Innovation Techniques Implemented in Teaching and Learning Process

I love teaching. I have taught high school to university level students in the class rooms. During the past 23 years of my life, I have been enjoying my learning experiences as a bachelor, master and Ph.D. student, post-doctoral fellow, laboratory Instructor and as Faculty in a central University- a centre of excellence in India. During this time, I have been benefited from interactions with excellent teachers and scientific mentors, and so, my goal as an educator is to emulate their key attributes. Prominent among these are: clearly stated learning objectives; well-prepared contemporary lecture notes; and teaching with enthusiasm. While lectures (a form of passive learning for/or from students) are an essential piece of educational systems, some studies suggest that actively engaging students in the learning process can improve their ability to retain information. Therefore, I want to supplement my lectures with active learning sessions, such as in-class discussions and written exercises on materials from previous classes, in order to improve student mastery of course material. Moreover, in lectures, I wish to provide emphasis on conceptual understanding rather than data memorization. I believe that students can easily absorb or remember names and facts on their own, but they often fail to understand basic principles and patterns unless these ideas are carefully developed for them. An outstanding teacher looks for ways to improve teaching skills. I am committed to striving for excellence in all my teaching endeavors.

I am broadly trained, and feel qualified to teach introductory and advanced courses in Biochemistry, Cell biology, Stem Cell biology, Genetics, Molecular biology, Pharmacology and Environmental Sciences. Moreover, I would enjoy collaborating with faculty to co-teach courses allowing each of us to teach in areas of strength. My training is on transcriptional/translational cancer biology. As a result, I am also interested in teaching a course, with faculty more rigorously trained in molecular biology. Finally, people who pursue careers outside of science are inevitably involved at some extent in shaping public opinion and technological policies. Therefore, I would like to participate in or begin a policy on current issues on biological sciences for non-science majors, in order to foster a greater appreciation for science and the majesty of the natural world.

Following beliefs summarize my philosophy of teaching:

1. My teaching philosophy is straightforward: teach your students as you would want to be taught - with enthusiasm, and with a passion for the subject combined with respect and understanding for the student.
2. Although I want my students to learn the fundamental content of the courses I teach, but I also hope to foster critical thinking, facilitate the acquisition of life-long learning skills, and prepare students to function effectively to develop problem-solving strategies.
3. I believe that learning is the result of biological and environmental processes working together to construct new meaning. When I teach, I strive to find ways that I can involve students in ways other than lecturing. This includes having them attempt to explain concepts to each other. Certainly it is important not to abandon lecturing altogether, or I would be doing a disservice to those students who learn best by listening and reading.
4. Because, I am a scientist engaged in cancer biology and cancer prevention research, my philosophy is to combine research in laboratory and new technologies. I feel that this approach significantly affects teaching and learning resulting in quality education in this digital age.
5. To be an effective teacher, I feel that I must remain updated by extracting information about the subject from text books, research papers published in journals and other resources.
6. As we are living in technological word, I also use smart class room regularly, use different software's for virtual classes, software's use in statistical, graphical and Biological Sciences.

Based on my innovative techniques and student's feedback my university awarded me the best teacher award in 2018. I have also got award from other organizations. Please see my CV

Curriculum Vitae

Name: HIFZUR R SIDDIQUE, Ph.D., MRSB, MNASI

Designation: **Senior Assistant Professor, Molecular Cancer Genetics & Translational Research Lab**
Section of Genetics, Department of Zoology, Aligarh Muslim University, Aligarh-202002 INDIA
Phone: +91-571-2700920-Ext-3456; **Cell:** +91-745-495-2840; **E-mail:** *hifzur.zo@amu.ac.in*
Website: https://www.amu.ac.in/faculty/zoology/hifzur-rahman-siddique

PUBLONS: https://publons.com/researcher/510567/hifzur-r-siddique/
RESEARCH GATE: https://www.researchgate.net/profile/Hifzur-Siddique
LINKEDIN: https://www.linkedin.com/in/hifzur-r-siddique-ph-d-mrsb-06b1b520/
SCOPUS: https://www.scopus.com/authid/detail.uri?authorId=56081338200
GOOGLE SCHOLAR: https://scholar.google.co.in/citations?user=AFA36U4AAAAJ&hl=en

A. AREA OF SPECIALIZATIONS: Stem cells/ Cancer stem cells, Non-coding RNAs, Drug resistance, Molecular Pharmacology/Toxicology, and Stress Biology.

B. AREAS OF RESEARCH INTEREST: Research interests of the laboratory are in the following areas:

- ♣ Chemosensitization of Chemoresistant Cancer Stem Cells and Molecular Cancer Therapeutics.
- ♣ Toxicology/Nano-toxicology, Nano-medicines, and Chemoprevention.
- ♣ Identification of Epigenetic modifications in Cancer and Biomarker Discovery.
- ♣ Role of non-coding RNAs in Chemoresistance and Cancer Development.

C. ACADEMIC QUALIFICATIONS:

SN	Degree	Institutions
1.	B.Sc.	Assam University, India
2.	M.Sc.	Aligarh Muslim University (AMU), India
3.	Ph.D.	CSIR-Indian Institute of Toxicology Research (awarded by AMU in 2008)
Thesis Title:		"Genetic and Developmental studies in *Drosophila melanogaster* against selected Environmental Chemicals."
Guide:		Prof. Debapratim Kar Chowdhuri (Ex. Chief Scientist, CSIR-IITR, Lucknow)

D. TEACHING AND PROFESSIONAL PROFILE:

SN	Teaching Profile		SN	Professional Profiles	
1.	Teaching Experience	**10 yrs**	**7.**	TV/Popular Talks	**10**
2.	Ph.D. Supervision	**03**	**8.**	Number of Awards/Fellowships/ Honors	**26**
3.	Research Associate	**01**	**9.**	Editorial Board Member	**05**
4.	Project Fellow (DST-SERB)	**01**	**10.**	Professional Membership	**12**
5.	M.Sc. Student's Projects	**04**	**11.**	Reviewer of Scientific Journals	**52**
6.	M.D./M.S. Student's Project	**01**	**12.**	Professional Training	**26**

E. RESEARCH PROFILE:

SN	Research Profile		SN	Research Project	
1.	Experience (including Ph.D.)	18 yrs	4.	Approved	05
2	Patents (Filed/ Published)	04	a.	Ongoing	02
3.	Popular Articles (Social/ Science)	07	b.	Completed	02

Grant Reviewer: 1. **Czech Science Foundation, Czech Republic 2. CSIR-India.**

F. Research Work Published as Abstract in Proceedings of Conferences: 50

	Invited Lectures	Full Paper	Proceedings	Submitted
Total	**19**	**01**	**30**	**00**

G. Research Work Published or Communicated in Scientific Journals/Books: 85

Total Impact Factor (IF) = 481 ; Highest IF= 22.3; Average IF /Publication = 7.0 Average Publication/Year = 3.6					Google Scholar Citations			Research Gate
Publications	*Published in Journals*	*Book Chapters*	*Technical Note*	*Communicated/ Under Preparation*	*Total*	*h-index*	*i-10 index*	*RG-Score*
Total	**70**	**07**	**01**	**06**	**1901**	**22**	**28**	**36.5**

SELECTED AWARDS, FELLOWSHIPS, HONORS, AND RECOGNITIONS (TOTAL = 26)

2021:	**Invited** as a **contributing author** on herbal medicine by UNESCO for UNESCO-Encyclopedia of Life Support Systems (EOLSS).
2021:	AEDS **"Distinguished Scientist Award-2021"** from Agro Environmental Developmental Society, UP, India in the field of Biological Sciences.
2021:	**Nominated** as the Research Grant Reviewer for Council of Scientific & Industrial Research, Govt of India, India.
2020:	**Appointed** as the Scientific Grant Reviewer for Czech Science Foundation, Government of the Czech Republic.
2019:	SPER **Innovative Researcher Award**, from Society of Pharmaceutical Education & Research (SPER). Awarded in Bangkok, Thailand.
2019:	RULA Research Ratna Awards under the Title "**Leading Researcher in Cancer Studies**" by World Research Council & United Medical Council.
2018:	SN Nahar **Distinguished Teacher of the Year** for the Outstanding Research Publications and training and inspiring students to advance research, awarded by Aligarh M University, Aligarh.
2018:	Selected as one of the members (out of five for Biosciences) to prepare National Resources for higher education in the "Workshop on Identification of Subject wise Resources for Teachers in Higher Education" at NIEPA, New Delhi, June 6-8.
2017:	Farha Deeba **Outstanding Cancer Research Award** from Indian Academy of Biomedical Sciences, India.
2014:	My work was selected as one of the three **"Featured Prostate Cancer Research"** works by the *USA Department of Defense's* "2014 Research Highlights" section.
2011:	One of my publications was highlighted by the US and Indian print and electronic media such as **New York Times, Wall-Street Journal, The Street,** and others, to name a few.
2011:	Got an invitation from the American Association of Cancer Research (AACR) to present my work

as an **Oral Presentation** at the 102nd Annual Meeting. Orlando, FL, USA. April 2-6.

2010:	**Young Scientist Travel Award** from the Society of Basic Urology Research (SBUR; USA).
2005:	Senior Research Fellowship **(SRF)**, Council of Scientific & Industrial Research, India.
2002:	Graduate Aptitude Test for Engineering **(GATE)**, India
2001:	Junior Research Fellowship under National Eligibility Test jointly conducted by CSIR and UGC, Govt. of India (JRF-NET), India
1999:	University Post Graduate **Merit Scholarship**, Aligarh Muslim University, India.
1998:	University Post Graduate **Merit Scholarship**, Aligarh Muslim University, India.
1998:	Placed **FIRST** in inter-college **quiz competition** on the topic "*AIDS and health awareness programme*." Organizer: Society for Ecology & Environmental Development, Assam, India.
1995	Science Talent Search Scholarship (State Level), Assam, India.
1994	Merit Scholarship by an NGO, Assam, India, for academic excellence.
1994	Honored by Minister of Health & Family Welfare, Govt. of Assam under the banner of NGO "INSANIAT" for my student welfare activities (especially underprivileged students) in the rural areas of Assam.

RESEARCH PROJECTS (TOTAL =05)

SN.	Project Title	Role	Duration	Sources	Amount in INR
1.	Study of Epigenetic Modulation in Insulin Promoter Region and Associated Growth Factors in Diabetes (Diabetic Neuropathy) and Pancreatic Cancer in both Preclinical and Clinical Settings.	PI	2021-2024	ICMR	20.22 lacs
2.	NM-ICPS Mission-Technology Incubation Hub for (three Institutes: IIT Indore, AMU and NIT Tiruchirapalli, Kerala). Role: Core	Main Investigator for Mission	2021-2025	DST-SERB, India	100 Crores

	Member from AMU.	Cancer			
3.	Role of Lupeol on Chemosensitization of Cancer Stem Cells by Targeting cFLIP/β-Catenin-AR/Nanog-cMyc Module both in vitro and in a Mouse Model of Prostate Cancer.	PI	2018-2021	DST-SERB, India	45.49 lacs
4.	To Study the Role of Lupeol on Chemosensitization of Liver Cancer Cells in a Mouse Model of Hepatocarcinoma.	PI	2018-2020	UGC, India	10 lacs
5.	Equipment & ICT grant	PI	2017	UGC-AMU	8 lacs

PUBLICATIONS IN SCIENTIFIC JOURNALS (TOTAL =70)

A. PUBLICATIONS WITH IMPACT FACTOR ≥ 10

1. Choi HY*, Siddique HR*, Zheng M, Kou Y, Yeh DW, Machida T, Chen CH, Kumar DBU, Punj V, Winer P, Pita A, Sher L, Tahara SM, Ray RB, Liang C, Chen L, Tsukamoto H, Machida K. **2020.** p53 destabilizing protein skews asymmetric division and enhances NOTCH activation to direct self-renewal of TICs. **Nature Communications**.11: 3084 PMID: 32555153 **Impact Factor-15.0*= Contributed Equally.**
2. Siddique HR, Maurya SK. **2021.** Lupeol chemosensitize the cancer stem cells for enzalutamide and ameliorate the enzalutamide induced toxicity in prostate cancer. **Abst #** 276. **Cancer Research**. 2021;81(13S):Art nr 276. **Impact Factor-12.7. (non-peered)**
3. Fatma H, Maurya SK, Siddique HR. **2020**. Epigenetic Modifications of MYC: Role in Cancer Cell Reprogramming, Progression, and Chemoresistance. **Seminars in Cancer Biology**. PMID: 33220458. **Impact Factor-15.7.**
4. Choi HY, Siddique HR, Zheng M, KouY, Yeh DW, Machida T, Chen CL, Kumar DBU, Punj V, Winer P, Pita A, Sher LS, Tahara SM, Ray R, Liang C, Chen L, Tsukamoto H, Machida K. **2020**. P53 destabilizing

protein skews asymmetric division and enhances Notch activation to direct self-renewal of tumor-initiating stem-like cells induced by alcohol western diet. **Hepatology**, 72 (S1) 182A-182A. **Impact Factor -17.5** (non-peered)

5. Arjmand F, Afsan Z, Sharma S, Parveen S, Yousuf I, Sartaj S, Siddique HR, Tabassum S. **2019.** Recent Advances in Metalodrug-like Molecules targetting non-coding RNAs (ncRNAs) in cancer Chemotherapy. **Coordination Chemistry Reviews.** 387: 47-59. **Impact Factor -22.3.**
6. Machida K, Siddique HR, Zheng M, Winer P, Kumar DBU, Rokan A, Sher L, Tahara SM, Elowitz M, Liang C, Tsukamoto H. **2018.** Cell fate reprogramming of liver tumor-initiating stem-like cells via phosphorylated NUMB and TBC1D15. **Cancer Research** 78(13S): Art No. 1984. **Impact Factor-12.7** (non-peered)
7. Siddique HR, Zheng M, Kou Y, Chen CLC, Kumar DBU, Winer P, Rokan A, Punj V, Sher LS, Tahara SM, Ray R, Elowitz M, Liang C, Chen L, Tsukamoto H, Machida K. **2018**. Novel NOTCH-Binding Protein Directs Self-Renewal of Tumor-Initiating Stem-like Cells and HCC Development through Cell Fate Reprogramming. **Hepatology**, 68 (S1). Art. No. 1365. **Impact Factor -17.5** (non-peered)
8. Siddique HR, Narayan P, Punj V, Feldman DE, Machida K. **2017**. MSI2 binds LncRNAs and promotes self-renewal and oncogenesis through MYC expression. **Cancer Research** 77(13S): Art. No. 2542. **Impact Factor-12.7**. (non-peered)
9. Ganaie AA, Beigh FH, Astone M, Ferrari MG, Maqbool R, Umbreen S, Parray AS, Siddique HR, Hussain T, Murugan P, Morrissey C, Deng Y, Konety BR, Hoeppner LH, Saleem M. **2018**. BMI1 drives metastasis of prostate cancer in Caucasian and African-American men and is a potential therapeutic target: hypothesis tested in race-specific models. **Clinical Cancer Research** 24: 6421-6432. PMID: 30087142. **Impact Factor -12.5**
10. Ganaie AH, Siddique HR, Sheikh I, Wang L, Parray A, Panyam J, Villalta P, Liao J, Deng Y, Saleem M. **2017.** Development of a novel KRAS-targeting agent: systematic validation using *in silico*, in solution, cell models, PDX and transgenic mouse models. **Cancer Research** 2017**:** 77(13S): Art. No. 1246. **Impact Factor-12.7**. (non-peered)

11. Siddique HR, Feldman DE, Chen C, Punj V, Tokumitsu H, Machida K. **2015**. NUMB Phosphorylation Destabilizes p53 and Promotes Self-renewal of Tumor-Initiating Cells by NANOG-dependent Mechanism in Liver Cancer. **Hepatology**. 62: 1466-1479. PMID**:** 26174965. **Impact Factor -17.5**

12. Parray A*, Siddique HR,* Langfald A, Singh P, Naito M, Matusik R, Schmitz I, Koochekpour S, Konety BR, Saleem M. **2015**. A novel nuclear transporter for androgen receptor and AR-variant-7 in castration resistant prostate cancer: Ideal therapeutic. **Cancer Research** 2015; 75 (15S); Art. No. 4678. *=Equal contributions. **Impact Factor-12.7**. (non-peered)

13. Siddique HR, Wang L, Tarapore R, Deng Y, Saleem M. **2012**. A novel pathway involving TCF-driven BCL2 under regulation of Bmi1 stem cell factor: Role in chemoresistance. **Cancer Research 2012;** 72 (8S): Art. No. 3497. **Impact Factor-12.7.** (non-peered)

14. Siddique HR, Schuster T, Saleem M. **2012**. Lupeol, a novel inhibitor of Wnt/β-catenin signaling: Implications in colon cancer therapy. **Cancer Research** 2012; 72 (8S): Art. No. 3847. **Impact Factor-9.7.**

15. Saleem M, Siddique HR, Ganju RK, Mishra SK, Aburatani H. **2012**. Regulatory role of ROBO-1, a novel tumor suppressor on Androgen receptor and Wnt signaling during castration-resistant prostate cancer development: A novel molecular target for gene therapy. **Cancer Research**; 2012; 72 (8S): Art. No. 3917. **Impact Factor-12.7**

16. Siddique HR, Satyshure K, Saleem M. **2011**. Lupeol, a novel androgen receptor inhibitor acts as a double-edged sword: Competitive binding as well as transcriptional inhibition. **Cancer Research** 2011; 71 (8S): Art. No. 943. **Impact Factor-12.7.**

17. Saleem M, Siddique HR, Tarapore RS, Kohl AM. **2010**. Bcl-2, a novel target of Bmi-1 (the stem cell associated factor)-induced Wnt signaling: Implications on prostate cancer. **Cancer Research**; 70 (8S): Art. No. 234. **Impact Factor-12.7.**

18. Siddique HR, Mishra SK, Karnes RJ, Saleem M. **2011**. Lupeol, a Novel Androgen Receptor Inhibitor: Implications in Prostate Cancer Therapy. **Clinical Cancer Research** 17: 5379-91. PMID: 21712449. **Impact Factor -12.5**.

B. PUBLICATIONS WITH IMPACT FACTOR ≥5.0 TO ≤10.0

19. Singh D, Khan, MA, Siddique HR. **2021.** Role of p53-miRNA circuitry in immune surveillance and cancer development: A potential avenue for therapeutic intervention. **Seminar in Cells & Developmental Biology.** PMID: 33875349 **Impact Factor-7.8.**

20. Farwa A, Sk MPU, Maurya S, Siddique HR. **2021.** Mechanochemical Synthesis of Sulfur Quantum Dots for Cellular Imaging. **ACS Applied Nano Materials 4,4: 3339-3344. Impact Factor-5.2**

21. Jameel M, Jamal K, Alam MF, Yonus H, Ameen F, Siddique HR**. 2020.** Interaction of thiamethoxam with DNA: Hazardous effect on biochemical and biological parameters of the exposed organism. **Chemosphere** 254: 126875. PMID: 32361544 **Impact Factor-7.0.**

22. Ganaie A, Mansini AP, Hussain T, Rao A, Siddique HR, Shabaneh A, Ferrari MG, Murugan P, Klingelhöfer J, Wang J, Ambartsumian N, Warlick CA, Konety BR, Saleem M. **2020.** Biopsy-S100A4 and serum-S100A4 alterations predict poor outcome in prostate cancer: Clinical significance of anti-S100A4 antibody therapy. **Molecular Cancer Therapeutics.** 19: 2598-2611. PMID: 32999046. **Impact Factor-6.2.**

23. Arjmand F, Khursheed S, Roisnel T, Siddique HR. **2020.** Copper(II)-based halogen-substituted chromone anti-tumor drug entities: Studying biomolecular interactions with ct-DNA mediated by sigma hole formation and cytotoxicity activity. **Bioorganic Chemistry**. 104: 104327. PMID: 33142405. **Impact Factor-5.2.**

24. Jameel M, Alam MF, Younus H, Jamal K, Siddique HR. **2019.** Hazardous sub-cellular effects of Fipronil directly influence the organismal parameters of *Spodoptera litura.* **Ecotoxicology and Environmental Safety.** 172: 216-224. PMID: 30710772. **Impact Factor- 6.3**.

25. Saleem M, Konety B, Parray A, Siddique HR, Matusik R. **2015**. Identifying novel nuclear transporter of AR and AR (variant) in CRPC cells: Potential implications in therapy. Art No. MP66-14. **Journal of Urology,** 2015; 193 (4), e820–e821. **Impact Factor-7.5.** (non-peered)

26. Parray A, Siddique HR, Kuriger J, Mishra SK, Rhim J, Nelson H, Aburatani H, Bashaw G, Konety B, Koochekpour S, Saleem M. **2014.** ROBO1, a tumor suppressor and critical molecular barrier for localized tumor cells to acquire invasive phenotype: Study in African-American and Caucasian prostate cancer

models. **International Journal of Cancer.** 135: 2493-506. PMID: 24752651. **Impact Factor -7.4.**

27. Siddique HR, Adhami VM, Parray A, Johnson JJ, Siddiqui IA, Shekhani MT, Murtaza I, Amburtsumian N, Konety BR, Mukhtar H, Saleem M. **2013.** The S100A4 Oncoprotein Promotes Prostate Tumorigenesis in a Transgenic Mouse Model: Regulating NFκB through the RAGE Receptor. **Genes & Cancer**. 4: 224-234. PMID: 24069509. **Impact Factor- 5.6**.

28. Siddique HR, Saleem M. **2012**. Role of BMI1 in Cancer Recurrence and Chemoresistance: Preclinical and Clinical evidence. **STEM CELLS** 30: 372-378. PMID: 22252887. **Impact Factor-6.3**.

29. Siddique HR, Liao JD, Mishra SK, Schuster T, Wang L, Matter B, Campbell PM, Villalta P, Deng Y, Saleem M. **2012**. Epicatechin-rich cocoa polyphenol inhibits Kras-activated pancreatic ductal carcinoma cell growth in vitro and in a mouse model. **International Journal of Cancer**. 131: 1720-31. PMID: 22190076. **Impact Factor -7.4**.

