BioXyTran®

Corporate Overview

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Forward Looking Statement

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Living with Viruses

Should we embrace

COVID-19 Infections

95.7 million

Respiratory Syncytial Virus (RSV)

2.1 million (under 5yrs)

COVID-19 Deaths

1.07 million

Viral Conjunctivitis

5.0 million

HIV Positive

1.2 million

Long Covid

Over 20% of worlds cases (1 in 5)

Statistics are unacceptable

Something needs to be done

INVESTING IN A COMPANY

THAT

Rejects the idea that Living with the virus is okay

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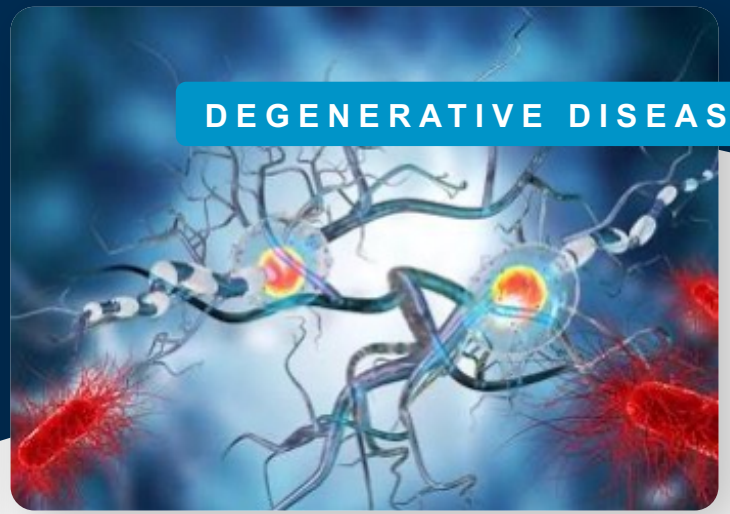
Mission Statement

Bioxytran is a clinical stage pharmaceutical company developing platform technologies in the fields of Glycovirology, Hypoxia and Degenerative Diseases to eliminate viruses and prolong lifespan using carbohydrate drug design.



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COVID is OVER – Why Invest?

No One Masking

No One Testing

No One Distancing

President Says "its over"

Propaganda or Facts

- CDC no longer reports daily infections (only weekly)
- Averaging 400 deaths daily (20 of 50 states reporting)
- New immune evasive variants like XBB BQ.1.1
- 4 million sidelined by Long COVID (Brookings Institute)
- 1 in 5 people present the signs of Long COVID

So is COVID really over?
What about Long COVID?

COVID Has

- Easy indication to prove efficacy (viral elimination 3 days)
- Label expansion likely (platform technology)
- Non-toxic profile = favorable regulatory treatment outside USA

No Relevance to Overall Strategy

GOAL: DRUG APPROVAL ASAP!

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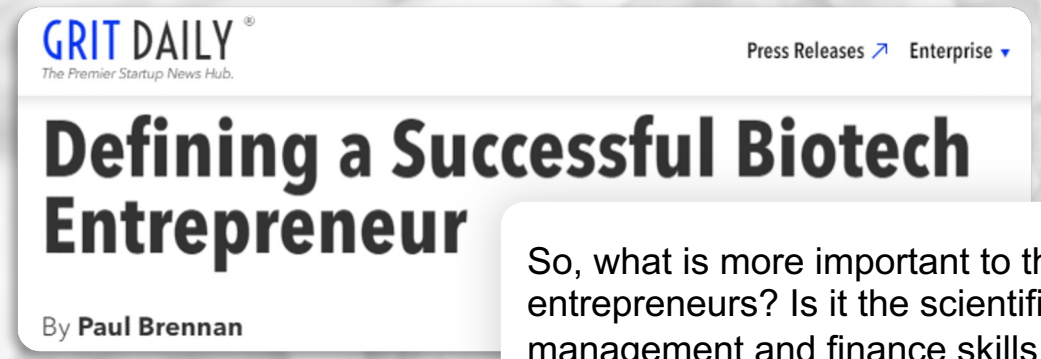
What to Look for in a Biotech

Attributes of a Successful Biotech

(The M&M's of Biotech)
Management – Regulatory Experience
Magic – Science



So, what is more important to the livelihood of biotech entrepreneurs? Is it the scientific breakthrough? Or perhaps it is the management and finance skills needed to bring the company's innovation to commercialization? The answer is, all are equally important – good management fails because the technology could not support it, and good technology fails because of poor management decisions. Management and technology, as well as money, are the key components necessary for a successful biotech venture.

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Key Leadership in Galectin Science

David Platt PhD, CEO, CSO, Chairman
Carbohydrate chemistry expert, founded four publicly traded companies, raised $150m in public markets, created $1B in shareholder value, and led development of two drugs.

Galectin Science

Proven Safety Profile in Drug Class

Efficiency in many etiologies

- 2 Textbooks
- 5 Public Companies
- 10 Journal Articles
- 30 Patents
- 30 Clinical Trials
- 200 Animal Experiments

4,000+
Journal Articles on Target Receptors

30+ years
of research in Galectins, carbohydrate-binding proteins

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The Team

Management

David Platt PhD, CEO, CSO, Chairman
Carbohydrate chemistry expert, founded four publicly traded companies, raised $150m in public markets, created $1B in shareholder value, and led development of two drugs.

Ola Soderquist CPA, MSA, MBA, CFO
>30 years multi-industry financial experience.

Mike Sheikh, CCO
>10 years of business development in life sciences. Broker and Research Analyst.

Hana Chen-Walden MD, CMO, Board Member
>30 years experience in pharmaceutical regulatory affairs in US and Europe.

Board of Directors

Anders Utter MBA, Director
Audit Committee Chair, >25 years of managerial finance and accounting in medical devices and manufacturing.

Dale Conaway DVM, Director
Veterinary Medical Officer, Federal Research.

Alan Hoberman PhD, Director
Executive Director of Site Operations and Toxicology at Charles River Laboratories.

Advisory Board

Avraham Mayevsky PhD, Professor Emeritus
Worldwide authority in the field of minimal invasive monitoring of tissue and organ physiology; and professor at the Faculty of Life Sciences, Bar-Ilan University, Israel.

