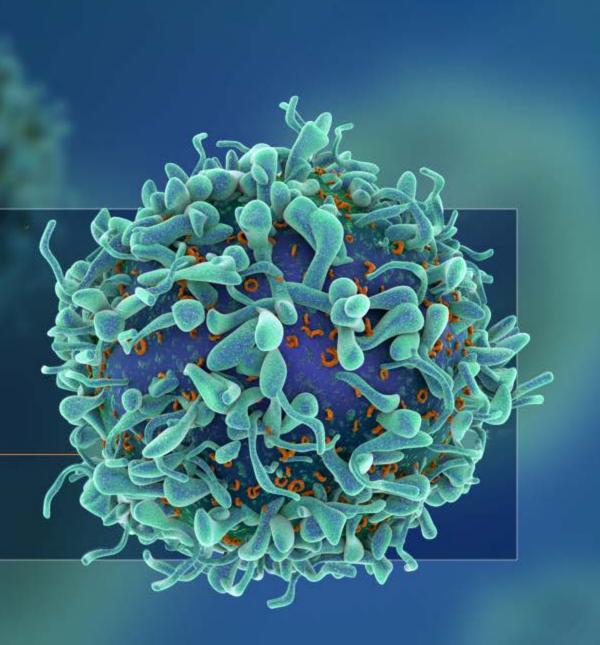


Rising to the Challenges of Rare Disease Treatment

NASDAQ: SNGX



Forward-Looking Statements

This presentation contains forward-looking statements. All statements other than statements of historical facts contained in this presentation, including statements regarding our future results of operations and financial position, business strategy, prospective products and product candidates and their development, regulatory approvals, ability to commercialize our products and product candidates and attract collaborators, reimbursement for our product candidates, research and development costs, timing and likelihood of success, plans and objectives of management for future operations, our ability to obtain and maintain intellectual property protection for our product candidates and their development, competing therapies, and future results of current and anticipated products and product candidates, are forward-looking statements. These statements involve known and unknown risks and uncertainties, such as experienced with the COVID-19 outbreak, and other important factors that may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements, many of which are disclosed in detail in our reports and other documents filed with the Securities and Exchange Commission. Because forward-looking statements are inherently subject to risks and uncertainties, some of which cannot be predicted or quantified and some of which are beyond our control, you should not rely on these forward-looking statements as predictions of future events. The events and circumstances reflected in our forward-looking statements may not be achieved or occur and actual results could differ materially from those projected in the forward-looking statements. Except as required by applicable law, we do not plan to publicly update or revise any forward-looking statements contained herein, whether as a result of any new information, future events, changed circumstances, or otherwise. Certain information contained in this presentation and statements made orally during this presentation relate to or are based on studies, publications, surveys and other data obtained from third-party sources. In addition, no independent source has evaluated the reasonableness or accuracy of Soligenix, Inc. internal estimates and no reliance should be made on any information or statements made in this presentation relating to or based on such internal estimates.

Company Description

Soligenix, Inc. is a late-stage biopharmaceutical company focused on developing and commercializing products to treat rare diseases where there is an unmet medical need

Two areas of focus:

- A Specialized BioTherapeutics segment dedicated to the development of products for orphan diseases and areas of unmet medical need in oncology and inflammation
- A Public Health Solutions segment that develops vaccines and therapeutics for military and civilian applications in the areas of ricin exposure, emerging and antibiotic resistant infectious disease, and viral disease including Ebola, Marburg and COVID-19

Investment Highlights

- Multiple products with fast track and/or orphan designation, with potential for significant commercial returns
- Phase 3 assets, one with successful data readout
 - o Cutaneous T-cell lymphoma (HyBryte™)
 - Positive statistically significant final results achieved; study complete
 - New drug application (NDA) in preparation for submission to the US Food and Drug Administration (FDA)
 - Significant commercial opportunity in area of unmet medical need; estimated global market potential \$250M
 - Pediatric Crohn's disease (SGX203)
 - Pivotal study initiation contingent upon additional funding and/or partnership
- > Strong balance sheet with cash runway into 2023; recent strategic investment by Pontifax
- > Collaborations with biotech, academia and government agencies
- > Non-dilutive government funding helps cover operating expenses
 - NIH grant awards of ~\$2.2M supporting development of vaccines for pre-exposure to infectious diseases, including CiVax[™] for COVID-19