30. Mishra SK, Siddique HR, Saleem M. 2012. Role of S100A4 Protein in Tumor Progression and Metastasis: Preclinical and Clinical Evidence. **Cancer & Metastasis Reviews** 31: 163-72. PMID: 22109080. **Impact Factor – 9.3.**

31. Siddique HR, Saleem M. **2011**. Beneficial health effects of Lupeol triterpene: a review of preclinical studies. **Life Sciences** 88: 285-293. PMID: 21118697. **Impact Factor -5.1** (**Invited**).

32. Siddique HR, Mitra K, Bajpai VK, Raviram K, Saxena DK, Kar Chowdhuri D. **2009**. Hazardous effect of tannery solid waste leachates on development and reproduction in *Drosophila melanogaster*: 70kDa heat shock protein as a marker of cellular damage. **Ecotoxicology and Environmental Safety**. 72: 1652-1662 (**Highlighted article**). PMID:19576632. **Impact Factor-6.2**.

33. Siddique HR, Gupta SC, Mitra K, Murthy RC, Saxena DK, Kar Chowdhuri D. **2007**. Induction of biochemical stress markers and apoptosis in transgenic *Drosophila melanogaster* against complex chemical mixture: Role of reactive oxygen species. **Chemico-Biological Interactions** 169: 171-188. PMID: 17651711. **Impact Factor- 5.2**

34. Gupta SC, Siddique HR, Saxena DK, Kar Chowdhuri D. **2005**. Comparative toxic potential of market formulation of two organophosphate pesticides in transgenic *Drosophila melanogaster* (*hsp70-lacZ*). **Cell**

Biology and Toxicology 21: 149-162. PMID: 16328894. **Impact Factor-6.7**.

C. PUBLICATIONS WITH IMPACT FACTOR ≥2.0 TO ≤5.0

35. Fatma H, Siddique HR. **2021**. Pluripotency inducing Yamanaka Factors: Role in Stemness and Chemoresistance of Liver Cancer. **Expert Review of Anticancer Therapy.** PMID: 33832395. **Impact Factor-4.5.**

36. Yeh DW, Choi HY, Siddique HR, Zheng M, Machida T, Narayanan P, Kou Y, Punj V, Tahara SM, Pita A, Sher L, Feldman DE, Chen L, Machida K. **2021.** Cell fate decision and LNCRNA of liver tumor-initiating stem-like cells induced by HCV and alcohol western diet. **Alcoholism: Clinical and Experimental Research**, 45 (S1). Page 68A-68A. Art. No. 240. **Impact Factor-3.5**.

37. Khan MA, Singh D, Siddique HR. **2021.** Revisiting Inorganic Nanoparticles as Promising Therapeutic Agents: A Paradigm Shift in Oncological Theranostics. **European Journal of Pharmaceutical Sciences.** 164: 105892. PMID: 34052295 **Impact Factor-4.3.**

38. Fatma H, Siddique HR**. 2020.** Role of LncRNAs and c-MYC Interaction in Cancer Metastasis: A Possible Target for Therapeutic Intervention. **Toxicology and Applied Pharmacology.** 399:115056 PMID: 32445756. **Impact Factor-4.2**.

39. Ganaie AA, Siddique HR, Parray A, Wang L, Panyam P, Villalta P, Deng Y, Saleem S. **2020**. A novel terpenoid class for prevention and treatment of KRAS-driven cancers: Comprehensive analysis using *in situ*, *in vitro* and *in vivo* model systems. **Molecular Carcinogenesis.** 59(8):886-896. PMID: 32291806. **Impact Factor-4.8.**

40. Maurya SK, Shadab GGHA, Siddique HR. **2020.** Chemosensitisation of therapy resistant Tumors: Targeting multiple cell signaling pathways by Lupeol, a pentacyclic Triterpene. **Current Pharmaceutical Design**. 26 (4) : 455-465 (Invited Article). PMID: 31969092. **Impact Factor-3.2.**

41. Zehra S, Gomez-Ruiz S, Siddique HR, Tabassum S, Arjmand F. **2020**. Water soluble ionic Co(II), Cu(II), and Zn(II) diamine-glycinate complexes targeted to tRNA: Structural description, *in vitro* comparative binding, cleavage and cytotoxic studies towards chemoresistant prostate cancer cells. **Dalton Transactions**. 49:16830-16848. PMID: 33179662. **Impact Factor-4.3.**

42. Yousuf S, Arjmand F, Siddique HR, Ali MS, Al-Lohedan H, Tabassum S. **2020**. Biophysical Binding Profile with ct-DNA and cytotoxic studies of a modulated nanoconjugate of umbelliferone cobalt oxide loaded on graphene oxide (GO) as drug career. **Journal of Bimolecular Structure & Dynamics**. PMID: 33331234. **Impact Factor-3.2.**

43. Khan HY, Maurya SK, Siddique HR, Yousuf S, Arjmand F. **2020.** New Tailored RNA-Targeted Organometallic Drug Candidates against Huh7 (Liver) and Du145 (Prostate) Cancer Cell Lines. **ACS Omega,** 5(25): 15218-15228. PMID: 32637795. **Impact Factor-3.5.**

44. Singh D, Khan MA, Siddique HR. **2020**. Long non-coding RNAs, novel players in Cancer Chemoresistance: Unravelling Pathways and Therapeutic Challenges. **Molecular Biology Reports**. 47(7):5569-5585. PMID: 32601922. **Impact Factor-2.3.**

45. Maurya SK, Maurya AK, Mishra N, Siddique HR. **2020.** Virtual Screening, ADME/T, and Binding Free Energy analysis of anti-viral, anti-protease, and anti-infectious compounds against NSP10/NSP16 Methyltransferase and Main Protease of SARS CoV-2. **Journal of Receptors & Signal Transduction. 40 (6): 605-612**. PMID: 32476594. **Impact Factor- 2.1**

46. Singh D, Khan MA, Siddique HR. **2019**. Apigenin, A Plant Flavone Playing Noble Roles in Cancer Prevention Via Modulation of Key Cell Signaling Networks. **Recent Patents on Anti-Cancer Drug Discovery**. 14: 298-311. PMID: 31746310. **Impact Factor-4.2**. (**Editor's Choice article**).

47. Wani AL, Ansari MO, Ahmad FM, Parveen N, Siddique HR, GGHA Shadab. **2019**. Influence of zinc levels on the toxic manifestations of lead exposure among the occupationally exposed workers. **Environmental Science and Pollution Research**. 26: 33541-33554. **PMID:** 31583521. **Impact Factor -4.2.**

48. Ansari MO, Ahmad FM, Parveen N, Wani AL, Jameel S, Afrin S, Rahman Y, Siddique HR, Tabish M, GGHA Shadab. **2019**. Evaluation of DNA Interaction Studies and Toxicity Induced by Iron Oxide Nano particle both *in vitro* and *in vivo*: Attenuation by Thymoquinone. **Nature Scientific Reports.** 9: 6912. PMID: 31061500. **Impact Factor- 4.4.**

49. Ahmad FM, Ansari MO, Sana J, Wani AL, Parveen N, Siddique HR[#], GGHA Shadab[#]. **2018**. Protective

role of nimbolide ameliorates against chemotherapeutic drug hydroxyurea induced genetic and oxidative damage in an animal model. **Environmental Toxicology & Pharmacology.** 60: 91-99. PMID: 29679812. **Impact Factor- 4.9** #= Corresponding authors.

50. Ansari MO, Ahmad FM, GGHA Shadab, Siddique HR. **2018**. Superparamagnetic iron oxide nanoparticles-based cancer theranostics: a double edge sword to fight against cancer. **J of Drug Delivery Science & Technology**. 45: 177-183**. Impact Factor- 4.0**

51. Siddique HR, Zheng M, Kou Y, Chen CL, Kumar DBU, Punj V, Winer P, Pita A, Sher L, Tahara, SM, Giacca M, Ray RB, Elowitz M, Liang C, Chen L, Tsukamoto H, Machida, K. **2018**. Cell fate and metabolic reprogramming of tumor-initiating stem-like cells. **Alcoholism: Clinical and Experimental Research**, 42 (S2). Art. No. 427. **Impact Factor-3.5**.

52. Siddique HR, Shadab GGHA. **2018.** Phosphorylation of NUMB promotes self-renewal and chemoresistance of cancer stem cells. **Cancer Medicine** 2018; 7: (S1); p16. **Impact Factor-4.5**.

53. Ansari MO, Ahmad MF, Siddique HR, Shadab GGHA. **2018.** Nimbolide ameliorates anti-cancer drug Hydroxyurea induced clastogenicity and oxidative damage. **Cancer Medicine** 2018; 7: (S1); P39. **Impact Factor-4.5.**

54. Siddique HR, Zheng M, Winer P, Kumar DBU, Rokan A, Sher L, Tahara SM, Elowitz M, Liang C, Tsukamoto H, Machida K. **2018.** Cell Fate Reprogramming of Liver Tumor-Initiating Stem-Like Cells Induced by Alcohol Western Diet via Phosphorylated Numb and TBC1D15. **Clinical and Experimental Research**. 42: S1. Art. No. 161. **Impact Factor-3.5**

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56. Siddique HR, Parray A, Zhong W, Karnes JR, Bergstralh EJ, Koochekpour S, Rhim JS, Konety BR, Saleem M. 2013. BMI1, Stem Cell Factor Acting as Novel Serum-biomarker for Caucasian and African-American Prostate Cancer. **PLoS One** 8: e52993. PMID: 23308129. **Impact Factor-3.2.**

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60. Siddique HR, Sharma A, Gupta SC, Murthy RC, Dhawan A, Saxena DK, Kar Chowdhuri D. **2008**. DNA damage induced by industrial solid waste leachates in *Drosophila melanogaster*: A mechanistic approach. **Environmental & Molecular Mutagenesis** 49: 206-216. PMID: 18240159. **Impact Factor-3.2**.

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67. Siddique HR, Gupta SC, Dhawan A, Murthy RC, Saxena DK, Kar Chowdhuri D. **2005.** Genotoxicity of industrial solid waste leachates in *Drosophila melanogaster*. **Environmental & Molecular Mutagenesis** 46: 189-197. PMID: 16114001. **Impact Factor-3.2**

D. PUBLICATIONS WITH IMPACT FACTOR ≤2.0 or new Journals

68. Khan MA, Singh D, Siddique HR. **2019**. Animal Models in Cancer Chemoprevention. **International J of Zoology and Animal Biology.** 2: 000171. https://doi.org/10.23880/izab-16000171. **Impact Factor- 1.8**

69. Ansari MO, GGHA Shadab, Siddique HR. **2017**. Targeting Cancer Signaling Pathways by Nimbolide: A review on Chemoprevention and Therapeutic Studies (**Invited article**). **Cancer Therapy & Oncology International Journal** 8(4): 555741. **Impact Factor- 1.2**

70. Siddique HR. **2016**. CRSPR/CAS9 Technology: A Revolutionary Molecular Scissors for Genome Editing and Genetic Research **(Editorial)**. **Cell Science & Report** 3(1):21–24. Doi: 10.15406/mojcsr.2016.03.00046

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BOOK CHAPTERS (TOTAL =07)

1. Siddique HR, Fatma H, Khan MA. **2020**. Medicinal Properties of Saffron with Special Reference to

Cancer- A Review of Pre-clinical Studies. In: *Saffron: The Age-Old Panacea in New Light*. (Eds. Sarwat M & Sumaiya S) Publisher: Academic Press (**Elsevier)** Chapter-18. Pages-233-244 ISBN: 978-012-81-8462-2.

2. Singh D, Siddique HR. **2021**. Role of Growth Factors in the Treatment of Diabetic Foot Ulceration. In: Diabetic Foot Ulcer (Zubair M., Ahmad J., Malik A., Talluri M.R. (eds). Publisher: **Springer Nature, Singapore.** Chapter-15. Pages. 233-249. ISBN 978-981-15-7638-6.
3. Khan MA, Siddique HR. **2021**. The Multi-Targeting Efficacy and Therapeutic Effects of Ayurveda and Chinese Medicine: An Integrated Approach for Cancer Treatment and Management. Publisher: CRC Press, Taylor and Francis (Accepted).
4. Fatma H, Siddique HR. **2021.** Herbal Medicine to Cure Male Reproductive Dysfunction. In: Herbal Medicines: A boon for Humans. Publisher: **Elsevier, USA.** Chapter-20, Publisher: Elsevier (Accepted).
5. Singh D, Siddique HR. **2021**. Targeting Metabolism With Herbal Therapy: A Preventative Approach Towards Cancer. In: Herbal Medicines: A boon for Humans. Publisher: **Elsevier, USA.** Chapter-27. (Accepted)
6. Singh D, Khan MA, Siddique HR. **2021**. PLGA based nanoparticles for treatment of inflammatory diseases. In: Poly(lactic-co-glycolic acid) (PLGA) nanoparticles for Drug Delivery (Kesharwani P; ed). Publisher: **Esevier, USA,** Chapter-07. (Accepted)
7. D'Souza LC, Paithankar JG, Siddique HR, Sharma A. **2021**. Future of herbal medicines in assisted reproduction. In: Herbal Medicines: A boon for Humans. Publisher: **Elsevier, USA.** Chapter-27. (Accepted)

EDITORIAL BOARD MEMBER

1.	Recent Patents on Anti-Cancer Drug Discovery (Bentham Science); **ISSN: 1574-8928**
2.	MOJ Cell Science & Report, **USA ISSN: 2374-6920**
3.	Cancer Therapy & Oncology International Journal (CTOIJ), USA **ISSN:2473-554X**
4.	Biosciences, Biotechnology Research Asia, India **ISSN: 0973-1245**

5. International Journal of Zoology and Animal Biology (IZAB), USA **ISSN: 2639-216X**

INVITED TALKS AND PRESENTATIONS

1. Siddique HR. **2020**. Drug-Resistant Prostate Cancer: Chemosensitization by Lupeol. Webinar on "Alternate Animal Models in Biological Research". May 27. Indian Institute of Toxicology Research, Lucknow.
2. Siddique HR. **2020**. Drug-resistant castration resistant prostate cancer: Chemosensitization by lupeol. 8th International Translational Cancer Research on Conference on Role of Inflammation & Immune System for Cancer Prevention & Treatment. February 13-16. Institute of Science, Department of Biochemistry, Banaras Hindu University, Varanasi-221005. IL-25. Page-18.
3. Siddique HR. **2019**. Targeting Chemoresistant Tumours by a Pentacyclic Triterpene. Pandu College, Gauhati University. Guwahati, India. May 29.
4. Siddique HR. **2019**. Chemosensitisation of Therapy Resistant Tumours: Multitargeting by Lupeol, A Pentacyclic Triterpene. Conference on Recent Developments in Biomedical, Unani and Ayurvedic Translational Research & Darker Side of Rampant Use of Lead Based Products. March 9-10, JNMC, AMU, Aligarh. NATCON-IL-24.
5. Siddique HR. **2018.** Targeting Self-Renewal Pathways in Cancer Stem Cells to Control the Cancer Recurrence and Chemoresistance. International Conference on Biochemical Innovations: Translating Cellular Cues into Novel Therapeutics and Annual Conference of Indian Academy of Biomedical Sciences. SKIMS, Srinagar, Kashmir. April 20-22.
6. Siddique HR, GGHA Shadab. **2018.** Phosphorylation of NUMB promotes Self-renewal and Chemoresistance of Cancer Stem Cells. Indo-US joint International Conference on "Cell Death in Cancer and Toxicology", IITR, Lucknow. February 20-22.
7. Siddique HR, Ansari MO, Shadab GGHA. **2017.** Long non-coding RNAs in Cancer Stem Cells: Unravelling Pathways and Therapeutic Challenges. World Neuro Congress-2017 on Neurogenomics and Stem Cell Therapy 9-10 December. JNMC, AMU, Aligarh. P-45.

8. Siddique HR and Keigo M. **2015**. NANOG-NUMB-p53 axis as a novel target for alcohol promoted HCC. Southern California Research Center for ALPD & Cirrhosis, The 17th Annual Symposium on Emerging Therapeutic Targets for ALPD and Cirrhosis. December 4. University of Southern California, Los Angeles. CA.

9. Siddique HR. **2013.** How to explore your best abilities as the future belongs to knowledge-based societies. Auditorium Hall, College of Veterinary Science, Assam Agricultural University, Guwahati, December 08.

10. Siddique HR, Parray A, Deng Y, Saleem M. **2013**. A Novel Pathway involving TCF-driven *Bcl2* under regulation of BMI-1 Stem Cell factor: Role in Chemoresistance. The Biomedical Informatics and Computational Biology Symposium. January 18, University of Minnesota, Rochester, MN.

11. Siddique HR, Mishra SK, Karnes RJ, Konety BR, Panyam J, Saleem M. **2012**. Lupeol, a Novel Androgen Receptor: Implications in Prostate Cancer Therapy. 3rd Annual Masonic Cancer Center Research Symposium, Twin Cities, MN, May 30.

12. Siddique HR, Liao J, Mishra SK, Schuster T, Wang L, Matter B, Campbell PM, Villalta P, Nanda S, Deng Y, Saleem M. **2012**. Epicatechin-rich cocoa polyphenol inhibits Kras-activated pancreatic ductal carcinoma cell growth in vitro and in a mouse model. 3rd Annual Masonic Cancer Center Research Symposium, Twin Cities, MN, May 30.

13. Siddique HR, Tarapore R, Parray A, Karnes JR, Bergstralh EJ, Konety BR, Saleem M. **2012**. A novel pathway involving Tcf-driven Bcl2 under regulation of Bmi-1 stem cell factor: Role in chemoresistance of prostate tumors. 3rd Annual Masonic Cancer Center Research Symposium, Twin Cities, MN, May 30.

14. Siddique HR. **2011**. Lupeol, a novel androgen receptor inhibitor acts as a double-edged sword: Competitive binding as well as transcriptional inhibition. Lecture: 1494. Session: MS.EN01.01 - Steroid Receptors in Cancer, 102nd AACR Annual Meeting 2011. April 03, Orlando, FL.

15. Siddique HR. **2011**. Lupeol, a novel androgen receptor inhibitor acts as a double-edged sword: Competitive binding as well as transcriptional inhibition. Lecture: 1494. Session: MS.EN01.01 - Steroid Receptors in Cancer, 102nd AACR Annual Meeting 2011. April 03, Orlando, FL.

16. Saleem M, Siddique HR, Tarapore RS, Zhong W, Kohl A. **2011**. Bmi-1 polycomb group protein, drives proliferation of normal and malignant prostate epithelial cells: Role in chemoresistance and a novel therapeutic target. Department of Defense (DOD)-IMPACT conference, Orlando, FL. March 11

17. Siddique HR, Bauman R, Saleem M. **2010**. Bmi-1 a Stem cell- associated factor Regulates Bcl2 through Wnt Signaling: Implications on Prostate Cancer Cell Survival and Proliferation. 2nd Annual Masonic Cancer Center Research Symposium, University of Minnesota, Minneapolis, USA. June 10.

18. Kar Chowdhuri D, Siddique HR, Sharma A, Saxena DK. **2009**. Industrial solid waste leachates induced genotoxicity: models and assays. 10th International Conference on Environmental Mutagens (ICEM). Firenze- Italy. August 20-25.

19. Kar Chowdhuri D, Siddique HR, Gupta SC, Saxena DK. **2007**. Fly to environment: Toxicological Perspectives. 30th All India Cell Biology Conference, Depart of Zoology, Delhi University. February 2-4.

20. Dhawan A, Siddique HR, Kar Chowdhuri D. **2005**. *Drosophila melanogaster* as an *in vivo* model for genotoxicity assessment using modified alkaline Comet assay. International symposium on diet in causation and prevention of cancer and XXX annual conference of Environmental Mutagen Society of India. Indian Institute of Toxicology Research, Lucknow, India. March 17-19.

FULL RESEARCH PAPER PUBLISHED IN CONFERENCE PROCEEDING

1. Khan F, Sherwani AF, Siddique HR, Azfer MA. **2002**. Agglutination activity of lectins on RBCs of humans and their mitogenic action on human lymphocytes. **Proceeding Volume of National Conference on Expanding Horizons of Human Genetics** 1: 95-100

RESEARCH WORK PUBLISHED IN PROCEEDINGS OF CONFERENCES

INTERNATIONAL:

1. Singh D, Khan MA, Siddique HR. **2020.** Protective role of a plant flavone apigenin against chemotherapeutic drug sorafenib induced genetic and oxidative damage in an animal model. 8th

International Translational Cancer Research on Conference on Role of Inflammation & Immune System for Cancer Prevention & Treatment. February 13-16. Institute of Sciences, Department of Biochemistry, Banaras Hindu University, Varanasi-221005. PP-30. Page-111.

2. Zehra S, Gomez-Ruiz S, Siddique HR, Arjmand F. **2020**.Water soluble ionic metal based drugs targeted to RNA as potent candidates against prostate cancer stem cells. International Conference on Emerging Trends in Chemical Sciences. February 15-16. Page 153. Department of Chemistry, AMU, Aligarh.

3. Yousuf S, Siddique HR, Tabassum S. **2020.** Biophysical binding profile with ct-DNA and cytotoxicity studies of a modulated nanoconjugate of umbelliferone cobalt oxide loaded on graphene oxide (GO) as drug carrier. International Conference on Emerging Trends in Chemical Sciences. February 15-16. Page 150. Department of Chemistry, AMU, Aligarh

4. Khursheed S, Roisnel T, Siddique HR, Arjmand F. **2020**. Antitumor drug entities derived from substituted (F^-,Br^-, -CH3) 3-formylchromone ligand scaffold: comprehensive biological studies binding profile with ctDNA, cleavage with pBR322 plasmid DNA and cytotoxicity activity on the human liver carcinoma (Huh7) and Prostate cancer (Du-145) cell lines. International Conference on Emerging Trends in Chemical Sciences. February 15-16. Page 139. Department of Chemistry, AMU, Aligarh.

5. Siddique HR, Arjmand F. **2019.** Targeting Long Non-Coding RNAs in Cancer Stem Cells by Metallodrugs: A Possible Way to Fight Against Therapy Resistant Cancer. International Conference on Advances in Zoological Research (ICAZR) March 09-10. ST-5-075. Department of Zoology, AMU, Aligarh.

