Supplementary File

The scope of EIDs included in the analysis is mainly based on the World Health Organization's R&D Blueprint for Action to Prevent Epidemics. The Blueprint prioritized diseases and pathogens that most likely cause the next epidemic and need proactive R&D activities. We included all the diseases that had been identified or discussed in the R&D Blueprint and EIDs that peer-reviewed literature has recognized as posing significant public health risks to China since 1990. Referred to the Blueprint methodology, those with a wide range of R&D pipelines and funding flows and extensive public health actions for disease elimination or eradication were excluded, including HIV/AIDs, malaria, tuberculosis, viral hepatitis, COVID-19, smallpox and Guinea worm disease. As such, 63 diseases were identified and grouped by virus, bacteria, parasite and others (Table).

Table. List of emerging infectious diseases included in analysis

No.	Disease	Source
A) V	iral	
1.1	Crimean-Congo hemorrhagic fever	2018 WHO Blueprint Shortlist (1)
1.2	Rift Valley Fever	2018 WHO Blueprint Shortlist (1)
1.3	Severe fever with thrombocytopenia syndrome	2018 WHO Blueprint Longlist (1)
1.4	Hantavirus disease	2018 WHO Blueprint Longlist (1)
1.5	Ebola virus disease	2018 WHO Blueprint Shortlist (1)
1.6	Marburg virus disease	2018 WHO Blueprint Shortlist (1)
1.7	Lassa hemorrhagic fever	2018 WHO Blueprint Shortlist (1)
1.8	South American hemorrhagic fever	2017 WHO Blueprint Shortlist (2)
1.9	Arenaviral hemorrhagic fevers	2018 WHO Blueprint Longlist (1)
1.10	Middle East respiratory syndrome	2018 WHO Blueprint Shortlist (1)
1.11	Severe acute respiratory syndrome	2018 WHO Blueprint Shortlist (1)
1.12	Highly pathogenic coronavirus disease	2018 WHO Blueprint Longlist (1)
1.13	Nipah virus disease	2018 WHO Blueprint Shortlist (1)
1.14	Henipaviral disease	2018 WHO Blueprint Shortlist (1)
1.15	Zika virus disease	2018 WHO Blueprint Shortlist (1)
1.16	Usutu disease	2017 WHO Blueprint Shortlist (2)
1.17	West Nile fever	2017 WHO Blueprint Shortlist (2)
1.18	Dengue	Discussed in 2018 WHO Blueprint Longlist (1)
1.19	Yellow fever	Discussed in 2018 WHO Blueprint Longlist (1)
1.20	Kyasanur forest disease	2017 WHO Blueprint Shortlist (2)
1.21	Enteroviruses D68 infection	2018 WHO Blueprint Longlist (1)
1.22	Enteroviruses A71 infection	2018 WHO Blueprint Longlist (1)
1.23	Chikungunya virus disease	2018 WHO Blueprint Shortlist (1)
1.24	Sindbis disease	2017 WHO Blueprint Shortlist (2)

1.25	Mayaro disease	2017 WHO Blueprint Shortlist (2)		
1.26	Alphaviruses disease	2017 WHO Blueprint Shortlist (2)		
1.27	Chandipura virus	2017 WHO Blueprint Shortlist (2)		
1.28	Endemic kaposi syndrome	2017 WHO Blueprint Shortlist (2)		
1.29	Orpouche disease	2017 WHO Blueprint Shortlist (2)		
1.30	Monkeypox	Discussed in 2018 WHO Blueprint Longlist (1)		
1.31	H1N1 influenza	Discussed in 2018 WHO Blueprint Longlist (1)		
1.32	H5N1 influenza	Discussed in 2018 WHO Blueprint Longlist (1)		
1.33	H7N9 influenza	Discussed in 2018 WHO Blueprint Longlist (1)		
1.34	Rabies	Liu Q, Cao L, Zhu XQ (3)		
1.35	Japanese encephalitis	Chala B, Hamde F (4)		
1.36	Venezuelan equine encephalitis	Li X, Huang J (5)		
B) Bacterial				
2.1	Anthrax	2017 WHO Blueprint Longlist (2)		
2.2	Brucellosis	2017 WHO Blueprint Longlist (2)		
2.3	Plague	2017 WHO Blueprint Longlist (2)		
2.4	Necrotising Cellutitis & Fasciitis	2017 WHO Blueprint Long List (2)		
2.5	Cholera	2017 WHO Blueprint Long List (2)		
2.6	Leptospirosis	2018 WHO Blueprint Long List (1)		
2.7	Candida Auris disease	2017 WHO Blueprint Long List (2)		
2.8	Lyme disease	Chala B, Hamde F (4)		
2.9	Streptococcus suis	Wang L, Wang Y, Jin S, Wu Z, Chin DP, Koplan JK, et al (6)		
2.10	Tularemia	Xiao Q, Lv Z, Qin J (7)		
2.11	Legionellosis	Xiao Q, Lv Z, Qin J (7)		
2.12	Melioidosis	Xiao Q, Lv Z, Qin J (7)		
2.13	Escherichia coli O157:H7	Zhang S, Luo P, Gao L (8)		
2.14	Shigellosis	Zhu Q (9)		
2.15	Cat scratch disease	Chen H, Ma H, Liu M, Jiang H (10)		
2.16	Relapsing fever	Xiao Q, Lv Z, Qin J (7)		
C) Parasitic and other				
3.1	Leishmaniasis	2017 WHO Blueprint Longlist (2)		
3.2	Aflatoxicosis disease	2017 WHO Blueprint Long List (2)		
3.3	African trypanosomiasis	Li X, Huang J (11)		
3.4	Onchocerciasis	Xiao Q, Lv Z, Qin J (7)		
3.5	Echinococcosis	Wang X, Rainey JJ, Goryoka GW, Liang Z, Wu S, Wen L, et al (12)		
3.6	Histoplasmosis	Xiao Q, Lv Z, Qin J (7)		
3.7	Creutzfeldt-Jakob disease	Xiao Q, Lv Z, Qin J (7)		
3.8	Rocky mountain spotted fever	Xiao Q, Lv Z, Qin J (7)		
3.9	Human granulogtic anaplasmosis	Zhang S, Luo P, Gao L (8)		
3.10	Scrub typhus	Xiao Q, Lv Z, Qin J (7)		
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3.11	Psittacosis	Xiao Q, Lv Z, Qin J (7)

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