Experienced management team and renowned advisors with record of success



Development Pipeline – Rare Diseases

Creatialized	Product Candidates	Preclinical	Phase 1	Phase 2	Phase 3	Market	
Specialized BioTherapeutic	HyBryte™ (SGX301) S Cutaneous T-Cell Lymphoma (CTCL)	ORPHAN & FAST TRACK DESIGNATION Positive primary + Cycle 2 & 3 results					
	SGX942 Oral Mucositis in Head & Neck Cancer			Evaluating full dataset; liscussing with FDA/EMA			
	<mark>SGX203</mark> Pediatric Crohn's Disease**	ORPHAN & I	AST TRACK DESI	GNATION	Initiation contin funding and/or	gent upon additional partnership*	
	SGX201 Radiation Enteritis**	FAST TRACK DESIGNATION Initiation contingent upon additional funding and/or partnership*					
Dublic Hoolth	Product Candidates (FDA Animal Rule)	Proof-of-Concept	IND	Phase 1	Phase 2/3	Market	
Public Health Solutions**	RiVax [®] + ThermoVax [®] – Vaccine Ricin Toxin Pre-Exposure	ORPHAN & FAST TRACK DESIGNATION NIH Contract Awards of \$30M to date; positive preclinical and clinical data					
	SGX943 – Therapeutic Emerging Infectious Disease	FAST TRACK		of \$900,000 to dat f of concept precli			
	<mark>CiVax™</mark> + ThermoVax® – Vaccine COVID-19		NIH Grant Award of \$1.5M to date; positive preclinical data				
	Filovirus vaccines + ThermoVax [®] Ebola/Marburg	NIH Grant Subaward of \$700,000 to date; positive preclinical data					
	Denotes funding in whole or in part by NIH, DTRA, BARDA o			d timing subject to COV ers dependent on conti		nding and/or other funding sou	urces

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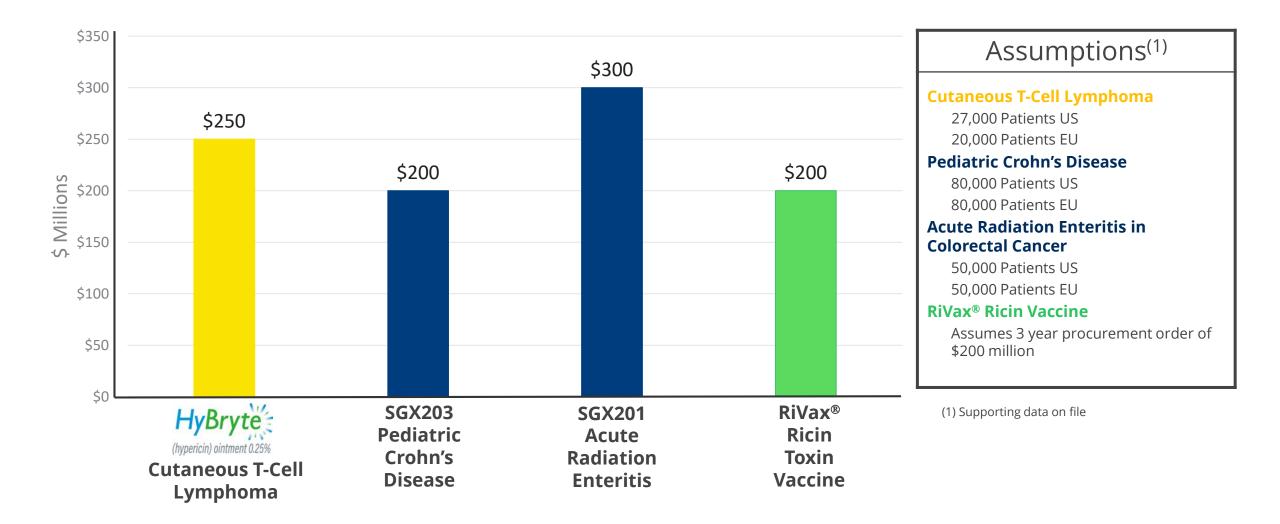
Multiple Potential Value Drivers