6. Khan AM, Maurya SK, Shadab GGHA, Siddique HR. **2019**. Ameliorative Effect of a Polyherbal Unani Formulation, *Majoon Suranjan* Against Bisphenol Induced Genotoxicity in Wistar Rats. International Conference on Advances in Zoological Research (ICAZR). March 09-10. Department of Zoology, AMU, Aligarh. ST-5-076

7. Singh D, Shadab GGHA, Siddique HR. **2019.** Evaluation of The Genomic Instability Caused Xenoestrogen- Bisphenol A, Using Cytogenetic and Histopathological Parameters *In Vivo*. Interna Conference on Advances in Zoological Research (ICAZR) March 09-10. Department of Zoology,

Aligarh. ST-5-077.

8. Fatma H, Shadab GGHA, Siddique HR. **2019.** Zinc Oxide Nanoparticle- A Nanoscale Monster or A Boon: Cytogenetic and Biochemical Assessment In Vivo. International Conference on Advances in Zoological Research (ICAZR), AMU, Aligarh, March 09-10. ST-5-078

9. Ansari MO, Siddique HR, Shadab GGHA. **2019.** Oxidative Stress and Genotoxicity induced by iron oxide nanoparticles and its attenuation by thymoquinone: an *in vitro* and *in vivo* study. International Conference on Advances in Zoological Research (ICAZR), AMU, Aligarh, March 09-10. ST-7-193.

10. Shadab GGHA, Siddique HR, Wani AL. **2019**. Red cell distribution width among occupational workers is significantly influenced by lead related exposure. International Conference on Advances in Zoological Research (ICAZR), AMU, Aligarh, March 09-10. ST-7-238

11. Wani AL, Siddique HR, Shadab GGHA. **2019.** Impact of Zinc levels on the toxic manifestations of lead exposure among occupationally exposed workers. International Conference on Advances in Zoological Research (ICAZR), AMU, Aligarh, March 09-10. ST-7-093.

12. Parveen N, Siddique HR**,** Shadab GGHA. **2019**. *In vivo* studies of iron sulfate induced ultra-structural changes and genotoxicity and modulation by thymoquinone. International Conference on Advances in Zoological Research (ICAZR), AMU, Aligarh, March 09-10. ST-7-239.

13. Zheng M, Siddique HR, Winer P, Rokan A, Punj V, Sher L, Tahara SM, Liang C, Tsukamoto H, Machida K. **2018**. Metabolic reprogramming, cell fate decision and non-coding RNA in tumor-initiating stem-like cells. 18th World Congress of Basic and Clinical Pharmacology. July 01-06, Abstract # SY21-2, Kyoto, Japan.

14. Siddique HR, Parray A, Jin R, Konety BS, Matusik RJ, Saleem M. **2012**. Identification of a Master Switch that regulates Androgen Receptor/ AR variant-induced Signaling in Castration-resistant Prostate Cancer: Evidences in humans and transgenic mouse models. Society for Basic Urologic Research Fall Symposium (SBUR). Miami, FL, November 15 - 18, Poster # 31.

15. Parray A, Siddique HR, Noterman M, Mishra SK, Aburatani H, Saleem M. **2012.** Loss of Robo1 gene is a critical event in castration-resistance development: Novel bio-marker for CRPC detection and target

of therapeutics. Society for Basic Urologic Research Fall Symposium (SBUR). Miami, FL, November 15 - 18, Abstract # 51.

16. Siddique HR, Parray A, Schuster T, Konety BS, Saleem M. **2012.** A dual agent targeting microRNA machinery regulating β-catenin/Akt network improves Sulindac Therapy in Colon Cancer *in vitro* and *in vivo*. Eleventh Annual AACR International Conference on Frontiers in Cancer Prevention Research. Anaheim, California , October 16-19, Abstract # A64

17. Saleem M, Ganju RK, Mishra SK, Siddique HR. **2011**. ROBO1, A Novel Tumor Suppressor Gene Regulates Androgen Receptor during Castration-resistant Prostate Cancer Development: Potential Target of Gene Therapy and Chemotherapy. Society for Basic Urologic Research Fall Symposium. Los Vegas, Nevada. November 10-13. Abstract # 9

18. Saleem M, Siddique HR, Mishra SK, Liao J, Campbell PM, Schuster T. **2011**. Cocoa polyphenol inhibits the growth of KRAS-activated cells representing premalignant stage of pancreatic cancer development in vitro. AACR 102nd Annual meeting. Abstract No. LB461. Orlando, FL, USA. April 2-6.

19. Siddique HR, Tarapore R, M, Zhong W, Kohl A, Saleem M. **2010**. Bmi-1 polycomb group protein drives survival and proliferation of prostate cancer cells undergoing chemotherapy treatment: a novel therapeutic target. Society for Basic Urologic Research Fall Symposium (SBUR). Atlanta, GA November 11-14. Abstract # 25

20. Saleem M, Siddique HR. **2010**. Lupeol triterpene, a potential inhibitor of androgen receptor that acts as double-edged sword: blunting androgen-dependent and -independent prostate cancer. Society for Basic Urologic Research Fall Symposium. Atlanta, GA November 11-14. Abst # 33.

21. Siddique HR, Bhargav D, Gupta SC, Saxena DK, Kar Chowdhuri D. **2006**. Biomarkers of stress and cellular damage in *Drosophila melanogaster*: Possible role of reactive oxygen species (ROS). EMBO workshop on Developmental Mechanisms and Disease Models, Department of Biological Sciences and Bioengineering, IIT, Kanpur. December 16-20. Abstract No. P2-36.

NATIONAL:

22. Shadab GGHA, Singh D, Ansari MO, Ahmad MF, Parveen N, Siddique HR. **2018**. Evaluation of toxicity

of Bisphenol-A by cytogenetic and histopathological parameters in vivo. National Conference on Impact of Environmental Xenobiotics on Human Health and Biodiversity. March 30-31. Department of Zoology, University of Lucknow, Lucknow-226007 In Collaboration with: Department of Higher Education, Government of Uttar Pradesh. Abstract # TFBO-01

23. Siddique HR, Mitra K, Bajpai VK, Murthy RC, Saxena DK, Kar Chowdhuri D. **2007**. Adverse effects of the complex chemical mixture in development and reproduction of *Drosophila melanogaster*: role of sex peptide and accessory gland protein. 31st All India Cell Biology Conference, Banaras Hindu University. December 14-16. Abstract No. P-22.

24. Gupta SC, Siddique HR, Saxena DK, Kar Chowdhuri D. **2007**. Organophosphates induced ROS generation modulates Hsp70 expression, antioxidant defense enzymes and programmed cell death in Drosophila. 30th All India Cell Biology Conference, Department of Zoology, Delhi University. February 2-4. Abstract No. P-61.

25. Siddique HR, Murthy RC, Saxena DK, Kar Chowdhuri D. **2006**. Hazardous effects of industrial solid waste leachates: proteotoxicity and Hsp70 expression in transgenic *Drosophila melanogaster (hsp70-lacZ) Bg*^{9}. 29th "All India Cell Biology Conference and Symposium on Gene to Genome: Environment and chemical interaction". Venue: Indian Institute of Toxicology Research, Lucknow, India. Jan. 17-20. Abstract No- P-37

26. Siddique HR, Bhargav D, Dhawan A, Murthy RC, Saxena DK, Kar Chowdhuri D. **2005**. Genotoxicity assessment of industrial solid waste leachates using *Drosophila melanogaster* as an alternative animal model. National symposium on "Recent trends in environmental biology and biotechnological approach to conserve biodiversity". Gulbarga University, Gulbarga, Karnataka, India. October 22-24. Abstract No-171.

27. Siddique HR, Gupta SC, Dhawan A, Murthy RC, Saxena DK, Kar Chowdhuri D. **2004**. Detection of *in vivo* genotoxicity of leachates from industrial solid wastes in *Drosophila melanogaster* using modified alkaline Comet assay. 28th "All India Cell Biology Conference and Symposium on Genome Biology". Punjab University, Chandigarh, India. December 01-03. Abstract No. P-18.

28. Kar Chowdhuri D, Mukhopadhyay I, Nazir A, Siddique HR, Gupta SC. **2004**. *Drosophila melanogaster*: An *in vivo* model for toxicity assessment. Workshop on Current Techniques in Genetic Toxicology. Indian Institute of Toxicology Research, Lucknow, India. December 01-15.

29. Gupta SC, Siddique HR, Saxena DK, Kar Chowdhuri D. **2004**. The study of correlation between stress response and antioxidant defense systems against xenobiotic toxicity. 28th "All India Cell Biology Conference and Symposium on Genome Biology". Venue: Punjab University, Chandigarh, India. December 01-03. Abstract No- P-49.

30. Kar Chowdhuri D, Siddique HR, Dhawan A, Saxena DK. **2004**. Validation of *Drosophila melanogaster* as *in vivo* model for genotoxicity assessment using modified alkaline Comet assay. 28th "All India Cell Biology Conference and Symposium on Genome Biology". Venue: Punjab University, Chandigarh, India. December 01-03, Abstract No- P-71.

TEACHING EXPERIENCES

- Conducting lecture and Practical Classes in both undergraduate, Post-Graduate, and Ph.D. classes on Animal Physiology, Microbial Genetics, Molecular Biology, Cell Biology, Recent Trends in Zoology, Proteomics and Genomics, Bio-techniques, and Animal Diversity offered by Aligarh Muslim University, India.
- Conducted lectures and practical classes for graduate students (Biochemistry, Cancer Biology, and Stem Cells Biology) offered by Moffitt Cancer Center**,** USA.
- Conducted lectures and practical classes for graduate and undergraduate students (Biochemistry, Cancer Biology, and Stem Cells Biology) offered by the University of Southern California**,** USA.
- Conducted lectures and practical classes for graduate and undergraduate students (Biochemistry, Cancer Biology, and Genetics) offered by the University of Minnesota**,** USA.
- Participated in Summer Student Training Program at Indian Institute of Toxicological Research (IITR), Lucknow, India.

PROFESSIONAL MEMBERSHIPS

A. LIFE MEMBER

8. The Science Advisory Board, USA (Since 2011).

1. The National Academy of Sciences, India. (Since 2021)
2. The Biotech Research Society of India (Since, 2021).
3. Indian Association for Cancer Research (Since 2018)
4. Indian Academy of Biomedical Sciences (Since 2017)
5. Indian Society of Cell Biology (Since 2004).
6. The Indian Science Congress Association (Since, 2018).
7. Society of Pharmaceutical Education & Research, India (Since 2019).
9. Environmental Mutagen Society of India (Since 2005).

B. ACTIVE MEMBER:

10. American Association of Cancer Research (Since 2017; Associate Member since 2010)
11. Royal Society of Biology-London (Since 2018)

C. ASSOCIATE MEMBER

12. Society for Basic Urologic Research, USA(Since 2011).

PATENTS

A. **Published**

1. A polyherbal Unani formulation *Majoon suranjan* effective against cancer cells alone as well as in combination with anticancer drug Sorafenib. Aligarh Muslim University. **Application Number**: **202011007071**

B. **Filed**

2. BMI1 Stem Cell Protein: A Novel Serum-Biomarker for Diagnosis and Prognosis of Prostate Cancer. University of Minneso**a Case number 20120301 and Docket: ROI20120301.**
3. Identification of Small Molecule Inhibitors of BMI1, a Polycomb Protein. University of Minnesota Case number **20130173 and Docket: ROI20130173.**
4. Identification of Small Molecule Inhibitors of S100A4, a Calcium Binding Protein and a Cancer Metastasis Factor. University of Minnesota Case number **20130172 and Docket: ROI20130172.**

PROFESSIONAL EXPERIENCES

2018-till: Senior Assistant Professor, Aligarh Muslim University, Aligarh, India.

2017-2018: Assistant Professor, Aligarh Muslim University, Aligarh, India.

2016-2017: Moffitt Cancer Center (an NIH comprehensive Center) & TechnoGenesys, Inc, FL, USA

2013-2016:	University of Southern California School of Medicine, CA, USA.
2010-2013:	The Hormel Institute, University of Minnesota, MN, USA
2009-2010:	University of Wisconsin, Madison, WI, USA.
2008-2009:	Louisiana State University, New Orleans, LA, USA.

REVIEWER OF SCIENTIFIC JOURNALS

1.	Chemosphere, Elsevier,	2.	Genetics, USA
3.	Cancer Medicine, Wiley & Sons.	4.	Molecular and Cellular Biochemistry, Springer,
5.	Clinica Chimica Acta, Elsevier,	6.	Journal of Physiology and Biochemistry
7.	Frontiers Oncology, Frontiers.	8.	Journal of Applied Toxicology, Wiley & Sons
9.	Physica E: Low-dimensional Systems and Nanostructures, Elsevier,	10.	Colloids and Surfaces B: Biointerfaces, Elsevier,
11.	Plos One, Plos Group,	12.	The Journal of Gene Medicine, Wiley & Son
13.	BioMed Research International, Hindawi.	14.	Human and Experimental Toxicology. SAGE,
15.	Current Medicinal Chemistry, Bentham	16.	Journal of Nutritional Medicine and Diet Care
17.	Current Pharmaceutical Design, Bentham	18.	The Journal of Environmental Biology, India.
19.	Cancer Therapy & Oncology International Journal (CTOIJ), USA	20.	Recent Patents on Anti-Cancer Drug Discovery, Bentham
21.	Hepatic Oncology, Future Medicine	22.	Journal of Cancer, Ivy spring Int. Publisher
23.	*In Silico* Pharmacology, Springer	24.	Toxicology and Industrial Health, SAGE
25.	MOJ Cell Science & Report, MedCrave	26.	Saudi Pharmaceutical Journal, Elsevier
27.	Food and Chemical Toxicology, Elsevier	28.	Biosciences, Biotechnology Research Asia, India
29.	Redox Report, Maney Publishing,	30.	Molecular Biology Reports, Springer,
31.	Peptide Research & Therapeutics, Springer	32.	Non Coding RNA Research, Elsevier
33.	World J of Surgical Oncology, Springer	34.	International J of Medical Sciences, Ivyspring Int

	Nature		Publisher
35.	Plant Gene, Elsevier	36.	Drug Discovery Today, Elsevier
37.	Environmental Sustainability, Springer	38.	Pathology - Research and Practice, Elsevier
39.	3Biotech, Springer	40.	International J of Nanomedicine, Dove Press
41.	J of International Medical Research, SAGE	42.	Environmental Toxicology, Wiley
43.	OBM Genetics. Lidsen publishers, USA	44.	BioMed Research International, Hindawi
45.	Methods, Elsevier	46.	Environmental Pollution, Elsevier
47.	Food & Function, RSC Publications	48.	BBA-Reviews on Cancer, Elsevier.
49.	Future J of Pharmaceutical Sciences, Springer	50.	Arabian Journal of Chemistry, Elsevier
51.	Medical Science Reporter, Int Scientific Information, Inc.	52.	Computers in Biology and Medicine, Elsevier

SPECIAL TRAINING EXPERIENCE (TOTAL= 26)

1. **2021** 5-Day Faculty Enrichment Programme (FEP) on "***Cutting Edge Science in Cellular and Molecular Biomedicine***" organized by Amity Institute of Molecular Medicine and Stem Cell Research, Amity University UP, Noida, India. 27th-31st July.
2. **2021:** EBSCO Discovery & Open Athens online Training, Organized by Maulana Azad Library, Aligarh Muslim University, Aligarh, India. July 13.
3. **2020:** Indian Science Academies **"Science Leadership Workshop"** India's first leadership Program organized by Central University of Punjab, Bathinda, India, from June 22-June 28.
4. **2020:** **"Subject Refresher Course"** from April 20 to May 02, 2020, at UGC Human Resource Development Centre, AMU, Aligarh.
5. **2020:** Training on **"On-line Teaching Course"** from April 20 to April 23, 2020, at UGC Human Resource Development Centre, AMU, Aligarh.
6. **2019:** **Selected as one of the Faculties** to participate in the ***"EMBO Laboratory Leadership"***

Programme. New Delhi, India. (Sponsored by the Welcome Trust-DBT) March 18-12.

7. **2019:** Invited to attend the **Indian Education Congress 2019**. 9th National Convention on Business of Education. Hotel JW Marriot, New Delhi February 12-13.

8. **2018:**. **"Subject Refresher Course"** from September 04 to September 25, 2018, at UGC Human Resource Development Centre, AMU, Aligarh

9. **2018:** Worked as one of the members (out of five for Biosciences) to prepare National Resources for higher education in the "Workshop on Identification of Subject wise Resources for Teachers in Higher Education" at NIEPA, New Delhi, June 6-8.

10 **2018:** National Life Sciences Fest "BIOSPARK" held at Aligarh Muslim University, Aligarh, India.

11 **2018:** "**Project Funding in Higher Education**" was held on March 10, 2018, organized by the Academic Programme s Committee of AMU with DST, DBT, AICTE, ICSSR, ICMR, and UPCST.

12 **2018:** **"Induction Course"** from February 26, 2018, to March 04, 2018, at UGC Human Resource Development Centre, AMU, Aligarh.

13 **2018:** **"Orientation Programm"** from January 31 to February 28, 2018, at UGC Human Resource Development Centre, AMU, Aligarh.

14 **2017:** "Training Programme on Academic Leadership" from 07 September to 13 September 2017 at UGC Human Resource Development Centre, AMU, Aligarh.

15 **2014:** Aseptic Technique for Rodent Survival Surgery, Animal care laws, working with laboratory mice, Guide for the care and use of laboratory animals.

16 **2014:** Training on working with controlled substances, occupational health and animal biosafety, common compliance issues,

17 **2014:** Radiation Safety Training at the University of Southern California.

18 **2014:** Received training on BSl3 laboratory maintenance and creation of humanized mice.

19 **2010-2013:** Regularly attend the **Minnesota Chemoprevention Consortium** meetings at Austin, Twin Cities and, Rochester, MN.

20 **2007:** **Invited** as one of the **Young Researchers** to demonstrate Comet assay, Reporter gene assays, and RT-PCR at Seminar-cum-Workshop on "**Techniques in Molecular Biology and Genotoxicity.**" Venue: Depart of Zoology, University of Allahabad**,** India**.** March 17-20.

21 **2006:** **Selected as one of the young researchers** to participate at "International Symposium on Environmental Factors, Cellular Stress, and Evolution." Banaras Hindu University, Varanasi, India. (Sponsored by the **IUBS, Paris**). October 13-15.

22 **2005**: Workshop on Current Techniques in **Genetic Toxicology**. Venue: Indian Institute of Toxicology Research, Lucknow, India. December 01-15.

23 **2004**: Training Workshop on **Scientific Communication**. Venue: Indian Institute of Toxicology Research, Lucknow, India. July 24-25.

24 **2004**: Training Workshop on **Research Methodology and Statistical Methods in Biomedical Research**. Venue: Indian Institute of Toxicology Research (IITR), Lucknow, India. July 26-28.

25 **2004:** **Selected as one of the young researchers** to participate at Training, Seminar, and Workshop on "**Alternatives, Animal Welfare, and the Curriculum.**" Organizer: International Centre for Alternatives in Research and Education, Chennai, India; August 28. Venue: IITR, India

26 **1995:** Active member of the Volunteer Committee of the National Seminar on Recent Researches in Sciences and Technology. November 5-7. Venue: Karimganj College, Assam University.

POPULAR ARTICLES IN MAGAZINES NEWSPAPERS

1. Siddique HR. **2021**. How Money-Making Private Educational Institutes and Non-Performing Public Educati Institutes are Killing the Creativity of Our Future Generation. **PMG Voice, Guwahati.**
2. Siddique HR. **2018**. Adverse Health Effects of Arsenic Chronic Exposure: A Brief Note in Layman Te ***Barak*** 6: 108-112.
3. Siddique HR. **2015**. (Bengali). Biplobi Aziz Ahmed Choudhury: Jar Jonmo Shudhu Desh Premer Jonyo. **Ag Projonmo** p-2-4
4. Siddique HR. **2015**. Antibiotic overuse/misuse: A dangerous trend in India. ***Barak*** 3: 66-70
5. Siddique HR. **2015**. Muslim proschadpodotar Prekkhapot Sondane (Bengali). ***Samayik Prasnaga.*** Edit

Page (Page 4). March 02

6. Siddique HR. **2013**. Root of Muslim Backwardness: The Role of Illiteracy. ***Barak*** *2:72-74.*

7. Siddique HR. 2010. How to explore the best education opportunities: my little experience? Friends, Publis by Friends of Assam and Seven Sisters & Assam Foundation of North.

CONFERENCE/SEMINAR/WORKSHOPS ATTENDED

1. **2021:** Annual Meeting of American Association for Cancer Research, USA
2. **2021:** 40th Annual Conference of Indian Association for Cancer Research. March 01, 2021. Organized by Institute of Life Sciences, Bhubaneswar, Orissa, India.
3. **2021:** Attendend the Extension lecture on Diabebets at rajiv Gandhi Centre for Diabebtes & Endrocrinology. April 04. JN Medical College, Aligarh Muslim University. India
4. **2021:** International e-Conference on Brain Tumors and Stem Cell. Theme: Stem Cell as a Therapeutic approach for brain Tumors. February 4-5. JNMC, AMU, Aligarh.
5. **2020:** One day Webinar on "**Biology and Medicine: Recent Advances"** organized by Department of Zoology, Aligarh Muslim University, Aligarh. **October 10.**
6. **2020:** One Week Workshop on "**Science Leadership Workshop"** by the three Indian Science Academies Organizer: Central University of Punjab, Bathinda, India from June 22-June 28.
7. **2020:** One-day Symposium on International Collaboration and prospects for STEM education and Research. March 05**,** Department of Chemistry, AMU, Aligarh.
8. **2020:** 8th International Translational Cancer Research on Conference on Role of Inflammation & Immune System for Cancer Prevention & Treatment. February 13-16. Institute of Science, Department of Biochemistry, Banaras Hindu University, Varanasi-221005. IL-25.
9. **2020:** International Conference on Emerging Trends in Chemical Sciences. February 15-16. Department of Chemistry, AMU, Aligarh.
10. **2019:** National Symposium on "Biodiversity and Sustainable Development" at Department of Zoology, Aligarh Muslim University, Aligarh, India.
11. **2019:** International Conference [SPER-Bangkok 2019] on Fostering Pharmaceuticals Innovations to

Bridge the Gap in pharmaceutical Research and Industry.

