Supplementary

Table S1 Single case of IFDs reported using mNGS

Year	Species	Samples Types	mNGS platform	Traditional methods	Results	No. of reads, median	Most common co-infecting pathogens	Ref.
2020	Pneumocystis jirovecii	BALF	n/a	Blood and sputum culture, nasopharyngeal aspirate respiratory virus antigen and PCR detection	Only mNGS was positive	1,007	None	(40)
2020	Pneumocystis jirovecii	BALF	BGISEQ-50	Smear, culture, GM test, G test	Only mNGS was positive	66	Aspergillus fumigatus, Rhizopus oryzae	(41)
2020	Pneumocystis jirovecii	BALF	MGISeq 2000	Microscopy of stained sputum, BALF smear specimens, various antibody and culture	The mNGS and Gomori methe-namine-sliver staining of the lung biopsy were positive	1,665,693	None	(42)
2019	Cryptococcus neoformans	Biopsy of the rib	n/a	G test and GM test, T-SPOT, HIV test, culture, Gram staining and acid-fast staining smear, CrAg detection, pathology with staining	CrAg detection and pathology were conducted after the positive mNGS results	47	None	(55)
2020	Histoplasma capsulatum	Epiglottis tissues, BALF	n/a	Culture, microscopy, serology tests for HIV and <i>Mycobacterium</i> tuberculosis, T-SPOT.TB, Xpert MTB/RIF assay	Only mNGS was positive	n/a	None	(62)
2021	Aspergillus fumigatus	Serum	n/a	MRI, blood cultue, CT, serum GM, CrAg detection	m NGS was the first positive	n/a	None	(70)
2021	Aspergillus flavus	Blood	Nextseq550 platform	Culture, histopathology	mNGS and culture were positive	n/a	n/a	(71)
2021	Candida tropicalis	Liver puncture	n/a	G test, culture, histopathology, calcofluor white staining	G test, calcofluor white staining and mNGS were positive	50	None	(73)

IFDs, invasive fungal diseases; n/a, not available; BALF, bronchoalveolar lavage fluid; CrAg, cryptococcal-antigen; G, 1,3-beta-D-glucan; GM, galactomannan.