# Exploring non-traditional antimicrobials: Insights from three cases

Guest speakers:Jennifer Schneider, Rida Mourtada & Gregorio IraolaModerator:Sina GerbachHost:Victor Kouassi

22 August 2024







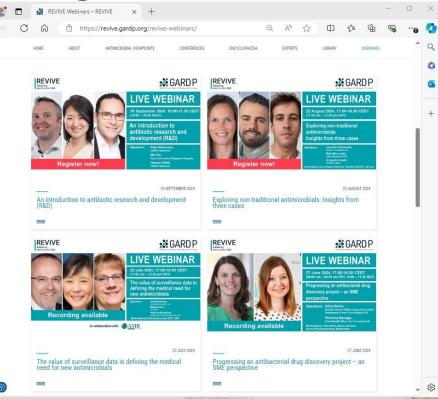
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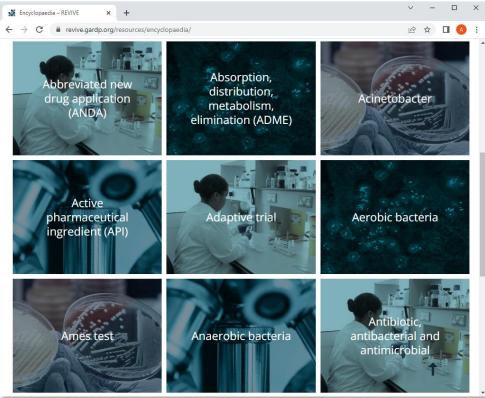
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The value of diagnostics in the fight against antimicrobial resistance - by Rosanna W. Peeling. David L. Heymann & Debi Boeras



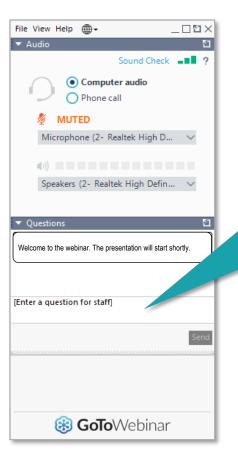
## **Antimicrobial Encyclopaedia**



### revive.gardp.org/resources/encyclopaedia

# How to submit your questions

If your question is addressed to a specific speaker, please include their name when submitting the question.



The presentation will be followed by an interactive Q&A session.

Please submit your questions via the 'questions' window. We will review all questions and respond to as many as possible after the presentation.

# **Today's speakers**

### Exploring non-traditional antimicrobials: Insights from three cases



Jennifer Schneider Chief Executive Officer Centauri Therapeutics *(UK)* 



**Rida Mourtada** Chief Executive Officer *Lytica Therapeutics (USA)* 



**Gregorio Iraola** Chief Executive Officer Kinzbio (*Uruguay*)



#### Moderator:

Sina Gerbach

Deputy Head and Development Lead of the Transfer Group Anti-infectives, Leibniz-HKI and Program Manager at INCATE (Germany)

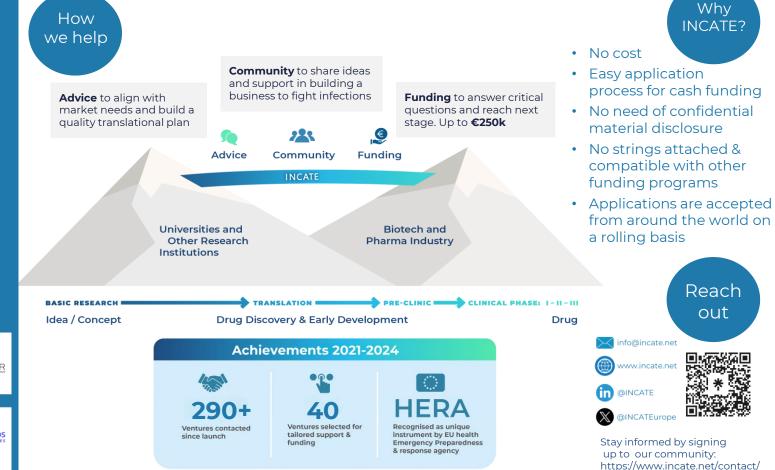


The **INC**ubator for **A**ntibacterial **T**herapies in **E**urope





### SUPPORTING INNOVATORS TO FIGHT DRUG RESISTANT INFECTIONS



### **Jennifer Schneider**



**Jennifer Schneider** has been the CEO of Centauri Therapeutics since May 2022. Prior to Centauri, Jennifer was Executive Officer, North America, for the Global Antibiotic Research & Development Partnership (GARDP). She has nearly twenty years of experience working with companies, universities, and non-governmental organizations in the United States and around the world, providing expertise in antibiotic policy, partnering, and fundraising. She participates in US and international discussions surrounding market creation, access, and novel payment models.

Jennifer received her PhD in molecular biology from the University of Notre Dame and her MPH in epidemiology and international health from the University of Michigan.



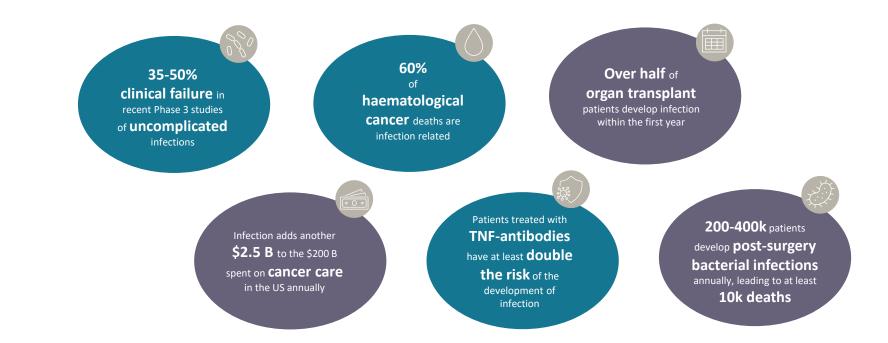
Immunotherapy for lifethreatening infections in vulnerable patients

Jennifer Schneider, CEO Non-confidential deck REVIVE webinar August 22, 2024

www.centauritherapeutics.com



#### Current antibacterial agents are performing poorly



ttps://www.pfizer.com/news/press-release/press-release-detail/phase-3-studies-pfizers-novel-antibiotic-combination-of

https://www.gsk.com/en-gb/media/press-releases/gepotidacin-s-positive-phase-iii-data-shows-potential-to-be-the-first-in-a-new-class-of-oral-antibiotics-for-uncomplicated-urinary-tract-infections/

Zembower, T.R. (2014). Epidemiology of Infections in Cancer Patients. In: Stosor, V., Zembower, T. (eds) Infectious Complications in Cancer Patients. Cancer Treatment and Research, vol 161. Springer, Cham https://doi.org/10.1007/978-3-319-04220-6\_2

https://www.cdc.gov/drugresistance/solutions-initiative/stories/partnership-estimates-healthcare-cost.htm

https://www.euro.who.int/en/health-topics/disease-prevention/pages/news/2022/01/whoecdc-report-antimicrobial-resistance-remains-threat-to-health-in-european-region

is://www.cdc.gov/media/releases/2019/p1113-antibiotic-resistant.htm



### Traditional approaches to infection are no longer sufficient for many patients

New mechanisms are needed to address untreated infections



### We have all been there

We have the bug We have the sensitivities We are giving the right antibiotics (the patient is even taking them)...

