

Harvard University - Myers Lab	Oxepanoprolinamides: oral translation inhibitor	CABP/SSTI bacteria	•					
Helmholtz HIPS	DnaN inhibitors for CABP infections	CABP bacteria	•					

ACTIVE - PREVENTATIVES PROJECTS

Product Developer	Product	Bacteria	Type	Hit-to-lead	Lead Optimization	Pre-Clinical	Phase I
GlyProVac	GPV02 glycosylated protein vaccine	<i>E. coli</i>	Vaccine				
LimmaTech	Multivalent Gonococcus vaccine	<i>N. gonorrhoeae</i>	Vaccine				
Syntiron	Alloy-EK vaccine	<i>E. coli</i> and <i>K. pneumoniae</i>	Vaccine				
Intravacc	Outer Membrane Vesicle vaccine	<i>N. gonorrhoeae</i>	Vaccine				
SNIPR BIOME ApS	SNIPR001 CRISPR-engineered preventative	<i>E. coli</i>	Bacteriophage				
LimmaTech	LBT-SA7 (formerly IBT-V02) Multi-valent vaccine	<i>S. aureus</i>	Vaccine				
Vaxcyte (formerly SutroVax)	GAS Carbohydrate conjugate vaccine	Group A Streptococcus	Vaccine				
GlaxoSmithKline	GSK iNTS-TCV iNTS-typhoid conjugate vaccine	<i>Salmonella enterica</i>	Vaccine				
GlaxoSmithKline	GSK Strep A vaccine	Group A Streptococcus	Vaccine				
Vedanta	VE707 Microbiome	CRE - ESBLs	Microbiome				
Jenner Institute	NOMV Vaccine	<i>N. gonorrhoeae</i>	Vaccine				
Vaxdyn	KAPAVAX Trivalent vaccine	Gram-negative pathogens	Vaccine				
Idorsia (formerly Vaxxilon)	VXN-319 vaccine	<i>K. pneumoniae</i>	Vaccine				
Lumen Bioscience	LMN-GI-EEC-401 Oral antimicrobial immunotherapy (mAb)	<i>C. jejuni</i> & enterotoxigenic <i>E. coli</i>	Biologic				

ACTIVE - DIAGNOSTICS PROJECTS

Product Developer & Graduation Date	Product / Technology	Syndrome	Healthcare Level	Feasibility	Optimization	Development	Verification & Validation
Visby Medical	Rapid detection of <i>N. Gonorrhoea</i> and antimicrobial susceptibility from urogenital samples	Sexually transmitted infections	LI				
Day Zero Diagnostics	ID & AST Whole genome sequencing & machine learning	Bloodstream infections	LIV				
Avails Medical	Rapid Electronic AST	Bloodstream infections	LIII/LIV				
GenomeKey	ID & AST Machine learning & Whole Genome	Bloodstream infections	LIV				
SpeeDx	Resistance Plus InSignia Rapid Molecular ID/AST	Sexually transmitted infections	LIV				

Formerly funded projects

Projects listed in this section were formerly funded, and are no longer supported by CARB-X for a variety of reasons

CARB-X Final Investment Date	Therapeutics and Preventatives	Bacteria	Novelty/Type*			Therapeutics and Vaccines Development Stage			
			New Abx Cls	New Abx Tgt	Non trad	Hit-to-Lead	Lead Optimization	Pre-Clinical	Phase I
Helmholtz Institute HIPS 8/23	HZI-HIPS Elastase (LasB) Inhibitors	<i>Pseudomonas aeruginosa</i>	•	•	•				
Summit Therapeutics 4/23	SMT-738 first-in-class LolCDE targeting antibiotic	CRE bacteria	•	•					
Basilea Pharmaceutica International 2/23	DXR Novel Class Inhibitor	Gram-negative pathogens	•	•					
Entasis Therapeutics 12/22	Non-beta-lactam PBPI	Gram-negative pathogens	•						
Evotec SE 12/22	TriBE broad spectrum antibiotics	Gram-negative, Gram-positive	•	•					
Eligo Bioscience 12/22	EB004. CRISPR-based bacteriophage	Gram-negative pathogens			Bacteriophage				
University of Queensland 11/22	OCTAPEPTIN Engineered peptides	Gram-negative pathogens	•		•				
BioVersys 09/22	BV300 Novel Class Pyrrolocytosines	ESKAPE, MRSA	•						
VenatoRx 09/22	Oral cyclic-boronate PBP inhibitor	<i>Neisseria gonorrhoeae</i>	•						
Microbiotix 09/22	Trans-translation inhibitors, oral antibiotic	MDR <i>Neisseria gonorrhoeae</i>	•	•					
Affinivax 09/22	MAPS vaccine	<i>S. aureus</i>			Vaccine				

