

## CURRICULUM VITAE (2022)



*Google Scholar: <https://scholar.google.com/citations?user=MKU5-L0AAAAJ&hl=en>*

### Personal Information

**Name:** Seyed Mohammad Jazayeri, MD PhD. Virologist, Professor.

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I am a confident researcher with excellent communication and organization skills and a self-motivated player who enjoys responsibility. I am proficient with several aspects of molecular biology, in particular, molecular and clinical virology.

### Positions:

- Professor for Clinical Virology, School of Public Health, Department of Virology, Tehran University of Medical Sciences (TUMS). Since 2004.
- President of Iranian Network for Research in Viral Diseases. Since 2019.
- Director of Research Center for Clinical Virology belonged to TUMS. Since 2016
- Iranian liaison person for European Society for Clinical Microbiology and Infectious Disease (ESCMID). Since 2016

- Dean of Desk for International Cooperation between TUMS and Italy (DICTI). Since 2020
- Member of National Institute for Medical Research Development (NIMAD) Since 2015
- Representative of Iranian Ministry Of health (MOH) at World health Organization (WHO) Study on COVID-19 survey in Health care Workers. Since 2022.

### • **Education:**

2003-2004	West of Scotland Specialist Virology Centre (Scientist)
1998-2003	University of Glasgow, Institute of Virology (PhD degree)
1983-1991	Shahid-Beheshti University of Medical Science (MD degree)
1978-1982	Ferdousi Secondary School (secondary school diploma)

### **Experience:**

#### **Various aspects of molecular biology, particularly its application in virology:**

- Manual and automated DNA and RNA Extraction
- PCR (Multiplex real time and standard) & RT PCR
- Direct Sequencing (for more than 5 years)
- Cloning (more than 300 Clones have been created during my research work)
- FACS (Flow Cytometry), Becton Dickinson.
- Confocal Microscopy, Zeiss LSM 510 software
- Beckman Culter Automated DNA Sequencer
- Different soft wares for molecular biological studies (Bioedit, Seq Navigator, TriCone, MEGA, Chromas, EndNote, etc
- Quality control for molecular diagnostic laboratory.
- Chairing 12 seminars and 2 international workshops during 2005-2010- Scientific manager of 7<sup>th</sup> ISACL congress (2014)- International coordinator of Tehran Hepatitis

Congress (THC3 to THC6) during 2010-2015 and Congress on innovative technology in lab diagnostics (2016 and coming congress on October 2017).

### **Research Background:**

- 1- 1998-early 2000: my project involved applying FTO.9.1 (Rat hepatoma cell line with a construction contained human Annexin V gene) using category III facility for study of biology of the HBV variants.
- 2- 1999-2001: I did some works on HBV-positive sera obtained from HBV-infected patients from 14 different countries for HB core gene variation. All sequences submitted to the Genbank.
- 3- 2000-2003: During the PhD course, I investigated the intracellular distribution of HBcAg correlation with the sequence variation in different phases of chronic infection. Using PCR-based site-direct mutagenesis methods, I have found some exciting results on the effect of core protein mutations on its cellular localization.
- 4- 2003: Receiving some extracted DNA materials from different population of Pacific islands, HBV genome sequenced and analysed for the study of HBV core gene variability and the pattern of human immigration through South-East Asia.
- 5- 2003-2004: As a part time scientist, I was involved in direct sequencing of DNA and phylogenetic analysis using different soft wares. As part team work, I had been involved in liaising with other colleagues in the UK regarding hepatitis A, influenza and enterovirus sequence analysis.
- 6- 2005-2015: As an associate professor, I have been involved in more than 24 national research projects especially on hepatitis B virus.
- 7- 2015- 2019: I am engaged in the application of multiples and highthroughput diagnostic systems for microbial diseases diagnostics. During this period, as the chairman of “National Network for Molecular Diagnosis”, I have been organizing 38 meetings and congresses entitled “Application of Real Time PCR for Infectious Diseases Diagnostics” .

8- 2020- Present: As the director of research center for clinical virology and also, the president of Iranian Network for Research in Viral Diseases, I have been engaged in multiple national research projects on Covid-19 epidemiological and clinical aspects. These projects are still on going.