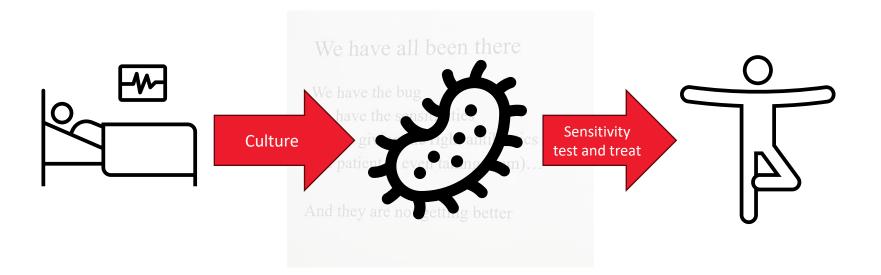
And they are not getting better

Taken from Dr. Steve Holland Laboratory of Clinical Immunology and Microbiology National Institute of Allergy and Infectious Diseases National Institutes of Health ECCMID 2024



### This approach is no longer sufficient for many patients

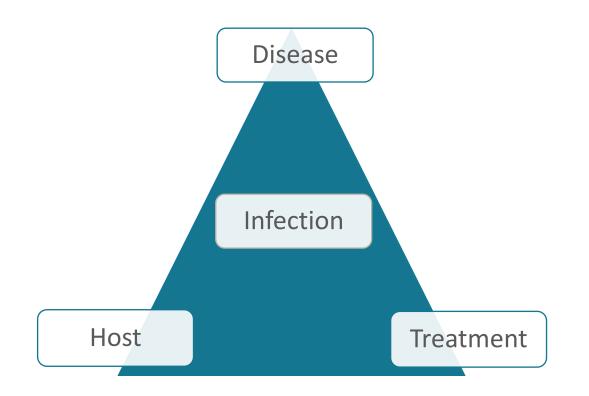
The traditional approach does not take into account the host





### A more complex model of infection is being recognized

Emerging understanding of the patient will support development of non-traditional agents





### Top papers in antimicrobial pharmacology, 2023

Model-based assessment of neutrophil-mediated phagocytosis and digestion of bacteria across in vitro and in vivo studies

- "Typically, antimicrobial drugs are administered to assist a compromised (or functioning) immune system in combating an infection. However, the host response component is usually disregarded during pharmacokinetic/pharmacodynamic (PKPD) assessment of antibiotics, and its effect relative to that of the administered antibiotic(s) is undetermined, although it may be profound."
- Thorsted A, Pham AD, Friberg LE, Nielsen EI. CPT Pharmacometrics Syst Pharmacol. 2023;12:1972-1987. doi:10.1002/psp4.13046

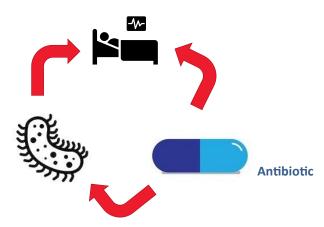




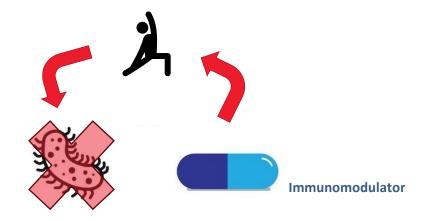
### Immune modulation seeks to tip the balance back in favor of the host

Anti-infectives work best when coupled to a robust immune response

Patients with weakened immunity are often unable to control or clear infections, leading to chronic infections, resistance, increased hospitalization, and death



Leveraging the immune system, even in immune compromised hosts, enables more rapid and complete clearance of infection



Traditional antibiotic development focuses on achieving target drug concentration in healthy individuals without accounting for the immune system of the patient Centauri's technology engages a potent preexisting antibody response which efficiently drives antibacterial clearance



Immunotherapy has the potential to transform anti-infectives in the same way as the discovery of the cancer immunity cycle has for oncology

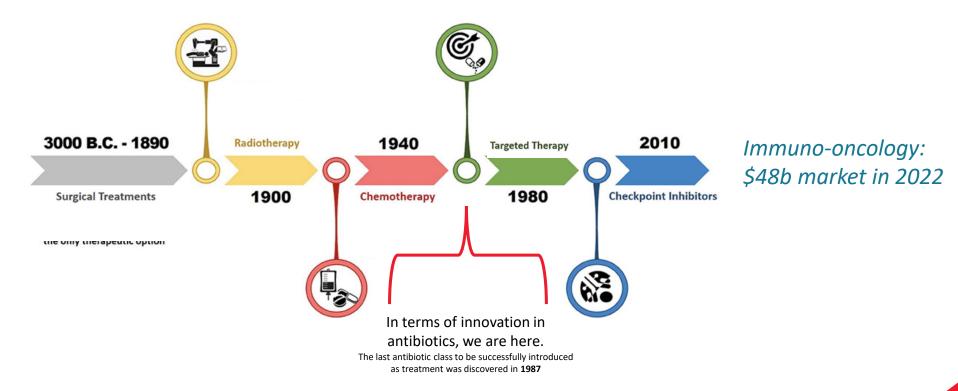


Figure from: Falzone L, Salomone S and Libra M (2018) Evolution of Cancer Pharmacologica Treatments at the Turn of the Third Millennium. *Front. Pharmacol*. 9:1300. doi: 10.3389/fphar.2018.01300



### Compelling rationale for targeted immunotherapies for treatment of bacterial infections

Background to the Centauri platform

Alphamer<sup>®</sup> platform recruits natural antibodies to drive innate and adaptive response

Engages pre-existing polyclonal antibodies present and perfused in all individuals



Utilises broad range of Ig subtypes including IgG, IgM and IgA antibodies

Focuses the immune system to more effectively recognize and kill through complement and phagocytosis

Potential to specifically target pathogenic bacteria, leaving the microbiome intact



### Centauri has strong financial support to bring our vision to patients

Robust cash position supports broader evaluation of the opportunities with our platform and development of additional differentiated assets



£24 million GBP (c. \$32 million USD) Series A investment round

# **\$9 M**

Up to \$9 million USD (c. £7.8 million GBP) grant from Combating Antibiotic Resistant Bacteria Biopharmaceutical Accelerator (CARB-X) £1 M 跃

