



Dr. Syed Naqui Kazim

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Centre for Interdisciplinary Research in Basic Sciences (CIRBSc.)
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1. Name and correspondence address **Dr. Syed Naqui Kazim**
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+91 9953621758, +91 9213218389
3. Institution Centre for Interdisciplinary Research in Basic Sciences (CIRBSc.), Jamia Millia Islamia, New Delhi-110025, India.
4. Date of Birth July 14, 1969.
5. Gender Male
6. Field of Specialization/Area of Research Molecular Biology (Hepatitis B virus)

7. Academic Qualification (Undergraduate Onwards)

S. no.	Degree	Year	Subject	University/Institution	% of marks
1.	B.Sc	1990	Zoology, Botany, Chemistry	Bihar University, Muzaffarpur, Bihar	59.1%
2.	Bridge Course	1991	Zoology	AMU, Aligarh, U.P	57.6%
3.	M.Sc	1993	Zoology	AMU, Aligarh, U.P	66.2%
4.	Ph.D	2004	Biosciences Title of PhD thesis: Molecular Characterization of HBV mutants in India.	Jointly from the Depts. Of Bio-Sciences, Jamia Millia Islamia, Dept. of Gastroenterology, G. B. Pant Hospital and Eukaryotic Gene Expression Laboratory, National Institute of Immunology, New Delhi.	-

8. Ph.D thesis title, Guide's name, Institute/University, Year of award:**Thesis title:** Molecular Characterization of HBV mutants in India.**Guide's name:** Prof. L. A. Khan, Dept. of Biosciences, JMI, New Delhi (supervisor).Prof. Shiv Kumar Sarin, Director, Institute of Liver and Biliary Sciences, Vasant Kunj, New Delhi; Former Head, Dept. of Gastroenterology, G. B. Pant Hospital, New Delhi (Co-supervisor).Prof. Seyed Ehtesham Hasnain, Vice Chancellor, Jamia Hamdard, New Delhi; Former Head, Eukaryotic Gene Expression Laboratory, National Institute of Immunology, New Delhi; Director, CDFD, Hyderabad; Vice Chancellor, University of Hyderabad. (Mentor).**Year of award:** December 2004.**9. Previous Academic positions/employment Profile:**

S.No.	Position Held	From	To	Name of Institutes
1.	Research Associate	Nov. 2005	14.01.2007	Dept. of Gastroenterology, G. B. Pant Hospital, New Delhi.
2.	Postdoctoral Fellow	June 2005	Oct. 2005	Dept. of Hepatology, Faculty of Medicine, Imperial College, London, U.K.
3.	Research Associate	March 2004	May 2005	Dept. of Gastroenterology, G. B. Pant Hospital, New Delhi.
4.	Sr. Research Fellow	July 2000	Feb. 2004	Jointly at the Dept. of Gastroenterology, G. B. Pant Hospital & Eukaryotic Gene Expression Laboratory, National Institute of Immunology, New Delhi.
5.	Jr. Research Fellow	1996	June. 2000	Jointly at the Dept. of Gastroenterology, G. B. Pant Hospital & Eukaryotic Gene Expression Laboratory, National Institute of Immunology, New Delhi.
6.	Jr. Research Fellow	Jan. 1995	Oct. 1995	Dept. of Biotechnology, All India Institute of Medical Sciences, New Delhi.

