

### Metagenomic analysis using next-generation sequencing of ...

<https://www.nature.com/articles/s41598-019-49372-x>

Sep 09, 2019 · Metagenomic analysis using next-generation sequencing of pathogens in bronchoalveolar lavage fluid from pediatric patients with respiratory failure Suguru Takeuchi<sup>1</sup>, Jun-ichi Kawada ORCID: orcid ...

Cited by: 8 Author: Suguru Takeuchi, Jun-ichi Kawada, Kazu...  
Publish Year: 2019

### Etiology of Severe Community-Acquired Pneumonia in ...

<https://europepmc.org/article/MED/33170499>

Nov 10, 2020 · Recently, metagenomic next-generation sequencing (mNGS) has become a powerful technique in medical microbiology because of its high-throughput capacity and fast turnaround time [7–9]. Studies have examined microbial detection from cerebrospinal fluid in patients with central nervous system infections, from serum in septic patients, and from ...

Author: Xiaodong Wu, Yuanyuan Li, Ming Zha... Publish Year: 2020

### Co-Infection Pneumonia with Mycobacterium abscessus and ...

<https://europepmc.org/article/PMC/PMC7939513>

Mar 04, 2021 · Metagenomic next generation sequencing (mNGS) is a powerful tool for detecting pathogens that can be performed directly on clinical specimens.<sup>10,11</sup> It had been used for detection of *P. jiroveci*,<sup>8,10</sup> and *M. abscessus*.<sup>12</sup> In this report, we describe a previously healthy HIV-negative male coinfecting with *M. abscessus* and *P. jiroveci* detected by mNGS.

Author: Dan Xie, Ying Xian, Jingya You, Wen ... Publish Year: 2021

### Added Diagnostic Utility of Clinical Metagenomics for the ...

[https://journal.chestnet.org/article/S0012-3692\(20\)35153-9/fulltext](https://journal.chestnet.org/article/S0012-3692(20)35153-9/fulltext)

Nov 17, 2020 · After host-depletion and extraction of RNA and DNA, next-generation complementary DNA and DNA sequencing libraries were prepared and sequenced on a NextSeq500 or NextSeq550 (Illumina) to a median depth of  $>6.7 \times 10^6$  single-end 150-base pair sequencing reads per library. Explify Respiratory can detect >900 bacterial, fungal, and viral ...

Author: Marwan M. Azar, Robert Schlaberg, M... Publish Year: 2020

### Exploring the Potential of Next-Generation Sequencing in ...

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### Metagenomic next-generation sequencing for the clinical ...

<https://pubmed.ncbi.nlm.nih.gov/32621543>

Background: Metagenome next-generation sequencing (mNGS) is a valuable diagnostic tool that can be used for the identification of early pathogens of acute respiratory distress syndrome (ARDS) in severe pneumonia. Little is known about the use of this technology in clinical application and the evaluation of the prognostic value of ARDS.

Author: Peng Zhang, Peng Zhang, Yan Chen, ... Publish Year: 2020

### Metagenomic Next-Generation Sequencing of ...

<https://mbio.asm.org/content/11/6/e01969-20>

Dec 22, 2020 Metagenomic next-generation sequencing (mNGS) offers an opportunity to detect SARS-CoV-2 from nasopharyngeal (NP) swabs. This approach also provides information on the composition of the respiratory microbiome and its relationship to coinfections or the presence of other organisms that may impact SARS-CoV-2 disease progression and prognosis.

Cited by: 9 Author: Heba H. Mostafa, John A. Fissel, Brian F... Publish Year: 2020

### Unmasking viral sequences by metagenomic next-generation ...

[https://microbiomejournal.biomedcentral.com/...](https://microbiomejournal.biomedcentral.com/)

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**Name of Journal:** *World Journal of Clinical Cases*  
**Manuscript NO:** 65609  
**Manuscript Type:** CASE REPORT

**Usefulness of metagenomic next-generation sequencing in adenovirus 7-induced acute respiratory distress syndrome: A case report**

Application of mNGS in ARDS caused by adenovirus 7

Xiao-Juan Zhang, Jia-Yin Zheng, Xin Li, Ying-Jian Liang, Zhi-Dan Zhang

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### [Metagenomic next-generation sequencing for the clinical ...](#)

<https://pubmed.ncbi.nlm.nih.gov/32821543>

Background: Metagenome **next-generation sequencing** (mNGS) is a valuable diagnostic tool that can be used for the identification of early pathogens of **acute respiratory distress syndrome** (ARDS) in severe pneumonia. Little is known about the use of this technology in clinical application and the evaluation of the prognostic value of ARDS.

Author: Peng Zhang, Peng Zhang, Yan Chen, ... Publish Year: 2020

### [Unmasking viral sequences by metagenomic next-generation ...](#)

[https://microbiomejournal.biomedcentral.com/...](https://microbiomejournal.biomedcentral.com/)

Jan 24, 2021 - Current routine clinical surveillance molecular assays detect specific nucleotide sequences targeting usual culprits including Epstein-Barr virus (EBV), cytomegalovirus (CMV), BK polyomavirus (BKPyV), and **adenovirus**. **Metagenomic next-generation sequencing's** (mNGS) unbiased approach broadens viral infection diagnosis, theoretically detecting ...

### [Metagenomic Next-Generation Sequencing of ...](#)

<https://mbio.asm.org/content/11/6/e01969-20>

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Cited by: 9 Author: Heba H. Mostafa, John A. Fissel, Brian F...  
Publish Year: 2020

### [Early diagnosis and appropriate respiratory support for ...](#)

<https://pubmed.ncbi.nlm.nih.gov/32448200>

Results: In all 10 patients, early and rapid diagnosis for severe *M. pneumoniae* pneumonia with ARDS was achieved with polymerase chain reaction (PCR) or **metagenomic next-generation sequencing** (mNGS) testing of samples from the lower **respiratory** tract or pleural effusion.

Cited by: 3 Author: Lin Ding, Yu Zhao, Xuyan Li, Rui Wang, Y...  
Publish Year: 2020

Figure 4 from [Metagenomic next-generation sequencing for](#)