Previous funding received via Innovate UK grant programme

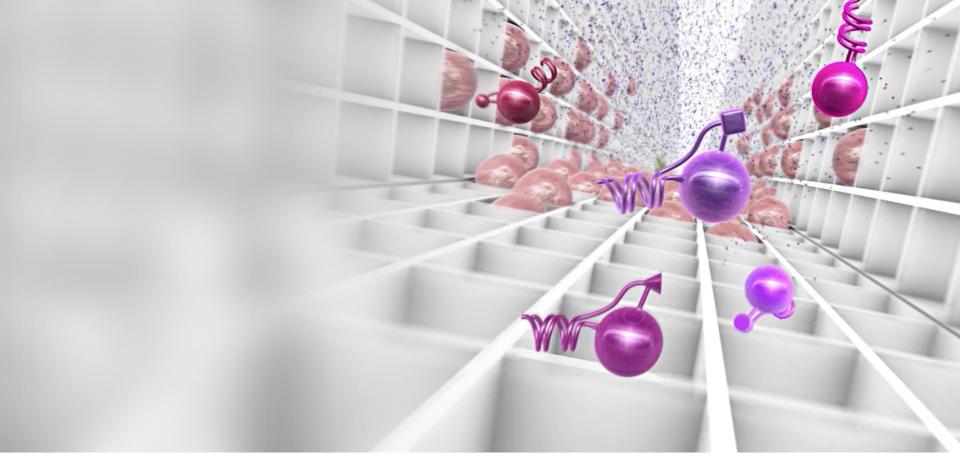








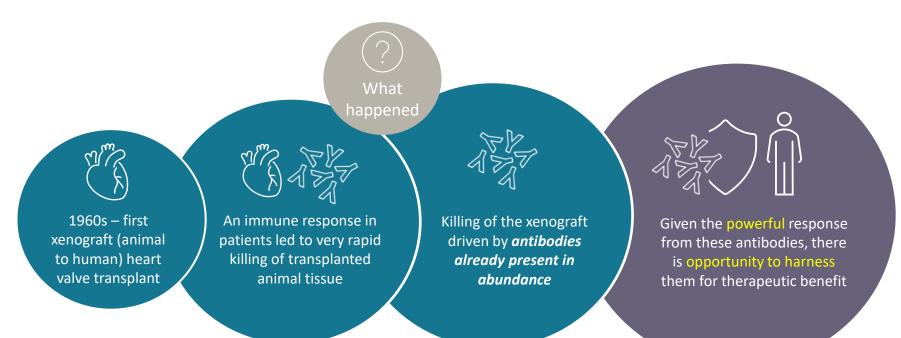




# The Alphamer Platform



### Origins of the platform



### The key to this antibody response is the presentation of natural sugars to the immune system and is the basis for the design of our Alphamers

... are recognized by pre-existing Foreign cells or organisms ... which drive powerful anti-sugar polyclonal expressing non-self sugars... immune response antibodies Xenotransplanted cells display *Hyperacute rejection of alpha-gal+/+ pig* sugars on cell surface kidney by primate (1 day after transplantation) Oct '21 United Therapeutics Antibodies raised continuously to www.fiercebiotech.com/medtech/nyu-surgeons-successfullynon-self sugars presented in gut

transplant-kidney-from-genetically-modified-pig-into-human

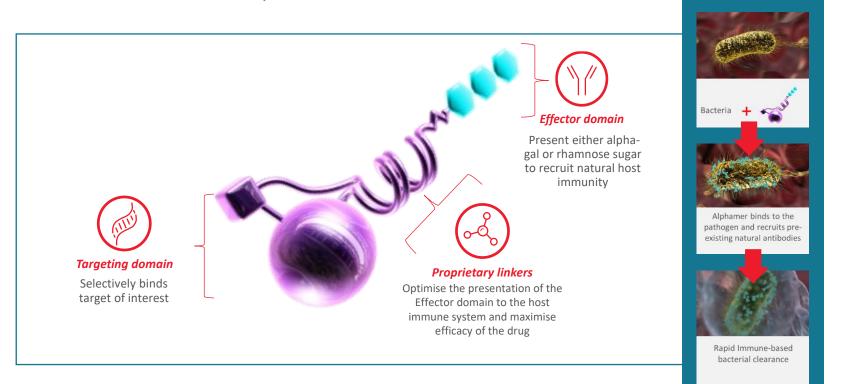
#### Extensive preclinical data supports therapeutic potential of redirecting anti-glycan antibodies [see refs]

#### Clinical precedence exists for both the use of alpha-Gal and Rhamnose for recruiting natural immunity

Centauri



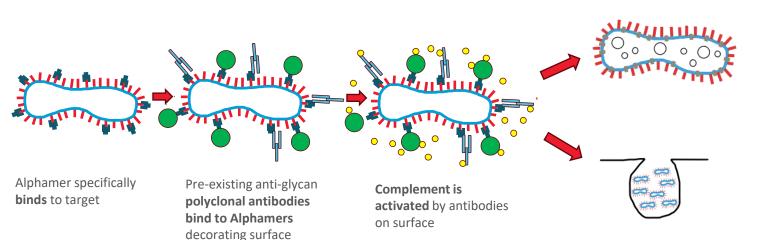
# Alphamers engage the surface of the pathogen through targeting moieties bound to an effector domain to drive rapid immune clearance





### Alphamer mechanisms of action

Two independent pathways leading to cell death



Recruitment and activation of complement leads to assembly of MAC complex and cell death

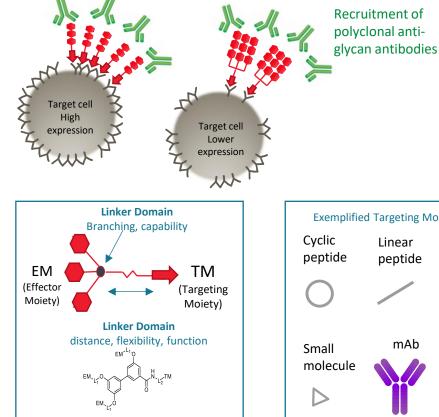
#### AND

**Opsonophagocytic killing** of antibody + complement coated cells by macrophages and granulocytes

- Bacterial surface protein
- Alphamer targeting bacterial surface protein
- Anti-alpha gal / anti-rhamn IgM antibody
- Anti-alpha gal / anti-rhamn IgG antibody
- Complement
- Complement membrane attack complex (MAC)

Linkers fine tune optimal valency and compatibility for multiple types of targeting moiety, while ensuring appropriate presentation of the sugar to the immune system





Exemplified Targeting Moiety (TM) Linear Aptamer peptide mAb Fab

We have synthesised and characterised examples of these types of targeting moieties in ID and cancer

**Engagement of polyclonal antibody** 

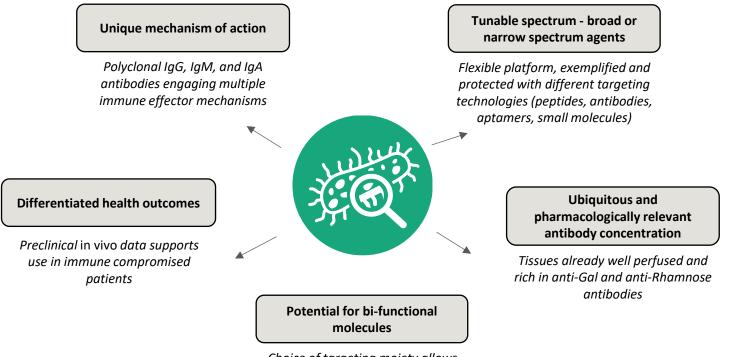
response by Alphamers expected to lead to broader immune response and faster bacterial clearance than IgG1