10. Present employment Profile:

S. no.	Positions held	Name of the Institute	From	To
1.	Assistant Professor	Centre for Interdisciplinary Research in Basic Sciences (CIRBSc.), Jamia Millia Islamia, New Delhi	15.1.2007	14.1.2019
2.	Associate Professor	Centre for Interdisciplinary Research in Basic Sciences (CIRBSc.), Jamia Millia Islamia,	15.1.2019	Till date

		New Delhi		
3.	Deputy Director	Multidisciplinary Centre for Advanced Research and Studies (MCARS), JMI, New Dlehi.	5.10.2016	Till date

11. Professional recognition/Award/Prize/Certificate, Fellowship:

S. no.	Name of Award	Awarding agency	Year
1.	International Travel award to present paper in the Asia Pacific Association for the Study of Liver (APASL 2002) meeting at Taiepi, Taiwan in year 2002.	Asian Pacific Association for the Study of Liver (APASL)	2002
2.	Best Paper award in European Association for the Study of Liver-Indian Association for the Study of Liver meeting held in 2002 in New Delhi, India.	European Association for the Study of Liver (EASL)-Indian Association for the Study of Liver (INASL)	2002
3.	Young Investigators award in Indian Society of Gastroenterology meeting held in 2003 at Madras, India.	Indian Society of Gastroenterology (ISG)	2003
4.	International Fellowship of “Young Scientists Networking Follow-up” Programme received from the British Council, British High Commission, New Delhi to visit the laboratory of Prof. Mark Thursz, Dept of Hepatology, Faculty of Medicine, Imperial College, London during June 2005 to October 2005.	British Council, British High Commission, New Delhi	2005
5.	International Fellowship of DST-DAAD (Indo-German) to work as Research Scientist for the project entitled “Liver gene therapy by foamy virus vectors”: in the Laboratory of Prof. Axel Rethwilm at The Institute of Virology and Immunology, University of Würzburg, Würzburg, Germany, during November-December 2008. (German Grant SFB479) (Sonderforschungsbereich)	DST-DAAD (Indo-German)	2008

12. Research Projects:

S.No.	Title	Agency	Period	Grant/Amount (in INR)
1.	Identification of Hepatitis B virus genotypes and investigation of molecular	DBT	July, 2009 to July,	Rs. 92,19,400/-

	mechanisms of life cycle of surface mutant hepatitis B virus (HBV) in lamivudine resistant strains		2013.	
2.	An <i>in vitro</i> study of the role of hepatitis B virus X protein in the development of hepatocellular carcinoma by investigating its involvement in expression of cyclin A1/A2 and associated proteins.	SERB (DST)	January, 2013 to January, 2016.	46.83 Lakhs
3.	Influence of basal core promoter/precore (BCP/PC) mutations on the life cycle of drug resistant hepatitis B virus.	DST funded under the WOS-A scheme to my PhD student. Research carried out in my lab under my mentorship/supervision.	June 23, 2011 to June 22, 2014.	16.56 Lakhs
4.	Study the role of deregulation in multiple signaling cascades, genetic and epigenetic mechanisms in the development of gall bladder diseases and carcinomas in the northeast India.	DBT's Twinning project with the North East (Gauhati University, Assam)	August 2014 to August, 2017.	78.48 Lakhs (13.90Lakhs for JMI)
5.	Prediction and validation of interactions between host proteins deregulating the multiple signalling cascades in Hepatitis B virus related hepatocellular carcinoma: combined strategies involving tools of Bioinformatics and <i>in vitro</i> cell culture system.	International Bilateral Cooperation Division, Department of Science and Technology, Govt. of India, India-Iran joint project with National Institute of Genetic Engineering and Biotechnology (Tehran, Iran)	July 2019 to July 2022	6.24 Lakhs

13. Research Guidance (M.Phil): Five

As a supervisor

1. Name of the Student: Ms. Sheeba Naaz

Title of M.Phil thesis: Reconstruction of a Mammalian Expression Vector and Cloning of X-Gene and Associated Regulatory Elements of Hepatitis B Virus in TA Cloning Vector.

Status: Degree awarded (year 2015)

2. Name of the Student: Md. Iqbal Azmi

Title of M.Phil thesis: Development of Restriction Fragment Length Polymorphism and Sequence Specific Methods for the Detection of Antiviral Induced/Resistant Mutations in Hepatitis B Virus Genome.

Status: Degree awarded (year 2017)

3. Name of the Student: Ms. Saniya Khan

Title of M.Phil thesis: Cloning and Confirmation of Hepatitis B Virus Surface Gene with its Untranslated Region.

