **a teaching assistant and research associate** in Department of Biochemistry, Faculty of Life Sciences, Aligarh Muslim University, Aligarh, U.P., India (**2010-2012**).

- Have taken **theory and practical classes (assigned to Prof. Imrana Naseem)** at graduation and post-graduation level at Department of Biochemistry, Faculty of Life Sciences, Aligarh Muslim University, Aligarh, U.P., India **(2010-2012)**.
- Have **trained 4 post-graduate students in their minor research projects** assigned to Prof. Imrana Naseem at Department of Biochemistry, Faculty of Life Sciences, Aligarh Muslim University, Aligarh, U.P., India **(2009-2012)**.

RESEARCH PUBLICATIONS

Research Articles (in *International* peer-reviewed journals)

After Joining King Saud University

1. Broad-spectrum inhibition of AHL-regulated virulence factors and biofilms by sub-inhibitory concentrations of ceftazidime. FM Husain, I Ahmad, MH Baig, MS Khan, MS Khan, **Iftekhar Hassan** and Nasser Abdulatif Al-Shabib. *RSC Adv.*, **2016**; 6: 27952-27962. DOI: 10.1039/C6RA02704K (**Impact factor: 3.81**)
2. Targeted nano-delivery of novel omega-3 conjugate against hepatocellular carcinoma: Regulating COX-2/bcl-2 expression in an animal model. Azmat Ali Khan, Amer M. Alanazi, Mumtaz Jabeen, **Iftekhar Hassan**, Mashooq Ahmad Bhat. *Biomedicine & Pharmacotherapy*. 81; 2016: 394–401 (**Impact factor:2.3**)
3. Protective effect of riboflavin on cisplatin induced toxicities: A gender-dependent study. I Naseem, **I Hassan***(as **Corresponding author**), IM Alhazza, S Chibber - *Journal of Trace Elements in Medicine and Biology*, *J Trace Elem Med Biol.* **2015**; 29:303-14 (**Impact factor: 2.32, Citations:4**)
4. Riboflavin Arrests Cisplatin-Induced Neurotoxicity by Ameliorating Cellular Damage in Dorsal Root Ganglion Cells. M Salman, I Naseem, **I Hassan** *(as **Corresponding author**), AA Khan, IM Alhazza - *BioMed research international*, **2015**, Article ID 603543, 5 pages. <http://dx.doi.org/10.1155/2015/603543> (**Impact factor: 1.53**)
5. Camel milk peptide improves wound healing in diabetic rats by orchestrating the redox status and immune response. H Ebaid, B Abdel-Salam, **I Hassan**, J Al-Tamimi, M Ali , I Alhazza. *Lipids in Health and Disease*. **2015**; 14:132. DOI: 10.1186/s12944-015-0136-9 (**Impact factor: 2.21**)

6. Antigenotoxic and Antioxidative Effects of Novel Anticancer Conjugate on Doxorubicin Induced Toxicity in Mice. M Jabeen, MA Amer, **I Hassan**, M Afzal, A Azmat. Lat Am J Pharm. **2015**; 34(1):101-108 (*Impact factor: 0.35*)
7. Zinc improves the immune function and the proliferation of lymphocytes in Cadmium-treated rats. Hossam Ebaid, **Iftekhar Hassan**, Samir Bashandy, Nael Abu Taha, Amer Mahmood, Suliman Alomar, Ibrahim Alhazza, Ashraf Mashaly, Ahmed Rady. Centr Eur J Immunol **2014**; 39 (4): 441-448. (*Impact factor 0.35, Citations:1*)
8. Antioxidant bioactivity of samsun ant (*Pachycondyla sennaarensis*) venom protects against CCl₄-induced nephrotoxicity in mice. Hossam Ebaid, Jameel Al-Tamimi, **Iftekhar Hassan**, Ibrahim M Alhazza, Mohamed Al-Khalifa: *Oxidative Medicine and Cellular Longevity*. Volume **2014**, Article ID 763061, 8 pages
<http://dx.doi.org/10.1155/2014/763061>. (*Impact Factor: 3.51; Citations: 2*)
9. SAV exerts anti-tumor activity via triggering immunomodulation against cancer: *in vitro* as well as *in vivo*. Hossam Ebaid, Jameel Al-Tamimi, **Iftekhar Hassan**, Ibrahim M Alhazza et al. (manuscript under communication, **2016**)
10. Cutaneous wound healing in older and diabetic rat models: A preliminary study on four newly prepared hyaluronic acid compounds. Hossam Ebaid, Jameel Al-Tamimi, **Iftekhar Hassan**, Ibrahim M Alhazza et al. (manuscript under communication, **2016**)
11. Biosurfactant nanofibers for cleanup of oil spill with minimal side effects on rat animal models. Hossam Ebaid, Jameel Al-Tamimi, **Iftekhar Hassan**, Ibrahim M Alhazza et al. (manuscript under communication, **2016**)
12. Higher expression of CD80 and CD86 on polymorphnuclear neutrophils in the remodeling phase of wound healing in diabetic rats: An improvement by a small peptide extracted from Saudi camel milk. Hossam Ebaid, Jameel Al-Tamimi, **Iftekhar Hassan**, Ibrahim M Alhazza et al. (manuscript in preparation, **2016**)