mAbs or other recombinant antibody

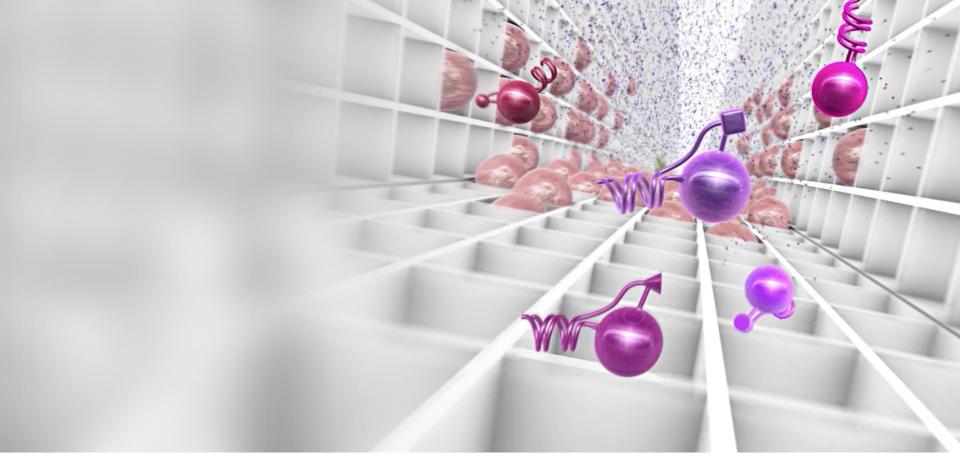
products



# Centauri's platform is a disruptive, immunotherapy-based approach to the treatment of serious infections



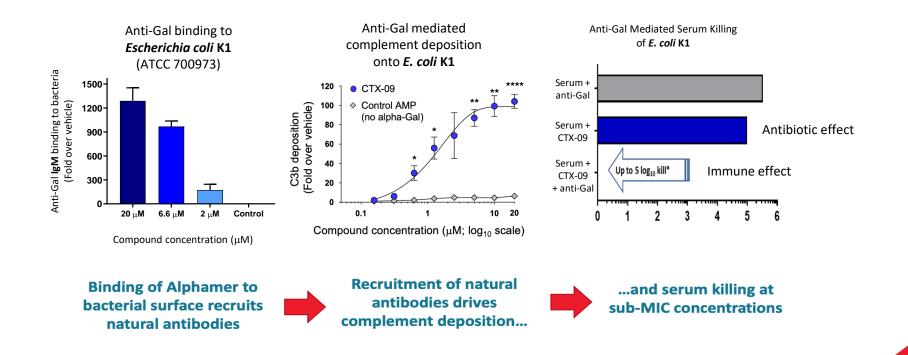
Choice of targeting moiety allows for design of molecules with multiple mechanisms of action



# **Proof of Concept**

### We have demonstrated that Alphamers are functional immunotherapeutics in vitro

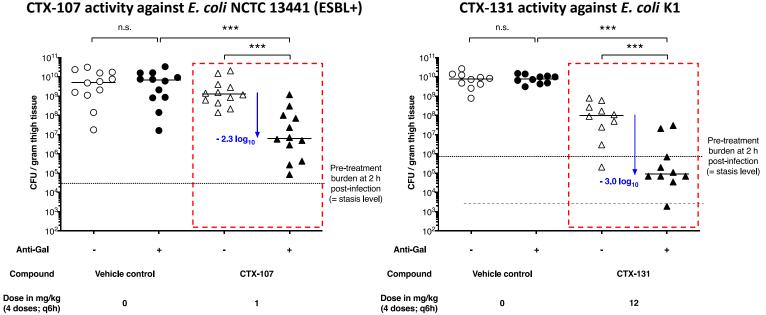
Significant bacterial killing driven through immune activity

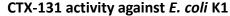


Centauri THERAPEUTICS

### Dual MoA demonstrated in vivo

Alphamers mediate *Escherichia coli* inhibition, even in neutropenic murine thigh infection models. Neutropenic animal models are likely a significant under representation of the robustness of the Alphamer mechanism.

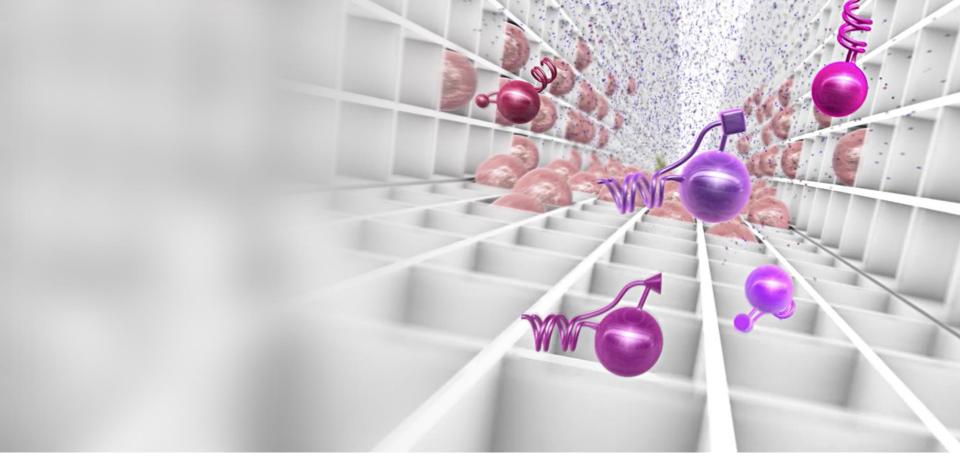




n.s., not significant; \*\*\*, p<0.0001, unpaired, two-tailed Mann-Whitney test

Significant drop in bacterial load in the presence of the anti-Gal antibody (red boxes)





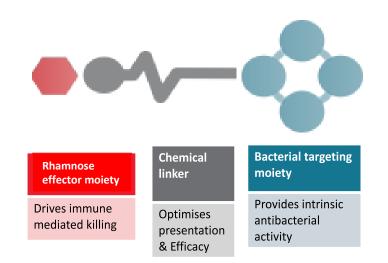
# Our lead program, ABX-01



### ABX-01 a broad spectrum Gram-negative program

Validation of the technology and approach

- Will treat serious infections caused by Gramnegative pathogens
- Selected to work against clinically prevalent and multi-drug resistant strains
- Broad spectrum, via AMP targeting moiety
- Effective as monotherapy
- No requirement for diagnostic test



**Dual mechanism of action:** immunotherapeutic effects via complement fixation and phagocytosis in addition to intrinsic antibacterial activities in the same molecule



### TPP broad-spectrum Gram-negative

	Minimum Acceptable Result	Ideal Result				
Mechanism of Action	A <b>peptide conjugated</b> to one or more alpha-Gal or <b>L-rhamnose</b> epitopes (Alphamer) that <b>binds to Gram-negative</b> <b>bacteria</b> , <b>including MDR strains</b> . Possesses intrinsic <b>antibacterial activity</b> and promotes <b>multiple immune</b> <b>mechanisms</b> to eradicate bacteria through recruitment of natural anti-glycan antibodies.					
Patient Population	Adults with confirmed or suspected serious Gram- negative infections including those caused by MDR Enterobacterales ( <i>Escherichia coli, Klebsiella</i> spp., <i>Enterobacter</i> spp.)	Adults and children (>1yr) with confirmed or suspected serious Gram-negative infections including those caused by MDR (including CoIR strains) Enterobacterales, <i>Pseudomonas aeruginosa</i> and/or <i>Acinetobacter</i> <i>baumannii</i>				
Dosage form	Lyophilised powder	iv-ready solution				
Route of Administration	iv	iv				
Dosing	q6h	BID				
Indications	VAP/HAP or IAI with limited treatment options	VAP/HAP and IAI with limited treatment options				
Risks/Safety	<ul> <li>AEs must be manageable and reversible</li> <li>Nephrotoxicity comparable to or better than current cyclic peptides due to an improved therapeutic window (&gt;3)</li> <li>Manageable DDIs</li> </ul>	<ul> <li>(additional) Able to be dosed in critically ill patients including those with renal or hepatic insufficiency as well as cardiac disease</li> </ul>				