Status: Degree awarded (year 2017)

4. Name of the Student: Ms. Sana Mehtab

Title of M.Phil thesis: Fluorescence microscopy based stress assessment of liver cells transfected with mutant constructs of hepatitis B virus.

Status: Degree awarded (year 2018)

5. Name of the Student: Mr. Nafis Raj

Title of M.Phil thesis: Comparative analysis of structural and functional variations arising in the polymerase of antiviral resistant hepatitis B virus: *in silico* approach..

Status: Degree awarded (year 2018)

14. Research Guidance (PhD): Ten

As a supervisor

1. Name of the Student: Dinesh Mani Tripathi

Title of PhD thesis: Rho Kinase signaling in animal model of portal hypertension: Role of hepatic stellate and endothelial cells.

Co-Supervisor: Dr. Shiv K Sarin, Director and Professor, Institute of Liver and Biliary Sciences (ILBS), New Delhi and Dr. Puja Puja Sakhuja, Professor and Head, Dept. of Pathology, G. B. Pant Hospital, New Delhi.

Status: Awarded (February 2015)

2. Name of the Student: Sabihur Rahman Farooqui

Title of PhD thesis: Molecular mechanisms of life cycle in antiviral resistant mutants of hepatitis B virus.

Status: Awarded (June, 2015)

3. Name of the Student: Manish Chandra Choudhary

Title of PhD thesis: Development of molecular markers for HCV-mediated progressive liver disease.

Co-Supervisor: Dr. Shiv K Sarin, Director and Professor, Institute of Liver and Biliary Sciences (ILBS), New Delhi.

Status: Awarded (May, 2015)

4. Name of the Student: Masarrat Afroz

Title of PhD thesis: *In vitro* study of Hepatitis B Virus replication with the help of lamivudine associated mutant plasmid constructs harboring Basal Core Promoter/Precore (BCP/PC) mutations.

Status: Awarded (August, 2016)

5. Name of the Student: Zaheenul Islam Siddiqui

Title of PhD thesis: Transactivity of Hepatitis B Virus x-protein influencing the regulation of expression of proteins involved in signaling pathways.

Status: Awarded (July, 2016)

6. Name of the Student: Syed Ali Azam

Title of PhD thesis: Comparative analysis of Hepatitis B Virus gene silencing by siRNA in wild type and mutant infections: an *in vitro* study.

Status: Awarded (September, 2016)

7. Name of the Student: Ms. Mahboubeh Mehmankhah

Title of PhD thesis: Study on interactions of Hepatitis B virus with key cellular factors of signaling pathways.

Co-Supervisor: Dr. Romana Ishrat, Asstt. Prof., CIRBSc., Jamia Millia Islamia, and, Dr. Zarrin Menuchehr, Professor, National Institute of Genetic Engineering and Biotechnology (NIGEB), Tehran, Iran.

Status: Awarded (September, 2020)

8. Name of the Student: Mr. Sajad Ahmad Bhat

Title of PhD thesis: Anti-viral efficacy of Glycyrrhizin, Chrycin on the life cycle of Hepatitis B virus.

Status: Continuing

9. Name of the Student: Ms. Ayesha Anwer

Title of PhD thesis: Viral promoter mediated expression of siRNA and inhibition of polymerase gene of Hepatitis B virus.

Status: Continuing

10. Name of the Student: Ms. Saniya Khan

Title of PhD thesis: Functional implications of amino acid substitutions in Hepatitis B virus small surface protein.

Status: Continuing

As a co-supervisor- Two

1. Name of the Student: Sheetal Nath Rooge

Title of PhD thesis: Histological and Molecular Study of Epithelial mesenchymal transition markers in chronic liver disease.

Supervisor: Dr. Puja Sakhuja, Professor and Head, Dept. of Pathology, G. B. Pant Hospital, New Delhi.