Kevin H Mayo, Ph.D.
Professor of Biochemistry, Molecular Biology & Biophysics at the University of Minnesota (UMN). Known authority in the field of structural biology and structure-based drug design

Alben Sigamani, MD
Professor and Head of Clinical Research Narayan Health, Bangalore. >17 years of experience in clinical research

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Technology Overview

ProLectin Rx – Glycovirology

Virology:
- Covid-19
- Influenza
- Conjunctivitis
- RSV
- Other virologic diseases

Long term symptoms resulting from viral infections (long-hauler):
- ARDS
- Pulmonary Fibrosis

BXT-25 – Hypoxia & Degenerative Diseases

Ischemia:
- Stroke
- Alzheimer
- Dementia
- Traumatic Brain Injury

Anemia

Wound healing

Oncology and Fibrosis
- Cancer Metastasis
- NASH
- Other Fibrotic condition

Platform Overlap

ProLectin-M is a licensed technology that targets COVID-19 mild to moderate cases

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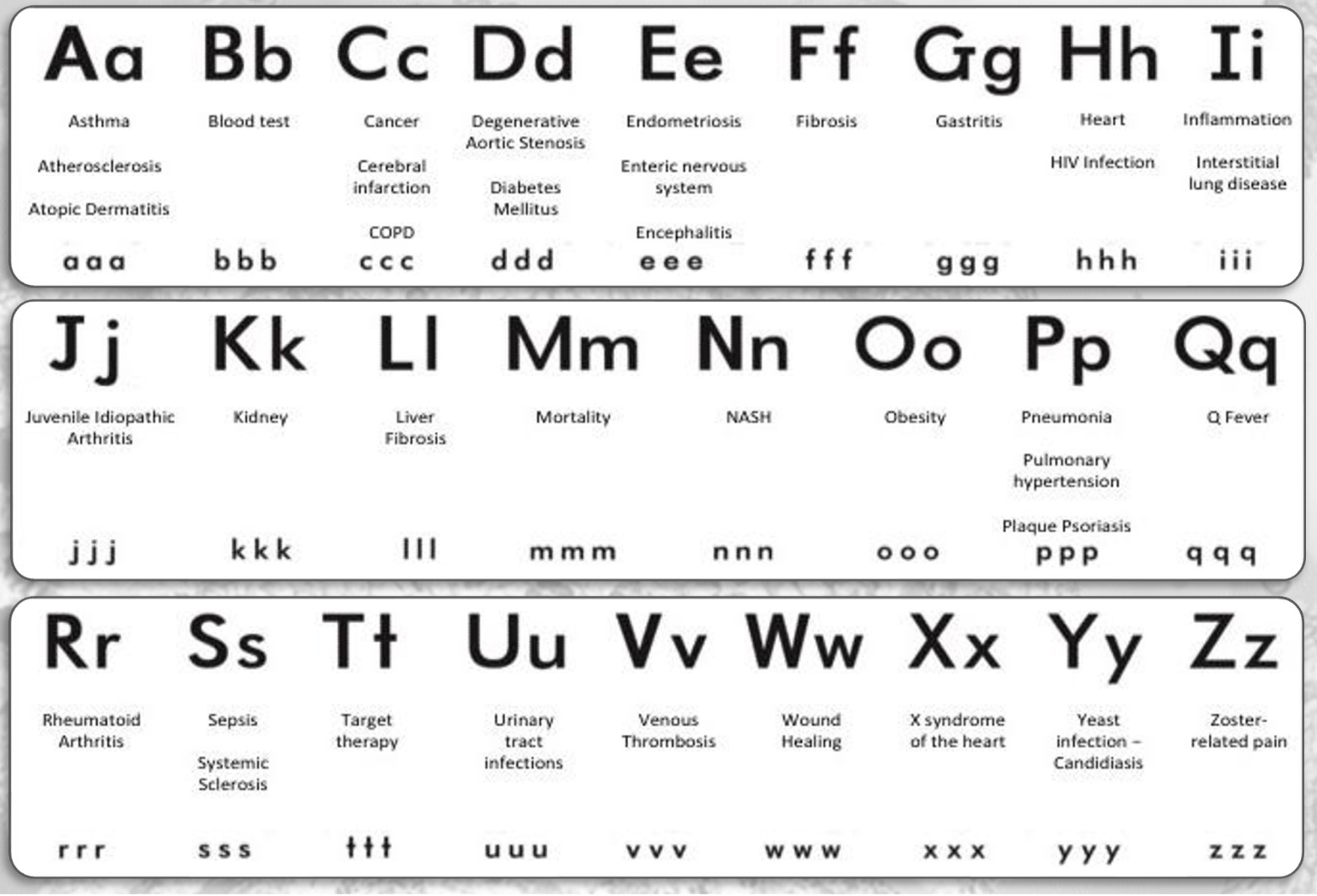
Galectin-3: One Molecule for an Alphabet of Diseases, from A to Z

Conditions and diseases in which a role for Gal-3 has been postulated



Journal of Molecular Science Vol. 19, Iss. 2, February 2018 (Sciacchitano, Lavra, Morgante, Ulivieri, Magi, De Francesco, Bellotti, Salehi, Ricci)

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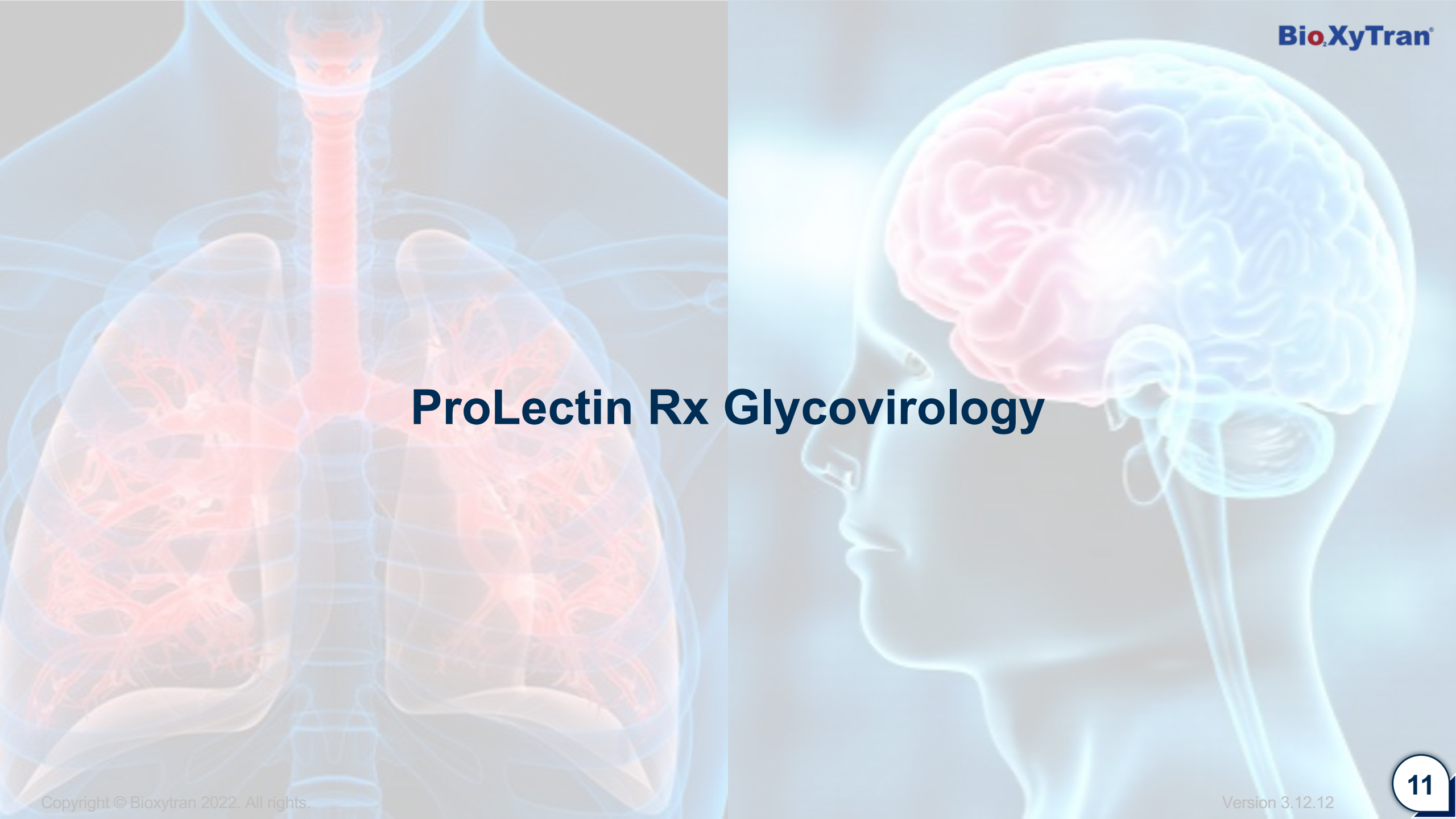