12. **2019:** Workshop on "EMBO Laboratory Leadership" Programme. New Delhi, India. (Sponsored by the Welcome Trust-DBT).
13. **2019:** Conference on Recent Developments in Biomedical, Unani and Ayurvedic Translational Research & Darker Side of Rampant Use of Lead-Based Products. JNMC, AMU, Aligarh.
14. **2019:** International Conference on Advances in Zoological Research (ICAZR). AMU, Aligarh.
15. **2018:** Annual Conference of Indian Academy of Biomedical Sciences. Srinagar, Kashmir
16. **2018:** International Conference on "Cell Death in Cancer and Toxicology," IITR, Lucknow.
17. **2018:** National Conference on Impact of Environmental Xenobiotics on Human Health & Biodiversity. University of Lucknow, India.
18. **2018:** Workshop on Identification of Subject wise Resources for Teachers in Higher Education" at National Institute of Educational Planning and Administration, New Delhi, June 6-8.
19. **2018:** National Life Sciences Fest "BIOSPARK" held at Aligarh Muslim University, India.
20. **2017:** World Neuro Congress-2017 on Neurogenomics and Stem Cell Therapy, AMU, India.
21. **2015:** Annual Meeting of American Association for Cancer Research, USA
22. **2015:** The annual meeting of the Society of Basic Urological Research, USA
23. **2015:** 17th Annual Symposium on Emerging Therapeutic Targets for ALPD & Cirrhosis. CA, USA.
24. **2013:** Biomedical Informatics and Computational Biology Symposium. University of Minnesota, MN.
25. **2012:** Annual Meeting of American Association for Cancer Research, USA
26. **2012:** Society for Basic Urologic Research Fall Symposium (SBUR). Miami, FL.
27. **2012:** 3rd Annual Masonic Cancer Center Research Symposium, Twin Cities, MN.
28. **2012:** 11th Annual AACR Int. Conference on Frontiers in Cancer Prevention Research, CA, USA.
29. **2011:** Annual Meeting of American Association for Cancer Research
30. **2011:** Department of Defense (DOD)-IMPACT conference, Orlando, FL.
31. **2010:** Annual Meeting of American Association for Cancer Research, USA.
32. **2010:** Society for Basic Urologic Research Fall Symposium (SBUR). Atlanta, GA

33. **2010:** 2nd Annual Masonic Cancer Center Research Symposium, University of Minnesota, USA.
34. **2007:** 30th All India Cell Biology Conference, Delhi University, India.
35. **2007:** 31st All India Cell Biology Conference, Banaras Hindu University, India.
36. **2007:** Seminar-cum-Workshop on "Techniques in Molecular Biology and Genotoxicity." University of Allahabad**,** India**.**
37. **2006:** International Symposium on Environmental Factors, Cellular Stress, and Evolution." Banaras Hindu University, India. (Sponsored by the IUBS, Paris).
38. **2006:** EMBO workshop on Developmental Mechanisms and Disease Models, Department of Biological Sciences and Bioengineering, IIT, Kanpur.
39. **2006:** 29th "All India Cell Biology Conference, IITR, India.
40 **2005:** 30th Annual conference of Environmental Mutagen Society of India. IITR, India.
41. **2005:** National symposium on "Recent trends in environmental biology and biotechnological approach to conserve biodiversity." Gulbarga University, Karnataka, India.
42. **2005:** Workshop on Current Techniques in Genetic Toxicology. Indian Institute of Toxicology Research, Lucknow, India.
43. **2004:** 28th "All India Cell Biology Conference. Punjab University, Chandigarh, India.
44. **2004:** Workshop on research methodology & statistical methods in biomedical research. IITR, India.
45. **2004:** Training, Seminar & Workshop on "Alternatives, Animal Welfare, and the Curriculum." Organizer: International Centre for Alternatives in Research and Education, Chennai, India.
46 **2002:** National Conference on Expanding Horizons of Human Genetics, Delhi University, India.
47 **1995:** National Seminar on Recent Researches in Sciences and Technology. Karimganj College, Assam University.

RESEARCH SCHOLARS PURSUING PH.D. UNDER MY GUIDANCE: 03

SN	Name of the Student	Session	Title of the Thesis
1.	Homa Fatma	2017-2018	To study the role of Lupeol in chemosensitization of liver cancer cells

	(MANF-JRF)		and prevention of Sorafenib-induced toxicity
2.	Deepti Singh (CSIR-JRF)	2017-2018	Role of Apigenin in chemoprevention and chemosensitization of hepatocellular carcinoma: special emphasis on combination therapy with Sorafenib
3	Md. Afsar Khan (CSIR-SRF)	2017-2018	Anti-carcinogenic study of selected inorganic based nano-particle against Oral Cancer.

RESEARCH ASSOCIATE: 01

1.	Dr. Tanushree Debbarman	2021-2025	Study of Epigenetic Modulation in Insulin Promoter Region and Associated Growth Factors in Diabetes (Diabetic Neuropathy) and Pancreatic Cancer in both Preclinical and Clinical Settings

M.S./M.D. THESIS PROJECT

1.	Dr. Shahid Ali (JNMC)	2021-2024	Clinicopathological profile of patients with Gallbladder carcinoma and its association with BMI1 Gene expression.

JUNIOR RESEARCH FELLOW (UNDER DST-SERB PROJECT)

1.	Santosh K Maurya	2018-2021	"Role of Lupeol on Chemosensitization of Cancer Stem Cells by Targeting cFLIP/β-Catenin-AR/Nanog-cMyc Module both *in vitro* and in a Mouse Model of Prostate Cancer.

RESEARCH GUIDANCE FOR M.SC. PROJECT WORK

1.	Ms. Javeria Fatima	**2020-2021**	*In Silico* analysis of the pro-apoptotic function of Lupeol against selected Proteins.
2.	Ms. Sumaiya Shahnawaz	**2019-2020**	In Silico analysis of anti-viral, anti-protease, anti-infectious compounds against main Methyltransferase and Protease of SARS-CoV-2
3.	Ms. Kajol Gaur	**2018-2019**	Bisphenol-A induced Toxicity in Rats: Ameliorative Effect

			of a Polyherbal Unani Formulation
4.	Mr. Mohd Shabir	**2017-2018**	Protective Role of *Majoon suranjan* (an Unani formulation) against Bisphenol-A induced genetic damages in an animal model.

POPULAR TALK SHOWS IN TELEVISION

1. Talk on Cancer: DD National.
2. **DD National (Silchar)-TV Interview on Liver cancer**
   Link: https://youtu.be/yUv_hhbgfdY
3. Causes of cancer in Assam: Assam Protidin, Assamese TV Chanel
4. Immunity, Vaccination and Antibiotics: A brief discussion, Taranga Barta, Live TV
   Link: https://www.facebook.com/721878694683525/videos/3387459737948309/
5. **ETV-Interview on Liver Cancer**
   Link: https://www.etvbharat.com/urdu/national/bharat/bharat-news/research-by-amu-scientists-on-liver-cancer/na20200622221520868
6. **Corona Awareness (In local Bengali dialect)**
   Link: https://www.youtube.com/watch?v=6ZtEpnRIyvQ&t=47s
7. **Karimganj District Eiddgah, Assam: Importance of Education among Indian Muslims.**
   Link: https://www.youtube.com/watch?v=0FmEg7Gntfs
8. **Knowledge Plus TV**
   Link: https://www.youtube.com/watch?v=8FGYTymMBL4
9. **Motivational Lecture to AL-Islah National Academy, Karimganj, Assam**
   Link: https://www.youtube.com/watch?v=tdwhPZsLXTc
10. **ISHANER SHAKANAD-TV Interview on Liver cancer**
    Link: https://www.youtube.com/watch?v=3ZkMmD8VYJw

CHAIRPERSON OF THE CONFERENCES

1	**2019:**	International Conference [SPER-Bangkok] on Fostering Pharmaceuticals Innovations Bridge the Gap in Pharmaceutical Research and Industry.
2	**2019:**	International Conference on Advances in Zoological Research at Department of Zoology, Aligarh Muslim University, Aligarh, India.

ADMINISTRATIVE EXPERIENCE

1.	November 2020-till:	Member of preparation NAAC accreditation Committee.
2.	January, 2020-till:	Member of the Departmental "***Animal House Maintenance Committee***"
3.	November 2019-till:	Member of the "Swachata Committee of the Department of Zoology

4.	November 2019-till:	Member of the **Students' Grievance Committee** of the Department of Zoology
5.	November 2019-till:	Member of the **Pro-Proctorial committee** of the Department of Zoology
6.	November, 2019-till:	Responsible for the **maintenance of the Website** of the Department of Zoology
7.	2018-till:	One of the **core committee members** to frame the Syllabus and Curriculum for the course of Molecular Genetics at Master Level
8.	2018-till:	One of the Members of the Smoke-free University Campus
9.	2017-2018 & 2018-2019:	One of the **Moderation Committee membe**rs to moderate question paper for the Faculty of Agriculture Sciences
10.	2017-till:	Member of the University **"Alumni Relation Committee"**
11.	2018:	Internal Examiner for B.Sc. Examination of Department of Zoology.
12.	2018:	Internal Examiner for M.Sc. Examination of Department of Zoology.
13.	2018-till:	Active member of the eShodh Sindhu (eSS) programme of the University.
14.	2018:	Internal Examiner for B.Sc. Examination (2018) of Department of Plant Protection

ORGANIZING COMMITTEE MEMBERS

1.	2019:	National Symposium on "Biodiversity and Sustainable Development" at Department of Zoology, Aligarh Muslim University, Aligarh, India.
2.	2018:	International Conference on Advances in Zoological Research at Department of Zoology, Aligarh Muslim University, Aligarh, India.
3.	2017:	World Neurocongress-2007 at JNMC, Aligarh Muslim University, Aligarh, India

WORLD TOP LIFE SCIENCE COMPANIES CITED MY WORK

1. **SIGMA ALDRICH: https://www.sigmaaldrich.com/catalog/papers/22956858**
2. **EMBL-EBI: https://www.ebi.ac.uk/arrayexpress/experiments/E-GEOD-44049/**

3. **REPROCELL: https://www.reprocell.com/bioserve-publications-human-tissue-samples-i107**

4. **ANOGEN: http://www.anogen.net/human-psa-elisa-kit.html**

LAB IN NEWS (PRINT MEDIA)

1.	**National Herald, New Delhi.** Link: https://www.nationalheraldindia.com/health/amu-scientist-discovers-proteins-that-form-cancer-in-liver	24.	**Austin Daily Herald, USA** Link:https://www.austindailyherald.com/2011/07/institute-scientist-leading-the-way/
2.	**Mohanonda News, Dhaka** Link: http://mohanondanews.com/?p=91650	25.	**Outlook, New Delhi, India** Link:https://www.outlookindia.com/newsscroll/amu-scientist-discovers-proteins-that-form-cancer-in-liver-ians-special/1873607
3.	**Post Bulletin, Rochester, US** Link: https://www.postbulletin.com/austin/news/institute-s-work-is-in-national-spotlight/article_3e2e8f78-8f88-508c-b8e0-14c5313ac7e0.html	26.	**Times of India, Agra, India.** Link:https://timesofindia.indiatimes.com/city/agra/amu-scientist-la-prof-identify-protein-forming-cells-causing-tumour-in-liver-cancer/articleshow/76471111.cms
4.	**Daijiworld, Dubai, UAE** Link: https://www.daijiworld.com/news/newsDisplay.aspx?News ID = 722289	27.	**Madhyamam, Calicut, India** Link:https://english.madhyamam.com/en/science-technology/2020/jun/22/amu-scientist-discovers-proteins-form-cancer-liver
5.	**Punjab News Express, Chandigarh, India.** Link:http://punjabnewsexpress.com/campus-buzz/news/amu-scientist-discovers-proteins-that-form-cancer-in-liver-113273.aspx	28.	**The Statesman, Kolkata, India** Link:https://www.thestatesman.com/india/amu-scientist-discovers-proteins-that-form-cancer-in-liver-1502902476.html
6.	**The Sentinel, Guwahati, India** Link:https://www.sentinelassam.com/tophAeadlines/assamese-scientist-discovers-cells-causing-liver-cancer-484001?infinitescroll=1	29.	**India TV, India** Link: https://www.indiatvnews.com/science/amu-scientist-discovers-proteins-form-liver-cancer-628253
7.	**ETV-Hindi New Delhi, India** Link:https://www.etvbharat.com/hindi/uttar-pradesh/state/aligarh/amu-scientist-discovers-factors-for-liver-cancer/up20200620195046098	30.	**Khoborwala TV, Kolkata, India** Link: https://khoborwalatv.com/dr-siddiqui-a-researcher-of-aligarh-muslim-university-and-other-creat-important-reasearch-for-cirrhosis/
8.	**India Education Diary, Bhubaneswar, India** Link:https://indiaeducationdiary.in/amu-scientist-discovers-central-regulatory-of-pathway-of-liver-cancer-caused-by-alcohol-drinking-and-hepatitis-infection-for-therapeutic-treatment/	31.	**New Kerala New Portal, India** Link: https://www.newkerala.com/news/2020/110883.htm
9.	**The Samikhsya Bhubaneswar, India** Link: https://thesamikhsya.com/breaking-news/amu-scientist-discovers-proteins-that-form-cancer-in-liver	32.	**BDC TV, Boston, USA** Link: https://bdc-tv.com/amu-scientist-discovers-proteins-that-form-cancer-in-liver-ians-special/
10.	**Latest LY, Navi Mumbai, India** Link:https://www.latestly.com/technology/science/aligarh-muslim-university-scientist-discovers-proteins-that-form-cancer-in-liver-1839400.html	33.	**Vishvatimes, Nasik, India** Link: https://vishvatimes.com/amu-scientist-discovers-proteins-that-form-cancer-in-liver
11.	**Sify New Portal, Chennai, India**	34.	**Bhaskar live Bhopal, India**

	Link:https://www.sify.com/news/amu-scientist-discovers-proteins-that-form-cancer-in-liver-ians-special-news-education-ugwj5Igijhaae.html		Link: https://www.bhaskarlive.in/amu-scientist-discovers-proteins-that-form-cancer-in-liver/
12.	**IND News, India** Link: https://ind.news/amu-scientist-discovers-proteins-that-form-liver-cancer-ians-special/	35.	**Andhravilas, Hyderabad, India.** Link: http://www.andhravilas.net/en/AMU-scientist-discovers-proteins-that-form-Cancer-in-liver-IANS-Special
13.	**Jhalak.Com News Portal, Georgia, USA** Link: https://www.jhalak.com/political-news-AMU-scientist-discovers-proteins-that-form-Cancer-in-liver-28107	36	**Muslim Mirror, India** Link: http://muslimmirror.com/eng/amu-scientist-discovers-proteins-that-form-cancer-in-liver/
14.	**Clarion India, Gurgaon, Haryana, India.** Link: https://clarionindia.net/amu-scientist-discovers-proteins-that-form-cancer-in-liver/	37.	**The Hawk, Haridwar India** Link: http://www.thehawk.in/states/uttar-pradesh/amu-scientist-discovers-proteins-that-form-cancer-in-liver-155778
15.	**National Chronicle, Delhi, India.** Link: https://nationalchronicle.in/national/amu-scientist-discovers-proteins-that-form-cancer-in-liver-special/	38.	**Unique News, Mathura, India.** Link: https://www.uniquenewsonline.com/aligarh-muslim-university-scientist-discovers-proteins-that-form-cancer-in-liver/
16.	**AMU News, Aligarh, Inda** Link: https://www.amu.ac.in/about3.jsp?did=2356	39.	**Barak Valley Updates, Silchar, India** Link: https://barakvalleyupdates.com/assam-scientist-discovers-protein-forming-cells-causing-tumour-in-liver-cancer/
17.	**Caltech, CA, USA** Link: https://authors.library.caltech.edu/90393/	40.	**Okhla Times, New Delhi, India** Link: https://www.okhlatimes.com/dr-hifzur-rehman/
18.	**Ohio State University, USA-Best Teacher** Link:http://www.astronomy.ohio-state.edu/~nahar/zoologyprizes-amu.html	41.	**Chauti Duniya, Delhi, India** Link: http://urdu.chauthiduniya.com/dr-hifzur-rehman-siddique
19.	**IANS, Lucknow, India** Link:http://www.ianslive.in/index.php?param=news/AMU_scientist_discovers_proteins_that_form_Cancer_in_liver_IANS_Special-692017/IANS%20SPECIALS	42.	**Assam Tribune, Guwahati, India** Link:http://www.assamtribune.com/scripts/detailsnew.asp?id=jul2820/state050
20.	**AMU News, Aligarh, India** Link:https://www.amu.ac.in/about3.jsp?did=4581	44.	**Tarangabarta, Badarpur, India** Link: https://english.tarangabarta.com/tag/hifzur-r-siddique/
21.	**AMU News, Aligarh, India** Link:https://www.amu.ac.in/about3.jsp?did=4964	45.	**Edu Vast, Delhi, India** Link:https://www.eduvast.com/education/amu-scientist-discovers-proteins-that-form-cancer-in-liver/
22.	**Award, SBUR, USA** Link: https://www.sbur.org/travel-awards	46.	**Aligarh Media, Aligarh, India** Link:http://www.aligarhmedia.com/dr-siddiq-received-the-social-innovation-research-award-2013/
23.	**AMU News, Aligarh, India** Link: https://www.amu.ac.in/about3.jsp?did=4711	47.	**Echo of Arunachal, Itanagar** **Link:http://www.echoofarunachal.in/admin/pdffiles/eef5d3bd339865d7f43b2421fa085149.pdf**

SELECTIVE TOP SCIENTISTS AS CO-WORKERS/ CO-AUTHORS/COLLABORATORS

1.	**Prof. Noona Ambartsumian.** Institute of Neuroscience and Pharmacology, Faculty of Health Sciences, Copenhagen University, 2200, Copenhagen, Denmark	20.	**Prof. Hassan Mukhtar** Professor and Vice Chair for Research, Dermatology Research Laboratories University of Wisconsin, Madison, USA
2.	**Prof. Robert Matusik** Urologic Surgery, Vanderbilt University Medical Center, Nashville, TN 37232, USA	21.	**Prof. Robert J Karnes** Department of Urology, Mayo Clinic Rochester, MN, USA
3.	**Prof. Keigo Machida** Molecular Microbiology and Immunology University of Southern California Health Sciences Campus, Los Angeles, USA	22.	**Prof. Emery Bresnick** Professor; Director, UW-Madison Blood Research Program, University of Wisconsin, Madison, WI USA
4.	**Prof. M. Saleem (Bhat)** Molecular Therapeutics and Cancer Health Disparity Lab, Department of Urology, Masonic Cancer Center, University of Minnesota, Minneapolis MN, USA	23.	**Prof. RK Ganju** Molecular Biology and Cancer Genetics Ohio State University, 460 W 12th Ave, Columbus, OH 43210
5.	**Prof. BR Konety** Department of Urology, Masonic Cancer Center, University of Minnesota, Minneapolis MN, USA	24.	**Prof. Renjie Jin** Department of Urologic Surgery and Vanderbilt Prostate Cancer Center, Vanderbilt University Medical Center, Nashville, Tennessee
6.	**Prof. Hiroyuki Aburatani** Genome Science, Research Centre for Advance Science & Technology, The University of Tokyo, Japan.	25.	**Prof. Hidekazu Tsukamoto, PhD** Keck School of Medicine, University of Southern California, Los Angeles, CA, USA
7.	**Prof. SM Tahara** Keck School of Medicine, University of Southern California, Los Angeles, CA, USA	26.	**Prof. V Punj** Keck School of Medicine, University of Southern California, Los Angeles, CA, USA
8.	**Prof. EJ Bergstralh** Department of Biostatistics, Mayo Clinic Rochester, MN, USA	27.	**Prof. Y Deng** Hormel Institute, University of Minnesota, MN USA
9.	**Prof. Joshua Liao** Pathology Department, Guizhou Medical University Hospital, Guiyang City, Guizhou Province, China	28.	**Prof. Jayanth Panyam** Department of Pharmaceutics University of Minnesota, MN, USA
10.	**Prof. Shahria Koochekpour a** Roswell Park Comprehensive Cancer Center, University at Buffalo, Buffalo, NY, USA	29.	**Prof. Michael B. Elowitz** Professor of Biology and Bioengineering, Howard Hughes Medical Institute, California Institute of Technology, CA 91125, USA
11.	**Prof. Alok Dhawan** Director, Indian Institute of Toxicology Research.	30.	**Prof. Nupam Mahajan** Urological Research, Division of Surgery,

	MG Marg, Lucknow, India.		Washington University School of Medicine, USA
12.	**Prof. Wangu Liu** Department of Genetics, Louisiana State University, New Orleans, LA, USA.	33.	**Prof. Maarten C Bosland** University of Illinois Chicago, IL, USA
13.	**Prof. J S Rhim** Center for Prostate Disease Research, Uniformed Services University of Health Sciences, Bethesda MD, USA	34	**Prof. LH Hoeppner** Department of Molecular Biology and Translational Cancer Research, Hormel Institute, Austin, Minnesota.
14.	**Prof. C Morrissey** Department of Urology, University of Washington, Seattle, Washington, USA	36.	**Prof. P Murugan** Department of Lab Medicine and Pathology, University of Minnesota, Minneapolis, MN, USA
15.	**Prof. T Hussain** Department of Urology, University of Minnesota, Minnapolis, MN, USA	37.	**Dr. Bushra Ateeq** Department of Biosciences & Bioengineering Indian Institute of Technology, Kanpur
16.	**Dr. Sajal Das** Department of Chemistry Tezpur University, Assam	38.	**Dr. Rohit Saluja** Department of Biochemisty All India Institute of Sciences, Bhopal
17.	**Dr. Syed Mustafa Ahmad** Department of Biochemistry CSIR-Central Food Technological Research Institute (CSIR-CFTRI), Mysuru-570020,	39.	**Dr. Maqsood Ahmad** Institute of Nanotechnology King Saud University Saudi Arabia
18.	**Dr. Nidhi Mishra** Chemistry laboratory, department of Applied Sciences, indian Institute of Information Technology, Allahabad, 211015, UP. INDIA	40	**Prof. Srataj Tabassum** Department of Chemistry Aligarh Muslim University Aligarh- 202002, India
19.	**Prof. Farukh Arjmand** Department of Chemistry Aligarh Muslim University Aligarh, UP-202002	41.	**Prof. Absar Ahmad** Director, Interdisciplinary Center for Nanotechnology, Aligarh Muslim University, Aligarh, UP-202002