Status: Awarded

2. Name of the Student: Fatima Amir

Title of PhD thesis: Molecular characterization of envelope protein variants of Hepatitis B Virus.

Supervisor: Prof. Luqman Ahmad Khan, Dept. of Biosciences, Jamia Millia Islamia

Status: Awarded (June 2021)

15. DST Women Scientist-A (WOS-A DST) completed under the mentorship: One

1. **Ms. Masarrat Afroz**

Title: Influence of basal core promoter/precore (BCP/PC) mutations on the life cycle of drug resistant hepatitis B virus.

16. National Post Doctoral Fellow (NPDF) of SERB, DST continuing under the mentorship: Two

1. **Dr. Dablu Lal Gupta**

Title: To understand the cause of defective monocyte functions in post traumatic sepsis patients.

2. **Dr. Syed Kazim Hasan**

Title: Efficacy of Hepatitis B Virus infection and therapeutic measures by natural Products: A study with replication competent viral genome vs. infectious virion in animal model.

17. Courses/Conferences organized:

S.No.	Details
1.	Coordinated: 3 rd 3-week Refresher Course (May 09 – 30, 2013) in Basic Sciences (Interdisciplinary) organized by UGC- Academic Staff College, Jamia Millia Islamia, New Delhi.
2.	Organized: Secretary - Three days 'National Conference on Recent Trends in Molecular Virology -2014'- November 17-19, 2014, Jamia Millia Islamia, New Delhi.

18. Publications - Research Papers:

Total citations: 1627

h index: 20

i10 index: 23

2021

Siddiqui ZI, Azam SA, Khan WH, Afroz M, Farooqui SR, Amir F, Azmi MI, Anwer A, Khan S, Mehmankhah M, Parveen S, **Kazim SN**. An *in vitro* Study on the Role of Hepatitis B Virus X Protein C-Terminal Truncation in Liver Disease Development. *Front Genet.* 2021 Mar 12;12:633341. doi: 10.3389/fgene.2021.633341. PMID: 33777103

Mohammad K. Parvez, **Syed N. Kazim**. The Extrahepatic Manifestations of Hepatitis E Virus: A Peek behind the Liver. *Journal of Gastroenterology and Hepatology Research* 2021 February 21; 10(1): 3407-3410.

Waseem R, Shamsi A, Mohammad T, Alhumaydhi FA, **Kazim SN**, Hassan MI, Ahmad F, Islam A. Multispectroscopic and Molecular Docking Insight into Elucidating the Interaction of Irisin with Rivastigmine Tartrate: A Combinational Therapy Approach to Fight Alzheimer's Disease. *ACS Omega.* 2021 Mar 8;6(11):7910-7921. doi: 10.1021/acsomega.1c00517. PMID: 33778302; PMCID: PMC7992156.

Gupta DL, Sharma A, Soni KD, **Kazim SN**, Bhoi S, Rao DN. Changes in the behaviour of monocyte subsets in acute post-traumatic sepsis patients. *Mol Immunol.* 2021 Aug;136:65-72. doi: 10.1016/j.molimm.2021.04.005. Epub 2021 Jun 1. PMID: 34087625.

2020

Shabnam Ansari, Mohammad Maaz, Iftexhar Ahmad, Syed Kazim Hasan, Sajad Ahmad Bhat, **Syed Kazim Naqui** and Mohammad Husain. Quality control, HPTLC analysis, antioxidant and antimicrobial activity of hydroalcoholic extract of roots of qust (*Saussurea lappa*, C.B Clarke). *Drug Metabolism and Personalized Therapy* 2020. <https://doi.org/10.1515/dmpt-2020-0159>. ISSN: 2363-8915.

Islam A, Abdullah M, Tazeen A, Naqvi IH, **Kazim SN**, Ahmed A, Alamery SF, Malik A, Parveen S. Circulation of dengue virus serotypes in hyperendemic region of New Delhi, India during 2011-2017. *J Infect Public Health.* 2020 Dec;13(12):1912-1919. doi: 10.1016/j.jiph.2020.10.009. Epub 2020 Nov 2. PMID: 33148496.