ProLectin Rx Glycovirology

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ProLectin-Rx Galectin Antagonist Platform

Versatile

Mutation agnostic therapeutic

Tested (Phase 2*)

No toxicity
Reduction of viral load to undetectable levels 7 days

No Expected Limitations

Efficient

Eliminate contagion

First line of defense against all mutations of Coronaviruses

STATUS:

Clinical Trial Stage – **Phase II**

*Galectin approach to lower covid transmission - Drug Development for clinical use (medRxiv.org)

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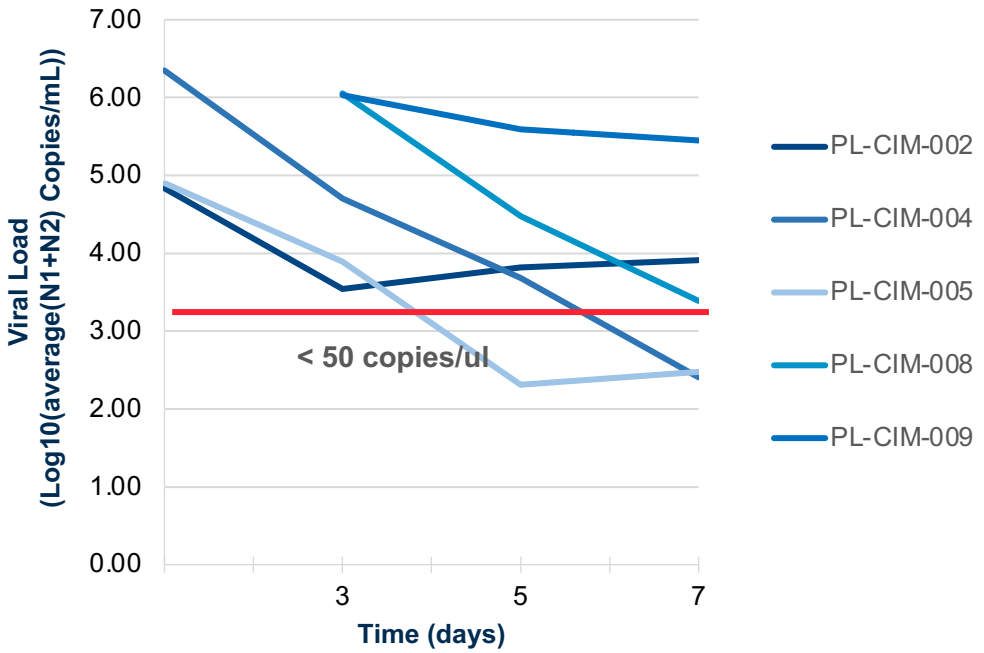
Patients Treated With Galectin Antagonist Experienced Reductions In Viral Load

Viral Load Vs. Time in Treated Patients



N1+N2 Copies/mL

Day	1	3	5	7
PL-CIM-002	137080	6970	13180	16340
PL-CIM-004	4468590	101170	9660	510
PL-CIM-005	159730	15630	410	600
PL-CIM-008	N/A	2268630	60180	4890
PL-CIM-009	N/A	2154530	783750	563430

Patient 9 appeared to be an anomaly. Additionally, Patient 8 had no PCR measurement of viral load on day 1, so day 1's PCR measurement was assumed to equal day 3's measurement.

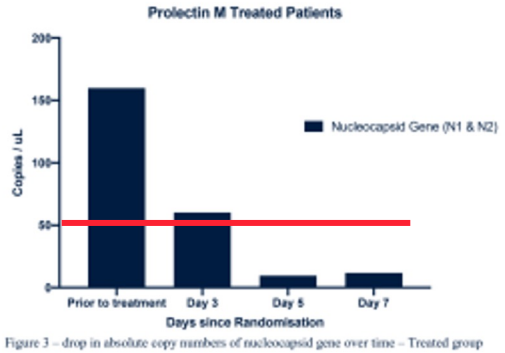


Figure 3 – drop in absolute copy numbers of nucleocapsid gene over time – Treated group

[1] Galectin Antagonist use in Mild Cases of SARS-CoV-2; Pilot Feasibility Randomised, Open Label, Controlled Trial (longdom.org)