### **Courses:**

- Virology workshops on different subjects on molecular biology of RNA and DNA viruses held in Glasgow University as annual meetings (1999 to 2003).
- Performing research and development projects on different RNA and DNA viruses in clinical virology for two year from June 2003 to June 2004, Gartneval Hospital, Glasgow , UK.
- Performing a training course on quality control issues important in clinical virology for 3 weeks, 2007, Glasgow, UK.
- Completing a training course on optimization of Real Time PCR, 2007, Glasgow, UK.
- A training course on different multiplex systems for viral clinical syndromes using real time PCR, Laboratories Reunis, 2009, Luxembourg.
- A training course on clinical virology reporting, Sheffield Teaching Hospitals NHS, Northern General Hospital, Sheffield, UK, 2013.
- A training course on the application of Next Generation Sequencing for clinical microbiology, as an ESCMID observership grant, Rome, 2018.

### **International Records:**

- 158 hepatitis B virus core gene sequences cited in GenBank (the highest number of submitted HBcAg to international database).
- Hepatitis B virus genotyping based on Core gene sequencing (as an alternative approach to either surface and/or complete genome sequencing).

### **• Publications:**

### **Books:**

1. **SM Jazayeri**, WF Carman, P Karayannis, HC Thomas, AJ Zuckerman and TJ Harrison. Hepatitis B Surface Antigen (HBsAg) Variation. In Viral Hepatitis, chapter 14. 2005, Churchill Livingston- London.
2. Daram M and **Jazayeri SM**. Hepatitis B vaccine; advances and promises. In Vaccine in viral infections. Chapter 2. 2010. Shahid Beheshti University Medical Sciences- Tehran. (Correspondence)
3. Jazayeri SM, Alavian SM, Dindoost P, Thomas HC, Karayiannis P. Molecular variants of hepatitis B surface antigen (HBsAg). In Viral Hepatitis, Chapter 8, 2013, Wiley Publishing-London. (Correspondence)
4. Poortahmesebi V, Alavian SM, Jazayeri SM. Occult Hepatitis B Infection. Chapter 10. Science Press. China, 2015. (Correspondence).

## **Papers**

(See the table below)

No	Title	Type	Journal	Year	Dr Jazayeri position
1	Distribution of in vitro expressed HBV core	Original	Journal of Infectious disease	2004	Corresponding
2	Hepatitis Core gene localises to specific Pacific	Original	J of Hepatology	2004	First Author
3	HBV core sequence: definition of genotype-	Original	Journal of Viral Hepatitis	2004	First Author
4	Virus escape, CTL or B cell epitopes?	Review	Hepatitis Monthly	2005	First Author
5	Differential reactivity of mouse monoclonal anti-	Original	World J Gastroenterology	2006	4th Co.Author
6	Propagation of HBV in a rat hepatoma cell line	Original	Hepatitis Monthly	2007	First Author
7	Identification of Pre S region mutants in (HCC)	Original	Journal of Trop Inf Dis	2007	Corresponding
8	Phylogenetic analysis of HBV based on Pre-S	Original	Hepatitis Monthly	2007	Corresponding
9	Sequencing of Surface gene and protein in	Original	Govaresh	2007	Corresponding
10	Hepatitis B virus PreS variant and HCC	Review	Hepatitis Monthly	2008	Corresponding
11	Genotypes of HBV isolates from Iranian chronic carriers of	Review	Hepatitis Monthly	2008	3th.Co Authors
12	A new core promoter mutation and premature	Original	Journal of Viral Hepatitis	2009	5th.Co Authors
13	Characterization of serologic markers of babies	Original	J of Gorgan Uni of Medical Sciences	2009	4th.Co Authors
14	Set-up of analytical methods for evaluation of	Original	J of Tehran Uni of Medical Sciences	2009	2th.Co Authors
15	Genotype D Evolution in The Middle East	Letter To E.	Hepatitis Monthly	2009	First Author
16	Hepatitis B Virus Origin and Evolution.	Review	Journal of Viral Hepatitis	2009	Corresponding
17	Hepatitis B Virus Surface Antigen Variants	Original	Iranian J of Medical Basic Science	2010	Corresponding
18	Validation of an in vitro method for Hepatitis B	Commentary	Pan Minerva Medica	2010	3th.Co Authors
19	A study of genotype, mutants, and	Commentary	Hepatitis Monthly	2011	First Author
20	HB genotypes distribution in South Asia -	Letter To E.	Infection, Genetic and Evolution	2011	First Author
21	Other views of occult hepatitis B in Hepatitis C	Letter To E.	European J Internal Medicine	2011	First Author
22	Probing rate of YMDD motif mutant in	Letter To E.	Asian J of Transfusion Science	2011	First Author
23	Emergence of hepatitis B virus S gene mutants in	Letter To E.	Hepatology	2011	First Author
24	HBeAg negativity is not equal to the presence of	Letter To E.	Saudi Med Journal	2011	First Author
25	Identification of Drug Resistant Mutants of HBV	Original	Iranian J Virology	2011	Corresponding
26	Hepatitis B Virus Variants in HBV Mono-	Letter To E.	Current HIV Research	2012	First Author
27	Identification of Hepatitis B virus surface antigen	Original	Iranian J of Public Health	2012	Corresponding
28	Correlation of Hepatitis B Surface Antigen	Original	Minerva Gastro Dietologica	2012	Corresponding
29	Risk Factors for Early-Onset and Late-Onset	Letter To E.	American J Gastroenterology	2012	First Author
30	HBIG in liver transplantation, an up date	Review	Hepatitis Monthly	2012	2nd Co Authors