Review Articles (in *International* peer-reviewed journals)

13. Recent updates on the dynamic association between oxidative stress and neurodegenerative disorders. A. Khan, Taqi; **Hassan, Iftekhar**; Ahmad, Ausaf; Perveen, Asma; Aman, Shazia; Quddusi,

Saima; M. Alhazza, Ibrahim; M. Ashraf, Ghulam; Aliev, Gjurnakch. CNS & Neurological Disorders - Drug Targets (Formerly Current Drug Targets - CNS & Neurological Disorders) **2016**; 15(3): 310-320 (**Impact factor: 3.1**)

14. An Overview on Global Trends in Nanotechnological Approaches for Alzheimer Therapy. Shams Tabrez, Nasimudeen R Jabir, CK Firoz, Saheem Ahmad, **Iftekhar Hassan**, Athanasios Alexiou, Mohammad Amjad Kamal. Current Drug Metabolism. **2015**; 16,719-727 (**Impact factor: 3.5**; **Citations: 2**)

15. Certain Phase I and II Enzymes as Toxicity Biomarker: An Overview. **Iftekhar Hassan**, Nasimudeen R. Jabir, Saheem Ahmad, Aaliya Shah, Shams Tabrez. Water, Air, & Soil Pollution **2015**; 226:153. (**Impact factor: 1.55**)

16. Protein misfolding and aggregation in Alzheimer's disease and type 2 diabetes mellitus. Ashraf GM, Greig NH, Khan TA, **Hassan I**, Tabrez S, Shakil S, Sheikh IA, Zaidi SK, Akram M, Jabir NR, Firoz CK, Naeem A, Alhazza IM, Damanhour GA, Kamal MA. CNS Neurol Disord Drug Targets. **2014**;13(7):1280-93. (**Impact factor: 3.1**; **Citations: 12**)

17. Linkage of stress with Degenerative Neurological and Neuromuscular Disease. Ghulam Md Ashraf, Taqi Ahmad Khan[#], **Iftekhar Hassan**[#], Ibrahim M. Alhazza, Mohammad Amjad Kamal (In press)

Publications before joining King Saud University

Research Articles (in International peer-reviewed journals)

18. Riboflavin ameliorates cisplatin induced toxicities under photoillumination. **Iftekhar Hassan**, Sandesh Chibber, Aijaz A Khan, Imrana Naseem. *Plos One* 7(5):(2012) e36273. [doi:10.1371/journal.pone.0036273]. (**Impact Factor: 3.2**; **Citations: 23**)

19. Ameliorative effect of riboflavin on the cisplatin induced nephrotoxicity and hepatotoxicity under photoillumination. **Hassan I**, Chibber S and Naseem I. *Food and Chemical Toxicology* 48 (2010) 2052–2058. (**Impact Factor: 2.8**; **Citations: 25**)