2020		202	1**	2	2022**		
HyBryte™*	Ph. 3 final Cycle 3 + follow-up data CTCL	AAD/SID Ph. 3 data presentations	2H: EU regulatory – (e.g., PIP/ILAP)	1H: (US) NDA submission CT			
RiVax®*	Preclinical animal data	1H: Preclinical animal data	2H: Preclinical animal data		2H: Initiate Phase 2 RiVax clinical study		
CiVax™*	\$1.5M NIH SBIR grant award	1H: CiVax preclinical data		1H: CiVax Phase clinical start	e 1 2H: CiVax Phase 1 study results		
Filovirus Vaccine*	Thermostability pub in Pharm. Sc.	1H: Filovirus preclinical data	2H: Filovirus preclinical data	1H: Filovirus preclinical dat	a		
SGX943*	Preclinical animal data	1H: Animal data (melioidosis)	2H: Animal data (tularemia)		2H: Preclinical animal (NHP) data		

Green = achieved Blue = data read-out Orange = regulatory

* Potential value drivers dependent on continued government funding and/or other funding sources ** Timelines subject to potential disruption due to COVID-19 outbreak

Total Addressable Global Market



Specialized BioTherapeutics

Targeted Approach to Treating Oncology & Inflammation

Specialized BioTherapeutics Segment

Commercial Targets – Unmet Medical Needs in Oncology and Inflammation

Specialized	Product Candidates	Preclinical	Phase 1	Phase 2	Phase 3	Market
BioTherapeutics	HyBryte™ (SGX301) Cutaneous T-Cell Lymphoma (CTCL)	ORPHAN & FAST TRACK DESIGNATION		۷	Positive primary + Cycle 2 & 3 results	
	SGX942 Oral Mucositis in Head & Neck Cancer	FAST TRACK DESIGNATION				Evaluating full dataset; discussing with FDA/EMA*
	SGX203 Pediatric Crohn's Disease**	ORPHAN & FAST TRACK DESIGNATION Initiation contingent up funding and/or partners				
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Denotes funding in whole or in part by NIH, DTRA, BARDA and/or FDA

* Anticipated event and timing subject to COVID-19 disruption ** Potential value drivers dependent on continued government funding and/or other funding sources

Cutaneous T-Cell Lymphoma – Disease Overview

Cutaneous T-cell lymphoma (CTCL)

- Rare class of Non-Hodgkin's Lymphoma (NHL)
- Malignant T-cells migrate to the skin
- o Cancer forms patches, lesions or tumors

CTCL affects over 40,000 NHL patients worldwide; currently no cure

• \$250 million total addressable global market; >\$90 million in US

> Two main subtypes of CTCL

- Mycosis fungoides (MF) Early-stage (I-IIA) most common, 88%
 5-year survival rate
- o Sézary syndrome (SS) Advanced-stage, 24% 5-year survival rate
- No approved first-line therapy for early stage (I-IIA) CTCL (~90% of CTCL patients); unmet medical need



Atypical T-cells in dermis

HyBryte™ (SGX301) – Synthetic Hypericin Ointment + Light Activation, First-in-Class





- Phase 3 data demonstrates statistically significant efficacy as early as 6 weeks with improved responses through 12 weeks (40%) and 18 weeks (49%)
 - Most early-stage CTCL treatments require *at least 12 months* to observe a statistically significant response