### Summary of science and novel approach

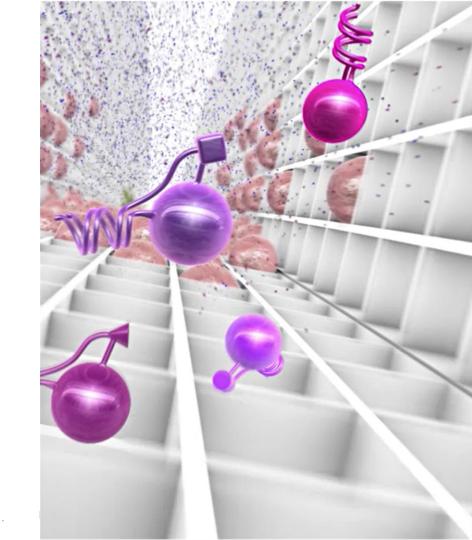
- Excellent scientific and leadership team, robust IP position, and solid funding base
- Highly disruptive immunotherapeutic technology with application across multiple therapy areas including infectious diseases, oncology and vaccines
- Demonstrated broad-spectrum anti-microbial activity against Gram-negative bacteria in vitro and in vivo
- Potent dual mechanism of direct antibacterial and anti-glycan driven immune response demonstrated in vivo
- Novel solution to treating a range of life-threatening diseases with systemically-delivered immunotherapeutic

   The underlying immune mechanism is well known, universal and highly potent
   The platform can generate multiple innovative products across a number of therapy areas

Immunotherapy for life-threatening infections in vulnerable patients



We seek to tackle life-threatening infectious diseases in the most vulnerable patients.



### **Rida Mourtada**



**Rida Mourtada** is a co-founder and Chief Executive Officer at Lytica Therapeutics, a biotechnology company focused on developing novel therapeutics to treat infectious diseases and cancer. His passion for drug discovery led him to co-invent Lytica's core technologies, stapled antimicrobial Peptides (StAMPs) and stapled peptide antibody conjugates.

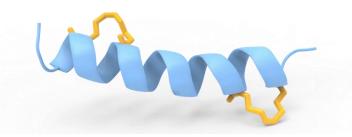
Rida completed his bachelor's and master's degrees at the University of Toronto, Canada and he received his PhD from the Harvard-MIT Program in Health Sciences and Technology at the Massachusetts Institute of Technology, USA.





### **Break Barriers**

Stapled Antimicrobial Peptides



# AMPs: A Natural Source of Antibiotics That Has Yet To be Harnessed

- >700 sequences are alpha-helical
- Broad spectrum activity
- Low potential for resistance

Targeting the membrane to achieve bacterial lysis bypasses resistance mechanisms

Fjell et al. Nat Rev Drug Discov. 2011

# Cytica

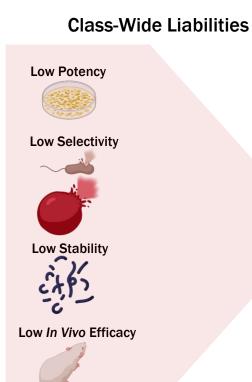
### AMPs: A Natural Source of Antibiotics Yet To be Harnessed

>700 sequences

Broad spectrum activity

Low potential for resistance

**Big Potential** 



Few Candidates No Success

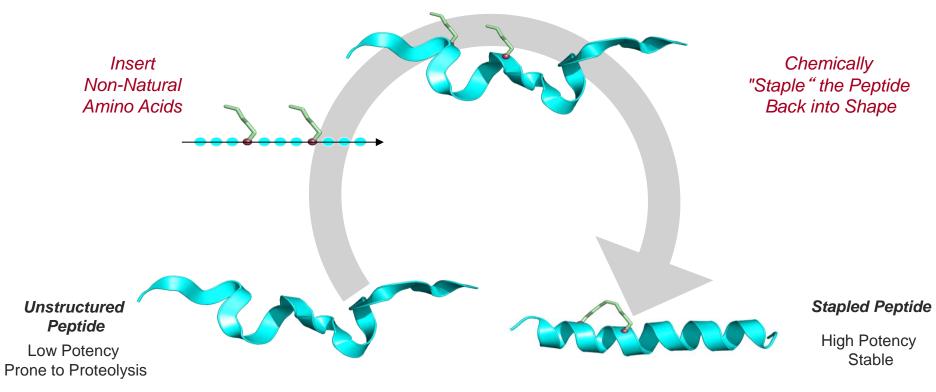
> **Pexiganan** Topical – *Diabetic* Foot Ulcer

**Omiganan** Topical – Catheter-Associated UTIs

**Brilacidin** IV – Gram-positive ABSSSI

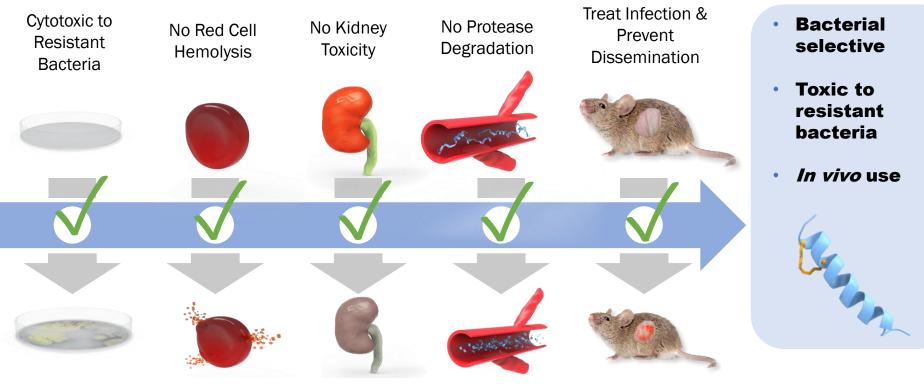


Peptide Stapling: A Technology to Restore and Stabilize Bioactive Shape



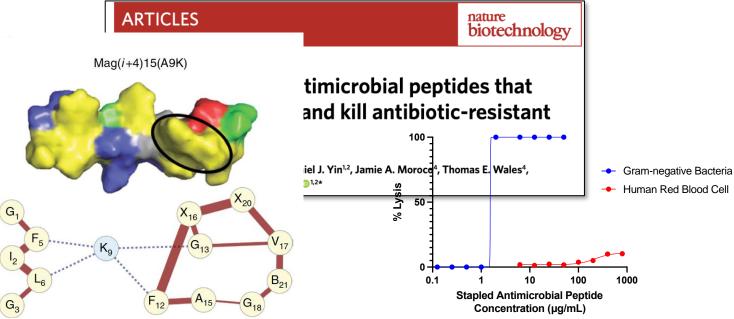
Cytica

## Stapled Antimicrobial Peptides (StAMPs): A Promising New Class of Antibiotics



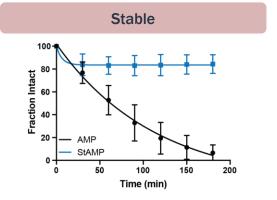


# Design Principles of StAMPs Result in Highly Membrane Selective Lytic Antimicrobials





### StAMPs: A New Class of Antimicrobials with Unique Properties

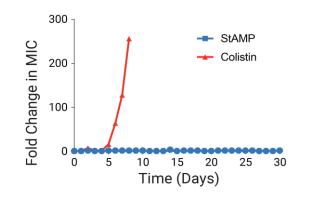


Safe

Bacteria	Antimicrobial Activity (MIC in µg/ml)		
E. coli	2		
B. cereus	8		
P. aeruginosa	4		
S. aureus	64		

