

Publications & Posters

Scientific citation list with DOI and original journal, preprint, or conference links where publicly available.

Compiled from manuscripts, poster files, conference program details, and public source records | May 2026

This web-ready list collates peer-reviewed manuscripts, preprints, conference posters, and scientific presentations associated with Fusion Genomics, ONETest, and related targeted metagenomic sequencing work. Persistent DOI links are provided where assigned. For posters and presentations, DOI is listed as not identified unless a public DOI was available; conference or program links are included where located.

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Peer-reviewed manuscripts

Journal article

2022

Divergent SARS-CoV-2 variant emerges in white-tailed deer with deer-to-human transmission

Pickering B, Lung O, Maguire F, et al. Divergent SARS-CoV-2 variant emerges in white-tailed deer with deer-to-human transmission. *Nature Microbiology*. 2022;7:2011-2024.

DOI <https://doi.org/10.1038/s41564-022-01268-9>

Source [Nature Microbiology article page](#)

Note: Peer-reviewed version of the deer SARS-CoV-2 surveillance study. The uploaded file is the published Nature Microbiology article.

Journal article

2021

Target capture sequencing of SARS-CoV-2 genomes using the ONETest Coronaviruses Plus

Zhan SH, Alamouti SM, Daneshpajouh H, Kwok BS, Lee MH, Khattri J, Houck HJ, Rand KH. Target capture sequencing of SARS-CoV-2 genomes using the ONETest Coronaviruses Plus. *Diagnostic Microbiology and Infectious Disease*. 2021;101(3):115508.

DOI <https://doi.org/10.1016/j.diagmicrobio.2021.115508>

Source [ScienceDirect article page](#)

Note: Target-capture NGS study evaluating ONETest Coronaviruses Plus on SARS-CoV-2-positive respiratory samples.

Journal article

2020

Extraction and Detection of Avian Influenza Virus From Wetland Sediment Using Enrichment-Based Targeted Resequencing

Tindale LC, Baticados W, Duan J, Coombe M, Jassem A, Tang P, Uyaguari-Diaz M, Moore R, Himsforth C, Hsiao W, Prystajeky N. Extraction and detection of avian influenza virus from wetland sediment using enrichment-based targeted resequencing. *Frontiers in Veterinary Science*. 2020;7:301.

DOI <https://doi.org/10.3389/fvets.2020.00301>

Source [Frontiers article page](#)

Note: Study on RNA extraction and enrichment-based targeted resequencing for avian influenza virus detection from wetland sediment.

Journal article

2020

Targeted Resequencing of Wetland Sediment as a Tool for Avian Influenza Virus Surveillance

Himsforth CG, Duan J, Prystajeky N, Coombe M, Baticados W, Jassem AN, Tang P, Sanders E, Hsiao W. Targeted resequencing of wetland sediment as a tool for avian influenza virus surveillance. *Journal of Wildlife Diseases*. 2020;56(2):397-408.

DOI <https://doi.org/10.7589/2019-05-135>

Source [Journal of Wildlife Diseases / BioOne page](#)

Note: Proof-of-concept study using targeted resequencing to detect and characterize avian influenza virus in wetland sediments.

Preprints

bioRxiv preprint

2022

Highly divergent white-tailed deer SARS-CoV-2 with potential deer-to-human transmission

Pickering B, Lung O, Maguire F, et al. Highly divergent white-tailed deer SARS-CoV-2 with potential deer-to-human transmission. *bioRxiv*. Posted February 25, 2022.

DOI <https://doi.org/10.1101/2022.02.22.481551>

Source [bioRxiv preprint page](#)

Note: Preprint version supplied in the uploaded files. A peer-reviewed version was subsequently published in Nature Microbiology.

Posters and conference presentations

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Conference presentation 2025

ONETest PathoGenome: A New Class of Targeted Metagenomic Assay for Diagnosing Infection

Alamouti SM. ONETest PathoGenome: a new class of targeted metagenomic assay for diagnosing infection. Industry presentation in: *New ID Diagnostics in the Pipeline*. Presented at: IDWeek 2025; October 22, 2025; 8:00-9:00 AM ET; Room B302-B304; Atlanta, Georgia, USA. Session 190; Presentation 502; Submission ID 2167625.

DOI No DOI identified for presentation.

Source [Fusion Genomics LinkedIn announcement / IDWeek 2025 session reference](#)

Additional [Related ONETest PathoGenome preprint](#)

Note: Industry presentation by Dr. Sepideh M. Alamouti in the IDWeek 2025 symposium 'New ID Diagnostics in the Pipeline.' Session details were supplied by Fusion Genomics and cross-checked against Fusion's public LinkedIn announcement referencing IDWeek 2025 and Session 190.

Conference poster 2019

A target hybridization-based next-generation sequencing assay enhances surveillance of seasonal respiratory pathogens: a retrospective assessment (ERVINGS)

Janssens TKS, Zhan SH, Overduin P, Alamouti SM, Kwok BS, Schmitz D, Qadir MA, Meijer A. A target hybridization-based next-generation sequencing assay enhances surveillance of seasonal respiratory pathogens: a retrospective assessment (ERVINGS). Poster presented at: 7th European Congress of Virology; April 28-May 1, 2019; Rotterdam, Netherlands.

DOI No DOI identified for poster.

Source [European Society for Virology - ECV past congresses](#)

Additional [DDBJ/GenBank record referencing the unpublished work](#)

Note: Poster evaluates the OneTest URP RNA targeted enrichment assay using retrospective respiratory surveillance samples.

Conference e-poster 2023

Targeted Metagenomics Sequencing of Airport Wastewater: an Early Warning System for Pandemic Prevention

Daneshpajouh H, Nguyen HD, Ahn SH, Kwok B, Alamouti SM. Targeted metagenomics sequencing of airport wastewater: an early warning system for pandemic prevention. Poster/e-poster presented at: Toronto Wastewater Surveillance Conference; February 2-3, 2023; Innovation Centre, 315 Front Street West, Toronto, Ontario, Canada.

DOI No DOI identified for poster.

Source [Toronto Wastewater Surveillance Conference program](#)

Additional [Conference e-posters and recordings - Kubify showcase](#)

Note: Conference materials identify the event as hosted by Ontario's Wastewater Surveillance Initiative, Ontario Ministry of the Environment, Conservation and Parks, and Toronto Metropolitan University. The supplied poster describes ONETest targeted metagenomic sequencing of airport wastewater for SARS-CoV-2 variant and respiratory pathogen surveillance. No DOI was identified for this poster.

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