No	Title	Type	Journal	Year	Dr Jazayeri position
31	Hepatitis B vaccine: Prophylactic, therapeutic	Review	Minerva Gastr Dietologica	2012	Corresponding
32	HBsAg variants; Diagnostic-escape and	Review	J Clinical virology	2012	Corresponding
33	Prevalence of HBV Genotypes in Egypt among	Letter To E.	Molecular Biology Reports	2012	Corresponding
34	The Prevalence of Hepatitis B Virus Surface	Original	Acta Medica Iranica	2012	Corresponding
35	High prevalence of occult hepatitis B virus	Original	J of Hepatology	2012	Corresponding
36	Drug-related mutations in hepatitis B virus	Original	Hepatitis Monthly	2013	Corresponding
37	HBsAg variants; common escape issues	Review	Jundishapour j Microbiology	2013	2nd Co Authors
38	Mutational Analysis of HBs Ag-positive mothers	Original	Asthma, Allergy and Immuno	2013	Corresponding
39	HBV/HDV co-infection in Iranian carriers with	Original	Hepatitis Monthly	2013	Corresponding
40	Obscure clinical implication of occult hepatitis B virus	Letter To E.	J of Hepatology	2012	Corresponding
41	Occult Hepatitis B In Clinical Settings	Review	Hepatitis Monthly	2013	Corresponding
42	HBsAg mutants clustered mainly outside of “a”	Original	Jundishapour j Microbiology	2013	Corresponding
43	Mutation “Hot Spot” in Immune Epitope on	Original	Asthma, Allergy and Immuno	2013	Corresponding
44	Hepatitis B virus surface protein mutations cl	Original	Journal of Viral Hepatitis	2013	Corresponding
45	Hepatitis B virus surface antigen (HBsAg)	Original	AIM	2013	Corresponding
46	Host and Viral Factors Influencing Liver Fibrosis	Review	Gastroenterology & Hepatol Res	2014	Corresponding
47	Prevalence of Common YMDD Motif Mutations	Letter	Asian Pacific J Can Prevention	2014	Corresponding
48	Prospective Study of BK Virus Infection and	Original	Iranian Journal of Kidney Diseases	2014	3rd Co Author
49	The Pigeonhole of Occult Hepatitis B	Review	Acta Medica Iranica	2014	Corresponding
50	Prevalence and molecular analysis of occult	Original	Oman Med Journal	2014	Corresponding
51	Hepatic steatosis: prevalence and host/viral risk	Original	Asian Pacific J of Cancer Prevention	2014	Corresponding
52	Molecular epidemiological study of hepatitis B	Original	Gastroenterology & Hepatol Res	2014	Corresponding
53	Surface Protein Mutations in Chronic Hepatitis B	Original	Iranian J Basic Med Sciences	2014	Corresponding
54	Characterization of Overt and Occult Hepatitis B	Original	J of Medical Virology	2014	Corresponding
55	Distribution of Hepatitis B virus surface antigen	Original	Iranian J of Virology	2014	Corresponding
56	Controversies regarding the prophylactic options	Review	Gastroenterology & Hepatol Res	2014	Corresponding
57	Lamivudine resistance and precore variants in	Original	Jundishapour j Microbiology	2015	Corresponding
58	Prevalence of blood-borne viruses among Iranian	Original	Int J Occupational Med Envir Health	2015	Corresponding
59	Prevalence of National Responsiveness to HBV	Metanalysis	Hepatitis Monthly	2015	Corresponding
60	HBV vaccination status and response to hepatitis	Original	Hepatitis Monthly	2015	Corresponding

