

# CV-Dr. Ghulam Md Ashraf

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**Dr. Ghulam Md Ashraf, PhD**

**Associate Professor**

King Fahd Medical Research Centre

King Abdulaziz University, P.O. Box 80216, Jeddah 21589, Saudi Arabia

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**Linkedin:** <https://www.linkedin.com/in/ghulam-md-a-b31a88158/>

**Researchgate:** [https://www.researchgate.net/profile/Ghulam\\_Ashraf2](https://www.researchgate.net/profile/Ghulam_Ashraf2)

**Google scholar:** <http://scholar.google.com/citations?user=-fOCOTQAAAAJ&hl=en>

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**Gender:** Male

**Nationality:** Indian

**Languages:** English, Arabic, Hindi

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<b>Publications</b>	<b>138</b>
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<b>Citations</b>	<b>1374</b>
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<b>h-index</b>	<b>19</b>
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<b>i10-index</b>	<b>36</b>
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<b>Handling Editor and EBM in Scientific Reports</b>
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<b>Associate Editor in Frontiers in Aging Neuroscience</b>
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<b>Editorial board member in more than 10 reputed journals</b>
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**RESEARCH EXPERTISE:** Proteomics, Neurology, Cancer, Nanotechnology.

## CURRENT POSITIONS:

**Oct 2017-Now:** **Associate Professor**, King Fahd Medical Research Centre, King Abdulaziz University, Jeddah, Saudi Arabia.

*Responsibilities: Research and Teaching*

*Subjects taught: Biochemistry, Structural Biology, Neurology, Medical Lab Technology, Recombinant DNA Technology.*

**Oct 2017-Now:** **Research Consultant/Supervisor**, Glocal University, Saharanpur, India.

**Jan 2016-Now:** **Honorary Faculty Member**, Novel Global Community Educational Foundation (NGCEF), Australia.

## PAST POSITIONS:

**Jan 2012-Oct 2017:** **Assistant Professor**, King Fahd Medical Research Centre, King Abdulaziz University, Jeddah, Saudi Arabia.

*Responsibilities: Research and Teaching*

*Subjects taught: Biochemistry, Structural Biology, Neurology, Medical Lab Technology, Recombinant DNA Technology.*

**July 2010-Jan 2012:** **Lecturer**, Amity Institute of Biotechnology, Amity University Uttar Pradesh, Lucknow, India.

*Responsibilities: Teaching and Research*

*Subjects taught: Biochemistry, Enzymology, Enzyme Technology, Intellectual Property Rights, Molecular Biology, Recombinant DNA Technology, Structural Biology.*

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## EDUCATION:

**2006-2010:** PhD (Biochemistry), Aligarh Muslim University, Uttar Pradesh, India.

*Thesis title: Purification and characterization of soluble  $\beta$ -galactoside binding lectins from mammalian heart.*

**2004-2006:** M.Sc. (Biochemistry), Aligarh Muslim University, Uttar Pradesh, India.

**2001-2004:** B.Sc. (Biochemistry), Aligarh Muslim University, Uttar Pradesh, India.

## ADDITIONAL QUALIFICATION:

**2006-2009:** PGDBA in Operations Management, Symbiosis Centre of Distance Learning, Pune, India.

## RESEARCH PROJECTS:

### Ongoing:

- 1. 2018-2019:** Principal investigator in General Research Program (Grant no. G -1439 - 141 - 670) titled '*Computational Analysis of Noncoding RNAs in Alzheimer's Disease*' funded by the **Deanship of Scientific Research (DSR), King Abdulaziz University**, Jeddah, Saudi Arabia.
- 2. 2017-2018:** Principal investigator in General Research Program (Grant no. G -1438 - 141 - 417) titled '*Assessment of alterations in the expression pattern of Galectin-3 in atherosclerotic patients*' funded by the **Deanship of Scientific Research (DSR), King Abdulaziz University**, Jeddah, Saudi Arabia.
- 3. 2014-2018:** Principal investigator in Distinct Research Study (Grant no. 141-954-D1435) titled '*A comparative study of buffalo heart galectin-1 with goat heart galectin-1 to identify a preferred probe for molecular recognition studies*' funded by the **Deanship of Scientific Research (DSR), King Abdulaziz University**, Jeddah, Saudi Arabia.
- 4. 2014-2018:** Co-investigator in Research Project (Grant no. 12-BIO-3082-03) titled '*Structural and functional studies of lactoperoxidase, an antimicrobial protein from camel milk*' funded by **Strategic Technologies Research Program, King Abdulaziz City for Science and Technology (KACST)**, Riyadh, Saudi Arabia.

### Completed:

- 5. 2014-2018:** Principal investigator in General Research Program (Grant no. G -1436 - 141 - 412) titled '*Studies on immunological, oxidative burst and degranulation properties of a galectin-1 purified from goat (*Capra hircus*) heart*' funded by the **Deanship of Scientific Research (DSR), King Abdulaziz University**, Jeddah, Saudi Arabia.
- 6. 2014-2018:** Principal investigator in Distinct Research Study (Grant no. 141-764-D1435) titled '*Investigation of Gal-3 expression pattern in serum and cerebrospinal fluid of patients suffering from neurodegenerative disorders*' funded by the **Deanship of Scientific Research (DSR), King Abdulaziz University**, Jeddah, Saudi Arabia.

