

Dr. Imteyaz Qamar



Assistant Professor
 School of Biotechnology
 Gautam Buddha University
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Career Profile

Position	University/Institute	Duration
Assistant Professor	Gautam Buddha University, Greater Noida	2010 - till date
Post-Doctoral Fellowship	National Institute of Immunology, New Delhi	2009 - 2010
Brain Korea-21 Post-Doctoral Fellowship	Hormone Research Centre, CNU, South Korea	2008 - 2009
Research Scientist	Hormone Research Centre, CNU, South Korea	2003 - 2004
DBT-Research Assistant	Indian Institute of Science, Bangalore	2002 - 2003

Education Profile

Degree	Specialization/Subjects	Duration Years	University/Institute	Division
Ph.D.	Molecular Endocrinology	2004-2008	Hormone Research Centre, Chonnam National University, SOUTH KOREA	Grade A with Two First Author JBC published 2009 & 2010
M. Sc.	Biotechnology	2000-2002	Bangalore University	1 st Class

Research Interest

Stress Biology (Gene Regulation) and Cancer Genetics

- We are studying global stress responses and their regulation using various environmental stresses (oxidative stress, heavy metal stress, osmotic stress, heat shock, and DNA damage). Special emphasis is on oxidative stress such as hypoxia, where we are identifying the molecular variables playing key roles in this process as well as analyzing underlying regulatory mechanisms
- Designing of potential antagonist of splicing factors and DNA repair enzymes as therapeutic targets for application in Cancer Therapy, Screening of small molecules (Natural and Synthetic compounds) as potential inhibitors of various cancer progression and their mode of action
- Steroid/nuclear receptors and human disease (infertility, reproductive disorders, metabolic syndrome and cancer regulation).

Projects Funding

No.	PI / CoPI	Title	Agency	Year
1.	Dr. Imteyaz Qamar / Dr. Nagendra Singh	Designing of potential antagonist of ASF/SF2 for application in Cancer Therapy	ICMR	2017-20
2.	Dr. Nagendra Singh/ Dr. Imteyaz Qamar	Structural and functional characterization of SRrp508	CSIR	2016-19
3.	Dr. Nagendra Singh/ Dr. Imteyaz Qamar	Cloning expression and structural studies on dihydrouridine synthase from <i>P. aeruginosa</i>	ICMR	2015-18

Awards and Recognitions

- 1) Best Researcher Awards, 2018 by IJRULA international awards, Tamilnadu, India
- 2) Outstanding Scientist Award 2018 by Centre for Advance Research and Design, VIRA, Chennai (INDIA)
- 3) Outstanding Scientist Award 2016 by Centre for Advance Research and Design, VIF, Chennai (INDIA)
- 4) Bharath Vikas Award 2016 by Institute of Self Reliance, Bhubaneswar (India)
- 5) IAS-INSA-NASI Summer Research Fellowship Program 2014, Department of Biochemistry, Indian Institute of Science, Bangalore
- 6) DBT-Post Doctoral Fellowship (2009-2010), National Institute of Immunology, Jawaharlal Nehru University Campus, New Delhi
- 7) Post-Doctoral Fellowship (Brain Korea 21) (2008-2009), Hormone Research Centre, SBST, Chonnam National University., South Korea
- 8) Best Researcher Award (2007-2008), Hormone Research Centre, SBST, Chonnam National University., South Korea
- 9) Ph.D. Studentship (2004-2008), Hormone Research Centre, SBST, Chonnam National University., South Korea
- 10) DBT-Research Assistantship (2002-2003), MRDG, Indian Institute of Science, Bangalore

Faculty Development Program

- 1) One Week Faculty Development Program on Big Data Analytics, 4th Feb-9th Feb, 2019, School of Information & Communication Technology, Gautam Buddha University, Greater Noida, UP
- 2) One week workshop on Teaching and learning of Molecular Biology and Enzymology through Hands on Experience" 18th- 23rd Sept., 2018 at NIT, Warangal