Gram nogative Selective

#### **Do Not Induce Resistance**



ica

#### **Effective Against MDR Clinical Isolates**

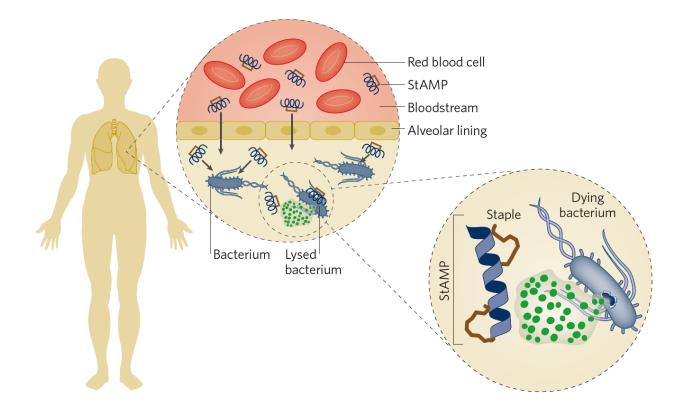
Microorganism	Strain	Amp	Ceftaz	стх	Cipro	Doxy	Gent	Mero	TMP/ SMX	StAMP MIC (µg/ml)*
E. coli	RB001	S	S	S	S	I	S	S	S	1.56
E. coli	RB002	R	R	R	R	R	-	-	I	1.56
P. aeruginosa	RB019	-	S	-	S	-	-	S	-	3.12
P. aeruginosa	RB020	-	R	-	I	-	-	-	-	1.56
K. pneumoniae	RB040	-	S	-	S	-	S	-	-	6.25
K. pneumoniae	RB013	-	R	-	R	-	I	-	-	3.12
A. baumannii	RB197	-	-	-	S	-	S	S	S	1.56
A. baumannii	RB206	-	-	-	R	-	R	R	R	1.56

S=Susceptible, I=Intermediate, R=Resistant; Amp=Ampicillin, Ceftaz=Ceftazidime, CTX=Ceftriaxone,

Cipro=Ciprofloxacin, Doxy=Doxycycline, Gent=Gentamicin, Mero=Meropenem, TMP/SMX=Trimethoprim/sulfamethoxazole \*Geometric Mean

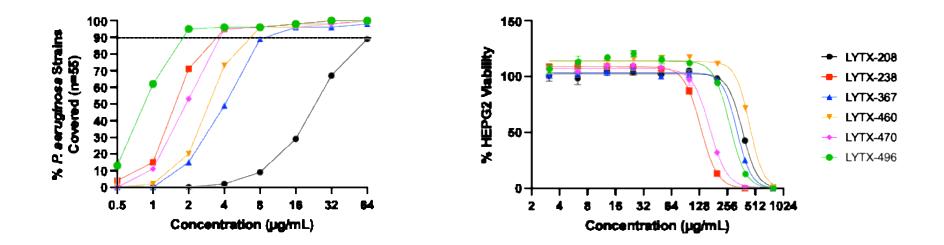
Mourtada et al. Nat. Biotech. 2019

### StAMPs: A New Class of Antimicrobials to Treat MDR Pneumonia





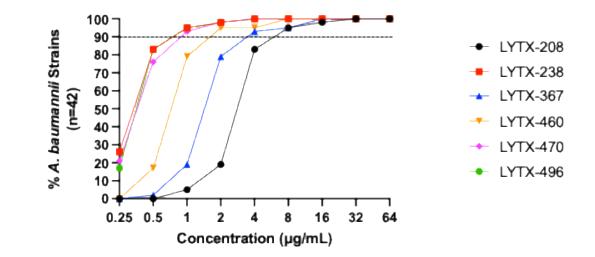
### **Optimization of StAMP Therapeutic Index**



Through an iterative SAR campaign, StAMP potency was optimized while maintaining low cellular toxicity



### MIC<sub>90</sub> in CDC MDR A. baumannii panel



Enhancement in potency against *P. aeruginosa* resulted in potent activity against MDR *A. baumannii* including colistin-resistant strains



### Antimicrobial Efficacy and Cytotoxicity of Optimized StAMPs

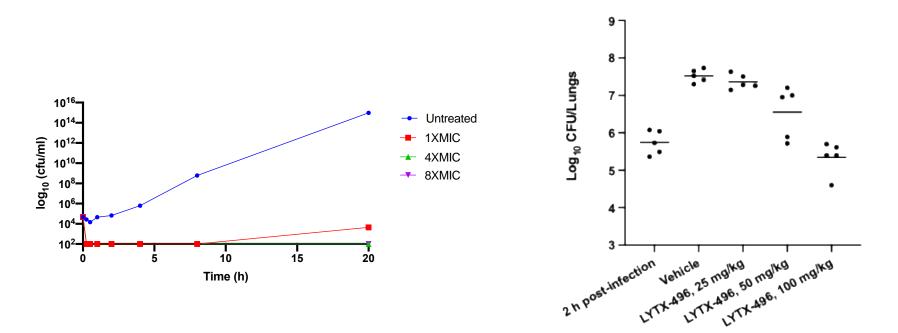
StAMP <i>P.aeruginosa</i> MIC <sub>90</sub> (µg/mL)	P.aeruginosa	A.baumannii	Cytoto: (IC <sub>50</sub> in	xicity µg/mL)	Therapeutic Index		
	MIC <sub>90</sub> (µg/mL)	RPTEC	HEPG2	RPTEC/P.ae	RPTEC/A.ba		
LYTX-208	~64	8	367	375	6	46	
LYTX-238	4	1	103	133	26	103	
LYTX-367	~8	4	356	327	44	89	
LYTX-460	8	2	263	441	33	132	
LYTX-470	4	1	172	167	43	172	
LYTX-496	2	1	316	270	158	316	

#### Shortlisted StAMPs show greater bacterial selectivity than initial hits

MIC<sub>90</sub> estimated from sub-panel results. CDC AR-bank P. aeruginosa (55 strains) and A. baumannii (42 strains) panels were used for MIC<sub>90</sub> calculations.