• Effective against patch *and* deeper plaque lesions

 Other early-stage CTCL treatments known to be useful against patches but lacking in efficacy against plaques

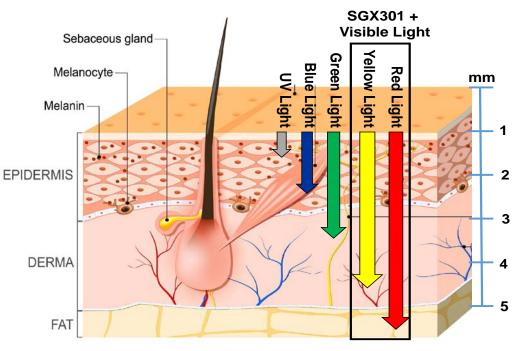
Treatment safe and well-tolerated

o Minimal reported adverse events

 Other CTCL treatments characterized by acute and chronic side effects

• Uses visible fluorescent light

Not carcinogenic unlike other UV phototherapy or photodynamic therapy



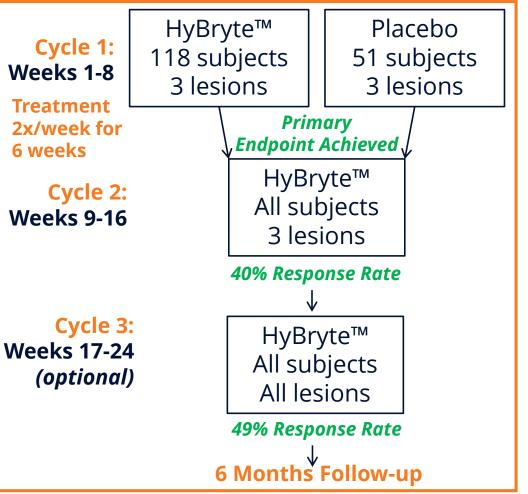
HyBryte[™] – Pivotal Phase 3 Clinical Trial

Highly powered, double-blind, placebo-controlled, randomized

- o Randomized 2:1 (HyBryte™ [synthetic hypericin 0.25%] : placebo)
- Cycle 1 complete: Primary Endpoint (response rate) statistically significant (p=0.04)
 - Primary endpoint: Percent of patients achieving ≥50% cumulative reduction as assessed by Composite Assessment of Index Lesion Severity (CAILS) score for 3 index lesions at the end Cycle 1 (week 8)
- Cycle 2 complete: Statistically significant improvement in treatment response of 40% (p<0.0001)
- Statistically significant improvement in *BOTH patch and plaque lesion responses* after Cycle 2
 - Plaque: 42% improvement (p<0.0001)
 - Patch: 37% improvement (p=0.0009)
- Optional Cycle 3 complete: Statistically significant improvement in treatment response of 49% (p<0.0001)

Secondary Endpoints

• Treatment response (including duration), degree of improvement, time to relapse and safety



Phototherapy a mainstay treatment of early stage CTCL



Patient applies topical synthetic hypericin ointment at home 18-24 hours prior to visiting office for light therapy Visible non-UV light therapy administered for about 7 minutes on average 2x week by physician or nurse technician in office

- Treating dermatologists are experienced administering phototherapy
- Approximately 80% of community dermatology practices have light units available
- 100% of the ~50 US CTCL clinics currently administer UV phototherapy, despite UV not being approved for CTCL
- ≻ HyBryte[™] utilization has potential to grow significantly with transition to home use, which is part of commercial strategy
- Many examples of successful dermatology phototherapy combination products (Levulan+Blu-U, Uvadex+Therakos, Metvixia-PDT)