7. 2014-2018: Co-investigator in General Research Program (Grant no. G - 1435 - 141 - 528) titled '*A putative associations of Interleukin-1 $\beta$  and interleukin-10 gene polymorphism with coronary artery diseases in Saudi population*' funded by the **Deanship of Scientific Research (DSR), King Abdulaziz University, Jeddah, Saudi Arabia.**

### PUBLICATIONS:

\*Corresponding author

#Equally contributing author

#### **Books:**

1. Ashraf GM\* Galectins: A research Overview, **LAP LAMBERT Academic Publishing (2011). ISBN-10: 3843388628, ISBN-13: 978-384338862.**  
<http://www.amazon.com/Galectins-Research-Overview-Ghulam-Ashraf/dp/3843388628>
2. Ashraf GM\*, Sheikh IA. (Ed.), **Advances in Protein Chemistry, OMICS Group eBooks (2014). ISBN: 978-1-63278-002-7. DOI: 10.4172/978-1-63278-002-7-003.**  
<http://www.esciencecentral.org/ebooks/advances-in-protein-chemistry/>

#### **Book Chapters:**

3. Ansari AA, Shaikh S, Muteeb G, Rizvi SMD, Shakil S, Alam A, Tripathi R, Ghazal F, Rehman A, Ali SZ, Pandey AK, **Ashraf GM.** Role of matrix metalloproteinases in cancer. In **Advances in Protein Chemistry (Ashraf GM. and Sheikh IA. ed.), OMICS Group eBooks (2013).**
4. Aliev G, Horecký J, Vančová O, **Ashraf GM,** Hassan I, Bragin V, Bragin I, Shevtsova E, Klochkov S, Kosenko EA, Cacabelos R, Bachurin SO, Benberin VV, Kaminsky YG. The three-vessel occlusion as a model of vascular dementia – oxidative stress and mitochondrial failure as an indicator of brain hypoperfusion. In **Systems Biology of Free Radicals and Antioxidants (Laher, I. ed.), Springer Berlin Heidelberg. (2014) pp 2023-2032.**
5. Aliev G, **Ashraf GM,** Horecký J, Vančová O, Gvozdjáková A, Kucharská J, Palacios HH, Li Y, Perveen A, Khan TA, Bragin V, Bragin I, Shevtsova E, Klochkov SG, Kosenko EA, Cacabelos R, Kaminsky YG, Sudakov KV, Benberin VV, Bachurin SO. Potential preventive effects of coenzyme Q and creatine supplementation on brain energy metabolism in rats exposed to chronic cerebral hypoperfusion. In **Systems Biology of Free Radicals and Antioxidants (Laher, I. ed.), Springer Berlin Heidelberg. (2014) pp 2033-2048.**
6. Aliev G, Burzynski G, **Ashraf GM,** Jabir NR, Cacabelos R, Benberin VV, Burzynski SR. Implication of oxidative stress-induced oncogenic signaling pathways as a treatment strategy for neurodegeneration and cancer. In **Systems Biology of Free Radicals and Antioxidants (Laher, I. ed.), Springer Berlin Heidelberg. (2014) pp 2325-2347.**
7. Bandy ZZ; **Ashraf GM\***. Protein-Protein interactions as potential targets of drug designing. *Advances in Biochemistry & Applications in Medicine. Open Access eBooks. (2018) pp 1-15.*
8. Bandy ZZ; **Ashraf GM\***. Recent updates on biomarkers of gastric cancer. *Advances in Biochemistry & Applications in Medicine. Open Access eBooks. (2018) pp 1-11.*

9. Yarla NS, Sukocheva O, Peluso I, Putta S, Bramhachari PV, Yadala R, Tiwari DK, Jagarlamudi S, Scotti L, Scotti MT, Reale M, Kamal MA, Ashraf GM, Sharma B, Parvathaneni M, Rao CV, Mannarapu M, Bishayee A. Targeting arachidonic acid pathway-associated NF- $\kappa$ B in pancreatic cancer. In **Role of Transcription Factors in Gastrointestinal Malignancies**, Springer (Nagaraju, GP, Bramhachari, PV. ed.). (2018) pp.401-409.
10. Korada SK, Yarla NS, Putta S, Hanumakonda AS, Lakkappa DB, Bishayee A, Scotti L, Scotti MT, Aliev G, Kamal MA, Lu DY, Aycan MBY, Reggi R, Palmery M, Ashraf GM, Alexiou A, Peluso I. Chapter 1 – A critical appraisal of different food safety and quality management tools to accomplish food safety. **Food Safety and Preservation-Modern Biological Approaches to Improving Consumer Health**, Academic Press (2018) (Grumezescu AM, Holban AM. ed.), pp 1–12.

### Editorial:

11. Ashraf GM\*. New emerging trends in protein and peptide based therapeutic approaches Part I, **Current Protein & Peptide Science** (2018) 19(9):840.
12. Ashraf GM\*. New emerging trends in protein and peptide based therapeutic approaches Part II, **Current Protein & Peptide Science** (2018) 19(10):936.

### Abstract:

13. Sheikh IA, Kamal MA, Jiffri EH, Ashraf GM, Beg MA. Isolation and purification of antimicrobial milk proteins. **3rd International Genomic Medicine Conference (3rd IGMC 2015): Jeddah, Kingdom of Saudi Arabia. 30 November - 3 December 2015.** BMC Genomics 17(S6) July 2016.