# Cytica

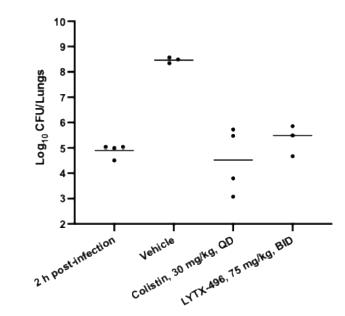
### LYTX-496 Displays Rapid In Vitro and In Vivo Killing Kinetics



Within 4 hours post-administration, LYTX-496 reduced *P. aeruginosa* burden in lung tissue



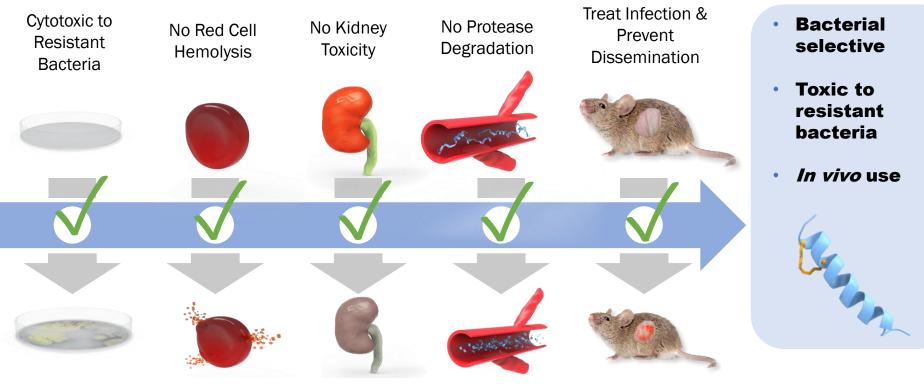
Twice a Day Dosing of StAMP Results in a Sustained Response in a Neutropenic Murine Model of Pneumonia



Two doses of LYTX-496 resulted in a 3-log difference in *P. aeruginosa* burden in lung tissue when compared to vehicle

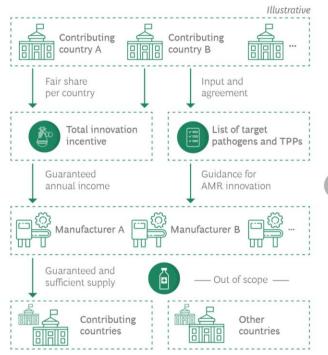


## Stapled Antimicrobial Peptides (StAMPs): A Promising New Class of Antibiotics





## A New Economic Model is Needed for a Sustainable Antibiotic Pipeline: A Subscription Model



#### Key characteristics of subscription model



Appropriate and sustainable financial incentive for manufacturers to innovate antimicrobials to which G7 countries, the rest of the EU, and China contribute their fair share

#### Increased ecosystem viability



Globally relevant pathogen list and TPPs to guide innovation efforts, with global cumulative values assigned to each TPP

🞯 Continuous innovation



Sufficient local product availabilities ensured by manufacturers in return for guaranteed annual income (delinked from volume sold) over set period

603

Portfolio diversity

Supply certainty Stewardship and surveillance

Source: BCG analysis.

Note: AMR = antimicrobial resistance; TPP = target product profile.

# CLytica

https://www.bcg.com/publications/2022/model-for-tackling-antimicrobial-resistance

# **Gregorio Iraola**



**Gregorio Iraola** is co-founder and CEO of Kinzbio, a biotech startup developing preventives and therapeutics for antibiotic-resistant bacteria using an innovative technology platform based on the biology of jumbo phages. He is an International Fellow at the Wellcome Sanger Institute (UK) and Adjunct International Professor at the Universidad Mayor (Chile). His research focuses on understanding and combating bacterial infections and AMR from a one-health perspective, integrating the human microbiome with its surroundings.

Gregorio completed his bachelor's degree in biology and went on to complete his master's degree in bioinformatics and PhD in computational microbiology at Institut Pasteur Montevideo, Uruguay.

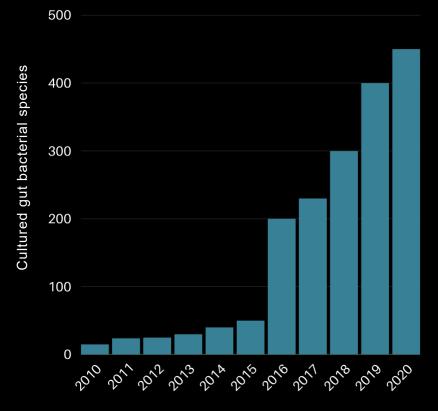


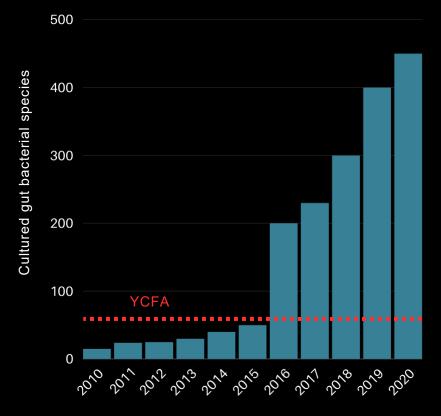
Preventing and treating bacterial infections with non-traditional antimicrobials developed from non-traditional phages

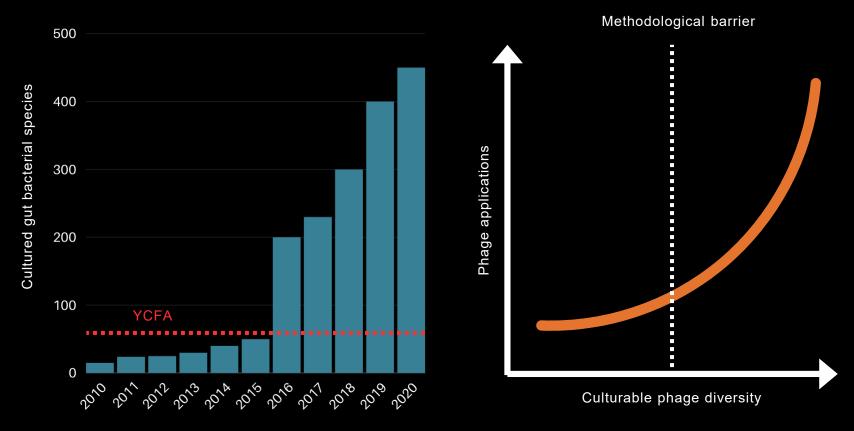
Dr. Gregorio Iraola CEO



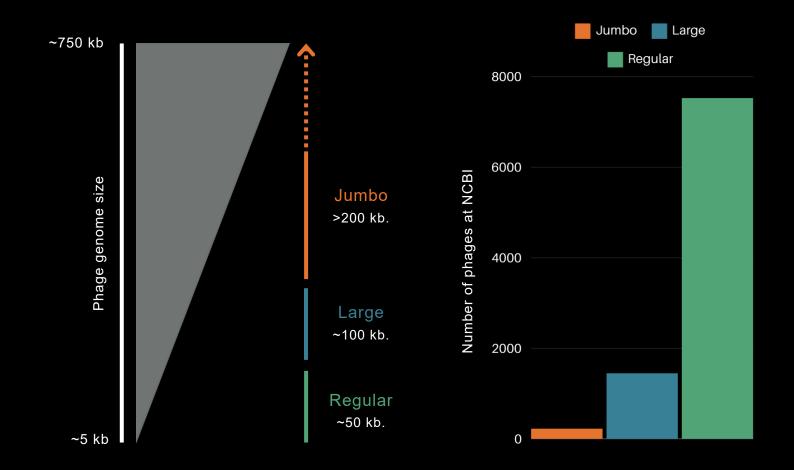
Phages are the most abundant and genetically diverse entities in nature but only a small fraction of them can be isolated in the lab and are currently being used for industrial and biotechnological applications







Slide 03



Phage isolation methods effectively recover only a biased fraction of phages of small-sized genomes Phage isolation methods effectively recover only a biased fraction of phages of small-sized genomes

Phages enclosing bigger genomes, hence expanded genetic and metabolic repertories, are rarely recovered despite they are abundant in nature, hampering the exploration of their biotechnological applications Development of methods to discover jumbo phages from nature