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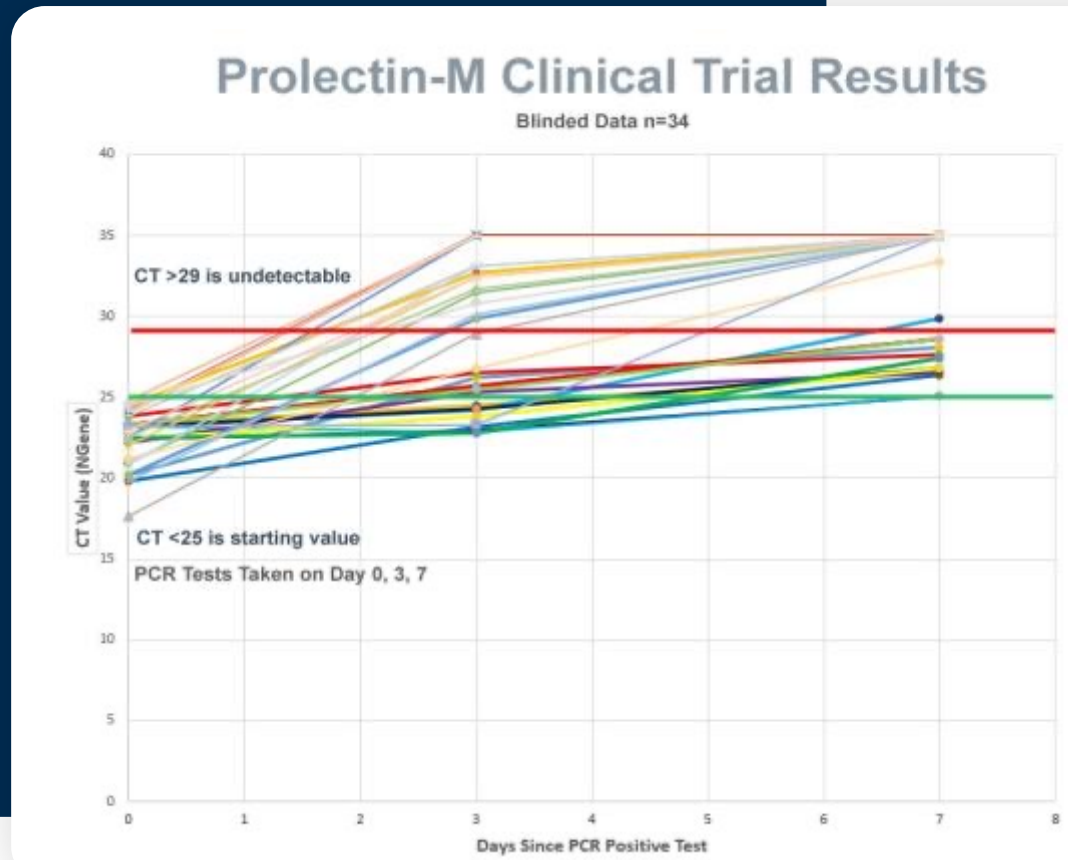
PCR Test Data (Blinded)



Cycle Threshold (Ct) values are used to assess infectivity of the patient using a nasal pharyngeal test. Lower values are a proxy for higher viral loads and increased infectivity. Values over 29 are considered PCR negative. Starting Ct values of patients were under 25.

Day 3 – 15 out of 34 were PCR negative (44.1%)
Day 7 – 18 out of 34 were PCR negative (52.9%)
n = 34
No toxicity signals
Randomized 1:1
Double Blind Placebo Controlled Trial

Very Encouraging Data Grouping and indications of efficacy with no safety signals

[1] Galectin approach to lower covid transmission - Drug Development for clinical use (medRxiv.org)

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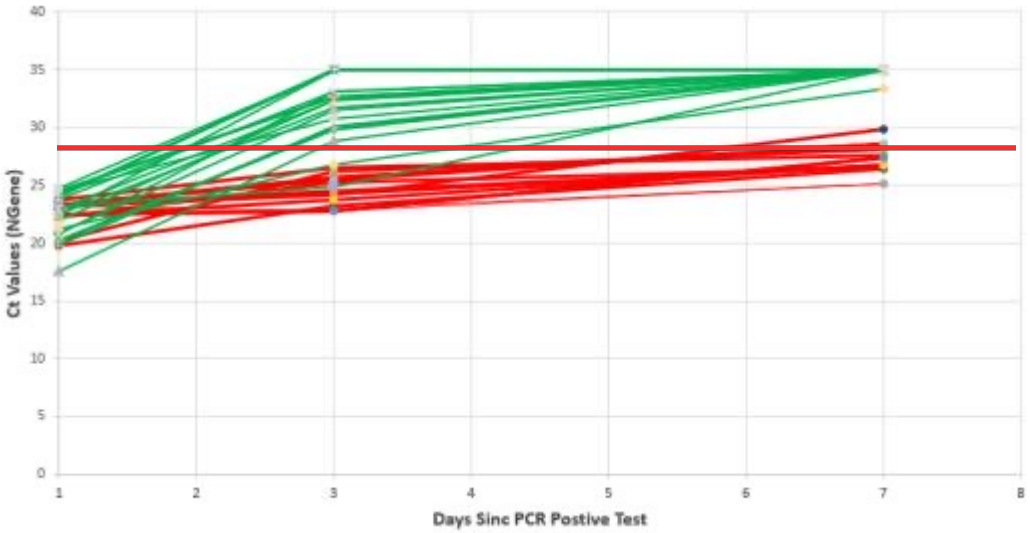
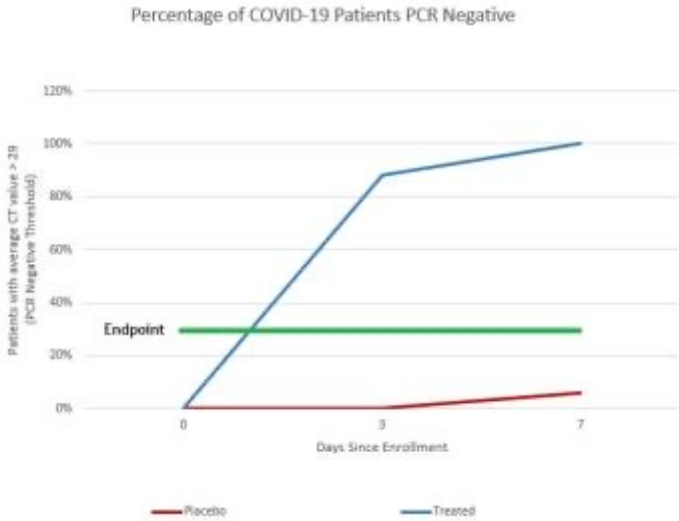
PCR Test Phase 2 Data



Day 3 – 14 out of 17 were PCR negative (**88%**)
Day 7 – 17 out of 17 were PCR negative (**100%**)
n = 34
No toxicity signals
Randomized 1:1
Double Blind Placebo Controlled Trial



Actual results show tight grouping btw treated arm and placebo arm

[1] Galectin approach to lower covid transmission - Drug Development for clinical use (medRxiv.org)

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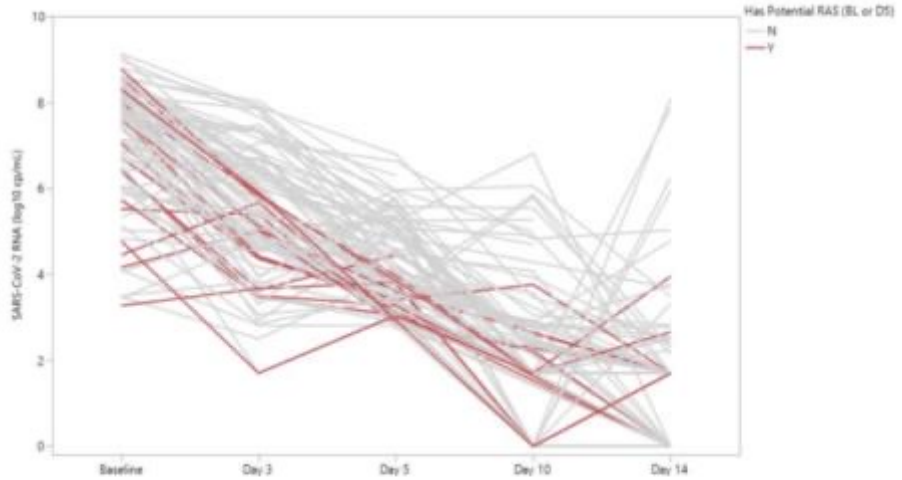
Elimination of Viral Rebound