- 3) One Week Faculty Development Program on “Approaches for in-silico drug designing”, July 3rd -7th 2018, at IILM College of Engineering & Technology, Greater Noida.
- 4) Summer Research Fellowship Programme For Teachers sponsored by INSA, NASI & IASc, June-August 2014, Department of Biochemistry, Indian Institute of Science, Bangalore

Conference/Workshops

1. Workshop on “Biotechnology Start-up Ecosystem in India” 18th March, 2019
INSA, New Delhi
2. 2nd International Conference on Chemistry, Industry and Environment, 18-19
Feb, 2019, Department of Applied Chemistry, AMU, Aligarh
3. Indo-Russian meet and second international conference on biotechnological
advancement in free radical biology and medicine, 23rd to 25 Jan, ICBAFM-2017,
Department of Biosciences, Integral University, Lucknow, India
4. 11th National Conference of the Diabetes in Pregnancy Study Group India, 20-21
February, 2016, JW Marriott Hotel, New Delhi
5. Sixth International Conference on Metals in Genetics, Chemical Biology and
Therapeutics (ICMG-2016), 17-20 February 2016, Indian Institute of Science,
Bangalore.
6. International Conference on Emerging Trends in Biomedical Sciences (ETBS-
2016), 6-8 March, 2016, Department of Biochemistry, AMU, Aligarh
7. The 90th Annual Meeting of The Endocrine Society, June 14th to 18th 2008, San
Francisco, CA, USA
8. 10th Asian Conference on Transcription, Jan 13th to 16th, 2008, Indian Institute of
Science, Bangalore, India
9. Korean Society for Molecular and Cellular Biology, 2006, Seoul, South Korea
10. Korean Society for Molecular and Cellular Biology, 2005, Seoul, South Korea

Invited Speaker

1. Invited Lecture delivered on “Gene Regulation and Physiological Role of an Androgen Receptor Co-Repressor-19KDa (ARR19) in Testicular Leydig Cells” *Indo-Russian meet and second international conference on biotechnological advancement in free radical biology and medicine, 23rd to 25 Jan, ICBAFM-2017, Department of Biosciences, Integral University, Lucknow, India*
2. A special lecture delivered on “Physiological role of GATA-1 Regulated Androgen Receptor Corepressor-19kD (ARR19) in Testicular Leydig Cells” in *4th Bihar Science Conference, Feb 11-13, 2011, L.S. College, Muzaffarpur (Bihar), India*

External Experts

1. External examiner to conduct the Practical Examination and preparation of Question paper on during 2016 and 2017 in the department of Zoology, AMU.

NET/GATE/CTET Observer

1. Centre Observer for for CTET Examination at Salwan School, New Delhi on 9th Dec, 2018
2. Centre Observer for UGC/NET examination at TIS, Rohini, New Delhi on 08/07/2018
3. Centre Observer for UGC/NET examination at TIS, Rohini, New Delhi on 08/07/2018
4. Centre Observer for UGC/NET exam at DPS Vasant kunj, New Delhi on 5/011/2017

Professional Association

1. Member of The Endocrinology Society, United States of America (USA)

2. Member of Editorial Board, Journal of Developmental Biology and Tissue Engineering
3. Member of Editorial board, IOSR Journal
4. Member of Editorial Board, Journal of Clinical Reviews and Opinions

Administrative Responsibilities

University level

1. University Coordinator for Photography club since 2010 onwards
2. Member of Admission committee 2013-2014
3. Centre observer, GBU entrance Exam, Gwalior 2014
4. Centre observer, GBU entrance Exam, School of biotechnology, GBU 2015
5. Centre observer, GBU entrance Exam, Kanpur 2016
6. Centre observer, GBU entrance Exam, Bareilly, 2017
7. Member of Human ethical committee, GBU 2015 onwards
8. Member of Institutional Bio Safety Committee (2010-11).
9. Participated in organizing Abhivyanjana (2010-17)
10. Participated in organizing Sauroyatsav (2010-17)

Department level

1. Space committee 2012-14
2. Counseling committee 2012-13
3. Invigilator duty 2010-2017
4. Member of Board of studies (BOS), SoBT, 2014-2015
5. Member of Library committee, SoBT, 2014-15
6. Faculty-in-charge Animal Tissue Culture Lab 2016-17
7. Faculty-in-charge Basic Lab 2 2016-17
8. Conducted Orientation program-2017
9. Organized Biotech Alumni Meet-2017
10. Member of Examination Committee (2014-15).