2019

Amir F, Siddiqui ZI, Farooqui SR, Anwer A, Khan S, Azmi MI, Mehmankhah M, Dohare R, Khan LA, **Kazim SN**. Impact of length of replication competent genome of hepatitis B virus over the differential antigenic secretion. *J Cell Biochem.* 2019 Oct;120(10):17858-17871. doi: 10.1002/jcb.29054. Epub 2019 Jul 16. PMID: 31310366 (IF- 3.4).

The research work was selected for and appeared as inner cover page full length image in this issue of Journal of Cellular Biochemistry.

Mahboubeh Mehmankhah, Ruchika Bhat, Mohammad Sabery Anvar, Shahnawaz AliAftab Alam, Anam Farooqui, Fatima Amir, Ayesha Anwer, Saniya Khan, Iqbal Azmi, Rafat Ali, Romana Ishrat, Md. Imtaiyaz Hassan, Zarrin Minuchehr, and **Syed Naqui Kazim**. Structure-Guided Approach to Identify Potential Inhibitors of Large Envelope Protein to Prevent Hepatitis B Virus Infection. *Oxidative Medicine and Cellular Longevity*. <http://doi.org/10.1155/2019/1297484> Article ID 1297484 (IF- 4.8)

Singh N, **Kazim SN**, Sultana R, Tiwari D, Borkotoky R, Kakati S, Nath Das N, Kumar Saikia A, Bose S. Oxidative stress and deregulations in base excision repair pathway as contributors to gallbladder anomalies and carcinoma - a study involving North-East Indian population. *Free Radic Res*. 2019 May;53(5):473-485. doi: 10.1080/10715762.2019.1606423. Epub 2019 May 23. PMID: 31117842 (IF- 3.03)

Singh AK, Weber C, Varshney A, Gupta S, **Kazim SN**, Sanal MG, Rethwilm A, Sarin SK.. Characterization of liver specific promoters in a foamy viral vector pMD09. *Acta Virol*. 2019;63(2):162-168. doi: 10.4149/av_2019_207. PMID: 31230445 (IF- 1.2)

Dahiya R, Mohammad T, Roy S, Anwar S, Gupta P, Haque A, Khan P, **Kazim SN**, Islam A, Ahmad F, Hassan MI. Investigation of inhibitory potential of quercetin to the pyruvate dehydrogenase kinase 3: Towards implications in anticancer therapy. *Int J Biol Macromol*. 2019 Sep 1;136:1076-1085. doi: 10.1016/j.ijbiomac.2019.06.158. Epub 2019 Jun 22. PMID: 31233792 (IF- 4.7)

2018

Siddiqui ZI, Farooqui SR, Azam SA, Afroz M, Wajid S, Parveen S, **Kazim SN**. A comparative study of hepatitis B virus X protein mutants K130M, V131I and KV130/131MI to investigate their roles in fibrosis, cirrhosis and hepatocellular carcinoma. *J Viral Hepat*. 2017; 12:1121-1131 (IF- 4.8).

The research work was selected for and appeared as Cover page full length image in this issue of Journal of Viral Hepatitis (IF- 4.8).

2017

Tazeen A, Afreen N, Abdullah M, Deeba F, Haider SH, **Kazim SN**, Ali S, Naqvi H, Broor S, Ahmed A, Parveen S. Occurrence of co-infection with dengue viruses during 2014 in New Delhi, India. *Epidemiology and Infection* 2017; 145: 67-77 (IF- 2.6).

2016:

Islam A, Abdullah M, Tazeen A, Afreen N, Deeba F, Naqvi IH, **Kazim SN**, Broor S, Ahmed A, Parveen S. Detection of all the four serotypes of Dengue virus in New Delhi, India during post monsoon season of 2015. *Indian J Health Sciences and Care*. 2016; 3(1): 24-29 (IF-).