### Poster:

14. Ashraf GM\*. Galectin-1 as potential target for diagnostics and therapeutics: involvement in free radical induced oxidative stress-mediated cardiovascular disorders. **International Conference & Exhibition on Clinical Research Dermatology, Ophthalmology & Cardiology organized by OMICS Group Conferences on 5-6 July 2011 San Francisco, USA.**

### Data:

15. **Supplementary information:** Khan MF, Ansari AH, Hameedullah M, Ahmad E, Husain FM, Zia Q, Baig U, Zaheer MR, Alam MM, Khan AM, AlOthman ZA, Ahmad I, Ashraf GM\*, Aliev G. Sol-gel synthesis of thorn-like ZnO nanoparticles endorsing mechanical stirring effect and their antimicrobial activities: Potential role as nano-antibiotics. **Scientific Reports**, (2016) 6:27689 | DOI: 10.1038/srep27689. PMID: 27349836 [Impact Factor: 5.228]
16. Ashraf GM\*. (2014) Carbohydrate recognition domain (CRD) sequence of goat heart galectin-1 (GHG-1). **C0HJR3 - LEG1\_CAPHI** (<http://www.uniprot.org/uniprot/C0HJR3>)
17. Ashraf GM\*. (2014) Carbohydrate recognition domain (CRD) sequence of buffalo heart galectin-1 (B<sub>H</sub>HG-1). **C0HJQ1 - LEG1\_BUBBU** (<http://www.uniprot.org/uniprot/C0HJQ1>)

### Review articles:

18. Hasan SS, Ashraf GM, Banu N. Galectins – Potential targets for cancer therapy. **Cancer Letters**, (2007) 253(1):25-33. PMID: 17207926 [Impact Factor: 6.375]

19. Ali R, Mirza Z, **Ashraf GM**, Kamal MA, Ansari SA, Damanhoury GA, Abuzenadah AM, Chaudhary AG, Sheikh IA. New anticancer agents: recent developments in tumor therapy. **Anticancer Research** (2012) 32(7):2999-3005. PMID: 22753764 [**Impact Factor: 1.895**]
20. Jabir NR, Tabrez S, **Ashraf GM**, Shakil S, Damanhoury GA, Kamal MA. Nanotechnology-based approaches in anticancer research. **International Journal of Nanomedicine** (2012) 7:4391-4408. PMID: 22927757 [**Impact Factor: 4.3**]
21. Tabrez S, Priyadarshini M, Urooj M, Shakil S, **Ashraf GM**, Khan MS, Kamal MA, Alam Q, Jabir NR, Abuzenadah AM, Chaudhary AG, Damanhoury GA. Cancer chemoprevention by polyphenols and their potential application as nanomedicine. **Journal of environmental science and health. Part C** (2013) 31(1):67-98. PMID: 23534395 [**Impact Factor: 4.0**]
22. Shakil S, Ahmad A, Tabrez S, **Ashraf GM**, Khan AAP, Abuzenadah AM, Kamal MA. A 'region-specific treatment strategy' to address the problem of drug resistance by NDM-1-producing pathogens. **Enzyme Engineering** (2013) 2:1-3. PMID: NA [**Impact Factor:**]
23. Aliev G, **Ashraf GM**, Kaminsky YG, Sheikh IA, Sudakov SK, Yakhno NN, Benberin VV, Bachurin SO. Implication of the nutritional and nonnutritional factors in the context of preservation of cognitive performance in patients with dementia/depression and Alzheimer disease. **American Journal of Alzheimer's Disease and Other Dementias** (2013) 28(7):660-670. PMID: 24085255 [**Impact Factor: 1.864**]
24. Mirza Z, Ali A, **Ashraf GM**, Kamal MA, Abuzenadah AM, Choudhary AG, Damanhoury GA, Sheikh IA. Proteomics approaches to understand linkage between Alzheimer's disease and type 2 diabetes mellitus. **CNS & Neurological Disorders - Drug Targets** (2014) 13(2):213-225. PMID: 24059316 [**Impact Factor: 2.506**]
25. **Ashraf GM**\*,#, Greig NH #, Khan TA, Hassan I, Tabrez S, Shakil S, Sheikh I.A, Zaidi SK, Akram M, Jabir NR, Firoz CK, Naeem A, Alhazza IM, Damanhoury GA, Kamal MA. Protein misfolding and aggregation in Alzheimer's disease and type 2 diabetes mellitus. **CNS & Neurological Disorders- Drug Targets** (2014) 13(7):1280-1293. PMID: 25230234 [**Impact Factor: 2.506**]
26. Aliev G, Priyadarshini M, Reddy VP, Grieg NH, Kaminsky Y, Cacabelos R, **Ashraf GM**, Jabir NR, Kamal MA, Nikolenko VN, Zamyatnin AA Jr, Benberin VV, Bachurin SO. Oxidative stress mediated mitochondrial and vascular lesions as markers in the pathogenesis of Alzheimer disease. **Current Medicinal Chemistry** (2014) 21(19):2208-2217. PMID: 24372221 [**Impact Factor: 3.249**]
27. Khan NM, Ahmad A, Tiwari RK, Kamal MA, Mushtaq G, **Ashraf GM**\*. Current challenges to overcome in the management of type 2 diabetes mellitus and associated neurological disorders. **CNS & Neurological Disorders - Drug Targets** (2014) 13(8):1440-1457. PMID: 25345504 [**Impact Factor: 2.506**]
28. Ali A, Sheikh IA, Mirza Z, Gan SH, Kamal MA, Abuzenadah AM, Damanhoury GA, **Ashraf GM**\*. Application of proteomic tools in modern nanotechnological approaches towards effective management of neurodegenerative disorders. **Current Drug Metabolism** (2015) 16(5):376-388. PMID: 25495738 [**Impact Factor: 2.659**]
29. Jabir NR, Firoz CK, Baeesa SS, **Ashraf GM**, Akhtar S, Kamal W, Kamal, MA, Tabrez S. Synopsis on the linkage of Alzheimer's and Parkinson's disease with chronic diseases. **CNS Neuroscience & Therapeutics** (2015) 21(1):1-7. PMID: 25399848 [**Impact Factor: 3.919**]

