

Curriculum Vitae

MURAT SAYAN

mobil

office

Kocaeli / Turkey

Personal:

Born on; 03 October 1966, Kocaeli/Turkey.

Work: Chief of PCR Unit in Clinicaly Laboratory of Medical Faculty Hospital in Kocaeli University (January 2005 - present).

Education:

Degree	Department	University	Year
Medical Education	Medical Biological Science	Dokuz Eylül University, Turkey	1992
PhD	Clinical Microbiology	Dokuz Eylül University, Turkey	1997
Assoc Prof.	Clinical Microbiology	Kocaeli University, Turkey	2010
Prof. Dr.	Clinical Microbiology	Kocaeli University, Turkey	2016

Scientific affiliations:

1. Ankara Microbiology Society
2. Turkish AIDS Society
3. Turkish Clinical Microbiology and Infectious Diseases Society (KLIMIK)
4. Turkish Microbiology Society (TMC)
5. Turkish Viral Hepatitis Society (VHSD)
6. International Society for Infectious Diseases (ISID)
7. European Society for Translational Antiviral Research (ESAR)
8. EURESIST/Scientific Board
9. Turkish Liver Research Society (TKAD)
10. SHARED Initiative

Field of Interest:

HIV/AIDS, Viral hepatitis, Viral epidemiology, AI in Infectious Diseases

WoS/Scopus Indexing Articles in Last 5 Years

1. Khalid A, Gettins L, Scullion L, Liu X, Lin Wei LL, Masai AN, Guerin PJ, Allel K, Hemelaar J; Global HIV Molecular Epidemiology Collaboration. Global and regional molecular epidemiology of HIV-1 during 1990-2024: systematic review, global survey, and analysis of prevalence. *Lancet Infectious Diseases* 2026 May 19: S1473-3099(26)00142-8. doi: 10.1016/S1473-3099(26)00142-8.
2. Avci, I.E., Yilmaz, H., Sayan, M. Baynal E.A, Bayrak B.Y. Human papillomavirus (HPV) and p16^{INK4a} expression in early-onset prostate cancer. *International Urology and Nephrology* 2026 <https://doi.org/10.1007/s11255-026-05218>
3. Akdoğan Ö, Yapar D, Sayan M, Savcı Ü, Kaplan G, Baykam N, Kocagül Çelikbaş A. Molecular evaluation of concomitant HBsAg, and anti-HBs positivity in chronic hepatitis B patients. *Viral Hepatitis Journal* 2026;32(1):19-25
4. Ö.Güler, Z.Altun, S.H.Özel, M.T.Deniz, M.Sayan, S.Akhan. Challenges in the Diagnosis of Extrapulmonary Tuberculosis and Comparison of Diagnostic Methods. *Kocaeli Üniversitesi Sağlık Bilimleri Dergisi* 2026;12(1):69-75 <https://doi.org/10.30934/kusbed.1803934>
5. H. Cobanogullari, B. Koyutourk, M A. Daoud, U. Fahrioglu, M. Sayan, M.C. Ergoren. Allele frequencies of ACE I/D and CCR5- Δ32 variants in the Jordanian cohort residing in Northern Cyprus. *Human Gene* 2026;201556, <https://doi.org/10.1016/j.humgen.2026.201556>
6. D.G.Altınay, M.T.Deniz. M.Sayan. S.Akhan. Negative Viral Load Follow-Up in an Untreated HIV-2 Infected Patient: A Case Report. *Infectious Diseases and Clinical Microbiology* 2026;8(1):94-97 10.36519/idcm.2026.811
7. M.Sayan, A.Arıkan, T.Ateşoğlu. Design of a 2D Melting Curve-Based Multiplex PCR Assay for Detection of SARS-CoV-2/RSV/Influenza A-B. *Canadian Journal of Infectious Diseases and Medical Microbiology* 2025; ID6687705 <https://doi.org/10.1155/cjid/6687705>
8. Abdulsamad M, Zaied A, Omar E, Alemam H, Alhudiri I, Sayan M. Overlapping polymerase and surface gene mutations in Turkish patients with chronic hepatitis B. *J Microbiol Infect Dis.* 2025;15(4):172-182. doi:10.5455/JMID.2025.v15.i4.6
9. Akan G, Tuncel G, Bostanci A, Ozverel CS, Sayan M, Kaya Suer H, & Sanlıdag T. Simultaneous Detection of Monkeypox Virus and Varicella Zoster Virus Using a Multiplex qPCR Assay: Analytical Performance and Clinical Validation. *Experimed* 2025; 15(3):287-294 DOI: 10.26650/experimed.1778525
10. Arıkan, B.Uzun, M.Sayan. Implementation of Multi-Criteria Decision-Making for Selecting Most Effective Genome Sequencing Technology. *Diagnostics* 2025;15(6): 665. <https://doi.org/10.3390/diagnostics15060665>
11. S.E.Batmaz, S.Hülagü, M.Sayan, Y.S.Gürbüz. Association of Hepatitis B Virus Polymerase/Surface Gene Overlap Mutations Developed in Nucleos(t)id Analogue Treatments of Chronic Hepatitis B with Hepatocellular Carcinoma. *Duzce Medical Journal* 2025; 27(1):58-63. <https://doi.org/10.18678/dtfd.1526783>
12. K.Günhan, H.Seda Vatansever, T.Şanlıdağ, M.Sayan, S.Akçalı, H.Kabadayı Ensarioğlu, F.Çetin, G.Akan, G.Tuncel, M.Kalaycı. Developing RT-qPCR Kit for Detection and Quantification of HDVs Unique Genome. *Cyprus Journal of Medical Sciences* 2025;10(Suppl 1):69-73 doi: 10.4274/cjms.2025.2024-161

