

**Table S1** The clinicopathologic information of 38 patients with meningitis

Patient ID	Gender	Age	Clinical diagnosis	ptNGS	mNGS
P1	Female	34	VM	–	–
P2	Female	11	NID	<i>Stenotrophomonas maltophilia</i>	–
P3	Female	60	VM	<i>Escherichia coli</i>	–
P4	Male	58	VM	Herpes simplex virus type 1, <i>Abiotrophia defectiva</i> , <i>Streptococcus mitis</i>	Herpes simplex virus type 1
P5	Male	49	PM	Background flora	<i>Corynebacterium striatum</i> , <i>Baumannii</i>
P6	Female	20	NID	–	–
P7	Male	62	VM	–	–
P8	Female	15	NID	<i>Streptococcus constellatus</i>	Herpes simplex virus type 1
P9	Male	60	VM	<i>Pseudomonas alcaligenes</i> , <i>Abiotrophia defectiva</i>	–
P10	Female	15	VM	<i>Baumannii</i> , <i>Mycobacterium tuberculosis</i> , Cytomegalo virus, Herpes simplex virus type 6	–
P11	Female	43	NID	–	<i>Rickettsia feline</i>
P12	Female	37	TBM	<i>Mycobacterium tuberculosis</i> , <i>Streptococcus pneumoniae</i>	<i>Mycobacterium tuberculosis</i>
P13	Male	26	VM	–	–
P14	Female	25	TBM	<i>Mycobacterium tuberculosis</i> , <i>Pseudomonas aeruginosa</i> , Epstein-Barr virus	<i>Mycobacterium tuberculosis</i>
P15	Male	77	NID	–	–
P16	Male	32	NID	Background flora	–
P17	Male	34	VM	Herpes simplex virus type 1, <i>Pseudomonas aeruginosa</i> , <i>Staphylococcus haemolyticus</i> , <i>Alternaria alternata</i> , <i>Leptospira</i> , <i>Staphylococcus sciuri</i>	Herpes simplex virus type 1
P18	Male	52	NID	Background flora	–
P19	Male	53	NID	<i>Mycobacterium tuberculosis</i>	–
P20	Female	62	NID	Background flora	–
P21	Female	54	FM	<i>Acinetobacter pili</i> , Herpes simplex virus type 1, <i>Alternaria alternata</i>	–
P22	Male	17	VM	–	Herpes simplex virus type 1
P23	Female	33	VM	–	–
P24	Female	63	VM	<i>Comonas testosteroni</i> , <i>Mycobacterium tuberculosis</i> , Herpes simplex virus type 1	–
P25	Female	29	VM	<i>Pseudomonas alcaligenes</i> , <i>Staphylococcus haemolyticus</i> , Herpes simplex virus type 6	–
P26	Male	43	VM	Herpes simplex virus type 1	Herpes simplex virus type 1
P27	Female	63	PM	<i>Streptococcus mitis</i> , <i>Streptococcus pneumoniae</i> , <i>Alternaria alternata</i>	<i>Streptococcus pneumoniae</i>
P28	Female	35	NID	Background flora	–
P29	Male	53	VM	<i>Baumannii</i> , <i>Pseudomonas aeruginosa</i> , Cytomegalo virus	–
P30	Female	22	NID	–	–
P31	Male	75	NID	<i>Pseudomonas aeruginosa</i> , <i>Alkalogenic monomonas</i> , <i>Staphylococcus aureus</i> , Herpes simplex virus type 6, <i>Alternaria alternata</i>	–
P32	Female	32	VM	Background flora	Herpes simplex virus type 1
P33	Female	47	NID	<i>Escherichia coli</i>	Herpes simplex virus type 1
P34	Male	57	PM	<i>Pseudomonas aeruginosa</i> , <i>Providencia rettgeri</i> , <i>Acinetobacter junii</i>	–
P35	Male	61	VM	<i>Pseudomonas aeruginosa</i>	–
P36	Male	20	NID	–	–
P37	Male	34	VM	<i>Bartonella henselae</i>	–
P38	Female	68	VM	Herpes simplex virus type 1	Herpes simplex virus type 1

ptNGS, pathogen-targeted next-generation sequencing; mNGS, metagenomic next-generation sequencing; VM, viral meningoencephalitis; PM, purulent meningitis; TBM, tuberculous meningitis; FM, fungal meningitis; NID, non-infectious disease.

**Table S2** Infectious meningitis with positive results by both ptNGS and mNGS

Patient ID	ptNGS	mNGS
P4	Herpes simplex virus type 1, Abiotrophia defectiva, Streptococcus mitis	Herpes simplex virus type 1
P12	Mycobacterium tuberculosis, Streptococcus pneumoniae	Mycobacterium tuberculosis
P14	Mycobacterium tuberculosis, Pseudomonas aeruginosa, Epstein-Barr virus	Mycobacterium tuberculosis
P17	Herpes simplex virus type 1, Pseudomonas aeruginosa, Staphylococcus haemolyticus, Alternaria alternata, Leptospira, Staphylococcus sciuri	Herpes simplex virus type 1
P26	Herpes simplex virus type 1	Herpes simplex virus type 1
P27	Streptococcus mitis, Streptococcus pneumoniae, Alternaria alternata	Streptococcus pneumoniae
P38	Herpes simplex virus type 1	Herpes simplex virus type 1

ptNGS, pathogen-targeted next-generation sequencing; mNGS, metagenomic next-generation sequencing.