30. Soursou G, Athanasios A, **Ashraf GM**, Siyal AA, Mushtaq G, Kamal MA. Applications of nanotechnology in diagnostics and therapeutics of Alzheimer's and Parkinson's disease. **Current Drug Metabolism (2015)** 16(8):705-712. PMID: 26560322 [**Impact Factor: 2.659**]
31. **Ashraf GM\***, Tabrez S, Jabir NR, Firoz CK, Ahmad S, Hassan I, Athanasios A, Kamal MA. An overview on global trends in nanotechnological approaches for Alzheimer Therapy. **Current Drug Metabolism (2015)** 16(8):719-727. PMID: 26560324 [**Impact Factor: 2.659**]
32. Fazili NA, Naeem A, **Ashraf GM**, Gan SH, Kamal MA. Therapeutic interventions for the suppression of Alzheimer's disease: quest for a remedy. **Current Drug Metabolism (2015)** 16(5):346-353. PMID: 25429669 [**Impact Factor: 2.659**]
33. **Ashraf GM\***, Perveen A, Zaidi SK, Tabrez S, Shakil S, Ahmad A, Haque R, Ahsan J, Kamal MA, Banu N. Integrating qualitative and quantitative tools for the detection and identification of lectins in major human diseases. **Protein and Peptide Letters (2015)** 22(11):954-962. PMID: 26419242 [**Impact Factor: 0.964**]
34. Athanasios A, Vairaktarakis C, Tsiamis V, **Ashraf GM**. Application of efficient nanoparticles for early diagnosis and treatment of cancer. **Current Drug Metabolism (2015)** 16(8):662-675. PMID: 26560321 [**Impact Factor: 2.659**]
35. Rizvi SMD, Shaikh S, Waseem SMA, Shakil S, Abuzenadah AM, Biswas D, Tabrez S, **Ashraf GM**, Kamal MA. Role of anti-diabetic drugs as therapeutic agents in Alzheimer's disease. **EXCLI Journal (2015)** 14:684-696. PMID: 27152105 [**Impact Factor: 1.462**]
36. Jabir NR, Siddiqui AN, Firoz CK, **Ashraf GM**, Zaidi SK, Khan MS, Shakil S, Alama MN, Kamal MA, Tabrez S. Current updates on therapeutic advances in the management of cardiovascular diseases. **Current Pharmaceutical Design (2016)** 22(5):566-571. PMID: 26601967 [**Impact Factor: 2.611**]
37. **Ashraf GM<sup>#,\*</sup>**, Ali A<sup>1,#</sup>, Tabrez S, Zaidi SK, Shakil S, Alam MZ, Rehan M, Aliev G. Linkage of stress with neuromuscular disorders. **CNS & Neurological Disorders – Drug Targets (2016)** 15(3):321-328. PMID: 26831261 [**Impact Factor: 2.506**]
38. Zia Q, Azhar A, Kamal MA, Aliev G, Owais M, **Ashraf GM\***. Super aggregated form of Amphotericin B: a novel way to increase its therapeutic index. **Current Pharmaceutical Design, (2016)** 22(7):792-803. PMID: 26648472 [**Impact Factor: 2.611**]
39. Chibber S, Athanasios A, Alama MN, Barreto GE, Aliev G, **Ashraf GM\***. A synopsis on the linkage between age-related dementias and vascular disorders. **CNS & Neurological Disorders - Drug Targets, (2016)** 15(2):250-258. PMID: 26831266 [**Impact Factor: 2.506**]
40. Zaheer MR, Gupta A, Iqbal J, Zia Q, Ahmad A, Roohi, Owais M, Setapar SHM, Hashlmon A, **Ashraf GM**, Aliev, G. Molecular mechanisms of drug photodegradation and photosensitization. **Current Pharmaceutical Design, (2016)** 22(7):768-782. PMID: 26675230 [**Impact Factor: 2.611**]
41. **Ashraf GM\***, Chibber S, Mohammad, Zaidi SK, Tabrez S, Ahmad A, Shakil S, Mushtaq G, Baeesa SS, Kamal MA. Recent updates on the association between Alzheimer's disease and vascular dementia. **Medicinal Chemistry, (2016)** 12(3):226-37. PMID: 26527156 [**Impact Factor: 2.331**]
42. Khan TA, Hassan I, Ahmad A, Perveen A, Aman S, Quddusi S, Alhazza I M, **Ashraf GM\***, Aliev G. Recent updates on the dynamic association between oxidative stress and