13. A.Arıkan, B.Uzun, M.Sayan, D.Uzun Özşahin, T.Şanlıdağ. Contribution of Multi-Criteria Decision-Making Approach in Choosing the Most Appropriate Rapid Diagnostic Tests in an Outbreak. *Cyprus Journal of Medical Sciences* 2025;10(Suppl 1):60-64 doi: 10.4274/cjms.2025.2024-117
14. Anıl Gök, Gökçe Cırdı, Ayfer Sakarya Güneş, Leman Tekin Orgun, Murat Sayan, Bülent Kara. Diagnosis of Congenital Cytomegalovirus in a 14-Month-Old Patient Presenting with Sensorineural Hearing Loss: Storing Dry Blood Samples. *Turkish Archives of Pediatrics* 2025;60:106-107 doi: 10.5152/TurkArchPediatri.2025.2498
15. M.Toygar Deniz,S.Akhan,M.Sayan.S.Balcı. Comparison of Standard and Point of Care CD4+ T Lymphocyte Measurement Methods in HIV-1 Infected Turkish Patients. *Medicina* 2024;60(12):2094
16. E.Şanlıdağ, A. Arıkan, M. Sayan. Comparative Performance Evaluation of Random-Access and Real-Time PCR Techniques in the Diagnosis of BKPyV Infections in Transplant Patients. *Indian Journal of Medical Microbiology* 2024;51:100687
17. A.M. Şahin,, M. Sayan, S. Çetin, E. Telli, M. Uğur, E. Aydın, İ. Şenel, Ü. Özek, M. A. Yetkin. The First Acute Hepatitis B Outbreak Identified in a Nursing Home for the Disabled in Turkey. *Eastern Mediterranean Health Journal* 2024;30(4):292–299.
18. E. Guler, A. Arıkan, N. Sultanoglu, K. Suer, T. Sanlidag, M. Sayan. Molecular Epidemiology of HIV-1 Subtypes and Primary Antiretroviral Resistance Profiles in Northern Cyprus: First Data Series. *AIDS Res Human Retroviruses* 2024;40(6):393-400
19. Abbas, A., Wajahat, M., Sayan, M., Noureen, S., Shoaib, R., Khan, A. A., & Arıkan, A. Seroprevalence of anti-SARS-CoV-2 total antibodies among COVID-19 patients in province of Punjab, Pakistan. *Int Journal of Health Sciences*, 2023;6(S8);6667–6676.
20. M.Sayan. Drug Resistance Against HCV in Direct-Acting Antiviral Treatments. Review. *Viral Hepatitis Journal* 2023;29(3):90-94
21. M.T.Deniz, M.Sayan, S.Akhan, E.Karaca. Evaluation of Point-of-care and Traditional ELISA Techniques for the Detection of Anti-SARS-CoV-2 IgG Antibodies in Individuals Vaccinated Against COVID-19. *Mediterr J Infect Microb Antimicrob* 2023;12:22
22. M.Sayan, A.Arıkan, E.Şanlıdağ. Molecular Epidemiology of SARS-CoV-2 Omicron Sub-Lineages Isolated from Turkish Patients Infected COVID-19. *Viruses* 2023;15(5):1066.
23. M.Sayan, A.Arıkan, M.İşbilen. In Silico Evaluation of SARS-CoV-2 K417N, L452R, and E484K Detection Assays Against Omicron Variants. *New Microbiologica* 2023; 46(2):133-140
24. K.Süer, M.Güvenir, A.Aykaç, E.Güler, M.Sayan, T.Şanlıdağ, S. Erdenliğ. Investigation of *Brucella canis* and *Brucella abortus* seropositivity by In-House rapid slide agglutination test and In-House ELISA in Northern Cyprus. *Tohoku Journal of Experimental Medicine* 2023;259(4):319-326
25. A.Arıkan, O.Doluca, S.Akhan, T.Şanlıdağ, M.Sayan. Evaluation of SARS-CoV-2 Immunochromatographic Lateral Flow and ELISA Techniques for IgG and IgM Antibodies in COVID-19 Cases, Türkiye. *Eastern Med Health Journal* 2023;29(2):91–99.
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- HIV-1 Infected Individuals in Turkey. *AIDS Research and Human Retroviruses* 2023;39(2):84-90
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 28. A.Arikan, M.Sayan. Investigation of SARS-CoV-2 Variants and Their Effect on SARS-CoV-2 Monoclonal Antibodies, Convalescent and Vaccine Plasma by a Novel Web Tool. *Diagnostics* 2022; 12(11):2869