Publications

Significant publications

- 1) Goyal N, Chandra A, **Qamar I**, Singh N. (2019). Structural studies on dihydrouridine synthase A (DusA) from *Pseudomonas aeruginosa*. *Int J Biol Macromol*. 2019 Mar 28;132:254-264. doi: 10.1016/j.ijbiomac.2019.03.209. [Epub ahead of print] **Impact factor: 3.9**
- 2) **Qamar, I.**, Ahmad, F., and Narayansami, N. (2015). A time-course study of long term over-expression of ARR19 in mice. *Nature's Scientific Reports, Nature's Sci Rep*. 2015 Aug 11;5:13014. **Impact factor: 5.8**
- 3) **Qamar, I.**, Gong, E.Y., Kim, Y., Song, C.H., Lee, H.J., Chun, S.Y., Lee, K. (2010). Anti-steroidogenic factor ARR19 inhibits testicular steroidogenesis through the suppression of Nur77 transactivation. *The Journal of Biological Chemistry, J Biol Chem*. 285(29): 22360-22369. **Impact factor 4.6**
- 4) **Qamar, I.**, Park, E., Gong, E.Y., Lee, H.J., Lee, K. (2009). Androgen receptor corepressor-19KDA (ARR19), an anti-steroidogenic factor, is regulated by GATA-1 in testicular leydig cells. *The Journal of Biological Chemistry, J Biol Chem*. 284(27): 18021-18032. **Impact factor 4.6**
- 5) **Qamar, I.**, Singh, Nagendra., Waseem, S., Prakash, P., Veerendra, S.N., and Ahmad, F. (2016). Cloning and Expression of Novel Lingo-1 Gene from *Bubalis Bubalis*. **WJPPS**, Volume 5, Issue 6, 2013-2024. **Impact factor 6.64**
- 6) Hegde, M., Mantelingua, K., Swarupa HA., Pavankumara CS., **Qamar, I.**, Raghavan, SC., and Rangappaa SK. (2016). Novel PARP Inhibitors Sensitize Human Leukemic Cells in an Endogenous PARP Activity Dependent Manner. *Royale Society of Chemistry, Advances, RSC Adv.*, 2016,6, 6308-6319. **Impact factor 4**
- 7) Ahmad, F and **Qamar, I.** (2017) Novel strategy for the treatment of fungal infections. **WJPPS** (In press) Doi: 10.20959/wjpps201711-10361. **Impact factor 6.64**

Total Research Publications

- 1) Goyal N, Chandra A, **Qamar I**, Singh N. (2019). Structural studies on dihydrouridine synthase A (DusA) from *Pseudomonas aeruginosa*. *Int J Biol Macromol*. 2019 Mar 28;132:254-264. doi: 10.1016/j.ijbiomac.2019.03.209. [Epub ahead of print]
- 2) Zaman Khan N., Banerjee P., and **Qamar,I** (2019). A critical review on genetics and implications of type 1 diabetes. **Endocrinol Metab Int J** 2019;7(1):11–14
- 3) Ahmad, F and **Qamar, I**. (2017) Novel strategy for the treatment of fungal infections. **WJPPS** (In press) Doi: 10.20959/wjpps201711-10361.
- 4) **Qamar, I.**, Ahmad, F., and Narayansami, N. (2015). A time-course study of long term over-expression of ARR19 in mice. *Nature's Scientific Reports*, **Sci Rep**. 2015 Aug 11;5:13014.
- 5) **Qamar, I.**, Gong, E.Y., Kim, Y., Song, C.H., Lee, H.J., Chun, S.Y., Lee, K. (2010). Anti-steroidogenic factor ARR19 inhibits testicular steroidogenesis through the suppression of Nur77 transactivation. *The Journal of Biological Chemistry*, **J Biol Chem**. 285(29): 22360-22369
- 6) **Qamar, I.**, Park, E., Gong, E.Y., Lee, H.J., Lee, K. (2009). Androgen receptor corepressor-19KDA (ARR19), an anti-steroidogenic factor, is regulated by GATA-1 in testicular leydig cells. *The Journal of Biological Chemistry*, **J Biol Chem**. 284(27): 18021-18032.
- 7) **Qamar, I.**, Singh, Nagendra., Waseem, S., Prakash, P., Veerendra, S.N., and Ahmad, F. (2016). Cloning and Expression of Novel Lingo-1 Gene from *Bubalis Bubalis*. **WJPPS**, Volume 5, Issue 6, 2013-2024.
- 8) Hegde, M., Mantelingua, K., Swarupa HA., Pavankumara CS., **Qamar, I.**, Raghavan, SC., and Rangappaa SK. (2016). Novel PARP Inhibitors Sensitize Human Leukemic Cells in an Endogenous PARP Activity Dependent Manner. *Royale Society of Chemistry, Advances*, **RSC Adv.**, 2016,6, 6308-6319.

