

[< Back to results](#) | 1 of 1[Download](#) [Print](#) [Save to PDF](#) [Save to list](#) [Create bibliography](#)

AIP Conference Proceedings • *Open Access* • Volume 2682 • 7 February 2023 • Article number 050008 • 3rd Symposium on Industrial Science and Technology, SISTEC 2021 • Pahang, Virtual • 25 August 2021 through 26 August 2021 • Code 186634

Document typeConference Paper • *Bronze Open Access***Source type**

Conference Proceedings

ISSN

0094243X

ISBN

978-073544326-6

DOI

10.1063/5.0114348

Publisher

American Institute of Physics Inc.

Original language

English

Volume Editors

Salim N., Samah N.A., Nazlan R., Widia M., Sukadarin E.H.

[View less](#)

On-site Sequencing of Polyporales sp. Isolated from a Rare Lung Fungal Infection using Oxford Nanopore Flongle

Zainulabid, Ummu Afeera^a ; Azih, Muhammad Naimuddin Abdul^a ; Fuaat, Azliana Abd^b ;Abidin, MohdRadhwan^c ; Ahmad, Hajar Fauzan^d [Save all to author list](#)

^a Department of Internal Medicine, Kulliyah of Medicine, International Islamic University of Malaysia, Jalan Sultan Ahmad Shah, Bandar Indera Mahkota, Pahang, Kuantan, 25200, Malaysia

^b Department of Pathology and Laboratory Medicine, Kulliyah of Medicine, International Islamic University of Malaysia, Jalan Sultan Ahmad Shah, Bandar Indera Mahkota, Pahang, Kuantan, 25200, Malaysia

^c Department of Radiology, Kulliyah of Medicine, International Islamic University of Malaysia, Jalan Sultan Ahmad Shah, Bandar Indera Mahkota, Pahang, Kuantan, 25200, Malaysia

^d Faculty of Industrial Sciences and Technology, Lebuhraya Tun Razak, Pahang, Gambang, 26300, Malaysia

[View PDF](#) [Full text options](#) [Export](#)

Cited by 0 documents

Inform me when this document is cited in Scopus:

[Set citation alert >](#)**Related documents**

Rhomboidia wuliangshanensis gen. & sp. nov. From southwestern China

Xu, T.-M. , Liu, X.-F. , Chen, Y.-H. (2019) *Mycotaxon*

A rare case of hemorrhagic pneumonia due to cladosporium cladosporioides

Grava, S. , Lopes, F.A.D. , Cavallazzi, R.S. (2016) *Jornal Brasileiro de Pneumologia*

HCK and ABAA: A Newly Designed Pipeline to Improve Fungi Metabarcoding Analysis

Mlaga, K.D. , Mathieu, A. , Beauparlant, C.J. (2021) *Frontiers in Microbiology*[View all related documents based on references](#)[Find more related documents in Scopus based on:](#)[Authors >](#)[Abstract](#)[SciVal Topics](#)[Funding details](#)

Abstract

Fungal infection is rarely reported in immunocompetent retroviral disease patients. We report a first case of a 42-year-old man with underlying retroviral disease on Highly Active Antiretroviral Therapy (HAART) who was infected with pulmonary *Polyporales* sp. Despite undetected viral load with high CD4 count, the patient was found to have unexplained significant loss of weight and appetite. Subsequently, CT thorax revealed multiple lung nodules at the lateral segment of the right middle lobe of lung. Bronchoscopy was carried out and showed a black patch at the right bronchus intermedius, lateral segment of the middle lobe which did not disappear upon bronchial flush or wash. The fungal culture was first described as *Cladosporium* sp. based on colony appearance and morphology under light microscopy examination. Due to the rarity of this infection, we recovered the sample from paraffin embedded tissue block and then re-cultured on Sabouraud agar at 30°C. The total genomic DNA was then extracted by using the DNeasy Blood and Tissue kit. Full-length genome sequencing was carried out using Flongle platform for long read protocols which resulted as *Polyporales* sp. This finding will definitely add a novel value for precision diagnosis and clinical surveillance of a rare fungal infection. © 2023 American Institute of Physics Inc.. All rights reserved.