No	Title	Type	Journal	Year	Dr Jazayeri position
61	Appropriate Genotyping of Hepatitis B Virus in	Letter	Jundishapour j Microbiology	2015	First Author
62	Evolution of hepatitis B virus surface gene and	Short Comm.	Iranian J Microbiology	2015	Corresponding
63	Clearance of HBV DNA in immunized children	Original	Journal of Viral Hepatitis	2015	Corresponding
64	Identification of OBI in Health Care Workers	Original	GERM	2015	Corresponding
65	OBI in special group	Metanalysis	Archives of Med Lab Sciences	2016	Corresponding
66	IL-17 and IL-22 genetic polymorphisms in HBV	Original	GERM	2016	Corresponding
67	How Hepatitis C Virus Leads to Hepatocellular	Review	Hepatitis Monthly	2016	4th Author
68	Molecular analysis of OBI among Iranian Human	Original	Future Virology	2016	Corresponding
69	Mutational analysis of reverse transcriptase and	Original	Electronic Physician	2016	First Author
70	Low prevalence of blood-borne virus infection	Editorial	Journal of Dentistry	In Press	Corresponding
71	Prevalence of Cytomegalovirus in Patients with	Original	Jundishapur J of Microbiology	2016	4th Author
72	Prevalence of Herpes Simplex Virus Infection in	Original	Archives of Clinical Infectious Dis	2016	4th Author
73	HBsAg mutations related to occult hepatitis B	Original	Journal of Medical Virology	2016	Corresponding
74	Comparative Analysis and Molecular Structure of	Original	Iranian Journal of Virology	2016	6th Author
75	Asymptomatic EBV shedding in the urine of	Case Report	Infectious Disease Reports	2017	Corresponding
76	Regulatory Network Analysis of Epstein–Barr	Original	Achieves of Virology	2017	4th Author
77	Sero-Prevalence of Blood borne Tumor Viruses	Original	Hepatitis Monthly	2017	8th Author
78	Integrated Analysis of Gene Expression Profiles	Original	Hepatitis Monthly	2017	5th Author
79	Transcriptome Analysis of PBMC from Chronic	Original	Future Virology	accept	Corresponding
80	Integrated Analysis of Gene Expression Profiles	Original	Hepatitis Monthly	2017	5th Author
81	Transcriptome Analysis of PBMC from Chronic	Original	Future Virology	2017	Corresponding
82	CRF35-AD as the main circulating genotype of	Short Comm.	Intervirology	2017	4th Author
83	Evaluation of HTLV-1 HBZ and proviral load,	Original	Journal of medical virology	2017	5th Author
84	Human T-Lymphotropic Virus 1 (HTLV-1)	Original	Journal of Cellular Biochemistry	2018	5th Author
85	Molecular evolution and phylodynamics of HBV	Original	Achieves of Virology	2018	Corresponding
86	Measurement of serum HBs-Ab levels in Iranian	Original	Journal of Medical Virology	2019	Corresponding
87	Simultaneous detection of opportunistic viral	Original	Future Virology	2019	Corresponding
No	Title	Type	Journal	Year	Dr Jazayeri position
88	Molecular Mechanisms Responsible for OBI-	Review	Govaresh	2019	Corresponding
89	High Prevalence of OBI among vaccinated	Original	Liver International	2019	Corresponding



