

How can WHO's pathogen Family strategy inform equitable R&D approaches at national, regional and global levels?

HEALTH
EMERGENCIES
programme

R&D Blueprint
Powering research
to prevent epidemics

DNA viruses

- ANELLOVIRIDAE**
- HEPADNAVIRIDAE**
Orthohepadnavirus hominidis genotype C
- HERPESVIRIDAE**
- PAPILLOMAVIRIDAE**
- PARVOVIRIDAE**
Protoparvovirus carnavoran
- POLYOMAVIRIDAE**
- POXVIRIDAE**
Orthopoxvirus variola
Orthopoxvirus monkeypox
- ADENOVIRIDAE**
Recombinant adenovirus
Mastadenovirus blackbeardi
Serotype 7
- Spinaeoviridae**
Orthoreovirus mammalis
- Sedoreoviridae**
Genus Rotavirus
- Alphainfluenzavirus** Influenza A H1, H2, H3, H5, H6, H7, H10
Alphainfluenzavirus Influenza A H1N1, H5Nx
- Subgenus Merbecovirus**
Subgenus Sarbecovirus
Subgenus Sarbecovirus
- Orthobolavirus** zairese
Orthobolavirus zairese
Orthomarburburgvirus marburgense
Orthomarburburgvirus sudanensis
- Orthoflavivirus** denguei
Orthoflavivirus zikaense
Orthoflavivirus nilensi
Orthoflavivirus encephalitis
- Orthoflavivirus** flavi
Orthoflavivirus denguei
Orthoflavivirus zikaense

RNA viruses

- CORONAVIRIDAE**
- HANTAVIRIDAE**
Orthohantavirus hantense
Orthohantavirus sinmombense
Orthohantavirus sinmombense
- FILOVIRIDAE**
- FLAVIVIRIDAE**
- HEPEVIRIDAE**
Paslahepevirus balayani genotype 3 HEV-3
- ORTHOMYXOVIRIDAE**
- PARAMYXOVIRIDAE**
Henipavirus nipahense
Henipavirus nipahense
- PICOBIRNAVIRIDAE**
Orthopicobirnavirus hominis
- PICORNAVIRIDAE**
Human poliovirus
Enterovirus alphacoxsackie 1
Enterovirus deconjuncti 68
- PNEUMOVIRIDAE**
Metapneumovirus hominis
- RETROVIRIDAE**
Lentivirus humimdef1
Lentivirus humimdef1
- ARENAVIRIDAE**
Mammarenavirus lassaeense
Mammarenavirus lassaeense
Mammarenavirus juninense
Mammarenavirus lujoseense
- ASTROVIRIDAE**
Mamastrovirus virginiaeense
- BORNAVIRIDAE**
Orthobornavirus bornaense
- TOGAVIRIDAE**
Alphavirus chikungunya
Alphavirus venezuelan
Alphavirus chikungunya
Alphavirus venezuelan
- PERNYBUNYAVIRIDAE**
Orthobunyavirus oropoucheense
- PHENUVIRIDAE**
Bandavirus dabiens
Bandavirus dabiens
Phlebovirus riftense
- NAIROVIRIDAE**
Orthonaivirus haemorrhagiae
Orthonaivirus haemorrhagiae

