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Pan-antiviral antibody strategy targeting conserved post-translational modification

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PanV, Inc. Team



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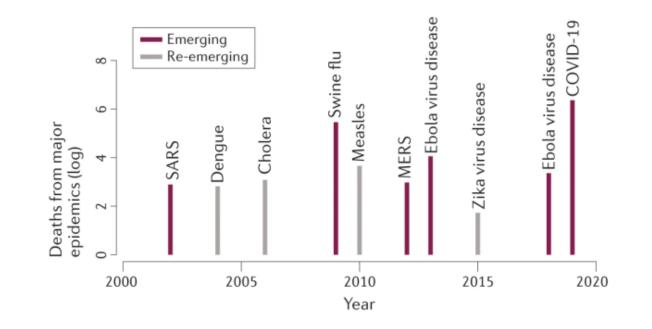
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Problem: Challenges in being prepared for diverse viral outbreaks

Log deaths from major epidemics in the twenty-first century

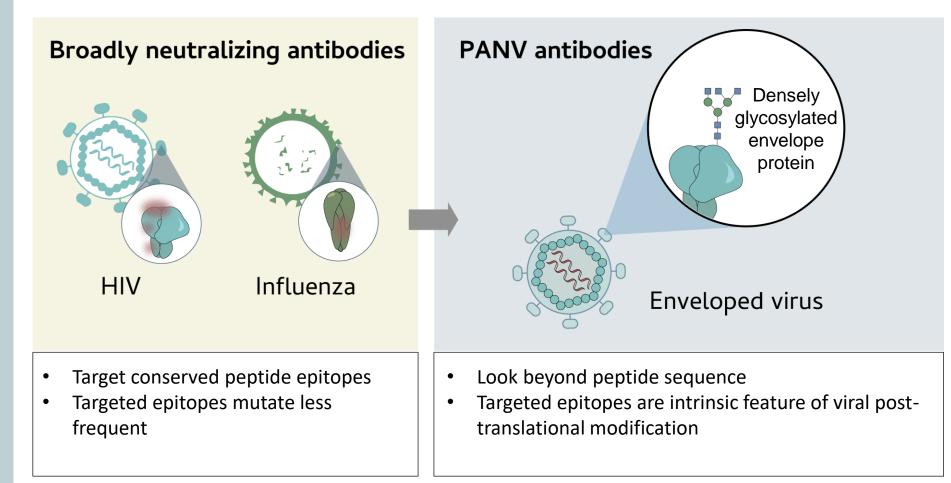


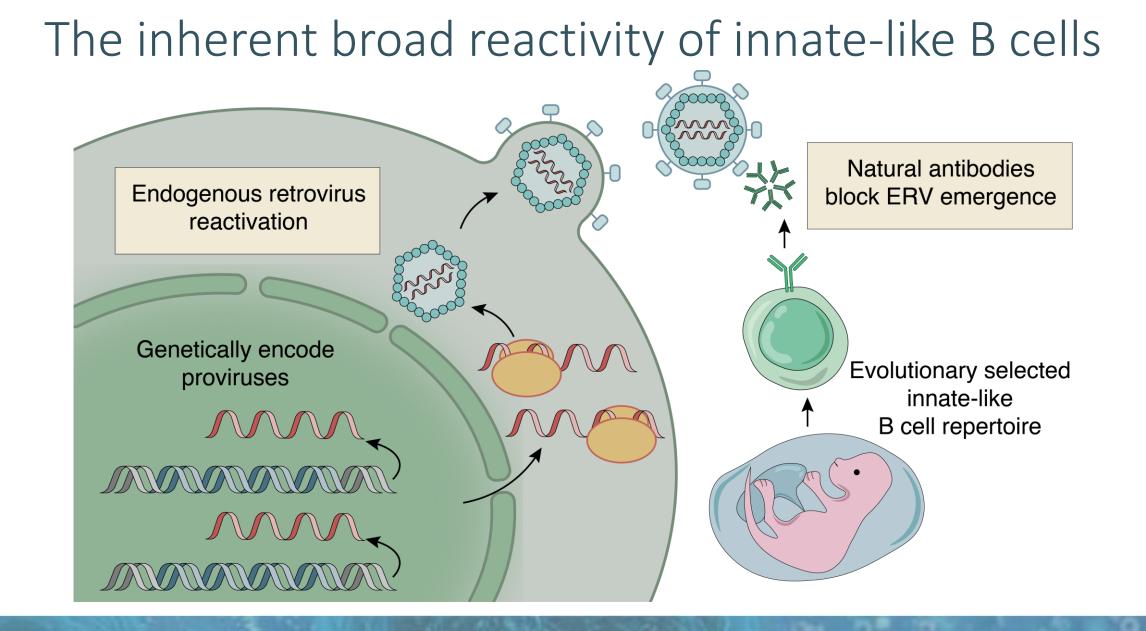
- New viruses: cross-species transmission of zoonotic viruses have led to epidemics and global pandemics.
- New strains: RNA viruses have high mutation rate of up to a million times higher than the vertebrate host.