Forge Therapeutics 09/22	FG-LpxC-LUNG. LpxC inhibitor	Gram-negative pathogens	• •					
Debiopharm 07/22	Debio1454. FabI inhibitor	<i>Acinetobacter baumannii</i>	•					
ContraFect 04/22	Gram-negative lysins	<i>Pseudomonas aeruginosa</i>	• • •					
Spexis (formerly Polyphor) 03/22	OMP TA POL7306	Gram-negative ESKAPE pathogens	• •					
Taxis Pharmaceuticals 03/22	EPI-PA Efflux Pump Inhibitor	<i>Pseudomonas aeruginosa</i>			•			
Lytica Therapeutics 03/22	StAMPS Large molecule direct-acting	Gram-negative pathogens	•					
BioVersys 01/22	AVATAR-SA Anti-virulence agent	<i>S. aureus</i> , MRSA			•			
Microbion 01/22	Novel bismuthiol, Pravibismane suspension	<i>P. aeruginosa</i> , <i>S. aureus</i> , NTM	• •					
Oxford Drug Design 01/22	DaaRSi. Aminoacyl-tRNA Syn. Inhibitor	Gram-negative pathogens	• •					
MicRx 01/22	MRX-8. Soft drug polymyxin	Gram-negative pathogens						
Facile Therapeutics 04/21	EBSELEN Prevention of <i>C.difficile</i> recurrence	<i>C. difficile</i>				Small molecule		
Antabio 08/21	PEI Pseudomonas elastase inhibitor	<i>Pseudomonas aeruginosa</i>			•			
ContraFect 06/21	Amurins. Phage-encoded lytic	Gram-negative pathogens	•					
Idorsia 04/21	TopESKAPE. Topoisomerase inhibitor	<i>Acinetobacter</i> , <i>P. aeruginosa</i> , <i>Enterobacteriaceae</i>	•					
Techulon 04/21	PPNA-XPA	<i>P. aeruginosa</i> and <i>A. baumannii</i>			•			
Summit 09/20	SMT-571. Oral	<i>Neisseria gonorrhoeae</i>	• •					
Zikani 08/20	Novel macrolide antibiotic	Gram-negative pathogens						
Forge Therapeutics 07/20	FG-LpxC-UTI. LpxC inhibitor	Gram-negative pathogens	• •					
Bravos BB100 08/20	BB100 Monoclonal antibody	<i>Escherichia coli</i>			•			
Inhibrx 03/20	INBRX-111	<i>P. aeruginosa</i>			•			
Procarta 02/20	Pro-202 Oligonucleotidebased antibiotic	Gram-negative pathogens	•					
VenatoRx 12/19	VNRX-PBP. β -lact. resistant PBP inhibitor	<i>Enterobacteriaceae</i>	•					
SciBac 05/19	SCB-102	<i>C.difficile</i>				Microbiome		
Recida Tx 04/19	RC-01	<i>Enterobacteriaceae</i> , <i>P. aeruginosa</i>	• •					
Curza 04/19	CZ-02	Broad spectrum	•					
Achaogen 03/19	Next-Generation AG	Gram-negative pathogens including <i>Pseudomonas</i>						
Melinta 02/19	Pyrrrolocytosine	Broad spectrum	•					
Eligochem 12/18	Helical AMP	Gram-negative pathogens	•					
Shionogi 09/18	AGN-BL	<i>Enterobacteriaceae</i>						
Visterra 09/18	VIS705	<i>P. aeruginosa</i>			•			
Cidara Tx 04/18	CD201	<i>Acinetobacter</i> , <i>P. aeruginosa</i> , <i>Enterobacteriaceae</i>			•			
Achaogen 10/17	AKAO-LpxC	<i>P. aeruginosa</i>	• •					
Redx Pharma 10/17	NBTI	<i>Acinetobacter</i> , <i>P. aeruginosa</i> , <i>Enterobacteriaceae</i>	•					

Diagnostics Development Stage

Company & CARB-X Final Investment Date	Diagnostics	Syndrome	Healthcare Level	Feasibility	Optimization	Development	Verification & Validation
Accelerate Diagnostics 12/22	SRS Optical Imaging	Bloodstream infections	LIV				
Module Innovations 05/22	ID & AST ASTSENSE UTIs	Urinary Tract Infections	LIII				
Novel Microdevices 05/22	NOVEL DX Rapid Molecular Diagnostic	Sexually transmitted infections	LII				
Talis 08/21	POC Dx, Pathogen ID	Sexually transmitted infections	LII				
MicrobeDx 08/18	Near care Dx	Urinary Tract Infections	LII				

The above projects are supported by CARB-X utilizing non-dilutive funding from BARDA, Wellcome Trust, Germany's Federal Ministry of Education and Research (BMBF), with funding for specific projects from the UK Government's Global Antimicrobial Resistance Innovation Fund (GAMRIF) and the Bill & Melinda Gates Foundation. NIAID provides in-kind preclinical services to the funded projects. CARB-X funding for projects ends following First-in-Human for therapeutics and following Verification and Validation for diagnostics. Characterizations of new Abx Class and New Abx Target are by CARB-X, with external expert opinion sought as required. Abx = traditional direct-acting antibiotics. Non-traditional Product = not a traditional direct-acting antibiotic.

* New Antibiotic Class; New Molecular Target; Non-Traditional Product. Solid red arrows reflect completion of the stage, transparent coloring indicates current stage of development for active projects, and stage in which 'formerly funded' projects exited the portfolio. Arrow between stages indicate successful transition of the project through an Option stage gate.