Afreen N, Naqvi IH, Broor S, Ahmed A, **Kazim SN**, Dohare R, Kumar M, Parveen S. Evolutionary Analysis of Dengue Serotype 2 Viruses Using Phylogenetic and Bayesian Methods from New Delhi, India. *PLoS Negl Trop Dis*. 2016 Mar 15;10(3):e0004511 (IF- 3.9).

Deeba F, Islam A, **Kazim SN**, Naqvi IH, Broor S, Ahmed A, Parveen S. Chikungunya virus: recent advances in epidemiology, host pathogen interaction and vaccine strategies. *Pathog Dis*. 2016 Apr;74(3). pii: ftv119. doi: 10.1093/femspd/ftv119. Epub 2015 Dec 10 (IF- 2.4).

Abdullah M, Ali S, Tazeen A, Naqvi IH, Verma HN, Ahmed A, **Kazim SN**, Parveen S. Zika viral infection and its future prospects. *Indian J Health Sciences and Care*. 2016; 3(2): 78-84 (IF-).

2015:

Choudhary MC, Gupta E, Pandey P, Natarajan V, Sharma S, Vashishtha C, Sharma MK, **Kazim SN**, Sarin SK. Identification and full-length molecular characterization of rare hepatitis C virus genotype 5a from India. *Arch Virol*. 2015; 160 (1): 329-33 (IF- 2.6).

2014:

Afreen N, Deeba F, Khan WH, Haider SH, **Kazim SN**, Ishrat R, Naqvi IH, Shareef MY, Broor S, Ahmed A, Parveen S. Molecular characterization of Dengue and Chikungunya virus strains circulating in New Delhi, India. *Microbiol Immunol*. 2014; 58 (12): 688-96 (IF- 1.7).

Choudhary MC, Natarajan V, Pandey P, Gupta E, Sharma S, Tripathi R, Kumar MS, **Kazim SN**, Sarin SK. Identification of Indian sub-continent as hotspot for HCV genotype 3a origin by Bayesian evolutionary reconstruction. *Infection, Genetics and Evolution*. 2014; 28:87-94 (IF- 3.3).

Kumar A, Kesari VP, Alok AK, **Kazim SN**, Khan PK. Assessment of Arsenic-Induced DNA Damage in Goldfish by a Polymerase Chain Reaction-Based Technique Using Random Amplified Polymorphic DNA Markers. *Arch Environ Contam Toxicol*. 2014; 67:630-8 (IF- 2.1).

2013:

Bose S, Tripathi DM, Sukriti, Sakhuja P, **Kazim SN**, Sarin SK. Genetic polymorphisms of CYP2E1 and DNA repair genes HOGG1 and XRCC1: Association with hepatitis B related advanced liver disease and cancer. *Gene* 2013; 519(2): 231-7 (IF- 2.5).

2011:

Bose S, Sakhuja P, Bezawada L, Agarwal AK, **Kazim SN**, Khan LA, Sarin SK, Ramakrishna G. Hepatocellular carcinoma with persistent hepatitis B virus infection shows unusual down regulation of Ras expression and differential response to Ras mediated signaling. *J Gastroenterol Hepatol*. 2011; 26:135-44 (IF- 3.6).

2009:

Kumar GT, **Kazim SN**, Kumar M, Hissar S, Chauhan R, Basir SF, Sarin SK. Hepatitis B virus genotypes and hepatitis B surface antigen mutations in family contacts of hepatitis B virus infected patients with occult hepatitis B virus infection. *J Gastroenterol Hepatol*. 2009; 24: 588-98 (IF- 3.6).

2008:

Chauhan R, **Kazim SN**, Kumar M, Bhattacharjee J, Krishnamoorthy N, Sarin SK. Identification and characterization of genotype A and D recombinant hepatitis B virus from Indian chronic HBV isolates. *World J Gastroenterol*. 2008; 14: 6228-36 (IF- 3.8).