Sources: R. Baker et al, 2021, https://www.cdc.gov/eis/about/history.html

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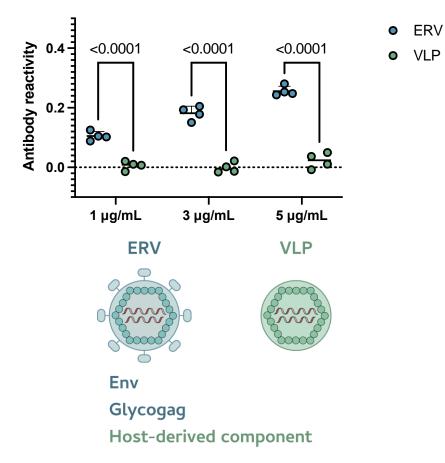
Solution: Developing pan-viral assets targeting diverse viruses

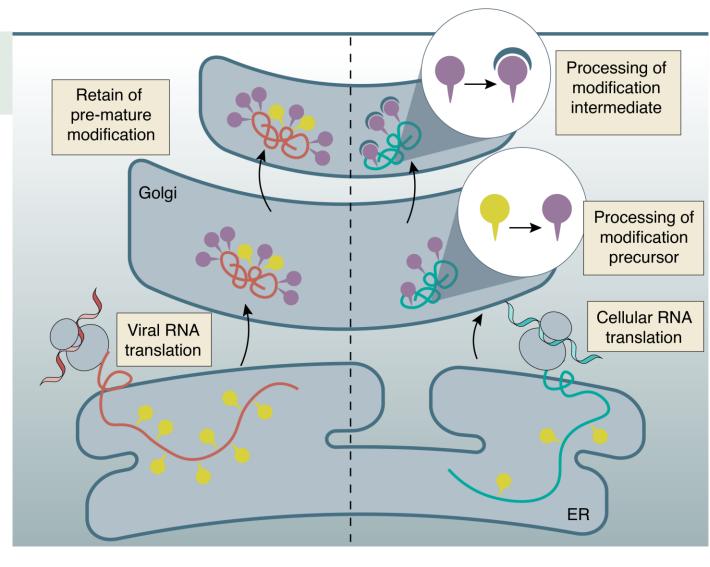




PANV.1 recognizes "non-self" modification

PANV.1 recognizes viral derived components exclusively

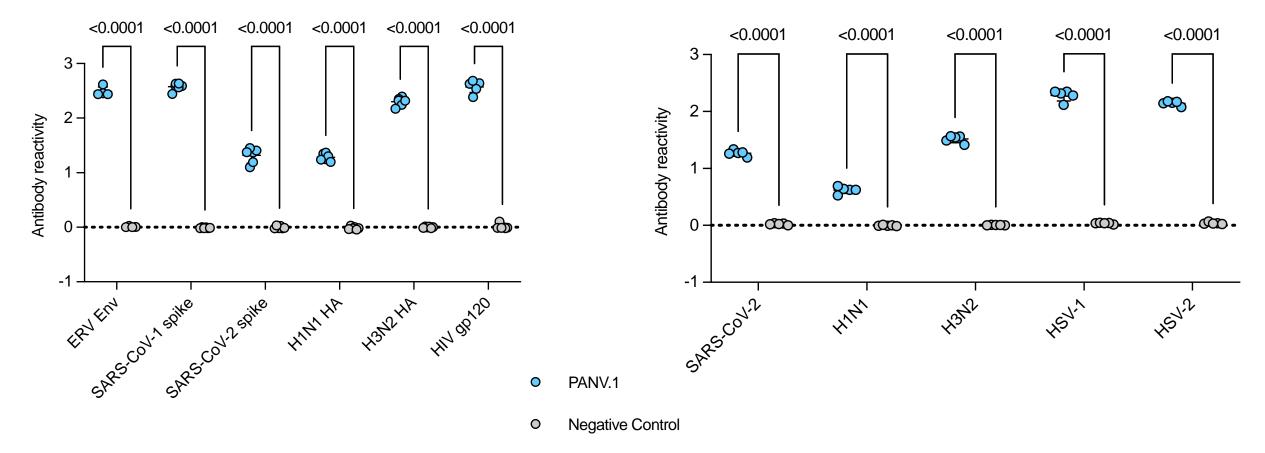




PANV.1 recognizes a broad range of viruses

PANV.1 recognizes viral glycoproteins

PANV.1 recognizes viral particles



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Competitive landscape and pan-antiviral antibody advantages