 29. A.Arikan, T.Sanlidag, M.Sayan, B.Uzun, D.U.Ozsahin. Fuzzy-Based PROMETHEE Method for Performance Ranking of SARS-CoV-2 IgM Antibody Tests. *Diagnostics* 2022;12(11):2830.
 30. M.Sayan, A. Arikan, M. Isbilen. Circulating Dynamics of SARS-CoV-2 Variants Between April 2021 - February 2022 in Turkey. *Canadian Journal of Infectious Diseases and Medical Microbiology* 2022; 4677720.
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 32. N.Duman, G.Tuncel, A.Bisgin, ST.Bozdogan, SO.Sag, S.Gul, A.Kiraz, B.Balta, M.Erdogan, B.Uyanik, S.Canbek, P.Ata, BB.Geckinli, EA.Ates, C.Alavanda, SY.Ozdemir, O.Sezer, GO. Ozgon, H.Gurkan, K.Guler, I.Boga, N.Kaya, A.Alemdar, M.Sayan, M.Dundar, MC.Ergoren, SG.Temel. Analysis of ACE2 and TMPRSS2 coding variants as a risk factor for SARS-CoV-2 from 946 whole-exome sequencing data in the Turkish population. *Journal of Medical Virology* 2022;94:5225-5243
 33. G.Tuncel, MC.Ergoren, B.Baddal, P.Tulay, CS.Ozverel, E.Guler, HK.Suer, M.Sayan, T.Sanlidag. Detection of SARS-CoV-2 N501Y mutation among SARS-CoV-2 variants of concern circulating in Northern Cyprus. *Future Virology* 2022;17(8):523-528
 34. N.Öze, M.Sayan. Social Network Dynamics in Transmission of HIV by Sexual Contact. 5th International Conference on Gender Research. 2022;5:1.
 35. Ndikom BC, Ergoren MC, Sayan M, Mocan G, Fahrioğlu U. CCR5- Δ 32 gene variant frequency in the Nigerian and Zimbabwean populations living in North Cyprus. *African Health Sciences* 2022;22(1):361-6.
 36. M.T.Deniz, S.Akhan, M.Sayan. Evaluation of HCV Core Antigen in Diagnosis of Chronic Hepatitis C Patients under Direct-Acting Antiviral Treatment. *Viral Hepatitis Journal* 2022;28(1):25-31
 37. B.Rossetti, M.Fabbiani, D.Di Carlo, F.Incardona, A.Abecasis, P.Gomes, A.M.Geretti, C.S.Devaux, F.Garcia, R.Kaiser, S.Modica, A.Shallvari, A.Sönnnerborg, M.Zazzi, EuResist Network, INTEGRATE study group. Effectiveness of integrase strand transfer inhibitors in HIV- infected treatment-experienced individuals across Europe. *HIV Medicine* 2022;23(7):774-789
 38. A.Y.M.Howe, C.Rodrigo, E.Cunningham, M.W.Douglas, J.Dietz, J.Grebely, S.Popping, J.Al.Sfalcin, M.Parczewski, C.Sarrazin, A.de Salazar, A.Fuentes, M.Sayan, J.Quer, M.Kjellin, H.Kileng, O.Mor, J.Lennerstrand, S.Fourati, V.C.di Maio, V.Chulanov, J.M.Pawlotsky, P.R.Harrigan, F.C.Silberstein, F.Garcia, and SHARED Collaborators. Characteristics of Hepatitis C Virus Resistance From An International Cohort After A Decade of Direct-Acting Antivirals. *JHEP Reports* 2022;4(5)100462

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41. M.Sayan, F.S.Yildirim, S.Akhan, I.Karaoglan, H.Akalin. Integrase strand transfer inhibitor (INSTI) genotypic resistance analysis in treatment-naive, INSTI-free antiretroviral-experienced, and INSTI-experienced Turkish patients infected with HIV-1. *Current HIV Research* 2022;20(2):184-192
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44. M.Sayan, A.Arıkan, M.Isbilen. Comparative Evaluation of the Variant Analysis of SARS-CoV-2 Strains with Phylogenetic Analysis and Coronavirus Antiviral and Resistance Database (CoV-RDB). *J Comparative Effectiveness Res* 2022;11(3):157-167
45. D.U.Ozsahin, A.Arıkan, T.Sanlidag, M.Sayan and B.Uzun. Performance Ranking of Diagnostic SARS-CoV-2 IgG Antibody Tests by Using Multi-Criteria Decision-Making Theory. *14th Int Conference on Developments in eSystems Engineering* 2021, 202-205
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