2006:

Kazim SN, Chauhan R, Sarin SK. Association of core promoter mutations with Viral Breakthrough in Chronic Hepatitis B Patients on Long-Term Lamivudine Therapy. *J Gastroenterol Hepatol*. 2006;21: 1525-32 (IF- 3.6).

Chauhan R, **Kazim SN**, Bhattacharjee J, Shakuja P, Sarin SK. Basal Core Promoter, Precore region mutations of HBV and their association with e antigen, genotype, and severity of liver disease in patients with chronic hepatitis B in India. *J Med Virol* 2006;78: 1047-1054 (IF- 2.8).

Kazim SN, Sarin SK, Sharma BC, Khan LA, Hasnain SE. Characterization of naturally occurring and Lamivudine-induced surface gene mutants of hepatitis B virus in patients with chronic hepatitis B in India. *Intervirology*. 2006;49: 152-60 (IF- 2.3).

2005:

Sarin SK, Kumar M, Kumar R, **Kazim SN**, Guptan RC, Sakhujia P, Sharma BC. Higher efficacy of sequential therapy with interferon-alpha and lamivudine combination compared to lamivudine monotherapy in HBeAg positive chronic hepatitis B patients. *Am J Gastroenterol*. 2005;100: 2463-71 (IF- 10.8).

Thakur V, **Kazim SN**, Guptan RC, Hasnain SE, Bartholomeusz A, Malhotra V, Sarin SK. Transmission of G145R mutant of HBV to an unrelated contact. *J Med Virol*. 2005;76: 40-6 (IF- 2.8).

Thakur V, Sarin SK, Rehman S, Guptan RC, **Kazim SN**, Kumar S. Role of HBV genotype in predicting response to lamivudine therapy in patients with chronic hepatitis B. *Indian J Gastroenterol*. 2005;24 :12-5 (IF- 0.7).

2004:

Goyal A, **Kazim SN**, Sakhujia P, Malhotra V, Arora N, Sarin SK. Association of TNF-beta polymorphism with disease severity among patients infected with hepatitis C virus. *J Med Virol*. 2004 ;72: 60-5. Erratum in: *J Med Virol*. 2004;72 :509 (IF- 2.8).

2003:

Thakur V, **Kazim SN**, Guptan RC, Malhotra V, Sarin SK. Molecular epidemiology and transmission of hepatitis B virus in close family contacts of HBV-related chronic liver disease patients. *J Med Virol*. 2003;70: 520-8 (IF- 2.8).

2002:

Wakil SM, **Kazim SN**, Khan LA, Raisuddin S, Parvez MK, Guptan RC, Thakur V, Hasnain SE, Sarin SK. Prevalence and profile of mutations associated with lamivudine therapy in Indian patients with chronic hepatitis B in the surface and polymerase genes of hepatitis B virus. *J Med Virol*. 2002;68 :311-8 (IF- 2.8).

Guptan RC, Thakur V, **Kazim SN**, Sarin SK. Efficacy of granulocyte-macrophage colony-stimulating factor or lamivudine combination with recombinant interferon in non-responders to interferon in hepatitis B virus-related chronic liver disease patients. *J Gastroenterol Hepatol*. 2002;17: 765-71 (IF- 3.6).

Kazim SN, Wakil SM, Khan LA, Hasnain SE, Sarin SK. Vertical transmission of hepatitis B virus despite maternal lamivudine therapy. *Lancet* 2002;359: 1488-9 (IF- 53.2).

Thakur V, Guptan RC, **Kazim SN**, Malhotra V, Sarin SK. Profile, spectrum and significance of HBV genotypes in chronic liver disease patients in the Indian subcontinent. *J Gastroenterol Hepatol*. 2002;17: 165-70 (IF- 3.6).