SELECTED TOP JOURNALS CITED MY WORKS

Journals	Year of Publications	Journals	Year of Publications
Nature Reviews Cancer	2015	Nature	2013
Nature Genetics	2018	Nature Medicine	2014
Cancer Cell	2014	Cell Stem Cell	2017
Cancer Discovery	2014	BMC Genome Biology	2015
Science Translational Medicine	2014	Coordination Chemistry Reviews	2016
Nature Communications	2016, 2018, 2020	Trends in Pharmacol Sciences	2017
EMBO Molecular Medicine	2017	PNAS	2015
Critical Reviews in Food	2020	Seminars in Cell &	2021

Sciences & Nutrition		Developmental Biology	
Cancer Research	2014, 2016, 2020	Cell Reports	2020
Seminars in Cancer Biology	2016, 2017, 2020,2021	J of Hazardous Materials	2012, 2016, 2018, 2019, 2020
Genes & Development	2012	Clinical Cancer Research	2013, 2016, 2017, 2018
Nature Reviews Urology	2012	International J of Cancer	2012, 2014,2018
Trends in Cancer	2020	BMC-Molecular Neurodegeneration	2015
Chemical Engineering Journal	2019	Oncogene	2013, 2015, 2017, 2018, 2020,2021
Journal of Controlled Release	2020	Drug Discovery Today	2009, 2021
Crit Rev in Biochem & Mol Biology	2020	BBA-Molecular Cell Research	2014, 2019
Clinical Nutrition	2021	Frontiers Immunology	2017, 2018,
Cancers	2016, 2021	Cancer Letters	2012, 2015,2020
Antioxidants & Redox Signaling	2018	Enviornmental Pollution	2013, 2021
Cell Biology & Toxicology	2009, 2020	Nature-Cell Death & Disease	2018, 2020
British Journal Of Cancer	2014	Nature-Cell Death Discovery	2017
Stem Cells	2014, 2020	Nanotoxicology	2015, 2019
Cells	2020, 2021	E-Biomedicine	2019
Mutation Research / Reviews in Mutation Research	2016, 2017	Seminars in Cell & Developmental Biology	2021
Curr Opinion in Pharmacology	2014	Free Radical Biol & Medicine	2015
Materials Research	2020	J. of Biological Chemistry	2012, 2018, 2019
Molecular Neurobiology	2017	Oncotarget	2016
Chemosphere	2010,2020,2021	Science of the Total Environment	2014, 2021
Frontiers in Cell & Dev Biology	2020	The FEBS Journal	2021
BBA Cancer Reviews	2021		

Personal Profile: Male, Married

Nationality: Indian

Languages: English, Hindi, Bengali, Urdu, and Assamese

DATE: 11-08-2021 Hifzur Rahman Siddique

Place: AMU, Aligarh, India

Research and development initiatives in the last one year

Cancer Stem Cells (CSCs) are the "root cause" of cancer - the cells that sustain cancer progression, invasion, metastasis, chemoresistance and recurrence after therapy. My research has high clinical and industrial relevance for cancer treatment, prevention, and management. **I believe my field is significant, timely and innovative.** It is significant because I observed that CSCs as a novel molecular target in cancer could offer drug targeting and, therefore, will be critical for improving clinical management, outcome, and survival of patients. It is timely because at present, cancer remains the most aggressive form of the disease and there is a paucity of knowledge about the molecular pathways involved in the chemoresistance and refractory nature of advanced cancer cells. It is innovative because at present there are inadequate therapeutic approaches available for the management of advanced diseases. Further, I am well trained in the alternative animal model, stem cells/cancer stem cells, different *in vitro* models, animal models and handling of human samples. ***My training on genome editing by CRISPR/Cas9 technology is a huge advantage towards understanding the function of a gene in an animal model. Also, my training on Animal Live surgery, the creation of Patient-derived tissue xenograft model, partial hepatectomy, implantation of cancer cells directly to organs, etc. maximize the probability of my success to achieve my goal.*** I have developed a lab dedicated to cancer Stem Cells at Aligarh Muslim University and am also trying like to improve the facility.

Publications:

1. Singh D, Khan, MA, Siddique HR. **2021.** Role of p53-miRNA circuitry in immune surveillance and cancer development: A potential avenue for therapeutic intervention. **Seminar in Cells & Developmental Biology.** PMID: 33875349 **Impact Factor-7.8.**
2. Farwa A, Sk MPU, Maurya S, Siddique HR. **2021.** Mechanochemical Synthesis of Sulfur Quantum Dots for Cellular Imaging. **ACS Applied Nano Materials 4,4: 3339-3344. Impact Factor-5.2**
3. Choi HY*, Siddique HR*, et al. **2020.** p53 destabilizing protein skews asymmetric division and enhances NOTCH activation to direct self-renewal of TICs. **Nature Communications**.11: 3084 PMID: 32555153 **Impact Factor-15.0*= Contributed Equally.**
4. Siddique HR, Maurya SK. **2021.** Lupeol chemosensitize the cancer stem cells for enzalutamide and ameliorate the enzalutamide induced toxicity in prostate cancer. **Abst #** 276. Cancer Research. 2021;81(13S):Art nr 276. **Impact Factor-12.7. (non-peered).**
5. Fatma H, Maurya SK, Siddique HR. **2020**. Epigenetic Modifications of MYC: Role in Cancer Cell Reprogramming, Progression, and Chemoresistance. **Seminars in Cancer Biology**. PMID: 33220458. **Impact Factor-15.7.**
6. Choi HY, Siddique HR, et al. **2020**. P53 destabilizing protein skews asymmetric division and enhances Notch activation to direct self-renewal of tumor-initiating stem-like cells induced by alcohol western diet. **Hepatology**, 72 (S1) 182A-182A. **Impact Factor -17.5**
7. Jameel M, Jamal K, Alam MF, Yonus H, Ameen F, Siddique HR**. 2020.** Interaction of thiamethoxam with DNA: Hazardous effect on biochemical and biological parameters of the exposed organism. **Chemosphere** 254: 126875. PMID: 32361544 **Impact Factor-7.0.**
8. Ganaie A, Mansini AP, Hussain T, Rao A, Siddique HR, et al. 2020. Biopsy-S100A4 and serum-S100A4 alterations predict poor outcome in prostate cancer: Clinical significance of anti-S100A4 antibody therapy. Molecular Cancer Therapeutics. 19: 2598-2611. PMID: 32999046. Impact Factor-6.2.
9. Arjmand F, Khursheed S, Roisnel T, Siddique HR. **2020.** Copper(II)-based halogen-substituted chromone anti-tumor drug entities: Studying biomolecular interactions with ct-DNA mediated by sigma hole formation and cytotoxicity activity. **Bioorganic Chemistry**. 104: 104327. PMID: 33142405. **Impact Factor-5.2.**

10. Fatma H, Siddique HR. **2021**. Pluripotency inducing Yamanaka Factors: Role in Stemness and Chemoresistance of Liver Cancer. **Expert Review of Anticancer Therapy.** PMID: 33832395. **Impact Factor-4.5.**
11. Khan MA, Singh D, Siddique HR. **2021.** Revisiting Inorganic Nanoparticles as Promising Therapeutic Agents: A Paradigm Shift in Oncological Theranostics. **European Journal of Pharmaceutical Sciences.** 164: 105892. PMID: 34052295 **Impact Factor-4.3.**
12. Fatma H, Siddique HR**. 2020.** Role of LncRNAs and c-MYC Interaction in Cancer Metastasis: A Possible Target for Therapeutic Intervention. **Toxicology and Applied Pharmacology.** 399:115056 PMID: 32445756. **Impact Factor-4.2**.
13. Ganaie AA, Siddique HR, Parray A, Wang L, Panyam P, Villalta P, Deng Y, Saleem S. **2020**. A novel terpenoid class for prevention and treatment of KRAS-driven cancers: Comprehensive analysis using *in situ*, *in vitro* and *in vivo* model systems. **Molecular Carcinogenesis.** 59(8):886-896. PMID: 32291806. **Impact Factor-4.8.**
14. Zehra S, Gomez-Ruiz S, Siddique HR, Tabassum S, Arjmand F. **2020**. Water soluble ionic Co(II), Cu(II), and Zn(II) diamine-glycinate complexes targeted to tRNA: Structural description, *in vitro* comparative binding, cleavage and cytotoxic studies towards chemoresistant prostate cancer cells. **Dalton Transactions**. 49:16830-16848. PMID: 33179662. **Impact Factor-4.3.**
15. Yousuf S, Arjmand F, Siddique HR, Ali MS, Al-Lohedan H, Tabassum S. **2020**. Biophysical Binding Profile with ct-DNA and cytotoxic studies of a modulated nanoconjugate of umbelliferone cobalt oxide loaded on graphene oxide (GO) as drug career. **Journal of Bimolecular Structure & Dynamics**. PMID: 33331234. **Impact Factor-3.2.**
16. Singh D, Khan MA, Siddique HR. **2020**. Long non-coding RNAs, novel players in Cancer Chemoresistance: Unravelling Pathways and Therapeutic Challenges. **Molecular Biology Reports**. 47(7):5569-5585. PMID: 32601922. **Impact Factor-2.3.**

For Details see my CV

Patents and copyrights filed

1. A polyherbal Unani formulation Majoon suranjan effective against cancer cells alone as well as in combination with anticancer drug Sorafenib. **Aligarh Muslim University. Application Number: 202011007071**

Filed:

1. BMI1 Stem Cell Protein: A Novel Serum-Biomarker for Diagnosis and Prognosis of Prostate Cancer. University of Minnesot**a Case number 20120301 and Docket: ROI20120301.**
2. Identification of Small Molecule Inhibitors of BMI1, a Polycomb Protein. University of Minnesota Case number **20130173 and Docket: ROI20130173.**
3. Identification of Small Molecule Inhibitors of S100A4, a Calcium Binding Protein and a Cancer Metastasis Factor. University of Minnesota Case number **20130172 and Docket: ROI20130172**

Curriculum Vitae

Name: HIFZUR R SIDDIQUE, Ph.D., MRSB, MNASI

Designation: **Senior Assistant Professor, Molecular Cancer Genetics & Translational Research Lab**
Section of Genetics, Department of Zoology, Aligarh Muslim University, Aligarh-202002 INDIA
Phone: +91-571-2700920-Ext-3456; **Cell:** +91-745-495-2840; **E-mail:** *hifzur.zo@amu.ac.in*
Website: https://www.amu.ac.in/faculty/zoology/hifzur-rahman-siddique

PUBLONS: https://publons.com/researcher/510567/hifzur-r-siddique/
RESEARCH GATE: https://www.researchgate.net/profile/Hifzur-Siddique
LINKEDIN: https://www.linkedin.com/in/hifzur-r-siddique-ph-d-mrsb-06b1b520/
SCOPUS: https://www.scopus.com/authid/detail.uri?authorId=56081338200
GOOGLE SCHOLAR: https://scholar.google.co.in/citations?user=AFA36U4AAAAJ&hl=en

A. AREA OF SPECIALIZATIONS: Stem cells/ Cancer stem cells, Non-coding RNAs, Drug resistance, Molecular Pharmacology/Toxicology, and Stress Biology.

B. AREAS OF RESEARCH INTEREST: Research interests of the laboratory are in the following areas:

- ♣ Chemosensitization of Chemoresistant Cancer Stem Cells and Molecular Cancer Therapeutics.
- ♣ Toxicology/Nano-toxicology, Nano-medicines, and Chemoprevention.
- ♣ Identification of Epigenetic modifications in Cancer and Biomarker Discovery.
- ♣ Role of non-coding RNAs in Chemoresistance and Cancer Development.

C. ACADEMIC QUALIFICATIONS:

SN	Degree	Institutions
1.	B.Sc.	Assam University, India
2.	M.Sc.	Aligarh Muslim University (AMU), India
3.	Ph.D.	CSIR-Indian Institute of Toxicology Research (awarded by AMU in 2008)
Thesis Title:		"Genetic and Developmental studies in *Drosophila melanogaster* against selected Environmental Chemicals."
Guide:		Prof. Debapratim Kar Chowdhuri (Ex. Chief Scientist, CSIR-IITR, Lucknow)

D. TEACHING AND PROFESSIONAL PROFILE:

SN	Teaching Profile		SN	Professional Profiles	
1.	Teaching Experience	**10 yrs**	**7.**	TV/Popular Talks	**10**
2.	Ph.D. Supervision	**03**	**8.**	Number of Awards/Fellowships/ Honors	**26**
3.	Research Associate	**01**	**9.**	Editorial Board Member	**05**
4.	Project Fellow (DST-SERB)	**01**	**10.**	Professional Membership	**12**
5.	M.Sc. Student's Projects	**04**	**11.**	Reviewer of Scientific Journals	**52**
6.	M.D./M.S. Student's Project	**01**	**12.**	Professional Training	**26**

E. RESEARCH PROFILE:

SN	Research Profile		SN	Research Project	
1.	Experience (including Ph.D.)	18 yrs	4.	Approved	05
2	Patents (Filed/ Published)	04	a.	Ongoing	02
3.	Popular Articles (Social/ Science)	07	b.	Completed	02

Grant Reviewer: 1. **Czech Science Foundation, Czech Republic 2. CSIR-India.**

F. Research Work Published as Abstract in Proceedings of Conferences: 50

	Invited Lectures	Full Paper	Proceedings	Submitted
Total	**19**	**01**	**30**	**00**

G. Research Work Published or Communicated in Scientific Journals/Books: 85

Total Impact Factor (IF) = 481 ; Highest IF= 22.3; Average IF /Publication = 7.0 Average Publication/Year = 3.6					Google Scholar Citations			Research Gate
Publications	*Published in Journals*	*Book Chapters*	*Technical Note*	*Communicated/ Under Preparation*	*Total*	*h-index*	*i-10 index*	*RG-Score*
Total	**70**	**07**	**01**	**06**	**1901**	**22**	**28**	**36.5**

SELECTED AWARDS, FELLOWSHIPS, HONORS, AND RECOGNITIONS (TOTAL = 26)

2021:	**Invited** as a **contributing author** on herbal medicine by UNESCO for UNESCO-Encyclopedia of Life Support Systems (EOLSS).
2021:	AEDS **"Distinguished Scientist Award-2021"** from Agro Environmental Developmental Society, UP, India in the field of Biological Sciences.
2021:	**Nominated** as the Research Grant Reviewer for Council of Scientific & Industrial Research, Govt of India, India.
2020:	**Appointed** as the Scientific Grant Reviewer for Czech Science Foundation, Government of the Czech Republic.
2019:	SPER **Innovative Researcher Award**, from Society of Pharmaceutical Education & Research (SPER). Awarded in Bangkok, Thailand.
2019:	RULA Research Ratna Awards under the Title "**Leading Researcher in Cancer Studies**" by World Research Council & United Medical Council.
2018:	SN Nahar **Distinguished Teacher of the Year** for the Outstanding Research Publications and training and inspiring students to advance research, awarded by Aligarh M University, Aligarh.
2018:	Selected as one of the members (out of five for Biosciences) to prepare National Resources for higher education in the "Workshop on Identification of Subject wise Resources for Teachers in Higher Education" at NIEPA, New Delhi, June 6-8.
2017:	Farha Deeba **Outstanding Cancer Research Award** from Indian Academy of Biomedical Sciences, India.
2014:	My work was selected as one of the three **"Featured Prostate Cancer Research"** works by the *USA Department of Defense's* "2014 Research Highlights" section.
2011:	One of my publications was highlighted by the US and Indian print and electronic media such as **New York Times, Wall-Street Journal, The Street,** and others, to name a few.
2011:	Got an invitation from the American Association of Cancer Research (AACR) to present my work

as an **Oral Presentation** at the 102nd Annual Meeting. Orlando, FL, USA. April 2-6.

2010:	**Young Scientist Travel Award** from the Society of Basic Urology Research (SBUR; USA).
2005:	Senior Research Fellowship **(SRF)**, Council of Scientific & Industrial Research, India.
2002:	Graduate Aptitude Test for Engineering **(GATE)**, India
2001:	Junior Research Fellowship under National Eligibility Test jointly conducted by CSIR and UGC, Govt. of India (JRF-NET), India
1999:	University Post Graduate **Merit Scholarship**, Aligarh Muslim University, India.
1998:	University Post Graduate **Merit Scholarship**, Aligarh Muslim University, India.
1998:	Placed **FIRST** in inter-college **quiz competition** on the topic "*AIDS and health awareness programme*." Organizer: Society for Ecology & Environmental Development, Assam, India.
1995	Science Talent Search Scholarship (State Level), Assam, India.
1994	Merit Scholarship by an NGO, Assam, India, for academic excellence.
1994	Honored by Minister of Health & Family Welfare, Govt. of Assam under the banner of NGO "INSANIAT" for my student welfare activities (especially underprivileged students) in the rural areas of Assam.

RESEARCH PROJECTS (TOTAL =05)

SN.	Project Title	Role	Duration	Sources	Amount in INR
1.	Study of Epigenetic Modulation in Insulin Promoter Region and Associated Growth Factors in Diabetes (Diabetic Neuropathy) and Pancreatic Cancer in both Preclinical and Clinical Settings.	PI	2021-2024	ICMR	20.22 lacs
2.	NM-ICPS Mission-Technology Incubation Hub for (three Institutes: IIT Indore, AMU and NIT Tiruchirapalli, Kerala). Role: Core	Main Investigator for Mission	2021-2025	DST-SERB, India	100 Crores

	Member from AMU.	Cancer			
3.	Role of Lupeol on Chemosensitization of Cancer Stem Cells by Targeting cFLIP/β-Catenin-AR/Nanog-cMyc Module both in vitro and in a Mouse Model of Prostate Cancer.	PI	2018-2021	DST-SERB, India	45.49 lacs
4.	To Study the Role of Lupeol on Chemosensitization of Liver Cancer Cells in a Mouse Model of Hepatocarcinoma.	PI	2018-2020	UGC, India	10 lacs
5.	Equipment & ICT grant	PI	2017	UGC-AMU	8 lacs

PUBLICATIONS IN SCIENTIFIC JOURNALS (TOTAL =70)

A. PUBLICATIONS WITH IMPACT FACTOR ≥ 10

1. Choi HY*, Siddique HR*, Zheng M, Kou Y, Yeh DW, Machida T, Chen CH, Kumar DBU, Punj V, Winer P, Pita A, Sher L, Tahara SM, Ray RB, Liang C, Chen L, Tsukamoto H, Machida K. **2020.** p53 destabilizing protein skews asymmetric division and enhances NOTCH activation to direct self-renewal of TICs. **Nature Communications**.11: 3084 PMID: 32555153 **Impact Factor-15.0*= Contributed Equally.**
2. Siddique HR, Maurya SK. **2021.** Lupeol chemosensitize the cancer stem cells for enzalutamide and ameliorate the enzalutamide induced toxicity in prostate cancer. **Abst #** 276. **Cancer Research**. 2021;81(13S):Art nr 276. **Impact Factor-12.7. (non-peered)**
3. Fatma H, Maurya SK, Siddique HR. **2020**. Epigenetic Modifications of MYC: Role in Cancer Cell Reprogramming, Progression, and Chemoresistance. **Seminars in Cancer Biology**. PMID: 33220458. **Impact Factor-15.7.**
4. Choi HY, Siddique HR, Zheng M, KouY, Yeh DW, Machida T, Chen CL, Kumar DBU, Punj V, Winer P, Pita A, Sher LS, Tahara SM, Ray R, Liang C, Chen L, Tsukamoto H, Machida K. **2020**. P53 destabilizing

protein skews asymmetric division and enhances Notch activation to direct self-renewal of tumor-initiating stem-like cells induced by alcohol western diet. **Hepatology**, 72 (S1) 182A-182A. **Impact Factor -17.5** (non-peered)

5. Arjmand F, Afsan Z, Sharma S, Parveen S, Yousuf I, Sartaj S, Siddique HR, Tabassum S. **2019.** Recent Advances in Metalodrug-like Molecules targetting non-coding RNAs (ncRNAs) in cancer Chemotherapy. **Coordination Chemistry Reviews.** 387: 47-59. **Impact Factor -22.3.**
6. Machida K, Siddique HR, Zheng M, Winer P, Kumar DBU, Rokan A, Sher L, Tahara SM, Elowitz M, Liang C, Tsukamoto H. **2018.** Cell fate reprogramming of liver tumor-initiating stem-like cells via phosphorylated NUMB and TBC1D15. **Cancer Research** 78(13S): Art No. 1984. **Impact Factor-12.7** (non-peered)
7. Siddique HR, Zheng M, Kou Y, Chen CLC, Kumar DBU, Winer P, Rokan A, Punj V, Sher LS, Tahara SM, Ray R, Elowitz M, Liang C, Chen L, Tsukamoto H, Machida K. **2018**. Novel NOTCH-Binding Protein Directs Self-Renewal of Tumor-Initiating Stem-like Cells and HCC Development through Cell Fate Reprogramming. **Hepatology**, 68 (S1). Art. No. 1365. **Impact Factor -17.5** (non-peered)
8. Siddique HR, Narayan P, Punj V, Feldman DE, Machida K. **2017**. MSI2 binds LncRNAs and promotes self-renewal and oncogenesis through MYC expression. **Cancer Research** 77(13S): Art. No. 2542. **Impact Factor-12.7**. (non-peered)
9. Ganaie AA, Beigh FH, Astone M, Ferrari MG, Maqbool R, Umbreen S, Parray AS, Siddique HR, Hussain T, Murugan P, Morrissey C, Deng Y, Konety BR, Hoeppner LH, Saleem M. **2018**. BMI1 drives metastasis of prostate cancer in Caucasian and African-American men and is a potential therapeutic target: hypothesis tested in race-specific models. **Clinical Cancer Research** 24: 6421-6432. PMID: 30087142. **Impact Factor -12.5**
10. Ganaie AH, Siddique HR, Sheikh I, Wang L, Parray A, Panyam J, Villalta P, Liao J, Deng Y, Saleem M. **2017.** Development of a novel KRAS-targeting agent: systematic validation using *in silico*, in solution, cell models, PDX and transgenic mouse models. **Cancer Research** 2017**:** 77(13S): Art. No. 1246. **Impact Factor-12.7**. (non-peered)

11. Siddique HR, Feldman DE, Chen C, Punj V, Tokumitsu H, Machida K. **2015**. NUMB Phosphorylation Destabilizes p53 and Promotes Self-renewal of Tumor-Initiating Cells by NANOG-dependent Mechanism in Liver Cancer. **Hepatology**. 62: 1466-1479. PMID**:** 26174965. **Impact Factor -17.5**

12. Parray A*, Siddique HR,* Langfald A, Singh P, Naito M, Matusik R, Schmitz I, Koochekpour S, Konety BR, Saleem M. **2015**. A novel nuclear transporter for androgen receptor and AR-variant-7 in castration resistant prostate cancer: Ideal therapeutic. **Cancer Research** 2015; 75 (15S); Art. No. 4678. *=Equal contributions. **Impact Factor-12.7**. (non-peered)

13. Siddique HR, Wang L, Tarapore R, Deng Y, Saleem M. **2012**. A novel pathway involving TCF-driven BCL2 under regulation of Bmi1 stem cell factor: Role in chemoresistance. **Cancer Research 2012;** 72 (8S): Art. No. 3497. **Impact Factor-12.7.** (non-peered)

14. Siddique HR, Schuster T, Saleem M. **2012**. Lupeol, a novel inhibitor of Wnt/β-catenin signaling: Implications in colon cancer therapy. **Cancer Research** 2012; 72 (8S): Art. No. 3847. **Impact Factor-9.7.**

15. Saleem M, Siddique HR, Ganju RK, Mishra SK, Aburatani H. **2012**. Regulatory role of ROBO-1, a novel tumor suppressor on Androgen receptor and Wnt signaling during castration-resistant prostate cancer development: A novel molecular target for gene therapy. **Cancer Research**; 2012; 72 (8S): Art. No. 3917. **Impact Factor-12.7**

16. Siddique HR, Satyshure K, Saleem M. **2011**. Lupeol, a novel androgen receptor inhibitor acts as a double-edged sword: Competitive binding as well as transcriptional inhibition. **Cancer Research** 2011; 71 (8S): Art. No. 943. **Impact Factor-12.7.**

17. Saleem M, Siddique HR, Tarapore RS, Kohl AM. **2010**. Bcl-2, a novel target of Bmi-1 (the stem cell associated factor)-induced Wnt signaling: Implications on prostate cancer. **Cancer Research**; 70 (8S): Art. No. 234. **Impact Factor-12.7.**

18. Siddique HR, Mishra SK, Karnes RJ, Saleem M. **2011**. Lupeol, a Novel Androgen Receptor Inhibitor: Implications in Prostate Cancer Therapy. **Clinical Cancer Research** 17: 5379-91. PMID: 21712449. **Impact Factor -12.5**.