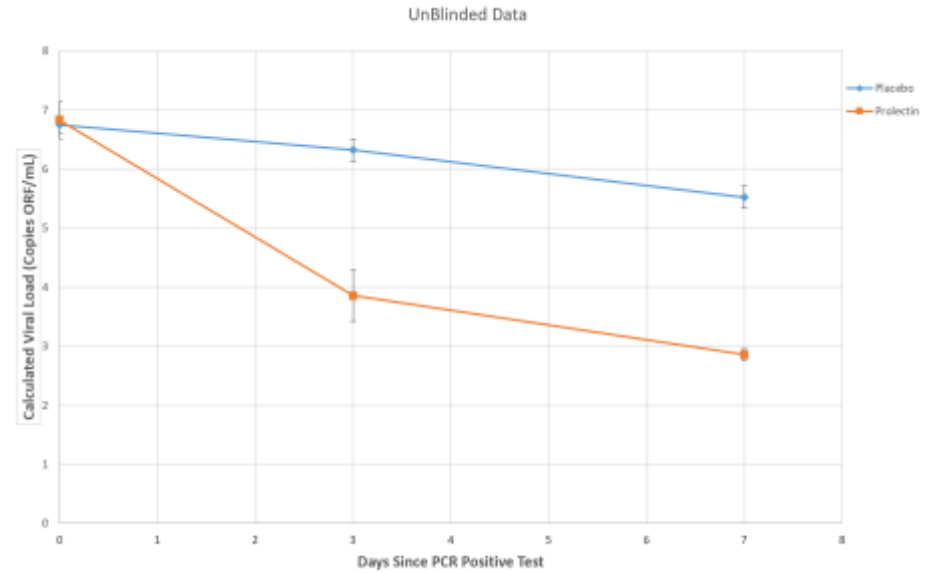
Paxlovid rebound was common after day 10



Source: FDA analysis.

Figure 2. SARS-CoV-2 RNA levels in NP swabs among Paxlovid treated subjects with or without SARS-CoV-2 amino acid substitutions detected in Mpro or cleavage site positions potentially associated with resistance.

There were no rebounds within 14 days.



[1] Galectin approach to lower covid transmission - Drug Development for clinical use (medRxiv.org)

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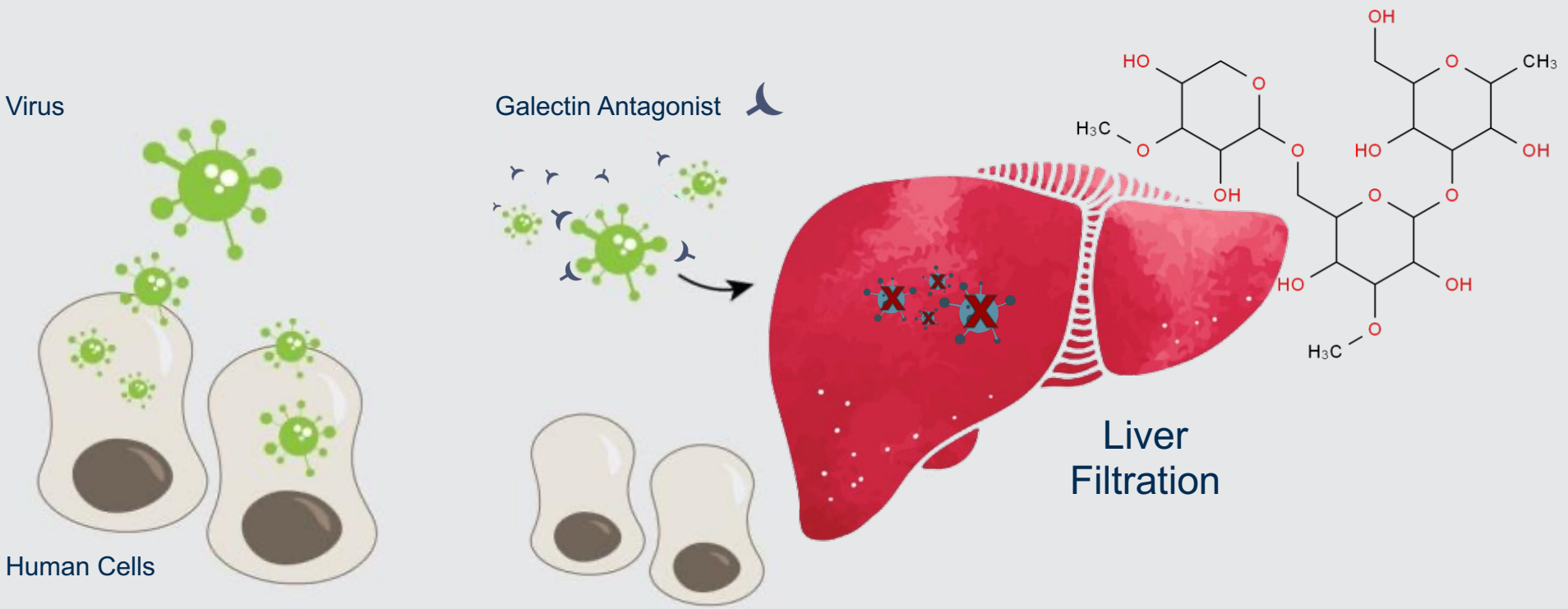
Galectin Antagonists Tags Virus For Elimination