- 9) Kumar, S., **Qamar, I.**, and Singh, N. (2017). Nonsteroidal Anti-inflammatory Drugs (NSAIDs). In: **eLS. John Wiley & Sons, Ltd**: Chichester. DOI: 10.1002/9780470015902.a0024221.
- 10) Singh, N., Bhardwaj, R., **Qamar, I.** (2015). Formation of Persister in *Klebsiella pneumoniae*: Recombinant Expression and Purification of hipA and hipB proteins from *K. pneumoniae*. **International journal of applied and pure science and agriculture** 11/2015; 1(11):1-7.
- 11) Shukla, A., Priyadarshi, S., and **Qamar, I.** (2012). Involvement of Calcium and Vitamin C in Type 2 Diabetes. **IOSR Journal of Pharmacy**, Vol. 2, Issue 1, Jan-Feb.2012, pp.009-020.
- 12) Chaudhary, N and **Qamar, I** (2015). Advancement of Poly-(ADP – Ribose) Polymerase (PARP) Inhibitors in Cancer Progression and Treatment. **International Journal of Animal Biotechnology & Applications** Vol. 1: Issue 1 page 19-30.
- 13) Kumar, A., Basavaraj, M.G., Gupta, S.K., **Qamar, I.**, Ali, A.M., Bajaj, V., Ramesh, T.K., Prakash, D.R., Shetty, J.S., Dorairaj, S.K. (2007). Role of CYP1B1, MYOC, OPTN and OPTC Genes in Adult-onset Primary Open-angle Glaucoma: Predominance of CYP1B1 Mutations in Indian Patients”. **Molecular Vision** 13:667-676.
- 14) Chaudhari, N and **Qamar, I** (2016). Polycystic ovary syndrome: conditions, genetics and current cure. **Endocrinol Metab Int J** 2016, 3(5): 00060
- 15) Beg MA and **Qamar, I** (2017). Hexokinase II and its Major Partners: Role in Cancer Progression. *International Journal of Cell Biology and Cellular Processes* Volume 3 Issue 2 Page 1-8, 2017
- 16) Beg MA and **Qamar, I** (2017). Expression-Regulation of Hif-Induced Gene and Oxidative Stress Gene in Acute Hypobaric Hypoxia. *International Journal of Genetic Engineering and Recombination* Volume 3 Issue 2 Page 9-28, 2017

Nucleotide Submission

- 1) Qamar, I et al. AUG 2013. KC969193.1 GI: 530721727.
- 2) Qamar, I et al. OCT 2012. JX971535.1 GI: 440655800.
- 3) Qamar, I et al. NOV 2012. KC123219.1 GI: 444218063.
- 4) Qamar, I et al. NOV 2012. KC012594.1 GI: 443302189.

The above mentioned information is true to the best of my knowledge and belief.

Dr. Imteyaz Qamar