90	HPV Genotypes concordance Between Iranian	Original	Infectious Agents and Cancer	2019	Corresponding
91	An insight to HTLV-1-associated myelopathy	Metanalysis	BMC	2019	5th Author
92	Influenza species and subtypes circulation	Original	Infectious Disease Reports	2020	Corresponding
93	Co-detection of Bocavirus and bacteria in a	Case Report	Iranian J of Microbiology	2020	4th Author
94	Conformational analysis of HBV surface	Original	Future Virology	2020	Corresponding
95	An insight to HTLV-1-associated HAM/TSP	Metanalysis	Retrovirology	2020	5th Author
96	Assessment of miR-181b-5p, miR-23a-3p, CL2	Original	IJAAI	2020	4th Author
97	High risk genotype distribution HPV	Original	Infectious Agents and Cancer	2020	Corresponding
98	Phylogenetic and phylodynamic study of HTLV-	Original	Infect Genet Evolution	2020	8th Author
99	Investigation of CTNNB1 gene mutations and	Original	Infectious Agents and Cancer	2020	9th Author
100	Clinical Performance of RT-PCR and Chest	Review	Advanced Journal of Emergency Medicine	2020	Corresponding
101	Phylogenetic and phylodynamic study of Human	Original	Infection, Genetics and Evolution	2020	9th Author
102	Characterization of OBI Infection among Iranian Patients with Behcet's disease	Original	Hepatitis Monthly	2021	Corresponding
103	Two independent introductions of SARS-CoV-2 into the Iranian outbreak	Original	Transboundary and Emerging Diseases	2021	Co-author Correspondence
104	A multicenter retrospective study of clinical	Original	WILEY	2021	Corresponding
105	A Comparative Analysis of Clinical Characteristics	Original	FRONTIERS IN EMERGENCY MEDICINE	2021	corresponding
106	Detection and Quantification of Hepatitis B Virus	Cross-sectional	Hepat Mon	2021	Corresponding
107	Comprehensive high-throughput metaanalysis	Metanalysis	BMC	2021	Corresponding
108	Multipathogen Detection in Patients with	Cross-sectional	Jundishapur J Microbial	2021	6th Author
109	Prevalence of HPV genotypes between outpatients	Cross-sectional	Infectious Agents and Cancer	2022	Corresponding
110	Identifying Potential New Gene Expression-Based	Original	Journal of Gastroenterology and Hepatology	2022	Corresponding
111	VDR Gene Polymorphisms are Associated with the Increased Susceptibility to COVID-19 Among Iranian Population	Original	International Journal of Immunogenetics	2022	2 <sup>nd</sup> Author
112	Characterization of (OBI) Among Iranian Liver Transplant Recipients	Original	Journal of Clinical Laboratory Analysis	2022	Corresponding
113	SARS-CoV-2 spike evolutionary behaviors	Original	J Cellular Biochemistry	2022	5 <sup>th</sup> Author

### **International Conferences (Oral Presentations):**

- 1- 4<sup>th</sup> to 8<sup>th</sup> Iranian Conferences on Gastroenterology and Hepatic Diseases, Tehran, Iran-2004 to 2008. Oral presentations in all years.
- 2- Tehran Hepatitis Congresses (THC) held in 2009 to 2015 in Tehran. Oral presentations in all years.
- 3- 1<sup>st</sup> international congress on Biotechnology, Dubai, 2012.
- 4- 2<sup>nd</sup> congress on OBI, Guangzhu, China 2014.
- 5- 26<sup>th</sup> ESCMID Congress-Amsterdam 2016.
- 6- EASL Congress-Barcelona, 2016.

### **References:**

- Prof. **William F Carman (Former Supervisor).**

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