B. PUBLICATIONS WITH IMPACT FACTOR ≥5.0 TO ≤10.0

19. Singh D, Khan, MA, Siddique HR. **2021.** Role of p53-miRNA circuitry in immune surveillance and cancer development: A potential avenue for therapeutic intervention. **Seminar in Cells & Developmental Biology.** PMID: 33875349 **Impact Factor-7.8.**

20. Farwa A, Sk MPU, Maurya S, Siddique HR. **2021.** Mechanochemical Synthesis of Sulfur Quantum Dots for Cellular Imaging. **ACS Applied Nano Materials 4,4: 3339-3344. Impact Factor-5.2**

21. Jameel M, Jamal K, Alam MF, Yonus H, Ameen F, Siddique HR**. 2020.** Interaction of thiamethoxam with DNA: Hazardous effect on biochemical and biological parameters of the exposed organism. **Chemosphere** 254: 126875. PMID: 32361544 **Impact Factor-7.0.**

22. Ganaie A, Mansini AP, Hussain T, Rao A, Siddique HR, Shabaneh A, Ferrari MG, Murugan P, Klingelhöfer J, Wang J, Ambartsumian N, Warlick CA, Konety BR, Saleem M. **2020.** Biopsy-S100A4 and serum-S100A4 alterations predict poor outcome in prostate cancer: Clinical significance of anti-S100A4 antibody therapy. **Molecular Cancer Therapeutics.** 19: 2598-2611. PMID: 32999046. **Impact Factor-6.2.**

23. Arjmand F, Khursheed S, Roisnel T, Siddique HR. **2020.** Copper(II)-based halogen-substituted chromone anti-tumor drug entities: Studying biomolecular interactions with ct-DNA mediated by sigma hole formation and cytotoxicity activity. **Bioorganic Chemistry**. 104: 104327. PMID: 33142405. **Impact Factor-5.2.**

24. Jameel M, Alam MF, Younus H, Jamal K, Siddique HR. **2019.** Hazardous sub-cellular effects of Fipronil directly influence the organismal parameters of *Spodoptera litura.* **Ecotoxicology and Environmental Safety.** 172: 216-224. PMID: 30710772. **Impact Factor- 6.3**.

25. Saleem M, Konety B, Parray A, Siddique HR, Matusik R. **2015**. Identifying novel nuclear transporter of AR and AR (variant) in CRPC cells: Potential implications in therapy. Art No. MP66-14. **Journal of Urology,** 2015; 193 (4), e820–e821. **Impact Factor-7.5.** (non-peered)

26. Parray A, Siddique HR, Kuriger J, Mishra SK, Rhim J, Nelson H, Aburatani H, Bashaw G, Konety B, Koochekpour S, Saleem M. **2014.** ROBO1, a tumor suppressor and critical molecular barrier for localized tumor cells to acquire invasive phenotype: Study in African-American and Caucasian prostate cancer

models. **International Journal of Cancer.** 135: 2493-506. PMID: 24752651. **Impact Factor -7.4.**

27. Siddique HR, Adhami VM, Parray A, Johnson JJ, Siddiqui IA, Shekhani MT, Murtaza I, Amburtsumian N, Konety BR, Mukhtar H, Saleem M. **2013.** The S100A4 Oncoprotein Promotes Prostate Tumorigenesis in a Transgenic Mouse Model: Regulating NFκB through the RAGE Receptor. **Genes & Cancer**. 4: 224-234. PMID: 24069509. **Impact Factor- 5.6**.

28. Siddique HR, Saleem M. **2012**. Role of BMI1 in Cancer Recurrence and Chemoresistance: Preclinical and Clinical evidence. **STEM CELLS** 30: 372-378. PMID: 22252887. **Impact Factor-6.3**.

29. Siddique HR, Liao JD, Mishra SK, Schuster T, Wang L, Matter B, Campbell PM, Villalta P, Deng Y, Saleem M. **2012**. Epicatechin-rich cocoa polyphenol inhibits Kras-activated pancreatic ductal carcinoma cell growth in vitro and in a mouse model. **International Journal of Cancer**. 131: 1720-31. PMID: 22190076. **Impact Factor -7.4**.

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1. Siddique HR, Fatma H, Khan MA. **2020**. Medicinal Properties of Saffron with Special Reference to

Cancer- A Review of Pre-clinical Studies. In: *Saffron: The Age-Old Panacea in New Light*. (Eds. Sarwat M & Sumaiya S) Publisher: Academic Press (**Elsevier)** Chapter-18. Pages-233-244 ISBN: 978-012-81-8462-2.

2. Singh D, Siddique HR. **2021**. Role of Growth Factors in the Treatment of Diabetic Foot Ulceration. In: Diabetic Foot Ulcer (Zubair M., Ahmad J., Malik A., Talluri M.R. (eds). Publisher: **Springer Nature, Singapore.** Chapter-15. Pages. 233-249. ISBN 978-981-15-7638-6.
3. Khan MA, Siddique HR. **2021**. The Multi-Targeting Efficacy and Therapeutic Effects of Ayurveda and Chinese Medicine: An Integrated Approach for Cancer Treatment and Management. Publisher: CRC Press, Taylor and Francis (Accepted).
4. Fatma H, Siddique HR. **2021.** Herbal Medicine to Cure Male Reproductive Dysfunction. In: Herbal Medicines: A boon for Humans. Publisher: **Elsevier, USA.** Chapter-20, Publisher: Elsevier (Accepted).
5. Singh D, Siddique HR. **2021**. Targeting Metabolism With Herbal Therapy: A Preventative Approach Towards Cancer. In: Herbal Medicines: A boon for Humans. Publisher: **Elsevier, USA.** Chapter-27. (Accepted)
6. Singh D, Khan MA, Siddique HR. **2021**. PLGA based nanoparticles for treatment of inflammatory diseases. In: Poly(lactic-co-glycolic acid) (PLGA) nanoparticles for Drug Delivery (Kesharwani P; ed). Publisher: **Esevier, USA,** Chapter-07. (Accepted)
7. D'Souza LC, Paithankar JG, Siddique HR, Sharma A. **2021**. Future of herbal medicines in assisted reproduction. In: Herbal Medicines: A boon for Humans. Publisher: **Elsevier, USA.** Chapter-27. (Accepted)

EDITORIAL BOARD MEMBER

1.	Recent Patents on Anti-Cancer Drug Discovery (Bentham Science); **ISSN: 1574-8928**
2.	MOJ Cell Science & Report, **USA ISSN: 2374-6920**
3.	Cancer Therapy & Oncology International Journal (CTOIJ), USA **ISSN:2473-554X**
4.	Biosciences, Biotechnology Research Asia, India **ISSN: 0973-1245**

5. International Journal of Zoology and Animal Biology (IZAB), USA **ISSN: 2639-216X**

INVITED TALKS AND PRESENTATIONS

1. Siddique HR. **2020**. Drug-Resistant Prostate Cancer: Chemosensitization by Lupeol. Webinar on "Alternate Animal Models in Biological Research". May 27. Indian Institute of Toxicology Research, Lucknow.
2. Siddique HR. **2020**. Drug-resistant castration resistant prostate cancer: Chemosensitization by lupeol. 8th International Translational Cancer Research on Conference on Role of Inflammation & Immune System for Cancer Prevention & Treatment. February 13-16. Institute of Science, Department of Biochemistry, Banaras Hindu University, Varanasi-221005. IL-25. Page-18.
3. Siddique HR. **2019**. Targeting Chemoresistant Tumours by a Pentacyclic Triterpene. Pandu College, Gauhati University. Guwahati, India. May 29.
4. Siddique HR. **2019**. Chemosensitisation of Therapy Resistant Tumours: Multitargeting by Lupeol, A Pentacyclic Triterpene. Conference on Recent Developments in Biomedical, Unani and Ayurvedic Translational Research & Darker Side of Rampant Use of Lead Based Products. March 9-10, JNMC, AMU, Aligarh. NATCON-IL-24.
5. Siddique HR. **2018.** Targeting Self-Renewal Pathways in Cancer Stem Cells to Control the Cancer Recurrence and Chemoresistance. International Conference on Biochemical Innovations: Translating Cellular Cues into Novel Therapeutics and Annual Conference of Indian Academy of Biomedical Sciences. SKIMS, Srinagar, Kashmir. April 20-22.
6. Siddique HR, GGHA Shadab. **2018.** Phosphorylation of NUMB promotes Self-renewal and Chemoresistance of Cancer Stem Cells. Indo-US joint International Conference on "Cell Death in Cancer and Toxicology", IITR, Lucknow. February 20-22.
7. Siddique HR, Ansari MO, Shadab GGHA. **2017.** Long non-coding RNAs in Cancer Stem Cells: Unravelling Pathways and Therapeutic Challenges. World Neuro Congress-2017 on Neurogenomics and Stem Cell Therapy 9-10 December. JNMC, AMU, Aligarh. P-45.

8. Siddique HR and Keigo M. **2015**. NANOG-NUMB-p53 axis as a novel target for alcohol promoted HCC. Southern California Research Center for ALPD & Cirrhosis, The 17th Annual Symposium on Emerging Therapeutic Targets for ALPD and Cirrhosis. December 4. University of Southern California, Los Angeles. CA.

9. Siddique HR. **2013.** How to explore your best abilities as the future belongs to knowledge-based societies. Auditorium Hall, College of Veterinary Science, Assam Agricultural University, Guwahati, December 08.

10. Siddique HR, Parray A, Deng Y, Saleem M. **2013**. A Novel Pathway involving TCF-driven *Bcl2* under regulation of BMI-1 Stem Cell factor: Role in Chemoresistance. The Biomedical Informatics and Computational Biology Symposium. January 18, University of Minnesota, Rochester, MN.

11. Siddique HR, Mishra SK, Karnes RJ, Konety BR, Panyam J, Saleem M. **2012**. Lupeol, a Novel Androgen Receptor: Implications in Prostate Cancer Therapy. 3rd Annual Masonic Cancer Center Research Symposium, Twin Cities, MN, May 30.

12. Siddique HR, Liao J, Mishra SK, Schuster T, Wang L, Matter B, Campbell PM, Villalta P, Nanda S, Deng Y, Saleem M. **2012**. Epicatechin-rich cocoa polyphenol inhibits Kras-activated pancreatic ductal carcinoma cell growth in vitro and in a mouse model. 3rd Annual Masonic Cancer Center Research Symposium, Twin Cities, MN, May 30.

13. Siddique HR, Tarapore R, Parray A, Karnes JR, Bergstralh EJ, Konety BR, Saleem M. **2012**. A novel pathway involving Tcf-driven Bcl2 under regulation of Bmi-1 stem cell factor: Role in chemoresistance of prostate tumors. 3rd Annual Masonic Cancer Center Research Symposium, Twin Cities, MN, May 30.

14. Siddique HR. **2011**. Lupeol, a novel androgen receptor inhibitor acts as a double-edged sword: Competitive binding as well as transcriptional inhibition. Lecture: 1494. Session: MS.EN01.01 - Steroid Receptors in Cancer, 102nd AACR Annual Meeting 2011. April 03, Orlando, FL.

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16. Saleem M, Siddique HR, Tarapore RS, Zhong W, Kohl A. **2011**. Bmi-1 polycomb group protein, drives proliferation of normal and malignant prostate epithelial cells: Role in chemoresistance and a novel therapeutic target. Department of Defense (DOD)-IMPACT conference, Orlando, FL. March 11

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FULL RESEARCH PAPER PUBLISHED IN CONFERENCE PROCEEDING

1. Khan F, Sherwani AF, Siddique HR, Azfer MA. **2002**. Agglutination activity of lectins on RBCs of humans and their mitogenic action on human lymphocytes. **Proceeding Volume of National Conference on Expanding Horizons of Human Genetics** 1: 95-100

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INTERNATIONAL:

1. Singh D, Khan MA, Siddique HR. **2020.** Protective role of a plant flavone apigenin against chemotherapeutic drug sorafenib induced genetic and oxidative damage in an animal model. 8th

International Translational Cancer Research on Conference on Role of Inflammation & Immune System for Cancer Prevention & Treatment. February 13-16. Institute of Sciences, Department of Biochemistry, Banaras Hindu University, Varanasi-221005. PP-30. Page-111.

2. Zehra S, Gomez-Ruiz S, Siddique HR, Arjmand F. **2020**.Water soluble ionic metal based drugs targeted to RNA as potent candidates against prostate cancer stem cells. International Conference on Emerging Trends in Chemical Sciences. February 15-16. Page 153. Department of Chemistry, AMU, Aligarh.

3. Yousuf S, Siddique HR, Tabassum S. **2020.** Biophysical binding profile with ct-DNA and cytotoxicity studies of a modulated nanoconjugate of umbelliferone cobalt oxide loaded on graphene oxide (GO) as drug carrier. International Conference on Emerging Trends in Chemical Sciences. February 15-16. Page 150. Department of Chemistry, AMU, Aligarh

4. Khursheed S, Roisnel T, Siddique HR, Arjmand F. **2020**. Antitumor drug entities derived from substituted (F^-,Br^-, -CH3) 3-formylchromone ligand scaffold: comprehensive biological studies binding profile with ctDNA, cleavage with pBR322 plasmid DNA and cytotoxicity activity on the human liver carcinoma (Huh7) and Prostate cancer (Du-145) cell lines. International Conference on Emerging Trends in Chemical Sciences. February 15-16. Page 139. Department of Chemistry, AMU, Aligarh.

5. Siddique HR, Arjmand F. **2019.** Targeting Long Non-Coding RNAs in Cancer Stem Cells by Metallodrugs: A Possible Way to Fight Against Therapy Resistant Cancer. International Conference on Advances in Zoological Research (ICAZR) March 09-10. ST-5-075. Department of Zoology, AMU, Aligarh.

6. Khan AM, Maurya SK, Shadab GGHA, Siddique HR. **2019**. Ameliorative Effect of a Polyherbal Unani Formulation, *Majoon Suranjan* Against Bisphenol Induced Genotoxicity in Wistar Rats. International Conference on Advances in Zoological Research (ICAZR). March 09-10. Department of Zoology, AMU, Aligarh. ST-5-076

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8. Fatma H, Shadab GGHA, Siddique HR. **2019.** Zinc Oxide Nanoparticle- A Nanoscale Monster or A Boon: Cytogenetic and Biochemical Assessment In Vivo. International Conference on Advances in Zoological Research (ICAZR), AMU, Aligarh, March 09-10. ST-5-078

9. Ansari MO, Siddique HR, Shadab GGHA. **2019.** Oxidative Stress and Genotoxicity induced by iron oxide nanoparticles and its attenuation by thymoquinone: an *in vitro* and *in vivo* study. International Conference on Advances in Zoological Research (ICAZR), AMU, Aligarh, March 09-10. ST-7-193.

10. Shadab GGHA, Siddique HR, Wani AL. **2019**. Red cell distribution width among occupational workers is significantly influenced by lead related exposure. International Conference on Advances in Zoological Research (ICAZR), AMU, Aligarh, March 09-10. ST-7-238

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12. Parveen N, Siddique HR**,** Shadab GGHA. **2019**. *In vivo* studies of iron sulfate induced ultra-structural changes and genotoxicity and modulation by thymoquinone. International Conference on Advances in Zoological Research (ICAZR), AMU, Aligarh, March 09-10. ST-7-239.

13. Zheng M, Siddique HR, Winer P, Rokan A, Punj V, Sher L, Tahara SM, Liang C, Tsukamoto H, Machida K. **2018**. Metabolic reprogramming, cell fate decision and non-coding RNA in tumor-initiating stem-like cells. 18th World Congress of Basic and Clinical Pharmacology. July 01-06, Abstract # SY21-2, Kyoto, Japan.

14. Siddique HR, Parray A, Jin R, Konety BS, Matusik RJ, Saleem M. **2012**. Identification of a Master Switch that regulates Androgen Receptor/ AR variant-induced Signaling in Castration-resistant Prostate Cancer: Evidences in humans and transgenic mouse models. Society for Basic Urologic Research Fall Symposium (SBUR). Miami, FL, November 15 - 18, Poster # 31.

15. Parray A, Siddique HR, Noterman M, Mishra SK, Aburatani H, Saleem M. **2012.** Loss of Robo1 gene is a critical event in castration-resistance development: Novel bio-marker for CRPC detection and target

of therapeutics. Society for Basic Urologic Research Fall Symposium (SBUR). Miami, FL, November 15 - 18, Abstract # 51.

16. Siddique HR, Parray A, Schuster T, Konety BS, Saleem M. **2012.** A dual agent targeting microRNA machinery regulating β-catenin/Akt network improves Sulindac Therapy in Colon Cancer *in vitro* and *in vivo*. Eleventh Annual AACR International Conference on Frontiers in Cancer Prevention Research. Anaheim, California , October 16-19, Abstract # A64

17. Saleem M, Ganju RK, Mishra SK, Siddique HR. **2011**. ROBO1, A Novel Tumor Suppressor Gene Regulates Androgen Receptor during Castration-resistant Prostate Cancer Development: Potential Target of Gene Therapy and Chemotherapy. Society for Basic Urologic Research Fall Symposium. Los Vegas, Nevada. November 10-13. Abstract # 9

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19. Siddique HR, Tarapore R, M, Zhong W, Kohl A, Saleem M. **2010**. Bmi-1 polycomb group protein drives survival and proliferation of prostate cancer cells undergoing chemotherapy treatment: a novel therapeutic target. Society for Basic Urologic Research Fall Symposium (SBUR). Atlanta, GA November 11-14. Abstract # 25

20. Saleem M, Siddique HR. **2010**. Lupeol triterpene, a potential inhibitor of androgen receptor that acts as double-edged sword: blunting androgen-dependent and -independent prostate cancer. Society for Basic Urologic Research Fall Symposium. Atlanta, GA November 11-14. Abst # 33.

21. Siddique HR, Bhargav D, Gupta SC, Saxena DK, Kar Chowdhuri D. **2006**. Biomarkers of stress and cellular damage in *Drosophila melanogaster*: Possible role of reactive oxygen species (ROS). EMBO workshop on Developmental Mechanisms and Disease Models, Department of Biological Sciences and Bioengineering, IIT, Kanpur. December 16-20. Abstract No. P2-36.

NATIONAL:

22. Shadab GGHA, Singh D, Ansari MO, Ahmad MF, Parveen N, Siddique HR. **2018**. Evaluation of toxicity

of Bisphenol-A by cytogenetic and histopathological parameters in vivo. National Conference on Impact of Environmental Xenobiotics on Human Health and Biodiversity. March 30-31. Department of Zoology, University of Lucknow, Lucknow-226007 In Collaboration with: Department of Higher Education, Government of Uttar Pradesh. Abstract # TFBO-01

23. Siddique HR, Mitra K, Bajpai VK, Murthy RC, Saxena DK, Kar Chowdhuri D. **2007**. Adverse effects of the complex chemical mixture in development and reproduction of *Drosophila melanogaster*: role of sex peptide and accessory gland protein. 31st All India Cell Biology Conference, Banaras Hindu University. December 14-16. Abstract No. P-22.