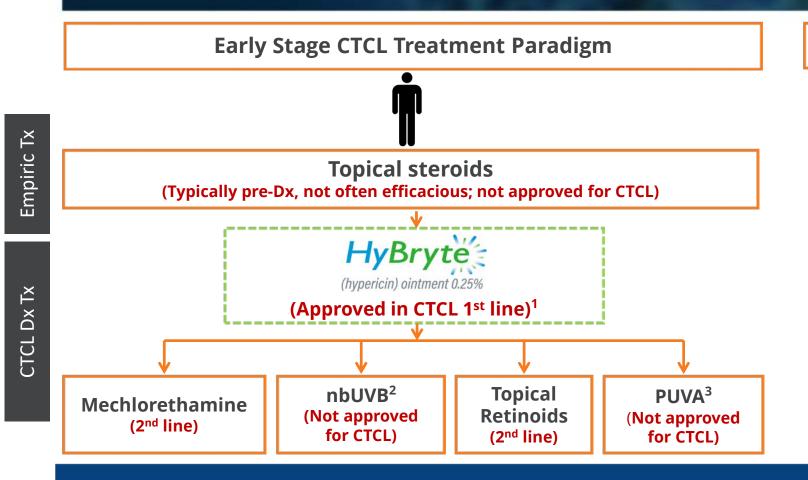
"I trained in '90s, and some of my mentors ... used [UV] light therapy without thinking twice; now you are exchanging [CTCL], a disease that will not harm you, for [skin cancers and melanoma], something that is not only disfiguring but also a more life-threatening disease." — Specialist Dermatologist

Source: Soligenix primary market research

Dermatologist KOLs play pivotal role in treatment of early stage CTCL

- Most CTCL patients who go to a Key Opinion Leader (KOL) for diagnosis will remain with that KOL for their care and treatment
- For those that return to their referring physician (typically for logistical reasons or travel distances), the KOL remains involved and directs care through the local dermatologist
- There is a subset of community dermatologists who treat CTCL and are comfortable in their diagnostic and therapeutic decision-making abilities
- Majority of US CTCL KOLs participated in the execution and success of the pivotal Phase 3 clinical trial; eager to support HyBryte[™] moving forward

Significant opportunity for improvement to current treatment paradigm in early stage CTCL



Current Treatment Landscape

- Because of chronic nature of early stage CTCL and long-term treatment cycles, clinicians choose therapies with better safety profiles first and foremost
- Clinicians see critical need for additional treatment options with fewer side effects
- NB UVB and PUVA are not targeted therapies and have serious side effects with extended use (e.g., melanoma)
- NB UVB is used on 20%-50% of early-stage CTCL patients, despite not being approved

"[We] only have two FDA approved drugs with lots of side effects." — Specialist Dermatologist at Center of Excellence

Source: Soligenix primary market research

1 = Subject to FDA approval. 2 = Narrow Band Ultra Violet B light therapy. 3 = Psoralen + Ultra Violet A light therapy

Advantages to commercializing CTCL in the US: smaller sales force and market access support



- Planned launch focused on high volume specialists and their referral base in the community
- Likely sales force deployment of ~20 reps; reaching >80% of high volume prescribers
- Pre-launch costs of ~\$7M with projected annual marketing and sales costs of <\$10M

- Payers are likely to cover the drug and light treatment if shown to be safe and efficacious
 - CTCL treatment does not have a large financial impact on payers and we anticipate low/no barriers to access
 - HyBryte[™] light treatment will likely be reimbursed under a CPT code
 - KOLs and patient advocacy organizations will likely support coverage

HyBryte[™] a Significant Near Term Commercial Opportunity Addressing a Clear Unmet Need