Theoretical Mechanism of Action



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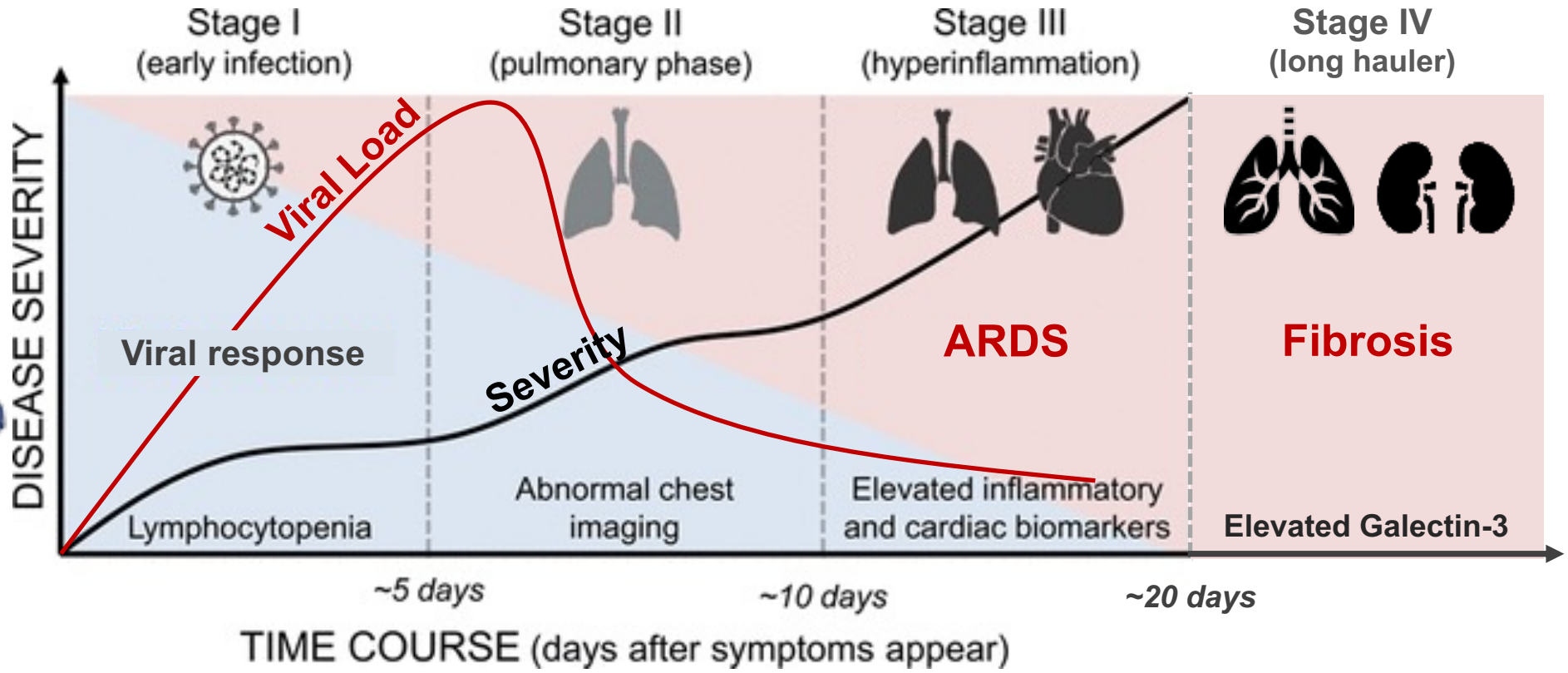
End-to-End Solution

Treatment	**ProLectin-M** Oral	**ProLectin-I** Intravenous	**ProLectin-A** Intravenous	**ProLectin-F** Intravenous
Combination				



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Glycovirology Development Pipeline

Drug & Process Development Cleared

Completed Planned

Product	Indication	Preclinical	IND Submission	Phase I	Phase II	Phase III	Phase IV
ProLectin-M *Oral*	**Virology – Mild to Moderate** • Covid-19						
ProLectin-I *Intravenous*	**Virology – Severe cases** • Covid-19 • Long Covid						
ProLectin-F *Intravenous*	**Fibrosis:** • Pulmonary Fibrosis • Other Fibrotic Conditions						
ProLectin-X *Miscellaneous*	**Other Viral Indications:** • Conjunctivitis (in progress) • Influenza (evaluation) • RSV (evaluation)						
ProLectin-A + Oxysense* *Intravenous combination treatment*	**ARDS** as result from viral infection						

**** FDA 510(k) Clearance***

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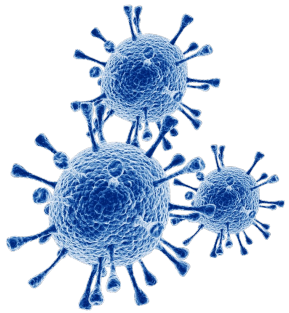
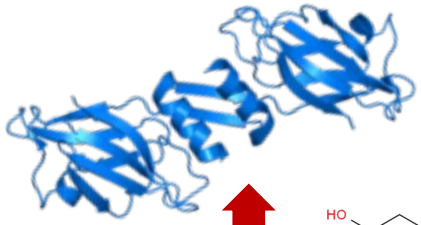
Therapeutic Approaches for COVID-19



Immunomodulatory



Antiretrovirals

(Compete for polymorphism)

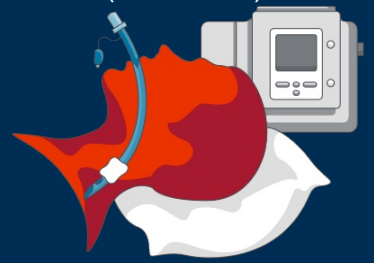
ProLectin-Rx

- Unique Galectin Antagonist – Oral/IV Polysaccharide
- It's not a vaccine, nor an antiretroviral drug

Vaccines

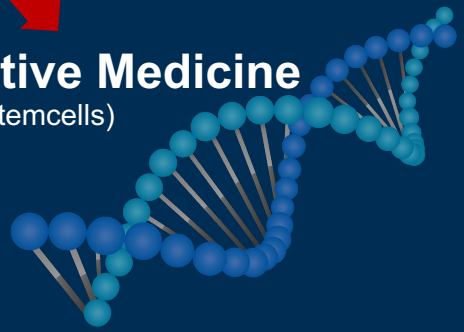
Oxygenation

(Ventilators)



Regenerative Medicine

(Stemcells)



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Competitive Landscape
Oral COVID-19 Therapeutics

Drug	Company	Description	Worldwide Sales	Clinical stage
Molnupiravir	Merck	Mutagenesis via RdRp – forced mutations induced apoptosis	$5.5 billion	EUA
Paxlovid	Pfizer	3CL protease inhibitor – Antiviral & Immune sensitization; Ritonovir – inhibitor enhancer	$20 billion	EUA
Tollovir	Todos Medical	3CL protease inhibitor – Antiviral & Anti-Cytokine activity	n/a	Phase 2/3
Tempol	Adamis	RNA-dependent RNA Polymerase (RdRp) via antioxidant & Anti-Cytokine activity	n/a	Phase 2/3
Ensovibep (intravenous)	Molecular Parnters/ Novartis	DARPin domains attach to the viral spike protein	n/a	Phase 2/3

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BXT-25 – Hypoxia & Degenerative Diseases