24. Gupta SC, Siddique HR, Saxena DK, Kar Chowdhuri D. **2007**. Organophosphates induced ROS generation modulates Hsp70 expression, antioxidant defense enzymes and programmed cell death in Drosophila. 30th All India Cell Biology Conference, Department of Zoology, Delhi University. February 2-4. Abstract No. P-61.

25. Siddique HR, Murthy RC, Saxena DK, Kar Chowdhuri D. **2006**. Hazardous effects of industrial solid waste leachates: proteotoxicity and Hsp70 expression in transgenic *Drosophila melanogaster (hsp70-lacZ) Bg*^{9}. 29th "All India Cell Biology Conference and Symposium on Gene to Genome: Environment and chemical interaction". Venue: Indian Institute of Toxicology Research, Lucknow, India. Jan. 17-20. Abstract No- P-37

26. Siddique HR, Bhargav D, Dhawan A, Murthy RC, Saxena DK, Kar Chowdhuri D. **2005**. Genotoxicity assessment of industrial solid waste leachates using *Drosophila melanogaster* as an alternative animal model. National symposium on "Recent trends in environmental biology and biotechnological approach to conserve biodiversity". Gulbarga University, Gulbarga, Karnataka, India. October 22-24. Abstract No-171.

27. Siddique HR, Gupta SC, Dhawan A, Murthy RC, Saxena DK, Kar Chowdhuri D. **2004**. Detection of *in vivo* genotoxicity of leachates from industrial solid wastes in *Drosophila melanogaster* using modified alkaline Comet assay. 28th "All India Cell Biology Conference and Symposium on Genome Biology". Punjab University, Chandigarh, India. December 01-03. Abstract No. P-18.

28. Kar Chowdhuri D, Mukhopadhyay I, Nazir A, Siddique HR, Gupta SC. **2004**. *Drosophila melanogaster*: An *in vivo* model for toxicity assessment. Workshop on Current Techniques in Genetic Toxicology. Indian Institute of Toxicology Research, Lucknow, India. December 01-15.

29. Gupta SC, Siddique HR, Saxena DK, Kar Chowdhuri D. **2004**. The study of correlation between stress response and antioxidant defense systems against xenobiotic toxicity. 28th "All India Cell Biology Conference and Symposium on Genome Biology". Venue: Punjab University, Chandigarh, India. December 01-03. Abstract No- P-49.

30. Kar Chowdhuri D, Siddique HR, Dhawan A, Saxena DK. **2004**. Validation of *Drosophila melanogaster* as *in vivo* model for genotoxicity assessment using modified alkaline Comet assay. 28th "All India Cell Biology Conference and Symposium on Genome Biology". Venue: Punjab University, Chandigarh, India. December 01-03, Abstract No- P-71.

TEACHING EXPERIENCES

- Conducting lecture and Practical Classes in both undergraduate, Post-Graduate, and Ph.D. classes on Animal Physiology, Microbial Genetics, Molecular Biology, Cell Biology, Recent Trends in Zoology, Proteomics and Genomics, Bio-techniques, and Animal Diversity offered by Aligarh Muslim University, India.
- Conducted lectures and practical classes for graduate students (Biochemistry, Cancer Biology, and Stem Cells Biology) offered by Moffitt Cancer Center**,** USA.
- Conducted lectures and practical classes for graduate and undergraduate students (Biochemistry, Cancer Biology, and Stem Cells Biology) offered by the University of Southern California**,** USA.
- Conducted lectures and practical classes for graduate and undergraduate students (Biochemistry, Cancer Biology, and Genetics) offered by the University of Minnesota**,** USA.
- Participated in Summer Student Training Program at Indian Institute of Toxicological Research (IITR), Lucknow, India.

PROFESSIONAL MEMBERSHIPS

A. LIFE MEMBER

8. The Science Advisory Board, USA (Since 2011).

1. The National Academy of Sciences, India. (Since 2021)
2. The Biotech Research Society of India (Since, 2021).
3. Indian Association for Cancer Research (Since 2018)
4. Indian Academy of Biomedical Sciences (Since 2017)
5. Indian Society of Cell Biology (Since 2004).
6. The Indian Science Congress Association (Since, 2018).
7. Society of Pharmaceutical Education & Research, India (Since 2019).
9. Environmental Mutagen Society of India (Since 2005).

B. ACTIVE MEMBER:

10. American Association of Cancer Research (Since 2017; Associate Member since 2010)
11. Royal Society of Biology-London (Since 2018)

C. ASSOCIATE MEMBER

12. Society for Basic Urologic Research, USA(Since 2011).

PATENTS

A. **Published**

1. A polyherbal Unani formulation *Majoon suranjan* effective against cancer cells alone as well as in combination with anticancer drug Sorafenib. Aligarh Muslim University. **Application Number**: **202011007071**

B. **Filed**

2. BMI1 Stem Cell Protein: A Novel Serum-Biomarker for Diagnosis and Prognosis of Prostate Cancer. University of Minneso**a Case number 20120301 and Docket: ROI20120301.**
3. Identification of Small Molecule Inhibitors of BMI1, a Polycomb Protein. University of Minnesota Case number **20130173 and Docket: ROI20130173.**
4. Identification of Small Molecule Inhibitors of S100A4, a Calcium Binding Protein and a Cancer Metastasis Factor. University of Minnesota Case number **20130172 and Docket: ROI20130172.**

PROFESSIONAL EXPERIENCES

2018-till: Senior Assistant Professor, Aligarh Muslim University, Aligarh, India.

2017-2018: Assistant Professor, Aligarh Muslim University, Aligarh, India.

2016-2017: Moffitt Cancer Center (an NIH comprehensive Center) & TechnoGenesys, Inc, FL, USA

2013-2016:	University of Southern California School of Medicine, CA, USA.
2010-2013:	The Hormel Institute, University of Minnesota, MN, USA
2009-2010:	University of Wisconsin, Madison, WI, USA.
2008-2009:	Louisiana State University, New Orleans, LA, USA.

REVIEWER OF SCIENTIFIC JOURNALS

1.	Chemosphere, Elsevier,	2.	Genetics, USA
3.	Cancer Medicine, Wiley & Sons.	4.	Molecular and Cellular Biochemistry, Springer,
5.	Clinica Chimica Acta, Elsevier,	6.	Journal of Physiology and Biochemistry
7.	Frontiers Oncology, Frontiers.	8.	Journal of Applied Toxicology, Wiley & Sons
9.	Physica E: Low-dimensional Systems and Nanostructures, Elsevier,	10.	Colloids and Surfaces B: Biointerfaces, Elsevier,
11.	Plos One, Plos Group,	12.	The Journal of Gene Medicine, Wiley & Son
13.	BioMed Research International, Hindawi.	14.	Human and Experimental Toxicology. SAGE,
15.	Current Medicinal Chemistry, Bentham	16.	Journal of Nutritional Medicine and Diet Care
17.	Current Pharmaceutical Design, Bentham	18.	The Journal of Environmental Biology, India.
19.	Cancer Therapy & Oncology International Journal (CTOIJ), USA	20.	Recent Patents on Anti-Cancer Drug Discovery, Bentham
21.	Hepatic Oncology, Future Medicine	22.	Journal of Cancer, Ivy spring Int. Publisher
23.	*In Silico* Pharmacology, Springer	24.	Toxicology and Industrial Health, SAGE
25.	MOJ Cell Science & Report, MedCrave	26.	Saudi Pharmaceutical Journal, Elsevier
27.	Food and Chemical Toxicology, Elsevier	28.	Biosciences, Biotechnology Research Asia, India
29.	Redox Report, Maney Publishing,	30.	Molecular Biology Reports, Springer,
31.	Peptide Research & Therapeutics, Springer	32.	Non Coding RNA Research, Elsevier
33.	World J of Surgical Oncology, Springer	34.	International J of Medical Sciences, Ivyspring Int

	Nature		Publisher
35.	Plant Gene, Elsevier	36.	Drug Discovery Today, Elsevier
37.	Environmental Sustainability, Springer	38.	Pathology - Research and Practice, Elsevier
39.	3Biotech, Springer	40.	International J of Nanomedicine, Dove Press
41.	J of International Medical Research, SAGE	42.	Environmental Toxicology, Wiley
43.	OBM Genetics. Lidsen publishers, USA	44.	BioMed Research International, Hindawi
45.	Methods, Elsevier	46.	Environmental Pollution, Elsevier
47.	Food & Function, RSC Publications	48.	BBA-Reviews on Cancer, Elsevier.
49.	Future J of Pharmaceutical Sciences, Springer	50.	Arabian Journal of Chemistry, Elsevier
51.	Medical Science Reporter, Int Scientific Information, Inc.	52.	Computers in Biology and Medicine, Elsevier

SPECIAL TRAINING EXPERIENCE (TOTAL= 26)

1. **2021** 5-Day Faculty Enrichment Programme (FEP) on "***Cutting Edge Science in Cellular and Molecular Biomedicine***" organized by Amity Institute of Molecular Medicine and Stem Cell Research, Amity University UP, Noida, India. 27th-31st July.
2. **2021:** EBSCO Discovery & Open Athens online Training, Organized by Maulana Azad Library, Aligarh Muslim University, Aligarh, India. July 13.
3. **2020:** Indian Science Academies **"Science Leadership Workshop"** India's first leadership Program organized by Central University of Punjab, Bathinda, India, from June 22-June 28.
4. **2020:** **"Subject Refresher Course"** from April 20 to May 02, 2020, at UGC Human Resource Development Centre, AMU, Aligarh.
5. **2020:** Training on **"On-line Teaching Course"** from April 20 to April 23, 2020, at UGC Human Resource Development Centre, AMU, Aligarh.
6. **2019:** **Selected as one of the Faculties** to participate in the ***"EMBO Laboratory Leadership"***

Programme. New Delhi, India. (Sponsored by the Welcome Trust-DBT) March 18-12.

7. **2019:** Invited to attend the **Indian Education Congress 2019**. 9th National Convention on Business of Education. Hotel JW Marriot, New Delhi February 12-13.

8. **2018:**. **"Subject Refresher Course"** from September 04 to September 25, 2018, at UGC Human Resource Development Centre, AMU, Aligarh

9. **2018:** Worked as one of the members (out of five for Biosciences) to prepare National Resources for higher education in the "Workshop on Identification of Subject wise Resources for Teachers in Higher Education" at NIEPA, New Delhi, June 6-8.

10 **2018:** National Life Sciences Fest "BIOSPARK" held at Aligarh Muslim University, Aligarh, India.

11 **2018:** "**Project Funding in Higher Education**" was held on March 10, 2018, organized by the Academic Programme s Committee of AMU with DST, DBT, AICTE, ICSSR, ICMR, and UPCST.

12 **2018:** **"Induction Course"** from February 26, 2018, to March 04, 2018, at UGC Human Resource Development Centre, AMU, Aligarh.

13 **2018:** **"Orientation Programm"** from January 31 to February 28, 2018, at UGC Human Resource Development Centre, AMU, Aligarh.

14 **2017:** "Training Programme on Academic Leadership" from 07 September to 13 September 2017 at UGC Human Resource Development Centre, AMU, Aligarh.

15 **2014:** Aseptic Technique for Rodent Survival Surgery, Animal care laws, working with laboratory mice, Guide for the care and use of laboratory animals.

16 **2014:** Training on working with controlled substances, occupational health and animal biosafety, common compliance issues,

17 **2014:** Radiation Safety Training at the University of Southern California.

18 **2014:** Received training on BSl3 laboratory maintenance and creation of humanized mice.

19 **2010-2013:** Regularly attend the **Minnesota Chemoprevention Consortium** meetings at Austin, Twin Cities and, Rochester, MN.

20 **2007:** **Invited** as one of the **Young Researchers** to demonstrate Comet assay, Reporter gene assays, and RT-PCR at Seminar-cum-Workshop on "**Techniques in Molecular Biology and Genotoxicity.**" Venue: Depart of Zoology, University of Allahabad**,** India**.** March 17-20.

21 **2006:** **Selected as one of the young researchers** to participate at "International Symposium on Environmental Factors, Cellular Stress, and Evolution." Banaras Hindu University, Varanasi, India. (Sponsored by the **IUBS, Paris**). October 13-15.

22 **2005**: Workshop on Current Techniques in **Genetic Toxicology**. Venue: Indian Institute of Toxicology Research, Lucknow, India. December 01-15.

23 **2004**: Training Workshop on **Scientific Communication**. Venue: Indian Institute of Toxicology Research, Lucknow, India. July 24-25.

24 **2004**: Training Workshop on **Research Methodology and Statistical Methods in Biomedical Research**. Venue: Indian Institute of Toxicology Research (IITR), Lucknow, India. July 26-28.

25 **2004:** **Selected as one of the young researchers** to participate at Training, Seminar, and Workshop on "**Alternatives, Animal Welfare, and the Curriculum.**" Organizer: International Centre for Alternatives in Research and Education, Chennai, India; August 28. Venue: IITR, India

26 **1995:** Active member of the Volunteer Committee of the National Seminar on Recent Researches in Sciences and Technology. November 5-7. Venue: Karimganj College, Assam University.

POPULAR ARTICLES IN MAGAZINES NEWSPAPERS

1. Siddique HR. **2021**. How Money-Making Private Educational Institutes and Non-Performing Public Educati Institutes are Killing the Creativity of Our Future Generation. **PMG Voice, Guwahati.**
2. Siddique HR. **2018**. Adverse Health Effects of Arsenic Chronic Exposure: A Brief Note in Layman Te ***Barak*** 6: 108-112.
3. Siddique HR. **2015**. (Bengali). Biplobi Aziz Ahmed Choudhury: Jar Jonmo Shudhu Desh Premer Jonyo. **Ag Projonmo** p-2-4
4. Siddique HR. **2015**. Antibiotic overuse/misuse: A dangerous trend in India. ***Barak*** 3: 66-70
5. Siddique HR. **2015**. Muslim proschadpodotar Prekkhapot Sondane (Bengali). ***Samayik Prasnaga.*** Edit

Page (Page 4). March 02

6. Siddique HR. **2013**. Root of Muslim Backwardness: The Role of Illiteracy. ***Barak*** *2:72-74.*

7. Siddique HR. 2010. How to explore the best education opportunities: my little experience? Friends, Publis by Friends of Assam and Seven Sisters & Assam Foundation of North.

CONFERENCE/SEMINAR/WORKSHOPS ATTENDED

1. **2021:** Annual Meeting of American Association for Cancer Research, USA
2. **2021:** 40th Annual Conference of Indian Association for Cancer Research. March 01, 2021. Organized by Institute of Life Sciences, Bhubaneswar, Orissa, India.
3. **2021:** Attendend the Extension lecture on Diabebets at rajiv Gandhi Centre for Diabebtes & Endrocrinology. April 04. JN Medical College, Aligarh Muslim University. India
4. **2021:** International e-Conference on Brain Tumors and Stem Cell. Theme: Stem Cell as a Therapeutic approach for brain Tumors. February 4-5. JNMC, AMU, Aligarh.
5. **2020:** One day Webinar on "**Biology and Medicine: Recent Advances"** organized by Department of Zoology, Aligarh Muslim University, Aligarh. **October 10.**
6. **2020:** One Week Workshop on "**Science Leadership Workshop"** by the three Indian Science Academies Organizer: Central University of Punjab, Bathinda, India from June 22-June 28.
7. **2020:** One-day Symposium on International Collaboration and prospects for STEM education and Research. March 05**,** Department of Chemistry, AMU, Aligarh.
8. **2020:** 8th International Translational Cancer Research on Conference on Role of Inflammation & Immune System for Cancer Prevention & Treatment. February 13-16. Institute of Science, Department of Biochemistry, Banaras Hindu University, Varanasi-221005. IL-25.
9. **2020:** International Conference on Emerging Trends in Chemical Sciences. February 15-16. Department of Chemistry, AMU, Aligarh.
10. **2019:** National Symposium on "Biodiversity and Sustainable Development" at Department of Zoology, Aligarh Muslim University, Aligarh, India.
11. **2019:** International Conference [SPER-Bangkok 2019] on Fostering Pharmaceuticals Innovations to

Bridge the Gap in pharmaceutical Research and Industry.

12. **2019:** Workshop on "EMBO Laboratory Leadership" Programme. New Delhi, India. (Sponsored by the Welcome Trust-DBT).
13. **2019:** Conference on Recent Developments in Biomedical, Unani and Ayurvedic Translational Research & Darker Side of Rampant Use of Lead-Based Products. JNMC, AMU, Aligarh.
14. **2019:** International Conference on Advances in Zoological Research (ICAZR). AMU, Aligarh.
15. **2018:** Annual Conference of Indian Academy of Biomedical Sciences. Srinagar, Kashmir
16. **2018:** International Conference on "Cell Death in Cancer and Toxicology," IITR, Lucknow.
17. **2018:** National Conference on Impact of Environmental Xenobiotics on Human Health & Biodiversity. University of Lucknow, India.
18. **2018:** Workshop on Identification of Subject wise Resources for Teachers in Higher Education" at National Institute of Educational Planning and Administration, New Delhi, June 6-8.
19. **2018:** National Life Sciences Fest "BIOSPARK" held at Aligarh Muslim University, India.
20. **2017:** World Neuro Congress-2017 on Neurogenomics and Stem Cell Therapy, AMU, India.
21. **2015:** Annual Meeting of American Association for Cancer Research, USA
22. **2015:** The annual meeting of the Society of Basic Urological Research, USA
23. **2015:** 17th Annual Symposium on Emerging Therapeutic Targets for ALPD & Cirrhosis. CA, USA.
24. **2013:** Biomedical Informatics and Computational Biology Symposium. University of Minnesota, MN.
25. **2012:** Annual Meeting of American Association for Cancer Research, USA
26. **2012:** Society for Basic Urologic Research Fall Symposium (SBUR). Miami, FL.
27. **2012:** 3rd Annual Masonic Cancer Center Research Symposium, Twin Cities, MN.
28. **2012:** 11th Annual AACR Int. Conference on Frontiers in Cancer Prevention Research, CA, USA.
29. **2011:** Annual Meeting of American Association for Cancer Research
30. **2011:** Department of Defense (DOD)-IMPACT conference, Orlando, FL.
31. **2010:** Annual Meeting of American Association for Cancer Research, USA.
32. **2010:** Society for Basic Urologic Research Fall Symposium (SBUR). Atlanta, GA

33. **2010:** 2nd Annual Masonic Cancer Center Research Symposium, University of Minnesota, USA.
34. **2007:** 30th All India Cell Biology Conference, Delhi University, India.
35. **2007:** 31st All India Cell Biology Conference, Banaras Hindu University, India.
36. **2007:** Seminar-cum-Workshop on "Techniques in Molecular Biology and Genotoxicity." University of Allahabad**,** India**.**
37. **2006:** International Symposium on Environmental Factors, Cellular Stress, and Evolution." Banaras Hindu University, India. (Sponsored by the IUBS, Paris).
38. **2006:** EMBO workshop on Developmental Mechanisms and Disease Models, Department of Biological Sciences and Bioengineering, IIT, Kanpur.
39. **2006:** 29th "All India Cell Biology Conference, IITR, India.
40 **2005:** 30th Annual conference of Environmental Mutagen Society of India. IITR, India.
41. **2005:** National symposium on "Recent trends in environmental biology and biotechnological approach to conserve biodiversity." Gulbarga University, Karnataka, India.
42. **2005:** Workshop on Current Techniques in Genetic Toxicology. Indian Institute of Toxicology Research, Lucknow, India.
43. **2004:** 28th "All India Cell Biology Conference. Punjab University, Chandigarh, India.
44. **2004:** Workshop on research methodology & statistical methods in biomedical research. IITR, India.
45. **2004:** Training, Seminar & Workshop on "Alternatives, Animal Welfare, and the Curriculum." Organizer: International Centre for Alternatives in Research and Education, Chennai, India.
46 **2002:** National Conference on Expanding Horizons of Human Genetics, Delhi University, India.
47 **1995:** National Seminar on Recent Researches in Sciences and Technology. Karimganj College, Assam University.

RESEARCH SCHOLARS PURSUING PH.D. UNDER MY GUIDANCE: 03

SN	Name of the Student	Session	Title of the Thesis
1.	Homa Fatma	2017-2018	To study the role of Lupeol in chemosensitization of liver cancer cells

	(MANF-JRF)		and prevention of Sorafenib-induced toxicity
2.	Deepti Singh (CSIR-JRF)	2017-2018	Role of Apigenin in chemoprevention and chemosensitization of hepatocellular carcinoma: special emphasis on combination therapy with Sorafenib
3	Md. Afsar Khan (CSIR-SRF)	2017-2018	Anti-carcinogenic study of selected inorganic based nano-particle against Oral Cancer.

RESEARCH ASSOCIATE: 01

1.	Dr. Tanushree Debbarman	2021-2025	Study of Epigenetic Modulation in Insulin Promoter Region and Associated Growth Factors in Diabetes (Diabetic Neuropathy) and Pancreatic Cancer in both Preclinical and Clinical Settings

M.S./M.D. THESIS PROJECT

1.	Dr. Shahid Ali (JNMC)	2021-2024	Clinicopathological profile of patients with Gallbladder carcinoma and its association with BMI1 Gene expression.

JUNIOR RESEARCH FELLOW (UNDER DST-SERB PROJECT)

1.	Santosh K Maurya	2018-2021	"Role of Lupeol on Chemosensitization of Cancer Stem Cells by Targeting cFLIP/β-Catenin-AR/Nanog-cMyc Module both *in vitro* and in a Mouse Model of Prostate Cancer.

RESEARCH GUIDANCE FOR M.SC. PROJECT WORK

1.	Ms. Javeria Fatima	**2020-2021**	*In Silico* analysis of the pro-apoptotic function of Lupeol against selected Proteins.
2.	Ms. Sumaiya Shahnawaz	**2019-2020**	In Silico analysis of anti-viral, anti-protease, anti-infectious compounds against main Methyltransferase and Protease of SARS-CoV-2
3.	Ms. Kajol Gaur	**2018-2019**	Bisphenol-A induced Toxicity in Rats: Ameliorative Effect

			of a Polyherbal Unani Formulation
4.	Mr. Mohd Shabir	**2017-2018**	Protective Role of *Majoon suranjan* (an Unani formulation) against Bisphenol-A induced genetic damages in an animal model.