SciVal Topics 

Funding details

References (21)

[View in search results format >](#)

All

[Export](#)  [Print](#)  [E-mail](#)  [Save to PDF](#) [Create bibliography](#)

- 1 Washington, J.A. (1996) *Med. Microbiol.*, pp. 1-9. Mic
-
- 2 Cohen, J.F., Bertille, N., Cohen, R., Chalumeau, M. (2016) *Summary of findings for the main comparison*, (7).
-
- 3 Xiao, Y., Liu, Y., Qin, X. Comparative Study of *Clostridium difficile* Clinical Detection Methods in Patients with Diarrhoea ([Open Access](#)) (2020) *Canadian Journal of Infectious Diseases and Medical Microbiology*, 2020, art. no. 8753284. Cited 5 times. <http://www.hindawi.com/journals/cjidmm/> doi: 10.1155/2020/8753284 [View at Publisher](#)
-
- 4 Bonnet, M., Lagier, J.C., Raoult, D., Khelaifia, S. Bacterial culture through selective and non-selective conditions: the evolution of culture media in clinical microbiology ([Open Access](#)) (2020) *New Microbes and New Infections*, 34, art. no. 100622. Cited 91 times. <http://www.journals.elsevier.com/new-microbes-and-new-infections/> doi: 10.1016/j.nmni.2019.100622 [View at Publisher](#)

-
- 5 Nannan Panday, R.S., Wang, S., Van De Ven, P.M., Hekker, T.A.M., Alam, N., Nanayakkara, P.W.B.
(2019) *PLoS One*, 14 (3).
Mar
-
- 6 Stager, C.E., Davis, J.R.
Automated systems for identification of microorganisms
([Open Access](#))

(1992) *Clinical Microbiology Reviews*, 5 (3), pp. 302-327. Cited 124 times.
doi: 10.1128/CMR.5.3.302

[View at Publisher](#)
-
- 7 Harris, D.M., Hata, D.J.
Rapid identification of bacteria and candida using pna-fish from blood and peritoneal fluid cultures: A retrospective clinical study ([Open Access](#))

(2013) *Annals of Clinical Microbiology and Antimicrobials*, 12 (1), art. no. 2. Cited 47 times.
<http://www.ann-clinmicrob.com/content/12/1/2>
doi: 10.1186/1476-0711-12-2

[View at Publisher](#)
-
- 8 Li, Y.
(2019) *BMC Infect. Dis.*, 19 (1), pp. 1-11.
Nov
-
- 9 Choi, J., Kim, S.-H.
A genome Tree of Life for the Fungi kingdom ([Open Access](#))

(2017) *Proceedings of the National Academy of Sciences of the United States of America*, 114 (35), pp. 9391-9396. Cited 95 times.
<http://www.pnas.org/content/114/35/9391.full.pdf>
doi: 10.1073/pnas.1711939114

[View at Publisher](#)
-
- 10 Vu, D., Groenewald, M., de Vries, M., Gehrman, T., Stielow, B., Eberhardt, U., Al-Hatmi, A., (...), Verkley, G.J.M.
Large-scale generation and analysis of filamentous fungal DNA barcodes boosts coverage for kingdom fungi and reveals thresholds for fungal species and higher taxon delimitation
([Open Access](#))

(2019) *Studies in Mycology*, 92, pp. 135-154. Cited 503 times.
<https://www.journals.elsevier.com/studies-in-mycology>
doi: 10.1016/j.simyco.2018.05.001

[View at Publisher](#)
-
- 11 Tay, D.D., Siew, S.W., Najib, M., Razali, B., Fauzan, H.
(2021) *Curr. Sci. Technol.*, 1 (1), pp. 56-65. Cited 6 times.
-