20. Riboflavin alleviates cisplatin induced neurotoxicity in vivo under photoillumination. **Iftekhar Hassan**, Sandesh Chibber, Aijaz A Khan, Imrana Naseem. *Cancer Biotherapy and Radiopharmaceuticals* , 28 (2013) 160-168. (**Impact Factor: 1.7; Citations: 11**)
21. White light augments chemotherapeutic potential of cyclophosphamide: An in vitro study. Sandesh Chibber, **Iftekhar Hassan**, Maria Salman, Imrana Naseem. *Biometals* 26(2013) 23-31. (Impact factor: 2.5; Citations:1)
22. In vitro pro-oxidant action of Methotrexate in presence of white light. Sandesh Chibber, **Iftekhar Hassan**, Mohd Farhan, Imrana Naseem. *Journal of Photochemistry and Photobiology B: Biology* 104 (2011) 387–393. (**Impact Factor: 2.9; Citations: 7**)
23. White light-mediated Cu (II)–5FU interaction augments the chemotherapeutic potential of 5-FU: an in vitro study. Sandesh Chibber, Mohd Farhan, **Iftekhar Hassan**, Imrana Naseem. *Tumour Biology* 32 (2011) 881-892. (**Impact Factor: 3.6; Citations: 8**)
24. Light-mediated interaction of methotrexate with transition metal Cu (II). Sandesh Chibber, **Iftekhar Hassan**, Mohd Farhan, Imrana Naseem. *Medicinal Chemistry Research* 21 (2012) 2379-2387. (**Impact Factor: 1.4; Citations: 6**)
25. Light mediated Interaction of Methotrexate with Riboflavin: A spectroscopic study. Sandesh Chibber, **Iftekhar Hassan**, Imrana Naseem. (Under communication)

Review Articles (in International peer-reviewed journals)

26. Novel aspect of chemophototherapy in treatment of cancer. Sandesh Chibber, **Iftekhar Hassan**, Imrana Naseem. *Tumour Biology* 33 (2012) 701-706. (**Impact Factor: 3.2; Citations: 9**)
27. Vitamin B2: a promising adjuvant in cisplatin based chemoradiotherapy by cellular redox management. **Iftekhar Hassan**, Sandesh Chibber, Imrana Naseem. *Food and Chemical Toxicology* 59 (2013)715-723. (**Impact Factor: 2.8; Citations: 10**)

BOOK CHAPTERS

28. Aliev G, Horecky J, Vancova O, Ashraf GM, **Hassan I**, Bragin V, Shevtsova E, Klochkov SG, Kosenko EZ et al. The three vessel occlusion as a model of vascular dementia: oxidative stress and mitochondrial failure as an indicator of brain hypoperfusion. In: Laher, Ismail (Ed.) Systems Biology of Free Radicals and Antioxidants, pp. 2023-2032, Springer Berlin Heidelberg (2014)
29. **Hassan I** and Naseem I. Natural photosensitizer with established anticancer drugs: A novel photodynamic strategy to improve anticancer chemoradiotherapy. (In preparation)

OTHER CURRICULAR ACTIVITIES

Oral Presentations

- ‘Emerging trends in Biological Sciences: Special Emphasis on Neurosciences’ (September 24-25th, 2012) at Interdisciplinary Brain Research Center, Faculty of Medicine, Aligarh Muslim University, Aligarh, India-202002.
- NANO-2 (March 10-12th, 2012), Department of Applied Physics, Z. H. College of Engineering, Aligarh Muslim University, India.
- MAASCON-1, First Annual National Symposium of the Muslim Association for the Advancement of Science (MAAS), Frontiers in Life sciences: Basic and Applied under abstract no. 83 (23-24th October, 2010), Department of Zoology, Aligarh Muslim University, India.