POPULAR TALK SHOWS IN TELEVISION

1. Talk on Cancer: DD National.
2. **DD National (Silchar)-TV Interview on Liver cancer**
   Link: https://youtu.be/yUv_hhbgfdY
3. Causes of cancer in Assam: Assam Protidin, Assamese TV Chanel
4. Immunity, Vaccination and Antibiotics: A brief discussion, Taranga Barta, Live TV
   Link: https://www.facebook.com/721878694683525/videos/3387459737948309/
5. **ETV-Interview on Liver Cancer**
   Link: https://www.etvbharat.com/urdu/national/bharat/bharat-news/research-by-amu-scientists-on-liver-cancer/na20200622221520868
6. **Corona Awareness (In local Bengali dialect)**
   Link: https://www.youtube.com/watch?v=6ZtEpnRIyvQ&t=47s
7. **Karimganj District Eiddgah, Assam: Importance of Education among Indian Muslims.**
   Link: https://www.youtube.com/watch?v=0FmEg7Gntfs
8. **Knowledge Plus TV**
   Link: https://www.youtube.com/watch?v=8FGYTymMBL4
9. **Motivational Lecture to AL-Islah National Academy, Karimganj, Assam**
   Link: https://www.youtube.com/watch?v=tdwhPZsLXTc
10. **ISHANER SHAKANAD-TV Interview on Liver cancer**
    Link: https://www.youtube.com/watch?v=3ZkMmD8VYJw

CHAIRPERSON OF THE CONFERENCES

1	**2019:**	International Conference [SPER-Bangkok] on Fostering Pharmaceuticals Innovations Bridge the Gap in Pharmaceutical Research and Industry.
2	**2019:**	International Conference on Advances in Zoological Research at Department of Zoology, Aligarh Muslim University, Aligarh, India.

ADMINISTRATIVE EXPERIENCE

1.	November 2020-till:	Member of preparation NAAC accreditation Committee.
2.	January, 2020-till:	Member of the Departmental "***Animal House Maintenance Committee***"
3.	November 2019-till:	Member of the "Swachata Committee of the Department of Zoology

4.	November 2019-till:	Member of the **Students' Grievance Committee** of the Department of Zoology
5.	November 2019-till:	Member of the **Pro-Proctorial committee** of the Department of Zoology
6.	November, 2019-till:	Responsible for the **maintenance of the Website** of the Department of Zoology
7.	2018-till:	One of the **core committee members** to frame the Syllabus and Curriculum for the course of Molecular Genetics at Master Level
8.	2018-till:	One of the Members of the Smoke-free University Campus
9.	2017-2018 & 2018-2019:	One of the **Moderation Committee membe**rs to moderate question paper for the Faculty of Agriculture Sciences
10.	2017-till:	Member of the University **"Alumni Relation Committee"**
11.	2018:	Internal Examiner for B.Sc. Examination of Department of Zoology.
12.	2018:	Internal Examiner for M.Sc. Examination of Department of Zoology.
13.	2018-till:	Active member of the eShodh Sindhu (eSS) programme of the University.
14.	2018:	Internal Examiner for B.Sc. Examination (2018) of Department of Plant Protection

ORGANIZING COMMITTEE MEMBERS

1.	2019:	National Symposium on "Biodiversity and Sustainable Development" at Department of Zoology, Aligarh Muslim University, Aligarh, India.
2.	2018:	International Conference on Advances in Zoological Research at Department of Zoology, Aligarh Muslim University, Aligarh, India.
3.	2017:	World Neurocongress-2007 at JNMC, Aligarh Muslim University, Aligarh, India

WORLD TOP LIFE SCIENCE COMPANIES CITED MY WORK

1. **SIGMA ALDRICH: https://www.sigmaaldrich.com/catalog/papers/22956858**
2. **EMBL-EBI: https://www.ebi.ac.uk/arrayexpress/experiments/E-GEOD-44049/**

3. **REPROCELL: https://www.reprocell.com/bioserve-publications-human-tissue-samples-i107**

4. **ANOGEN: http://www.anogen.net/human-psa-elisa-kit.html**

LAB IN NEWS (PRINT MEDIA)

1.	**National Herald, New Delhi.** Link: https://www.nationalheraldindia.com/health/amu-scientist-discovers-proteins-that-form-cancer-in-liver	24.	**Austin Daily Herald, USA** Link:https://www.austindailyherald.com/2011/07/institute-scientist-leading-the-way/
2.	**Mohanonda News, Dhaka** Link: http://mohanondanews.com/?p=91650	25.	**Outlook, New Delhi, India** Link:https://www.outlookindia.com/newsscroll/amu-scientist-discovers-proteins-that-form-cancer-in-liver-ians-special/1873607
3.	**Post Bulletin, Rochester, US** Link: https://www.postbulletin.com/austin/news/institute-s-work-is-in-national-spotlight/article_3e2e8f78-8f88-508c-b8e0-14c5313ac7e0.html	26.	**Times of India, Agra, India.** Link:https://timesofindia.indiatimes.com/city/agra/amu-scientist-la-prof-identify-protein-forming-cells-causing-tumour-in-liver-cancer/articleshow/76471111.cms
4.	**Daijiworld, Dubai, UAE** Link: https://www.daijiworld.com/news/newsDisplay.aspx?News ID = 722289	27.	**Madhyamam, Calicut, India** Link:https://english.madhyamam.com/en/science-technology/2020/jun/22/amu-scientist-discovers-proteins-form-cancer-liver
5.	**Punjab News Express, Chandigarh, India.** Link:http://punjabnewsexpress.com/campus-buzz/news/amu-scientist-discovers-proteins-that-form-cancer-in-liver-113273.aspx	28.	**The Statesman, Kolkata, India** Link:https://www.thestatesman.com/india/amu-scientist-discovers-proteins-that-form-cancer-in-liver-1502902476.html
6.	**The Sentinel, Guwahati, India** Link:https://www.sentinelassam.com/tophAeadlines/assamese-scientist-discovers-cells-causing-liver-cancer-484001?infinitescroll=1	29.	**India TV, India** Link: https://www.indiatvnews.com/science/amu-scientist-discovers-proteins-form-liver-cancer-628253
7.	**ETV-Hindi New Delhi, India** Link:https://www.etvbharat.com/hindi/uttar-pradesh/state/aligarh/amu-scientist-discovers-factors-for-liver-cancer/up20200620195046098	30.	**Khoborwala TV, Kolkata, India** Link: https://khoborwalatv.com/dr-siddiqui-a-researcher-of-aligarh-muslim-university-and-other-creat-important-reasearch-for-cirrhosis/
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9.	**The Samikhsya Bhubaneswar, India** Link: https://thesamikhsya.com/breaking-news/amu-scientist-discovers-proteins-that-form-cancer-in-liver	32.	**BDC TV, Boston, USA** Link: https://bdc-tv.com/amu-scientist-discovers-proteins-that-form-cancer-in-liver-ians-special/
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11.	**Sify New Portal, Chennai, India**	34.	**Bhaskar live Bhopal, India**

	Link:https://www.sify.com/news/amu-scientist-discovers-proteins-that-form-cancer-in-liver-ians-special-news-education-ugwj5Igijhaae.html		Link: https://www.bhaskarlive.in/amu-scientist-discovers-proteins-that-form-cancer-in-liver/
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18.	**Ohio State University, USA-Best Teacher** Link:http://www.astronomy.ohio-state.edu/~nahar/zoologyprizes-amu.html	41.	**Chauti Duniya, Delhi, India** Link: http://urdu.chauthiduniya.com/dr-hifzur-rehman-siddique
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22.	**Award, SBUR, USA** Link: https://www.sbur.org/travel-awards	46.	**Aligarh Media, Aligarh, India** Link:http://www.aligarhmedia.com/dr-siddiq-received-the-social-innovation-research-award-2013/
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SELECTIVE TOP SCIENTISTS AS CO-WORKERS/ CO-AUTHORS/COLLABORATORS

1.	**Prof. Noona Ambartsumian.** Institute of Neuroscience and Pharmacology, Faculty of Health Sciences, Copenhagen University, 2200, Copenhagen, Denmark	20.	**Prof. Hassan Mukhtar** Professor and Vice Chair for Research, Dermatology Research Laboratories University of Wisconsin, Madison, USA
2.	**Prof. Robert Matusik** Urologic Surgery, Vanderbilt University Medical Center, Nashville, TN 37232, USA	21.	**Prof. Robert J Karnes** Department of Urology, Mayo Clinic Rochester, MN, USA
3.	**Prof. Keigo Machida** Molecular Microbiology and Immunology University of Southern California Health Sciences Campus, Los Angeles, USA	22.	**Prof. Emery Bresnick** Professor; Director, UW-Madison Blood Research Program, University of Wisconsin, Madison, WI USA
4.	**Prof. M. Saleem (Bhat)** Molecular Therapeutics and Cancer Health Disparity Lab, Department of Urology, Masonic Cancer Center, University of Minnesota, Minneapolis MN, USA	23.	**Prof. RK Ganju** Molecular Biology and Cancer Genetics Ohio State University, 460 W 12th Ave, Columbus, OH 43210
5.	**Prof. BR Konety** Department of Urology, Masonic Cancer Center, University of Minnesota, Minneapolis MN, USA	24.	**Prof. Renjie Jin** Department of Urologic Surgery and Vanderbilt Prostate Cancer Center, Vanderbilt University Medical Center, Nashville, Tennessee
6.	**Prof. Hiroyuki Aburatani** Genome Science, Research Centre for Advance Science & Technology, The University of Tokyo, Japan.	25.	**Prof. Hidekazu Tsukamoto, PhD** Keck School of Medicine, University of Southern California, Los Angeles, CA, USA
7.	**Prof. SM Tahara** Keck School of Medicine, University of Southern California, Los Angeles, CA, USA	26.	**Prof. V Punj** Keck School of Medicine, University of Southern California, Los Angeles, CA, USA
8.	**Prof. EJ Bergstralh** Department of Biostatistics, Mayo Clinic Rochester, MN, USA	27.	**Prof. Y Deng** Hormel Institute, University of Minnesota, MN USA
9.	**Prof. Joshua Liao** Pathology Department, Guizhou Medical University Hospital, Guiyang City, Guizhou Province, China	28.	**Prof. Jayanth Panyam** Department of Pharmaceutics University of Minnesota, MN, USA
10.	**Prof. Shahria Koochekpour a** Roswell Park Comprehensive Cancer Center, University at Buffalo, Buffalo, NY, USA	29.	**Prof. Michael B. Elowitz** Professor of Biology and Bioengineering, Howard Hughes Medical Institute, California Institute of Technology, CA 91125, USA
11.	**Prof. Alok Dhawan** Director, Indian Institute of Toxicology Research.	30.	**Prof. Nupam Mahajan** Urological Research, Division of Surgery,

	MG Marg, Lucknow, India.		Washington University School of Medicine, USA
12.	**Prof. Wangu Liu** Department of Genetics, Louisiana State University, New Orleans, LA, USA.	33.	**Prof. Maarten C Bosland** University of Illinois Chicago, IL, USA
13.	**Prof. J S Rhim** Center for Prostate Disease Research, Uniformed Services University of Health Sciences, Bethesda MD, USA	34	**Prof. LH Hoeppner** Department of Molecular Biology and Translational Cancer Research, Hormel Institute, Austin, Minnesota.
14.	**Prof. C Morrissey** Department of Urology, University of Washington, Seattle, Washington, USA	36.	**Prof. P Murugan** Department of Lab Medicine and Pathology, University of Minnesota, Minneapolis, MN, USA
15.	**Prof. T Hussain** Department of Urology, University of Minnesota, Minnapolis, MN, USA	37.	**Dr. Bushra Ateeq** Department of Biosciences & Bioengineering Indian Institute of Technology, Kanpur
16.	**Dr. Sajal Das** Department of Chemistry Tezpur University, Assam	38.	**Dr. Rohit Saluja** Department of Biochemisty All India Institute of Sciences, Bhopal
17.	**Dr. Syed Mustafa Ahmad** Department of Biochemistry CSIR-Central Food Technological Research Institute (CSIR-CFTRI), Mysuru-570020,	39.	**Dr. Maqsood Ahmad** Institute of Nanotechnology King Saud University Saudi Arabia
18.	**Dr. Nidhi Mishra** Chemistry laboratory, department of Applied Sciences, indian Institute of Information Technology, Allahabad, 211015, UP. INDIA	40	**Prof. Srataj Tabassum** Department of Chemistry Aligarh Muslim University Aligarh- 202002, India
19.	**Prof. Farukh Arjmand** Department of Chemistry Aligarh Muslim University Aligarh, UP-202002	41.	**Prof. Absar Ahmad** Director, Interdisciplinary Center for Nanotechnology, Aligarh Muslim University, Aligarh, UP-202002

SELECTED TOP JOURNALS CITED MY WORKS

Journals	Year of Publications	Journals	Year of Publications
Nature Reviews Cancer	2015	Nature	2013
Nature Genetics	2018	Nature Medicine	2014
Cancer Cell	2014	Cell Stem Cell	2017
Cancer Discovery	2014	BMC Genome Biology	2015
Science Translational Medicine	2014	Coordination Chemistry Reviews	2016
Nature Communications	2016, 2018, 2020	Trends in Pharmacol Sciences	2017
EMBO Molecular Medicine	2017	PNAS	2015
Critical Reviews in Food	2020	Seminars in Cell &	2021

Sciences & Nutrition		Developmental Biology	
Cancer Research	2014, 2016, 2020	Cell Reports	2020
Seminars in Cancer Biology	2016, 2017, 2020,2021	J of Hazardous Materials	2012, 2016, 2018, 2019, 2020
Genes & Development	2012	Clinical Cancer Research	2013, 2016, 2017, 2018
Nature Reviews Urology	2012	International J of Cancer	2012, 2014,2018
Trends in Cancer	2020	BMC-Molecular Neurodegeneration	2015
Chemical Engineering Journal	2019	Oncogene	2013, 2015, 2017, 2018, 2020,2021
Journal of Controlled Release	2020	Drug Discovery Today	2009, 2021
Crit Rev in Biochem & Mol Biology	2020	BBA-Molecular Cell Research	2014, 2019
Clinical Nutrition	2021	Frontiers Immunology	2017, 2018,
Cancers	2016, 2021	Cancer Letters	2012, 2015,2020
Antioxidants & Redox Signaling	2018	Enviornmental Pollution	2013, 2021
Cell Biology & Toxicology	2009, 2020	Nature-Cell Death & Disease	2018, 2020
British Journal Of Cancer	2014	Nature-Cell Death Discovery	2017
Stem Cells	2014, 2020	Nanotoxicology	2015, 2019
Cells	2020, 2021	E-Biomedicine	2019
Mutation Research / Reviews in Mutation Research	2016, 2017	Seminars in Cell & Developmental Biology	2021
Curr Opinion in Pharmacology	2014	Free Radical Biol & Medicine	2015
Materials Research	2020	J. of Biological Chemistry	2012, 2018, 2019
Molecular Neurobiology	2017	Oncotarget	2016
Chemosphere	2010,2020,2021	Science of the Total Environment	2014, 2021
Frontiers in Cell & Dev Biology	2020	The FEBS Journal	2021
BBA Cancer Reviews	2021		

Personal Profile: Male, Married

Nationality: Indian

Languages: English, Hindi, Bengali, Urdu, and Assamese

DATE: 11-08-2021 Hifzur Rahman Siddique

Place: AMU, Aligarh, India

Work Pertaining to Innovation and Discoveries

According to GLOBOCAN data, in 2018, there were 11,57,294 new cancer cases in India, 7,84,821 deaths, and 22,58,208 people living with cancer (within 5 years of diagnosis). The age-standardized prevalence of cancer is estimated to be 97/lakh persons with higher prevalence in urban areas. Further, cancer displays a significant socioeconomic burden and is exerting tremendous strain on individuals, families, communities, and health systems. It has been observed that cancer treatment has the highest out of pocket expenditure among all the known ailments. Despite significant progress seen in the diagnosis and treatment, cancer is still on the rise. It is considered as one of the severe threats to our society and economy. Among the cancers, liver and prostate cancers are the significant causes of mortality. Increasing evidence suggests that Cancer Stem Cells (CSCs) are the "root cause" of cancer chemoresistance, and recurrence. Emerging evidence also indicates that the chemoresistance of CSCs is in part due to the activation of lncRNAs/proteins responsible for self-renewal. In the last five years, my published/unpublished study made groundbreaking discoveries on how CSCs cause chemoresistance, cancer recurrence, and cell fate reprogramming. I have identified novel molecules (lncRNAs/proteins) which could be used as molecular targets for therapeutic agents, reported prostate cancer biomarkers better than the existing one (***Molecular Cancer Therapeutics 2020,*** 19: 2598-2611, ***Clinical Cancer Research****, 2018, 24:6421-32****; Plos One 8, e52993***) and identify potential agents those could be used to treat and prevent these diseases (**Molecular Carcinogenesis**, 59:886-96; ***Coordination Chemistry Reviews****,****2019****;387:47-59***)**.** Recently, in our groundbreaking research paper in **Nature Communications (**2020, 11:3084) where we discovered how_p53 destabilizing protein skews asymmetric division and enhances Notch activation to direct self-renewal of CSCs. Further, by gene-editing technology, we elucidated the molecular mechanism of action of these destabilizing proteins (TBC1d15 and phosphor-NUMB) during CSCs self-renewal. Next, we tested the contributory role of NUMB phosphorylation in the genesis of CSCs and liver tumors in an HCV Ns5aTg mouse mode fed with a Western alcohol diet. TBC1D15 activated three novel oncogenic pathways to promote self-renewal, p53 loss, and *Nanog* transcription in CSCs. Thus, this central regulator could serve as a potential therapeutic target for the treatment of HCC. It has been observed among the Indian patients, Sorafenib therapy provides only 3 months' overall survival with advanced HCC than those treated with BSC alone. In this direction, I have identified nontoxic phytochemical, Lupeol that binds TBC1D15/NANOG/TLR4 axis and might be chemosensitize CSCs for FDA approved drugs Sorafenib. This phytochemical also inhibist/reduces the toxic effect of Sorafenib as this drug cause numerous side effects that directly/indirectly influence the quality of life and even death to the patients.

RELATED PUBLICATION:

Publications with Impact Factor ≥ 10

1. Choi HY*, Siddique HR*, et al. **2020.** p53 destabilizing protein skews asymmetric division and enhances NOTCH activation to direct self-renewal of TICs. **Nature Communications**.11: 3084 PMID: 32555153 **Impact Factor-15.0*= Contributed Equally.**
   Link:
2. Siddique HR, Maurya SK. **2021.** Lupeol chemosensitize the cancer stem cells for enzalutamide and ameliorate the enzalutamide induced toxicity in prostate cancer. **Abst #** 276. **Cancer Research**. 2021;81(13S):Art nr 276. **Impact Factor-12.7.**
3. Arjmand F, …, Siddique HR, Tabassum S. **2019.** Recent Advances in Metalodrug-like Molecules targetting non-coding RNAs (ncRNAs) in cancer Chemotherapy. **Coordination Chemistry Reviews.** 387: 47-59. **Impact Factor -22.3.**
4. Siddique HR, et al. **2017**. MSI2 binds LncRNAs and promotes self-renewal and oncogenesis through MYC expression. **Cancer Research** 77(13S): Art. No. 2542. **Impact Factor-12.7**.

(non-peered).

5. Ganaie AA, ……., Siddique HR, et al. **2018**. BMI1 drives metastasis of prostate cancer in Caucasian and African-American men and is a potential therapeutic target: hypothesis tested in race-specific models. **Clinical Cancer Research** 24: 6421-6432. PMID: 30087142. **Impact Factor -12.5.**
6. Ganaie A, …, Siddique HR, et al. **2020.** Biopsy-S100A4 and serum-S100A4 alterations predict poor outcome in prostate cancer: Clinical significance of anti-S100A4 antibody therapy. **Molecular Cancer Therapeutics.** 19: 2598-2611. PMID: 32999046. **Impact Factor-6.2.**
7. Arjmand F, Khursheed S, Roisnel T, Siddique HR. **2020.** Copper(II)-based halogen-substituted chromone anti-tumor drug entities: Studying biomolecular interactions with ct-DNA mediated by sigma hole formation and cytotoxicity activity. **Bioorganic Chemistry**. 104: 104327. PMID: 33142405. **Impact Factor-5.2.**
8. Jameel M, Alam MF, Younus H, Jamal K, Siddique HR. **2019.** Hazardous sub-cellular effects of Fipronil directly influence the organismal parameters of *Spodoptera litura.* **Ecotoxicology and Environmental Safety.** 172: 216-224. PMID: 30710772. **Impact Factor- 6.3**
9. Parray A, Siddique HR, et al. **2014.** ROBO1, a tumor suppressor and critical molecular barrier for localized tumor cells to acquire invasive phenotype: Study in African-American and Caucasian prostate cancer models. **International Journal of Cancer.** 135: 2493-506. PMID: 24752651. **Impact Factor -7.4.**
10. Siddique HR, et al. **2013.** The S100A4 Oncoprotein Promotes Prostate Tumorigenesis in a Transgenic Mouse Model: Regulating NFκB through the RAGE Receptor. **Genes & Cancer**. 4: 224-234. PMID: 24069509. **Impact Factor- 5.6**.
11. Siddique HR, et. **2012**. Epicatechin-rich cocoa polyphenol inhibits Kras-activated pancreatic ductal carcinoma cell growth in vitro and in a mouse model. **International Journal of Cancer**. 131: 1720-31. PMID: 22190076. **Impact Factor -7.4.**

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a) The work must be available on Institute's website
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c) The work must be reproducible and developed further by other scholars.

Duly completed form to be submitted by August 20, 2021.

Email *

hrsiddique@gmail.com

Name of the teacher, age, institution name, course name *

Hifzur R Siddique, 44, Aligarh Muslim University, Genetics, D/O Zoologyy

Pls share what Innovation techniques have you implemented in your Teaching and learning process. Pls upload valid documents to justify your claim. *

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4_Innovation & D...

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