- neurodegenerative disorders. **CNS & Neurological Disorders - Drug Targets**, (2016) 15(3):310-320. PMID: 26831262 [**Impact Factor: 2.506**]
43. Sheikh IA, Mirza Z, Ali A, Aliev G, **Ashraf GM\***. A proteomics based approach for the identification of gastric cancer related markers. **Current Pharmaceutical Design**, (2016) 22(7):804-811. PMID: 26648471 [**Impact Factor: 2.611**]
44. Putta S, Yarla NS, Peluso I, Tiwari DK, Reddy GV, Giri PV, Kumar N, Malla R, Rachel V, Bramhachari PV, Reddy DRS, Bade R, Mannarapu M, Barreto GE, Lu DY, Tarasov VV, Chubarev VV, Ribeiro FF, Scotti L, Scotti MT, Kamal MA, **Ashraf GM**, Aliev G, Perry G, Sarker SD, Rao CV, Bishayee A. Anthocyanins: multi-target agents for prevention and therapy of chronic diseases. **Current Pharmaceutical Design** (2017) 23(41):6321-6346. PMID: 28741457 [**Impact Factor: 2.611**]
45. Jabir NR, Firoz CK, Khan MS, Zaidi SK, **Ashraf GM**, Shakil S, Kamal MA, Tabrez S. Potential linkage between cerebrovascular diseases and metabolic syndrome. **Current Drug Metabolism**, (2017) 18(1):62-68. PMID: 27515564 [**Impact Factor: 2.659**]
46. Ghotme KA, Barreto GE, Echeverria V, Gonzalez J, Bustos RH, Sanchez M, Leszek J, Yarla NS, Gómez RM, Tarasov VV, **Ashraf GM**, Aliev G. Gliomas: new perspectives in diagnosis, treatment and prognosis. **Current Topics in Medicinal Chemistry**, (2017) 17(12):1438-1447. PMID: 28049399 [**Impact Factor: 2.561**]
47. Azhar A, Ahmad E, Zia Q, Owais M, **Ashraf GM\***. Recent updates on molecular genetic engineering approaches and applications of human therapeutic proteins. **Current Protein and Peptide Science**, (2017) 18(3): 217-232. PMID: 27587281 [**Impact Factor: 2.576**]
48. Khan AAP, Khan A, Asiri AM, **Ashraf GM**, Alhogbia BG. Graphene oxide based metallic nanoparticles and their some biological and environmental application. **Current Drug Metabolism** (2017) 18(11):1020-1029. PMID: 29034831 [**Impact Factor: 2.659**]
49. Ansari SA, Satar R, Perveen A, **Ashraf GM\***. Current opinion in Alzheimer's disease therapy by nanotechnology-based approaches. **Current Opinion in Psychiatry**, (2017) 30(2):128-135. PMID: 28009724 [**Impact Factor: 4.020**]
50. **Ashraf GM\***, Perveen A, Zaidi SK, Ahmad A, Shakil S, Firoz CK, Jabir NR, Hassan I, Khan TA, Yarla NS, Tabrez S. Galectins- a potential target for cardiovascular therapy. **Current Vascular Pharmacology**, (2017) 15:296-312. PMID: 28155611 [**Impact Factor: 2.391**]
51. Athanasios A, Charalampos V, Vasileios T, **Ashraf GM\***. Protein-protein interaction (PPI) network: Recent advances in drug discovery. **Current Drug Metabolism**, (2017) 18(1):5-10. PMID: 27809744 [**Impact Factor: 2.659**]
52. Jabir NR, Firoz CK, **Ashraf GM**, Zaidi SK, Shakil S, Kamal MA, Tabrez S. Common therapeutic modalities against diabetes and associated cardiovascular disease. **Current Vascular Pharmacology**, (2017) 15:365-373. PMID: 28056755 [**Impact Factor: 2.391**]
53. Muteeb G, Rehman MT, Ali SZ, Al-Shahrani AM, Kamal MA, **Ashraf GM\***. Phage display technique: a novel medicinal approach to overcome antibiotic resistance by using peptide-based inhibitors against  $\beta$ -lactamases. **Current Drug Metabolism**, (2017) 18(2): 90-95. PMID: 27465983 [**Impact Factor: 2.659**]
54. Azhar A, Ahmad E, Zia Q, Owais M, Rauf MA, **Ashraf GM\***. Recent advances in the development of novel protein scaffolds based therapeutics. **International Journal of**

- Biological Macromolecules** (2017) 102:630-641. PMID: 28412342 [**Impact Factor: 3.671**]
55. Leszek J<sup>#</sup>, **Ashraf GM<sup>#</sup>**, Tse WH, Zhang J, Gąsiorowski K, Ávila-Rodríguez MF, Tarasov VV, Barreto GE, Klochkov SG, Bachurin SO, Aliev G. Nanotechnology for Alzheimer Disease. **Current Alzheimer Research** (2017) 14(11):1182-1189. PMID: 28164767 [**Impact Factor: 2.952**]
56. Roohi, Bano K, Kuddus M, Zaheer MR, Zia Q, Khan MF, **Ashraf GM**, Aliev G. Microbial enzymatic degradation of biodegradable plastics. **Current Pharmaceutical Biotechnology** (2017) 18(5):429-440. PMID: 28545359 [**Impact Factor: 2.459**]
57. Shevtsova EF, Vinogradova DV, Neganova NE, Avila-Rodríguez M, **Ashraf GM**, Barreto GE, Bachurin SO, Aliev G. Mitochondrial permeability transition pore as a suitable target for neuroprotective agents against Alzheimer's disease. **CNS & Neurological Disorders - Drug Targets** (2017) 16, 677-685. PMID: 28440192 [**Impact Factor: 2.506**]
58. Leszek J, Trypka E, Tarasov VV, **Ashraf GM**, Aliev G. Type 3 diabetes mellitus: a novel implication of Alzheimer's disease. **Current Topics in Medicinal Chemistry**, (2017) 17(12):1331-1335. PMID: 28049395 [**Impact Factor: 2.561**]
59. Hoseinzadeh E, Makhdoumi P, Taha P, Hossini H, John Stelling J, Kamal MA, **Ashraf GM\***. A review on nano-antimicrobials: metal nanoparticles, methods, and mechanisms. **Current Drug Metabolism**, (2017) 18(2):120-128. PMID 27908256 [**Impact Factor: 2.659**]
60. Gąsiorowski K, Brokos B, Leszek J, **Ashraf GM**, Aliev G. Insulin resistance in Alzheimer's disease: p53 and microRNAs as important players. **Current Topics in Medicinal Chemistry**, (2017) 17(12):1429-1437. PMID: 28049397 [**Impact Factor: 2.561**]
61. Aziz ZA, Ahmad A, Mohd-Setapar SH, Hassan H, Lokhat D, Kamal MA, **Ashraf GM\***. Recent advances in drug delivery of polymeric nano-micelles. **Current Drug Metabolism**, (2017) 18(1):16-29. PMID: 27654898 [**Impact Factor: 2.659**]
62. Bhat SA, Kamal MA, Yarla NS, **Ashraf GM\***. Synopsis on the management strategies for neurodegenerative disorders: challenges from bench to bedside in successful drug discovery and development. **Current Topics in Medicinal Chemistry**, (2017) 17(12): 1371-1378. PMID: 28017151 [**Impact Factor: 2.561**]
63. Islam Z, Nagampalli RSK, Fatima MT, **Ashraf GM\***. New paradigm in ankyrin repeats: Beyond protein-protein interaction module. **International Journal of Biological Macromolecules** (2018) 109:1164–1173. PMID: 28412342 [**Impact Factor: 3.671**]
64. Tarasov VV, Kudryashov NV, Chubarev VN, Kalinina TS, Barreto GE, **Ashraf GM**, Aliev G. Pharmacological aspects of neuro-immune interactions. **Current Pharmaceutical Design** (2018) 24(1):15-21. PMID: 28875850 [**Impact Factor: 2.611**]
65. Hoseinzadeh E, Taha P, Chiang Wei C, Godini H, **Ashraf GM**, Taghavi M, M Miri. The impact of air pollutants, UV exposure and geographic location on vitamin D deficiency. **Food and Chemical Toxicology** (2018) 113:241-254. PMID: 29409825 [**Impact Factor: 3.778**]