12 Ahmad, H.F.
(2020) *bioRxiv*. Cited 316 times.
16.044693, Jan

13 Ahmad, H.F.
(2020) *Gut*, 69, p. A21. Cited 3 times.
Nov

14 Castro, A.S., Oliveira, A., Lopes, V.
Pulmonary phaeohyphomycosis: A challenge to the clinician
([Open Access](#))

(2013) *European Respiratory Review*, 22 (128), pp. 187-192. Cited 10 times.
<http://err.ersjournals.com/content/22/128/187.full.pdf+html>
doi: 10.1183/09059180.00007512

View at Publisher

15 Chrenkova, V., Kolarik, M., Hubacek, P., Kolarik, J., Simonek, J., Lischke, R., Drevinek, P.
Possible *Tyromyces fissilis* (Basidiomycota, Polyporales) co-infection in a lung transplant recipient

(2015) *Folia Microbiologica*, 60 (1), pp. 33-35. Cited 2 times.
www.biomed.cas.cz/mbu/fovia/index.html
doi: 10.1007/s12223-014-0336-0

View at Publisher

16 Lücking, R.
Stop the Abuse of Time! Strict Temporal Banding is not the Future of Rank-Based Classifications in Fungi (Including Lichens) and Other Organisms

(2019) *Critical Reviews in Plant Sciences*, 38 (3), pp. 199-253. Cited 37 times.
www.tandf.co.uk/journals/titles/07352689.asp
doi: 10.1080/07352689.2019.1650517

View at Publisher

17 H. F. B. Ahmad, University of Copenhagen, Faculty of Science, Kbh, 2019

18 Abarenkov, K., Nilsson, R.H., Larsson, K.-H., Alexander, I.J., Eberhardt, U., Erland, S., Høiland, K., (...), Køljalg, U.
The UNITE database for molecular identification of fungi - recent updates and future perspectives ([Open Access](#))

(2010) *New Phytologist*, 186 (2), pp. 281-285. Cited 1211 times.
doi: 10.1111/j.1469-8137.2009.03160.x

View at Publisher

- 19 George, P.B.L., Creer, S., Griffiths, R.I., Emmett, B.A., Robinson, D.A., Jones, D.L.
Primer and Database Choice Affect Fungal Functional but Not Biological Diversity Findings in a National Soil Survey
([Open Access](#))
- (2019) *Frontiers in Environmental Science*, 7, art. no. 173. Cited 21 times.
journal.frontiersin.org/journal/environmental-science
doi: 10.3389/fenvs.2019.00173
- [View at Publisher](#)
-

- 20 Tang, J., Iliev, I.D., Brown, J., Underhill, D.M., Funari, V.A.
Mycobiome: Approaches to analysis of intestinal fungi
([Open Access](#))
- (2015) *Journal of Immunological Methods*, 421, pp. 112-121. Cited 110 times.
www.elsevier.com/locate/jim
doi: 10.1016/j.jim.2015.04.004
- [View at Publisher](#)
-

- 21 Hofer, U.
Fungal pathogenesis: Wheat stem rust effectors revealed
([Open Access](#))
- (2018) *Nature reviews. Microbiology*, 16 (2), p. 65.
doi: 10.1038/nrmicro.2018.5
- [View at Publisher](#)
-

👤 Ahmad, H.F.; Faculty of Industrial Sciences and Technology, Lebuhraya Tun Razak, Pahang, Gambang, Malaysia; email:fauzanahmad@ump.edu.my
© Copyright 2023 Elsevier B.V., All rights reserved.

About Scopus

[What is Scopus](#)

[Content coverage](#)

[Scopus blog](#)

[Scopus API](#)

[Privacy matters](#)

Language

[日本語版を表示する](#)

[查看简体中文版本](#)

[查看繁體中文版本](#)

[Просмотр версии на русском языке](#)

Customer Service

[Help](#)

[Tutorials](#)

[Contact us](#)

ELSEVIER

[Terms and conditions](#) ↗ [Privacy policy](#) ↗

Copyright © Elsevier B.V. ↗. All rights reserved. Scopus® is a registered trademark of Elsevier B.V.

We use cookies to help provide and enhance our service and tailor content. By continuing, you agree to the use of cookies ↗.

