



Mucosal Immunity

Opening Remarks

Fifth Global Vaccine and Immunization Research Forum (GVIRF)

28 – 30 March 2023; Incheon, Korea

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29th March 2023

SARS-CoV-2 Mucosal Vaccine Development Landscape

February 2023

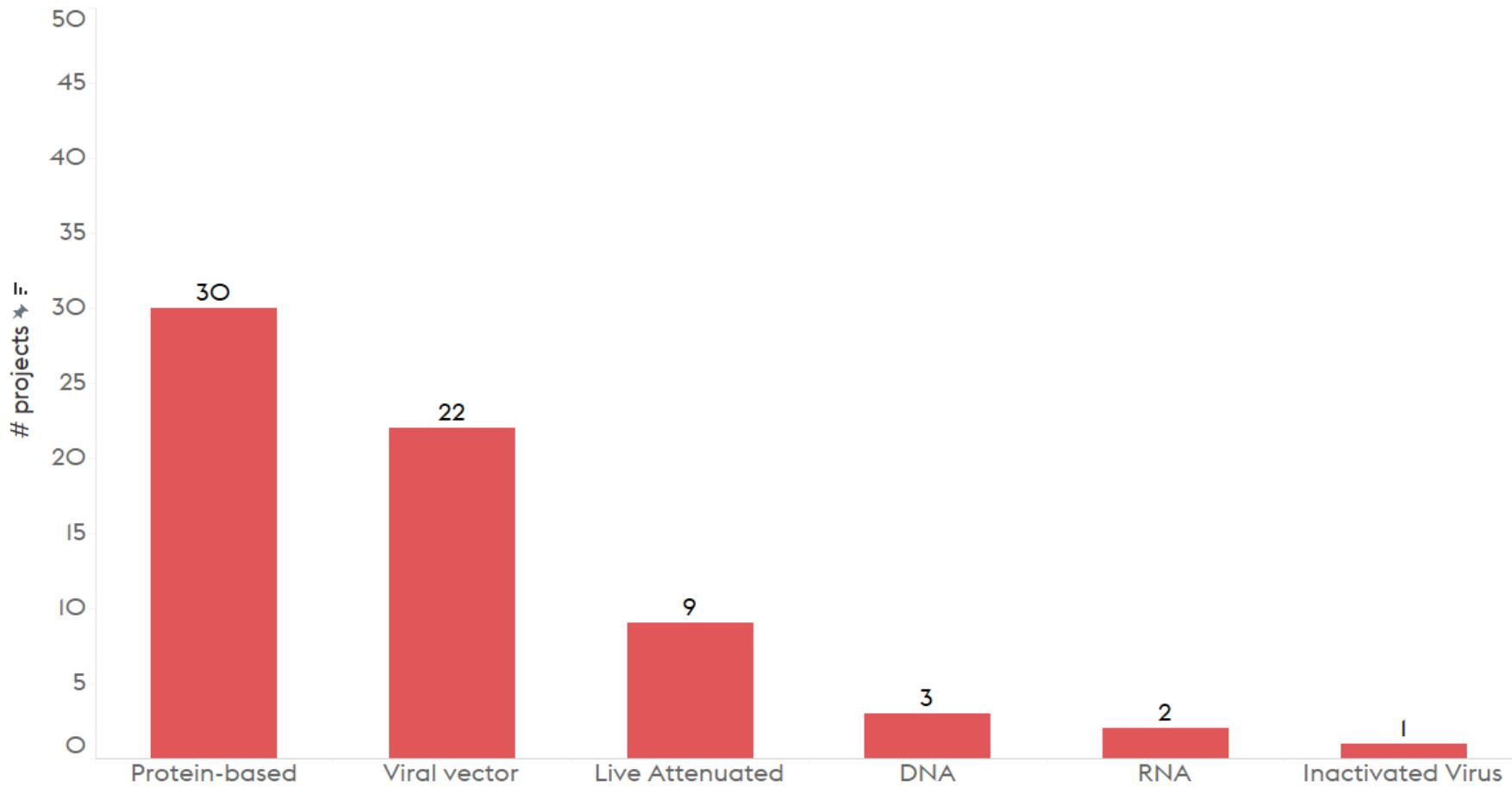
	Preclinical					Phase I	Phase II	Phase III	Registration / introduction
 Viral vector	U. Lancaster	Insitut Pasteur	NIAID			CyanVac LLC			Bharat Bio / U. Washington
	IAVI	U. Erlangen-Nuremberg	InvVax	U. McMaster		AstraZeneca / Oxford	Mt Sinai / CastleVax		Gamaleya
	U. Tsinghua	IMCAS	Webond	U. Virginia	Rokote Labs	Tetherex / Moat Bio			Cansino
						iosBio	Vaxart		
	RNA	Moderna	Esperovax						
	DNA	U. Stanford	AIOVA	MBF Therapeutic					
 Protein-based	UNSAM	CUA	MIT	NIAID	U.Sydney	VaxForm			Razi Institute
	AuraVax	Flow Pharma	Intravacc	U. Leiden	U. Maryland	Blue Willow			
	Loval Tech	AlbuVAX	Oragenics	Shionogi	Iconovo	ACM Bio Lab	CIGB		
	U. Ghent	ConserV	U. Tianjin	Immophron	CCBJIC	Intravacc			
	Vaxine	U. Oxford	WestVac	Mymetics	Wuhan Institute	Yisheng Bio			
	UASLP	Migvax				Oravax			
 Inactivated and Live attenuated						Meissa Liv.		Codagenix / SII Liv.	Beijing Wantai Liv.
						Symvivo Liv.			

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- Dropper
- Sprayer / Inhaler
- Other / unknown

- Tablet delivery
- Lung target confirmed e.g., use nebulizing device

Mucosal vaccine landscape | Platform technology *



* The 67 active projects analyzed above include mucosal vaccine candidates against all infectious viral diseases (Influenza, RSV, HIV, Polio, SARS CoV2) from preclinical stage through licensure.

Open questions around mucosal vaccines

- What is the preferred route of mucosal delivery? And device?
- What technology has best fit for: safety, immunogenicity, access, speed, scalability, pathogen target?
- What is the best priming/boosting strategy? E.g., IM/IN, heterologous
- What is the expedited longevity of such vaccines?
- What is the importance/need of adjuvants?

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