66. Fazal SA, Khan M, Nishi SE, Alam F, Zarin N, Bari MT, **Ashraf GM\***. A clinical update of rheumatoid arthritis and its global economic burden. **Endocrine Metabolic & Immune Disorders-Drug Targets (2018)** 18(2):98-109. PMID: 29141572 [**Impact Factor: 1.897**]
67. Putta S, Peluso I, Yarla NS, Kilari EK, Bishayee A, Lu DY, Barreto GE, **Ashraf GM**, Scotti L, Scotti MT, Singla RK, Alexiou T, Atanasov AG, Tarasov VV, Bramhachari PV, Imandi SB, Chintala M, Sharma B, Reale M, Filosa R, Aliev G, Kamal MA. Diabetes mellitus and male aging: Pharmacotherapeutics and clinical implications. **Current Pharmaceutical Design (2018)** 23(30):4475-4483. PMID: 28831925 [**Impact Factor: 2.611**]
68. Baig MH, Ahmad K, Saeed M, Alharbi AM, Barreto GE, **Ashraf GM**, Choi I. Peptide based therapeutics and their use for the treatment of neurodegenerative and other diseases. **Biomedicine & Pharmacotherapy (2018)** 103:574-581. PMID: 29677544 [**Impact Factor: 2.759**]
69. Sychev DA, **Ashraf GM**, Svistunov AA, Maksimov ML, Tarasov VV, Chubarev VN, Otdelenov VA, Denisenko NP, Barreto GE, Aliev G. The cytochrome CYP 450 isoenzyme and some new opportunities for the prediction of negative drug interaction in vivo. **Drug Design, Development and Therapy (2018)** 12:1147-1156. PMID: 29780235 [**Impact Factor: 2.822**]
70. Brzecka A, Leszek J, **Ashraf GM**, Ejma M, Ávila-Rodríguez MF, Yarla NS, Tarasov VV, Chubarev VN, Samsonova AN, Barreto GE, Aliev G. Sleep disorders associated with Alzheimer's disease: A perspective. **Frontiers in Neuroscience (2018)**. 12:330 PMID: [**Impact Factor: 3.566**]
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### Original research articles:

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### EDITORIAL EXPERIENCE:

1. Editor in the book titled “**Biological, Diagnostic and Therapeutic Advances in Alzheimer's Disease: Non-Pharmacological Therapies for Alzheimer's Disease**”, (Ashraf GM\*, Alexiou A Ed.) Springer (2018-2019).
2. Editor in the book titled “**Advances in Dementia Research**”, (Ashraf GM\*, Uddin MS. Ed.), InTech Open (2018-2019). ISBN: 978-953-51-7733-3.  
<https://mts.intechopen.com/welcome/756e1e2d8da299ec331ee11f37326ada/>
3. Guest Editor in Special Issue titled “**Pharmacological approaches targeting brain cells survival upon a neurodegenerative event**” in the journal *Current Neuropharmacology* (Bentham Science) (2017-2018).
4. Guest Editor in Special Issue titled “**New emerging trends in protein and peptide based therapeutic approaches**” in *Current Protein and Peptide Science* (Bentham Science) (2017-2018).