Development of methods for genomic analysis, propagation and manufacturing Proprietary
 biobank made of
 unique jumbo
 phages that offer
 advantages and
 others cannot find

Proprietary
 software for Al enhanced phage
 characterization
 and manufacturing
 optimization

#### Advantages of jumbo phages

SAFE >>> Are almost exclusively virulent, minimizing the chance of lysogeny (integration to the bacterial genome and undesired HGT)
 RESILIENT >>> Pose natural defense mechanisms against bacterial anti-phage machineries (CRISPR-Cas, RM systems, etc.)
 BROADER >>> They are broad-spectrum phages, meaning that one single phage can kill a wide diversity of target bacteria
 RESISTANT >>> Naturally adapted to survive in stressful environmental conditions, improving their activity and stability in formulations
 HIGH POTENTIAL >>> >90% of their genomes harbor genes of unknown function, enabling future phage-derived biotechnologies
 STABLE >>> Their bigger genomes may tolerate bigger genetic modifications in favor of other applications beyond killing bacteria

\* Kinzbio's technology is backed by a fully-owned intellectual property pacakge that incudes patents, industrial secrets, proprietary databases, biobanks and software

#### PERSONALIZED MEDICINES

Kinzbio has developed a personalized phage therapy platform that is currently applying and commercializing in Latin America to treat antibiotic-resistant infections Kinzbio's core technology

#### INFECTION PREVENTION AND CONTROL

Through partnerships with global leader companies and organizations, Kinzbio is developing phage applications to prevent bacterial surface contamination in hospital and domestic environments

#### Scaling and making personalized phage therapy available globally





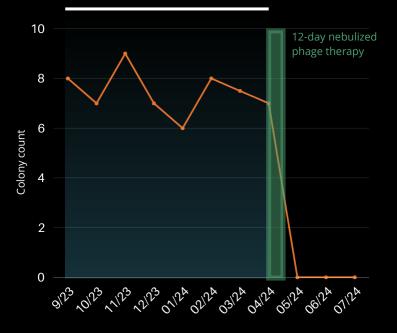
# A local hub for ambulatory patients

Through a local hub in Uruguay, and taking advantage from local regulations and installed capacities, Kinzbio will focus on treating ambulatory patients that can travel to the country from the Latam region and abroad

#### A descentralised network for critically-ill patients

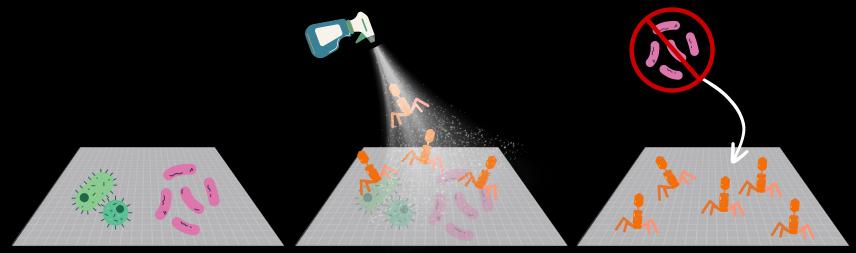
Through a descentarlized network where Kinzbio subsidiary operations will be installed, we will scale to the region and beyond facilitating the treatment of critical patients

#### Failure of antibiotic therapy



Partnering to develop the next generation of infection prevention and control tools

At Kinzbio we are preventing HAIs by providing the built-environment with broad spectrum and long-lasting protection against top-priority AMR bacteria using phage-based technologies



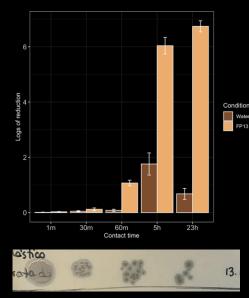
HAI-causing AMR bacteria deposit on the built-environment surfaces

Our broad spectrum phage formulations are designed to kill top priority AMR bacteria

Jumbo phages remain active on the surface during days providing long-term protection

#### Partnering to develop the next generation of infection prevention and control tools

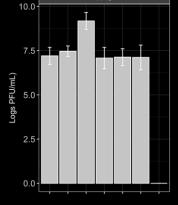
*Klebsiella pneumoniae* (Kp), is a phenotypically diverse top-priority pathogen with the ability to resist to last-line antibiotics and that has evolved increased capacity to colonize and persist in the hospital environment



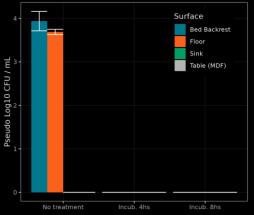
24 hours after atomization phages were recovered viable

Eradication of nosocomial, multidrug resistant bacteria from experimentallycontaminated surfaces





Our phages are resistant to chemicals that are commonly used in disinfectants, supporting their addition to surface protection formulations



When atomized on surfaces from hospital ICUs, phages eradicated bacterial strains thriving on the built environment and derived from infected patients in the ICU isolation boxes

#### **Final remarks**

- Kinzbio developed a phage core technology platform backed by proprietary methods allowing to expand the diversity of culturable phages, leveraging the potential of phages with expanded genetic and metabolic repertories
- Based on its unique phage biobank and manufacturing methods, Kinzbio has successfully performed personalized treatments achieving complete erradication of infecting strains
- This therapeutic option is now commercially available in Uruguay through a network of hospitals and physicians and expansion to Latin America and Europe is in progress
- Through an ongoing partnership with a global multinational company in the hygiene and human health sectors, we are developing a new generation of phage-based disinfectants for domestic environments
- Another partnership is under consideration to keep developing and expanding the use of our approach for infection prevention and control through the delivery of phages on hospital surfaces



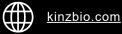
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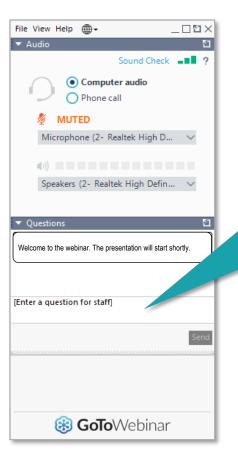
development or commercial partnerships!

Reach out if interested in research,

ALALA LA

# How to submit your questions

If your question is addressed to a specific speaker, please include their name when submitting the question.



The presentation will be followed by an interactive Q&A session.

Please submit your questions via the 'questions' window. We will review all questions and respond to as many as possible after the presentation.

# **Today's speakers**

# Exploring non-traditional antimicrobials: Insights from three cases



Jennifer Schneider Chief Executive Officer Centauri Therapeutics *(UK)* 



**Rida Mourtada** Chief Executive Officer *Lytica Therapeutics (USA)* 



**Gregorio Iraola** Chief Executive Officer Kinzbio (*Uruguay*)

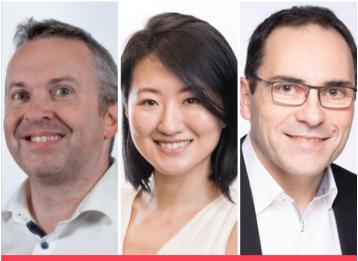


#### Moderator:

Sina Gerbach

Deputy Head and Development Lead of the Transfer Group Anti-infectives, Leibniz-HKI and Program Manager at INCATE (Germany)

# **Upcoming webinars**



### **Register now!**

An introduction to antibiotic research and development With Alan Hennessy, Mo Yin & Herbert Wetli 19 September 2024, 10:00-11:30 CEST

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