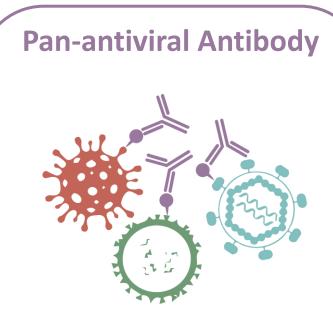
Vaccines

- Current vaccines mostly target one virus
- Vaccine is not always effective because of poor host response or mutations in target peptide epitopes
- "Pan-viral" vaccines under development that target a family of viral particles but cannot target multiple families



Virus Specific Monoclonal Antibodies

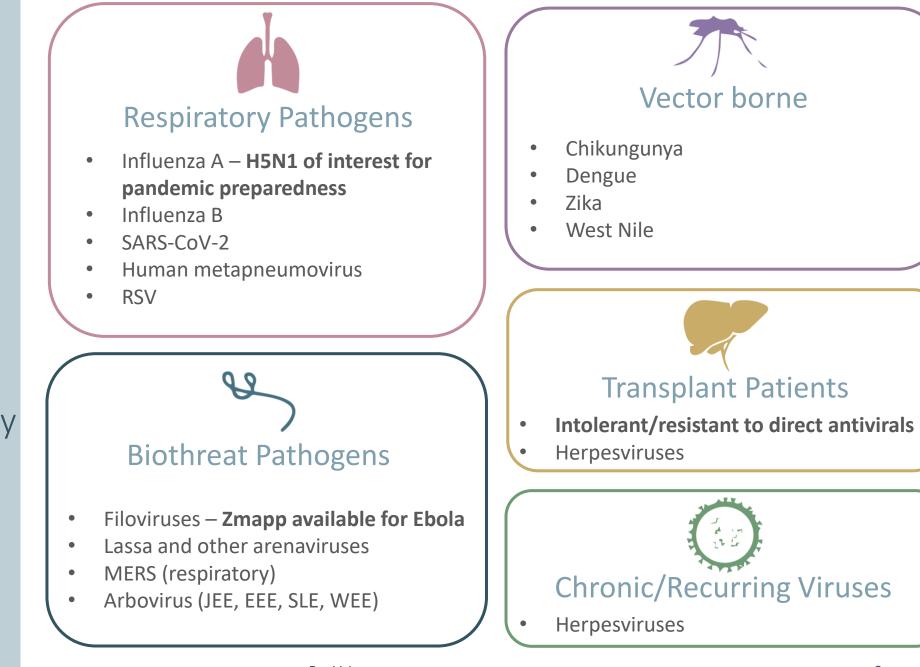
- Limited range of specificity
- Long timeline of manufacturing and regulatory that races against virus mutations
- Beyfortus (Antibody for RSV) has earned approvals in US and EU in infants. Peak sales projected at \$3B by 2030.



- Broad range of virus targeting including DNA and RNA viruses
- Antigenic target not virally encoded, not mutable
- Pandemic ready

Potential Development Pathways:

Number of pathogens to explore pre-clinically for prophylaxis and/or treatment



Near Term Milestones and Capital Plan

 Current Progress - Blavatnik Fund (\$400K) Understood nature of binding between PanV.1 and antigen Library of humanized antibodies Selection of candidate therapeutic Capital Plan Seeking co-lead for pre-See therapeutic 						equity
			Candidate Selection			📕 IND Filed
Activity	1H 2023	2H 2023	1H 2024	2H 2024	1H 2025	2H 2025
Produce humanized antibody and optimize (WuXi Biologics)						
Antibody Validation	In vitro assays					
Pre-clinical efficacy Respiratory: SARS-COV-2, Influenza A, RSV		In vitro		In vivo		
Pre-clinical efficacy Transplant: Herpesviruses		In vitro		In vivo		
Pre-clinical efficacy Biothreat			In vitro	In vivo		
Toxicology		In vitro	In vivo	Single and Repea	at ascending dose	
CMC			Formulation	Stability, Standards, Scale up		
Regulatory Advisory						

Thank you! Contact us at mikecola01@gmail.com