5. **Associate Editor** in Research Topic titled “**The Alzheimer’s Disease Challenge**” in **Frontiers (2017-2018)**. <http://journal.frontiersin.org/researchtopic/5903/the-alzheimers-disease-challenge>
6. **Editor** in the eBook titled “**Advances in Protein Chemistry**”, (Ashraf GM\*, Sheikh I. Ed.) Omics Group Incorporation, USA (2013). <https://www.esciencecentral.org/ebooks/advances-in-protein-chemistry/>
7. **Editorial Board Member** in **Scientific Reports** (Nature Publishing Group) <http://www.nature.com/srep/about/editorial-board#cancer>
8. **Editorial Board Member** in **Journal of Proteomics** (Elsevier) <https://www.journals.elsevier.com/journal-of-proteomics/editorial-board>
9. **Editorial Board Member** in **Current Protein & Peptide Science** (Bentham Science) <http://www.benthamscience.com/journals/current-protein-and-peptide-science/editorial-board/#top>
10. **Editorial Board Member** in **Frontiers in Pharmacology-ELSI in Science and Genetics** <http://journal.frontiersin.org/journal/all/section/elsi-in-science-and-genetics#editorial-board>
11. **Editorial Board Member** in **Frontiers in Aging Neuroscience-Neurodegeneration** <http://journal.frontiersin.org/journal/all/section/neurodegeneration#editorial-board>
12. **Editorial Board Member** in **The Open Hypertension Journal** (Bentham Science) <https://benthamopen.com/TOHYPERJ/editorial-board/>
13. **Editorial Board Member** in **OMICS Group eBooks** <http://esciencecentral.org/ebooks/ebooks-editorialboard.php>
14. **Editorial Board Member** in **EC Pharmacology and Toxicology** [https://www.econicon.com/editorial\\_popup.php?id=10852](https://www.econicon.com/editorial_popup.php?id=10852)
15. **Editorial & Advisory Board Member** in **Biosciences, Biotechnology Research Asia** <http://www.biotech-asia.org/editorial-board/>

### REVIEWING EXPERIENCE:

1. **PhD thesis** examination of PhD Thesis titled “*Molecular Modeling Studies on Non-Nucleoside HIV-1 Reverse Transcriptase Inhibitors (NNRTIs)*” submitted by Mr. Bilal Nizami under the guidance of Dr Bahareh Honarparvar (University of KwaZulu-Natal, South Africa).
2. **International project** assessment of research proposal for the National Research Foundation titled “*Inhibition of South African HIV protease subtype C (CSA HIV PR) using the potent peptidomimetic inh*” submitted by Dr Bahareh Honarparvar (University of KwaZulu-Natal, South Africa).
3. **International project** assessment of research proposal for the National Research Foundation (SA Research Chairs) titled “*Natural Products green biotechnology*” submitted by Prof Ahmad Mohammed (Cape Peninsula University of Technology, South Africa).
4. **Reviewer in Journals:** Ageing Research Reviews, American Journal of Alzheimer's Disease and Other Dementias, Applied Biochemistry and Biotechnology, Bioanalysis, Biomaterials, CNS and Neurological Disorders- Drug Targets, BMC Neuroscience,



Current Drug Metabolism, Current Medicinal Chemistry, Current Alzheimer's Research, Evidence-Based Complementary and Alternative Medicine, Frontiers-ELSI in Science and Genetics, Frontiers in Neuroscience-Neurodegeneration, Frontiers in Aging Neuroscience, Interdisciplinary Sciences: Computational Life Sciences, International Journal of Biological Macromolecules, Journal of Proteomics, PLOS One, Medicinal Chemistry, Molecular Biology Reports, OMICS Publishing Group/ACR, The Protein Journal, Protein and Peptide Letters, Process Biochemistry, Scientific Reports.

### SCIENTIFIC MEETINGS:

#### Session chair:

1. **Geriatric-1 session at 1st World Congress on Geriatrics and Neurodegenerative Diseases Research**, organized by Department of Informatics, Ionian University, Corfu, Greece (April 10-13, 2014).

#### Member of scientific program/organizing committee:

2. **13th Annual Conference on Dementia and Alzheimer's Disease (December 13-15, 2018) Abu Dhabi, UAE.**  
(<https://dementia.neuroconferences.com/organizing-committee.php>)
3. **International conference and exhibition on immunology, IMMUNE USA 2018** (January 29-31, 2018) Flamingo, Las Vegas, Nevada, USA  
([http://helicsgroup.net/index.php/user/member\\_details/238/13](http://helicsgroup.net/index.php/user/member_details/238/13))
4. **1st World Congress on Geriatrics and Neurodegenerative Diseases Research**, organized by Department of Informatics, Ionian University, Corfu, Greece (April 10-13, 2014).

#### Oral presentation:

5. **Ashraf GM**, Perveen A, Tabrez S, Jabir NR, Damanhoury GA, Zaidi SK, Banu N. "*Altered galectin glycosylation: potential factor for the diagnostics and therapeutics of various cardiovascular and neurological disorders*" at **1st World Congress on Geriatrics and Neurodegenerative Diseases Research**, organized by Department of Informatics, Ionian University, Corfu, Greece (10-13 April, 2014).

#### Poster presentation:

6. **Ashraf GM**, Rizvi S, Naqvi S, Suhail N, Bilal N, Hasan S, Tabish M and Banu N. "*Purification, characterization, structural analysis and protein chemistry of a buffalo heart galectin-1*" at **Biosparks 2010- VIII<sup>th</sup> Annual Research Festival of School of Life Sciences**, Jawaharlal Nehru University, New Delhi, India (11-12 March, 2010).
7. **Ashraf GM**, Bilal N, Suhail N, Hasan S and Banu N. "*Glycosylation plays a vital role in maintaining the structural and functional integrity of a galectin-1 purified from Capra hircus heart*" in **National Symposium on "Recent trends in enzyme technology, toxicology and bioinformatics"** under the auspices of UGC-DRS II programme of the Department of Biochemistry, Faculty of Life Sciences, Aligarh Muslim University, Aligarh, India (March 3, 2010).
8. **Ashraf GM**, Suhail N, Bilal N, Hasan S and Banu N. "*Studies on the activation of oxidative burst and degranulation of neutrophils by goat heart lectin, N-formyl-L-methionyl-L-leucyl-L-phenylalanine and phorbol 12-myristate 13-acetate*" at **Society of Free Radical Research (SFRR) Satellite India 2008 Conference on "Free radicals in**

health and disease" at Department of Biochemistry, Aligarh Muslim University, Aligarh, India (March 17-18, 2009).