2001:

Parvez MK, Thakur V, **Kazim SN**, Guptan RC, Hasnain SE, Sarin SK. Base-pair alterations in the epsilon-lower stem due to a novel double substitution in the precore gene of HBV-e negative variant were recovered by secondary mutations. *Virus Genes*. 2001;23: 315-20 (IF- 1.6).

2000:

Kapoor D, Guptan RC, Wakil SM, **Kazim SN**, Kaul R, Agarwal SR, Raisuddin S, Hasnain SE, Sarin SK. Beneficial effects of lamivudine in hepatitis B virus-related decompensated cirrhosis. *J Hepatol*. 2000;33: 308-12 (**IF- 14.9**).

Book chapters:

1. Sarin SK, **Kazim SN**, Thakur V. HBV genotype: An overview. Round table conference series Dec 2002 (11): 117-133.
2. Das BC, Sarin SK, **Kazim SN**, Bharti AC. Chapter's title: Infections- The hepatitis viruses and cancer (2006) p. 116-32. Book: Cancer awareness, prevention and control: Strategies for South Asia- A UICC Hand book. Union Internationale Contre le Cancer (UICC Publications), Geneva, Switzerland.
3. Arshi Islam, Nazish Parveen, Abu Hamza, Nazim Khan, **Syed Naqui Kazim**, Anwer Ahmed and Shama Parveen. Drug repurposing candidates and therapeutic approaches towards the treatment of COVID-19; The COVID-19 pandemic: Epidemiology, Molecular Biology and Therapy. 2021; Chapter 10, pages 197-209; Editor: Dr. Shama Parveen; (ISBN online: 978-9881-14 -8187-1; ISBN print 978-9881-14 -8185-7), Bentham Books imprint, Bentham Science Publishers Pte Ltd., Singapore.

Courses Taught at Postgraduate and Undergraduate Levels: Molecular Biology, Genetics, Immunology, Microbiology, Virology, Recombinant DNA Technology, Experimental Techniques.

Editorial assignment:

Guest editor- Gut Pathogens, Springer Nature.

Reviewer of Journals:

Virology Journal, Journal of Gastroenterology and Hepatology, Journal of Hepatology, Journal of Toxicology, Scientific Research and Essays, BMC Infectious Diseases, BMC Research Notes, Experimental and Therapeutic Medicine, Journal of Herbal Medicine, Scientific Reports, Journal of Medical Virology.

Research Interest: Hepatitis B virus (HBV) is a member of the Hepadnavirus family. HBV infection is a major cause of acute and chronic hepatitis, cirrhosis, and hepatocellular carcinoma (HCC). Two billion of the six billion people alive today show evidence of past or current infection with this virus and 350–400 million people are chronic carriers of HBV. The approved treatment options for CHB are mainly limited to interferon alpha and few nucleoside/nucleotide analogue(s). The later is reasonably effective in reducing the viral load but the prolonged usage in many cases generally becomes a potential threat in terms of emergence of antiviral resistant mutants. We had been working on molecular analysis of several types of hepatitis B virus mutations including the antiviral resistant mutants and on HBV genotypes, eventually had been able to unravel many novel aspects of viral mutations and their relevance in management of the liver disease. Moreover, our group has also contributed in the area of selection of antiviral therapy based on varying molecular biological, biochemical and histological profiles to treat HBV related chronic liver disease patients. Now, we are keenly interested in characterizing the novel and clinically significant viral mutations and in

understanding the replication mechanisms of antiviral resistant constructs in *in vitro* cell culture based systems. Our current research interest also includes the issues related to understanding the underlying molecular mechanisms in the development of liver cancer with a special emphasis on cross talks between the viral proteins and the host proteins of multiple signaling cascades. Additionally, our group is also involved in improving the siRNA based approaches in order to explore for the newer and better therapeutic regimens to treat chronic hepatitis B especially among the patients who generally developed resistance against the prolonged usage of nucleoside and nucleotide analogues.

(Syed Naqui Kazim)