Workshops attended

- National workshop on ‘Scientific/ Research paper writing’ (April 5-7th, 2013) organized by The National Academy of Sciences, India at Mohanlal Sukhadia University, Udaipur, India.
- *International workshop* ‘Liver Fluke: an RNAi workshop’ (February 11-12th, 2013) combined organized by Queen University of Belfast (UK) and Aligarh Muslim University, India.
- ‘Interaction Programme on Research Methodology in Biological Sciences’ (December 14th to 6th of January, 2011) organized by UGC Academic Staff College, Aligarh Muslim University, India.
- ‘EnviroSense’ (10th October, 2010) organized by Z.H. College of Engineering and Technology, Aligarh Muslim University, India.
- ‘Recent Advances in Biochemistry’ (February 8th to 9th, 2010) organized by UGC -Academic Staff College, Aligarh Muslim University, India.
- Comet Assay training (October 26 -30th, 2010) at Indian Institute for Toxicological Research (IITR), Lucknow, India.

Poster Presentations

- Attended “International Conference on recent advances in chemical sciences” organized by Department of Chemistry, Faculty of Sciences, Aligarh Muslim University, Aligarh 202002, U. P., India (March 29-30, 2016).
- 3rd Annual Meeting of Indian Academy of Biomedical Sciences & Symposium on ‘Modern Trends in Human Diseases’ organised by Department of Biochemistry, Faculty of Medicine, J. N. Medical College, Aligarh Muslim University, Aligarh 202002, U. P., India (December 14-15, 2013).
- 2nd prize for poster presentation in ‘Emerging trends in Biological Sciences: Special Emphasis on Neurosciences’ at Interdisciplinary Brain Research Center, Faculty of Medicine, Aligarh Muslim University, Aligarh, India-202002 (*September 24-25th, 2012*).
- 10th Annual Research Festival ‘Biospark-2012’ organized by School of Life Sciences, Jawaharlal Nehru University, New Delhi, India (*March 14-15th, 2012*).
- National Symposium on ‘Current Trends in Biochemical, Biomedical and Environmental Sciences’ under the auspices of UGC-DRS II Programme organized by Department of Biochemistry, Life Sciences, Aligarh Muslim University, Aligarh, U.P., India (*February 22nd, 2011*).
- National Symposium on ‘Recent Trends in Enzyme Technology, Toxicology and Bioinformatics’ under the auspices of UGC-DRS II Programme organized by Department of Biochemistry, Life Sciences, Aligarh Muslim University, Aligarh, U.P., India (*March 3rd, 2010*).
- *International SFRR Satellite Symposium* ‘Free Radicals in Health and Disease’ under the auspices of SFRR and UGC-DRS II Programme under poster no. 38 organized by Department of Biochemistry, Life Sciences, Aligarh Muslim University, Aligarh, U.P., India, (*March 17-18th, 2009*).
- ‘Advances in Clinical Biochemistry-Biomarkers, Molecular Diagnosis and Quality Assurances & 1st U.P. Chapter of Association of Clinical Biochemists of India (UPACBICON 2008)’ organized by Department of Biochemistry, JNMCH, Aligarh Muslim University, Aligarh, U.P, India (*November 15-16th, 2008*).
- National Symposium on ‘Recent Advances in Biochemistry and Allied Sciences’ under the auspices of UGC-DRS-II Programme organized by Department of Biochemistry, Life Sciences, Aligarh Muslim University, Aligarh, U.P., India (*March 25th, 2008*).
- ‘*International Symposium on the Preventive and Mechanistic Mutagenesis & XXXIII EMSI Annual Meeting*’ under *Abstract No. P-44* organized by Department of Agricultural Microbiology, Aligarh Muslim University, Aligarh, U.P, India, (*January 1-3rd, 2008*).

PERSONAL INFORMATION

Name	:	Dr. Iftekhar Hassan
Father’s name	:	Md. Hassan
Date of birth	:	14 th January, 1985

Gender : Male
Nationality : Indian
Language proficiency: English, Hindi and Urdu.
Soft skills: MS office, Statistical Analysis, Adobe, Expert with internet and browsing.
Permanent Address: Kishanganj, Bihar, India-855108.

REFEREES

On request.

I, hereby declare that all information furnished above is true to the best of my knowledge.

(Dr. Iftekhar Md Hassan)