9. **Ashraf GM, Banu N.** "*Immunological studies of a galectin-1 purified from buffalo heart*". **National symposium on Advances in Clinical Biochemistry- Biomarkers, Molecular Diagnosis and Quality Assurances & 1<sup>st</sup> U.P. chapter of Association of Clinical Biochemists of India (UPACBICON)** organized by Department of Biochemistry, Faculty of Medicine, Jawaharlal Nehru Medical College, Aligarh Muslim University, Aligarh, India (15-16<sup>th</sup> November 2008).
10. **Ashraf GM, Banu N.** "*Glycosylation plays a vital role in maintaining the structural and functional integrity of a galectin-1 purified from buffalo heart*". **National symposium on "Recent advances in biochemistry and allied sciences"** organized by Department of Biochemistry, Faculty of Life Sciences, Aligarh Muslim University, Aligarh, India (25<sup>th</sup> March 2008).
11. **Ashraf GM and Banu N.** "*Isolation, purification and physicochemical characterization of soluble  $\beta$ -galactoside binding lectin from goat (*Capra hircus*) heart*" at **Society of Free Radical Research (SFRR) Satellite India Conference on "Free radicals and antioxidants in human health, gene regulation and signal transduction"** organized by Department of Biochemistry, All India Institute of Medical Sciences, New Delhi, India (Feb 11-12, 2008).
12. **Ashraf GM and Banu N.** "*Isolation, purification and physicochemical characterization of soluble  $\beta$ -galactoside binding lectin from buffalo (*Bubalus bubalis*) heart*" in **International Symposium on the "Predictive, Preventive and Mechanistic Mutagenesis"** organized by Department of Agricultural Microbiology, Aligarh Muslim University, Aligarh, India (Jan 1-3, 2008).

**Attended:**

13. **Training program** on "*Basics of E-learning management system*" organized by Deanship of E-learning and Distance Education, King Abdulaziz University, Jeddah, Saudi Arabia (20-21<sup>th</sup> January 2016).
14. **Training course** on "*How to publish your results*" organized by The Vice Presidency for Graduate Studies and Scientific Research, King Abdulaziz University, Jeddah, Saudi Arabia (13<sup>th</sup> April 2015).
15. **Training program** on "*Basics of E-learning management system*" organized by Deanship of E-learning and Distance Education, King Abdulaziz University, Jeddah, Saudi Arabia (28-29<sup>th</sup> October 2014).
16. **Workshop** on "*Principles of student assessment*" organized by Center for Teaching and Learning Development, King Abdulaziz University, Jeddah, Saudi Arabia (24<sup>th</sup> April 2014).
17. **BD FACS Calibur basic training workshop during international symposium on "Predictive, preventive and mechanistic mutagenesis"** at the Department of Agricultural Microbiology, Faculty of Agricultural Science, Aligarh Muslim University, India (2<sup>nd</sup> Jan 2008).
18. **Second international symposium on "Translational research on natural products and cancer"** held at Lonavala, Mumbai, India (Dec 9-12, 2007).
19. **"South Asian and seventh annual national conference of Indian congress of forensic medicine and toxicology"** organized by Department of Forensic Medicine and

## CV-Dr. Ghulam Md Ashraf

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Toxicology, Jawaharlal Nehru Medical College, Aligarh Muslim University, Aligarh, India (March 24-25, 2007).

**20. International workshop on “Joint Biology and Disease”** organized by Department of Biological Sciences and Bioengineering, Indian Institute of Technology Kanpur, India (March 17-18, 2007).

**21. DBT sponsored workshop on “Genome Analysis: A Bioinformatics Approach”** organized by Distribution Information Sub-Centre, Aligarh Muslim University, Aligarh, India (Feb 24-25, 2007).

### ACHIEVEMENTS/AWARDS:

- Promoted as Associate Professor, KFMRC, KAU, KSA (2017).
- Listed in Marquis Who’s Who (2016).
- Appointed as Head of Molecular Biology Lab at KFMRC, KAU, KSA (2015).
- Chaired Geriatric-1 session at GeNeDis, Ionian University, Greece (2014).
- Inducted in KFMRC publication committee, KAU, KSA (2012).
- Appointed as Lecturer in Amity University, Lucknow, India (2010).
- Received offer letter from SDL Fine Chemicals to join as Molecular Biologist (2010).
- Fellowship for Ph.D. scholars from UGC, New Delhi, India (2007).
- JRF for research project funded by Ayush, India (2006).
- Merit scholarship from Bharat Sewa Trust, AMU, India (2006).
- Waheeda Ahmad Endowment Scholarship, AMU, India (2006).
- Qualified a national level aptitude test, GATE, India (2006).
- Merit Scholarship from AMU Alumni Association, Michigan (2005).
- First Prize in Scientific Model Competition on National Science Day, AMU, India (2005).
- Proctorial Monitor, AMU, India (2003).

### PROFESSIONAL AFFILIATIONS:

1. The Protein Society, USA.
2. The Science Advisory Board.
3. Saudi Society for Genomics and Molecular Oncology, Saudi Arabia.

### REFEREES:

**1. Prof. George E Barreto**

Professor in Neurosciences

President of Colombian Society for Neurosciences (COLNE)

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