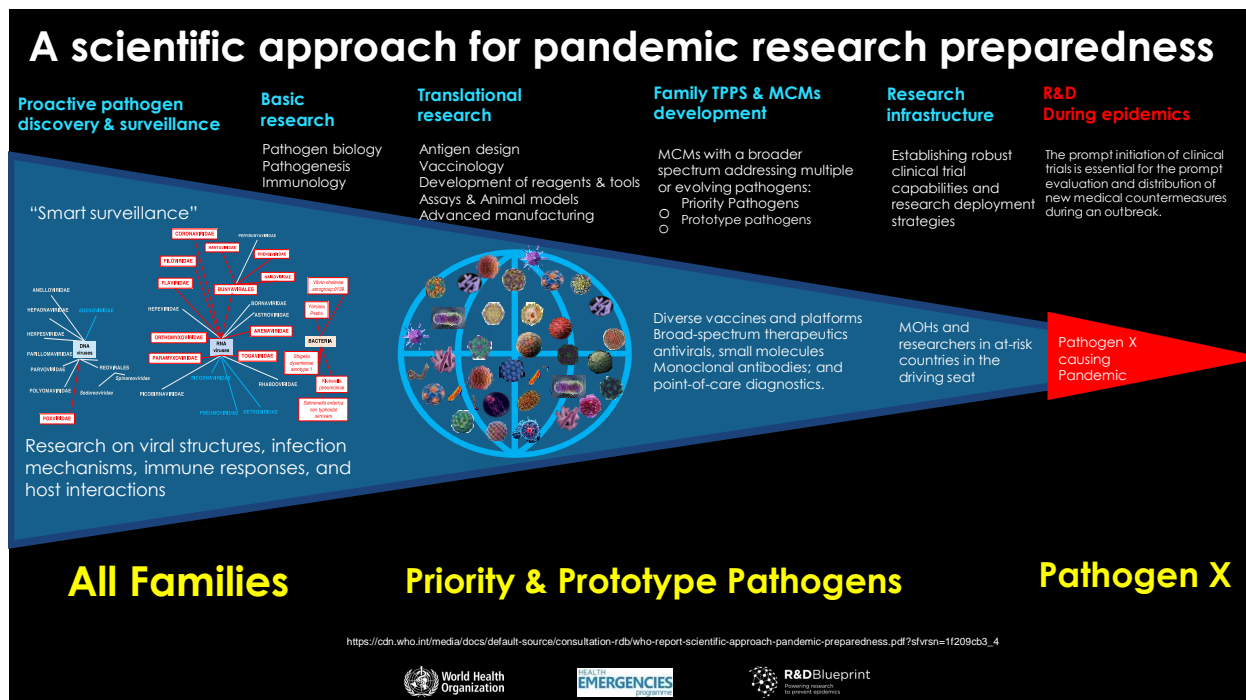
World Health Organization

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 to advance medicine



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The image is a collage of six screenshots from the WHO Blueprint website, arranged in a grid-like fashion. The top row shows two screenshots: the left one is the 'PLOS PATHOGENS' page, and the right one is the 'MarvAC' page. The middle row shows two screenshots: the left one is the 'Solidarity Vaccine Trials' page, and the right one is the 'R&D Blueprint' page. The bottom row shows two screenshots: the left one is the 'PLOS PATHOGENS' page, and the right one is the 'MarvAC' page. The screenshots are in various shades of blue and white, with some text in red and green. The text in the screenshots includes 'PLOS PATHOGENS', 'MarvAC', 'Solidarity Vaccine Trials', 'R&D Blueprint', 'PLOS PATHOGENS', and 'MarvAC'. The text is in various fonts and sizes, and some text is highlighted in red and green. The screenshots are arranged in a grid-like fashion, with some overlapping. The top row shows two screenshots: the left one is the 'PLOS PATHOGENS' page, and the right one is the 'MarvAC' page. The middle row shows two screenshots: the left one is the 'Solidarity Vaccine Trials' page, and the right one is the 'R&D Blueprint' page. The bottom row shows two screenshots: the left one is the 'PLOS PATHOGENS' page, and the right one is the 'MarvAC' page. The screenshots are in various shades of blue and white, with some text in red and green. The text in the screenshots includes 'PLOS PATHOGENS', 'MarvAC', 'Solidarity Vaccine Trials', 'R&D Blueprint', 'PLOS PATHOGENS', and 'MarvAC'. The text is in various fonts and sizes, and some text is highlighted in red and green. The screenshots are arranged in a grid-like fashion, with some overlapping.

A concerted parallel effort to advance R&D in ALL Priority Families
Collaborative OPEN Research Consortia (CORC)

Family	Future CORCs Proposed WHO Collaborating Centers
Arenaviridae	Science and Research, UK Health Security Agency, UK and partner research institutions
Bacteria	The Aga Khan University, Pakistan and LSHTM
Coronaviridae	Programme in Emerging Infectious Disease, Duke-NUS Medical School, Singapore
Filoviridae	ANRS Emerging Infectious Diseases Agency, France and partner research institutions
Flaviviridae	Fundação Oswaldo Cruz FIOCRUZ, Brazil
Hantaviridae	Science and Research, UK Health Security Agency, UK and partner research institutions
Nairoviridae	
Phenuiviridae	
Orthomyxoviridae	
Paramyxoviridae	Indian Council of Medical Research, India
Poxviridae	Institute Nationale pour la Recherche Biomedicale, DRC Wits Reproductive Health and HIV Institute, South Africa

Scientific support and WHO CC: National Institute of Allergy and Infectious Diseases, USA

Strategy implementation support: CEPI, International Development Research Centre, Canada (Filoviridae) and EU- HERA (Filoviridae)

Access to candidate MCMs support during outbreaks: US BARDA and the MCMs developers

Science and knowledge: Thousands of generous experts and researchers!!!

The CORCs will use a decentralized structure that promotes equitable participation from scientists, researchers and developers globally, particularly those where pathogens are known to circulate.

In summary

By expanding research efforts for all viral and bacterial Families' using the CORCs'...

...research advances in a decentralized & collaborative way.

By developing Global R&D Roadmaps for each Family using an open and transparent approach...

... knowledge gaps are addressed in a way that contributes to equity in access to knowledge and innovations

By continuing to collaborate in evaluation of MCMs integrated in outbreak response, led by Ministries of Health and national research teams,....

... equity in access to MCMs, and trust from communities are strengthened.



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CEPI and WHO urge broader research strategy for countries to prepare for the next pandemic

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Media Contacts

<https://www.who.int/news/item/01-08-2024-cepi-and-who-urge-broader-research-strategy-for-countries-to-prepare-for-the-next-pandemic/>

World Health Organization

R&DBlueprint

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