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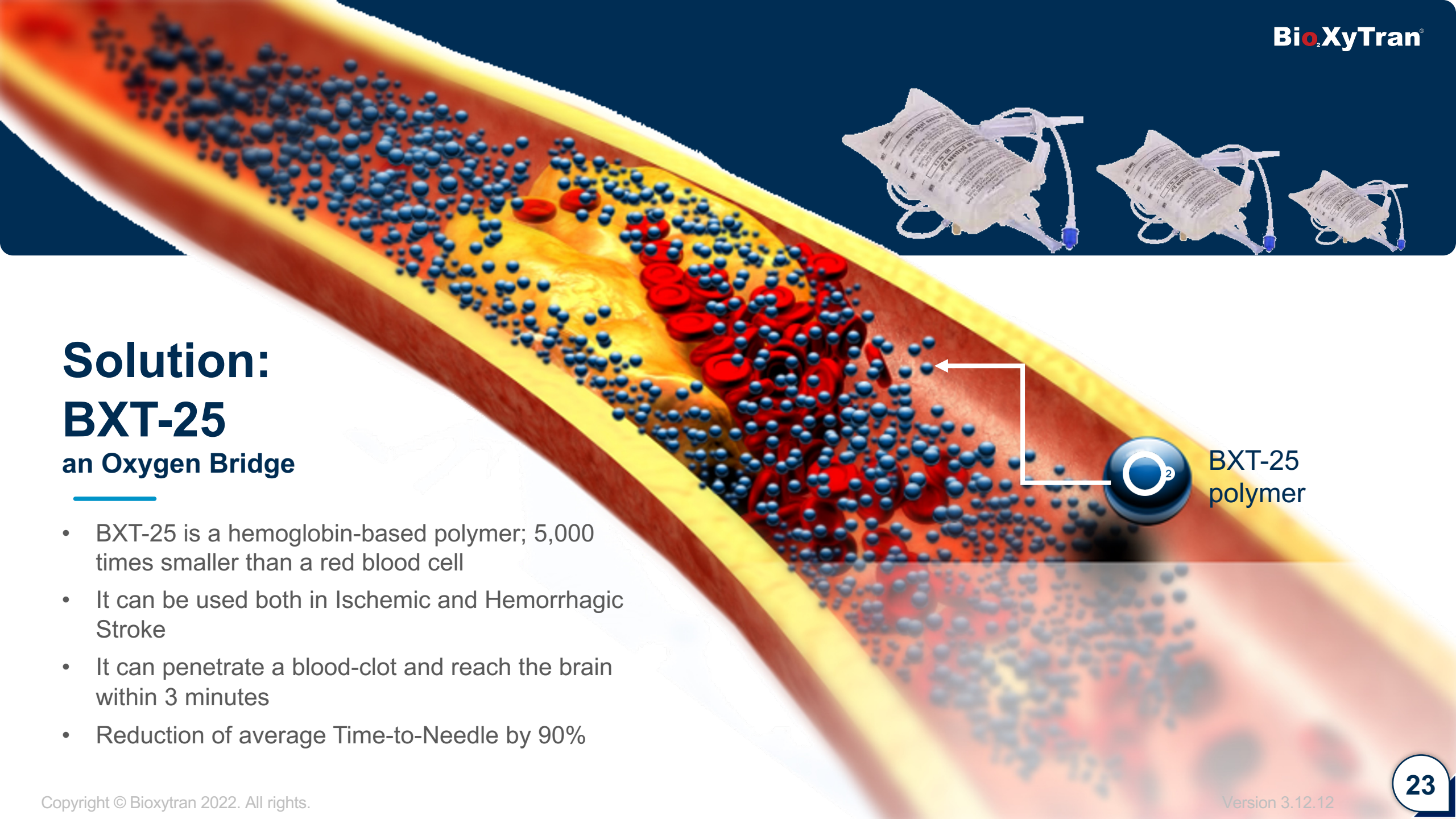

Solution:
BXT-25
an Oxygen Bridge

- BXT-25 is a hemoglobin-based polymer; 5,000 times smaller than a red blood cell
- It can be used both in Ischemic and Hemorrhagic Stroke
- It can penetrate a blood-clot and reach the brain within 3 minutes
- Reduction of average Time-to-Needle by 90%

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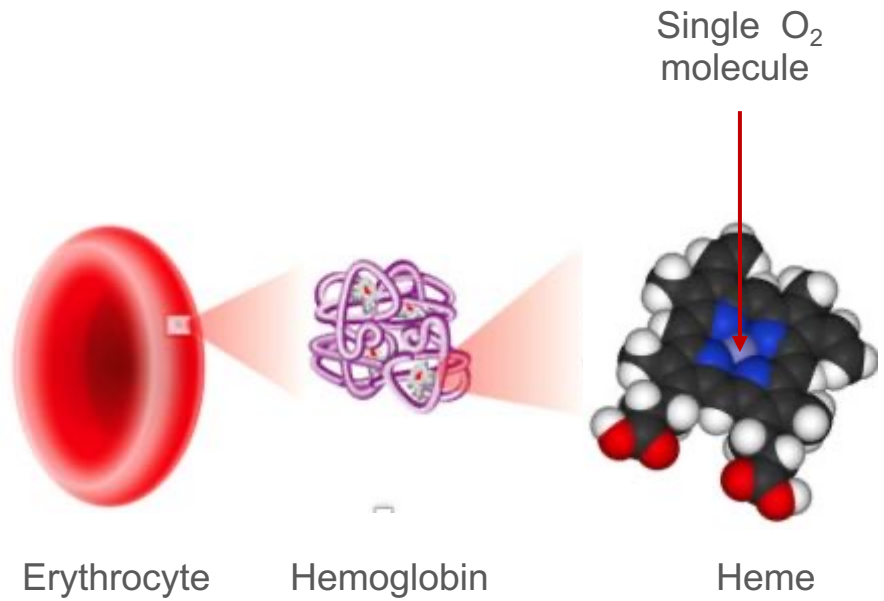
How It Works? BXT-25 – Stabilized Oxygen-carrying Protein



- Delivered as an IV solution
- Universally compatible with all blood types
- Non-immunogenic
- Low viscosity
- Stable at room temperature
- 3-year shelf-life in liquid formulation
- Extended shelf-life in dry formulation

Laboratory production-line developed & 1st batch GLP material manufactured
Developing the scale up methods & Pre-clinical trials pending

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Degenerative Disease/Hypoxia Development Pipeline

Completed Planned

Treatment/Device	Indication	Init Drug & Process Dvlp	Preclinical	Phase I	Phase II	Phase III	Phase IV
BXT-101	**Cancer Metastasis**	→	→				
BXT-102	**NASH** • Cirrhosis • Fibrosis	→	→				
BXT-251+ Oxysense	**Organ Transplantation** • Preservation agent • Organ monitoring	→	→				
BXT-25	**Stroke** • Ischemic • Hemorrhagic	→	→				
BXT-252	**Wound Healing**	→	→				
BXT-253	**Anemia**	→	→				
BXT-255	**Traumatic Brain Injury**	→	→				

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Commercialization & Targets

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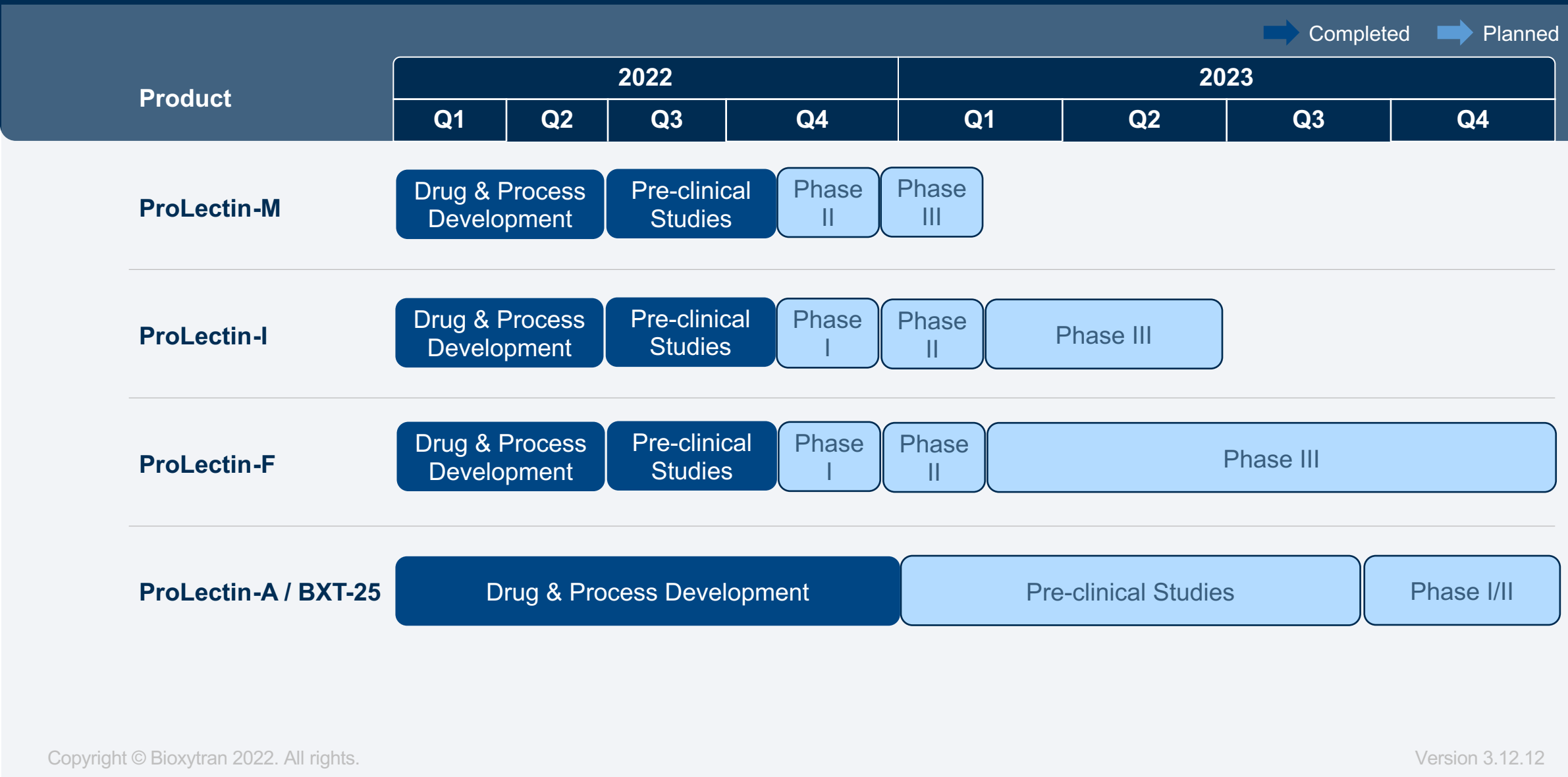
Clinical Trial Strategy



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Use of Proceeds

Current Round	ProLectin-M	ProLectin-I	ProLectin-F	ProLectin-Rx*
Estimated Project Cost in thousands USD*	$ 2,700	$ 1,650	$ 1,000	$ 5,350
Development & GMP	-	-	-	-
Pre-Clinical	100	150	150	400
IND Submission	150	200	200	550
Clinical Trials	2,000	1,000	500	3,500
G&A	450	300	150	900
End Point	**Phase III**	**Phase II**	**Phase II**	**Total**

* $5.1 million have previously been spent on proof-of-concept and GMP manufacturing of ProLectin-M, -I, and -F

Future Round	ProLectin-A	BXT-25	Total Upcoming
Estimated Project Cost in thousands USD*	$ 10,000	$ 10,000	$ 20,000
Development & GMP	3,150	3,150	6,300
Pre-Clinical	1,200	1,200	2,400
IND Submission	300	300	600
Clinical Trials	4,000	4,000	8,000
G&A	1,350	1,350	2,700
End Point	**Phase II**	**Phase II**	**Total**

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Commercialization & IP Strategy

Intellectual Property (IP)

- Three (3) issued international patents
- One (1) issued US patent
- One (1) provisional US patent
- Additional applications to strengthen our IP position are ongoing*

* Future patents to be filed at commercialization stage

- Licensing
- Partnership
- Divesting product line

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Comparables

COVID-19 Antivirals

MERCK

$425 million

Roche

$350 million

NOVARTIS

$580 million & 22% royalties

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Big Pharma Licensing Targets

THERAPEUTIC AREAS

Virology	*Oncology*	*Immunology*	*Respiratory*	*Inflammation*
Neuroscience	*Cardiovascular*	*Hematology*	*Stroke*	

IDEAL PLATFORM DRUG
FOR MANY BIG PHARMAS

- **AbbVie** – Oncology, Neuroscience, Immunology, Virology
- **Allergan** – Neuroscience, Ophthalmology, Gastroenterology
- **Amgen** – Oncology, Cardiovascular, Hematology, Inflammation
- **AstraZeneca** – Oncology, Cardiovascular, Respiratory
- **Biogen** – Oncology, Neuroscience, Inflammation, Stroke, Pain
- **Boehringer Ingelheim** – Oncology, Neuroscience, Immunology, Ophthalmology
- **Bristol Meyers Squibb** – Oncology, Immunology, Cardiovascular, Hematology, Inflammation
- **Eli Lilly** – Oncology, Neuroscience, Immunology, Diabetes, Pain
- **Gilead** – Oncology, Respiratory, Hematology, Inflammation, HIV
- **GlaxoSmithKline** – Oncology, Immunology, Respiratory, HIV, Vaccines
- **Johnson & Johnson** – Oncology, Neuroscience, Immunology, Cardiovascular, Vaccines, HIV
- **Merck** – Oncology, Neuroscience, Immunology, Cardiovascular, Respiratory, Diabetes, Vaccines
- **Novartis** – Oncology, Neuroscience, Immunology, Cardiovascular, Respiratory, Ophthalmology
- **Pfizer** – Oncology, Neuroscience, Cardiovascular, Diabetes
- **Roche Holdings** – Oncology, Neuroscience, Immunology, Hematology, Ophthalmology
- **Sanofi Aventis** – Oncology, Neuroscience, Immunology, Inflammation, Diabetes, Vaccines

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