	Unmet Need	 Clinicians see need for additional treatment options with fewer side effects Most patients cycle through several treatments over course of their disease Chronic nature of early stage CTCL and dissatisfaction with current therapies provides opportunity for HyBryte[™] 	HyBryte
	Positive Feedback	 Derms like <i>efficacy</i> of HyBryte[™]; rapid response with equal effect on both patches and plaques Derms like <i>safety</i> of HyBryte[™]; use of safe, visible light vs. UV light exposure 4 of 5 Derms likely to prescribe HyBryte[™] 	(hypericin) ointment 0.25%
	Efficient Commercialization	 Planned launch focused on high volume CTCL specialists Targeted sales force of ~20 reps; reaching >80% of high volume prescribers Partnership with medical device company, Daavlin, allows convenient end-to- end business solution for companion light unit to customers 	US Annual Net Sales
Source: Soligenix p	Sales Potential	 Anticipated US launch in 2023 Estimated US peak annual sales of >\$90M; with life cycle management upside Competing 2nd line products with inferior profiles have achieved similar sales 	

Public Health Solutions

Addressing Critical Concerns for Industry and Government

Public Health Solutions Segment

Funded by Government – Medical Countermeasures (MCMs) for Civilian and Military Use

Public Health	Product Candidates (FDA Animal Rule)	Proof-of-Concept	IND	Phase 1	Phase 2/3	Market	
Solutions**	RiVax [®] + ThermoVax [®] – Vaccine Ricin Toxin Pre-Exposure	ORPHAN & FAST TRACK DESIGNATION			NIH Contract Awards of \$30M to date; positive preclinical and clinical data		
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	Depotes funding in whole or in part by NULL DTDA	RARDA and/or EDA */	Inticipated event and	timing subiect to COV	/ID-19 disruption		

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With FDA MCM approval, potential to be awarded:

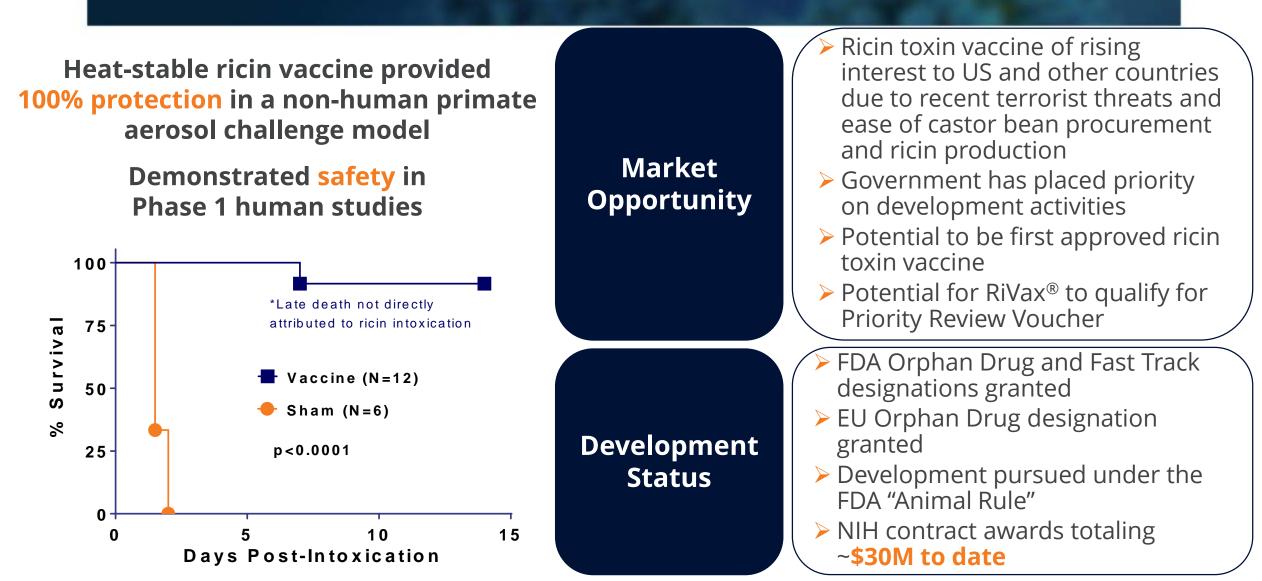
> Biodefense Priority Review Voucher

to be used for future programs or sold, and/or

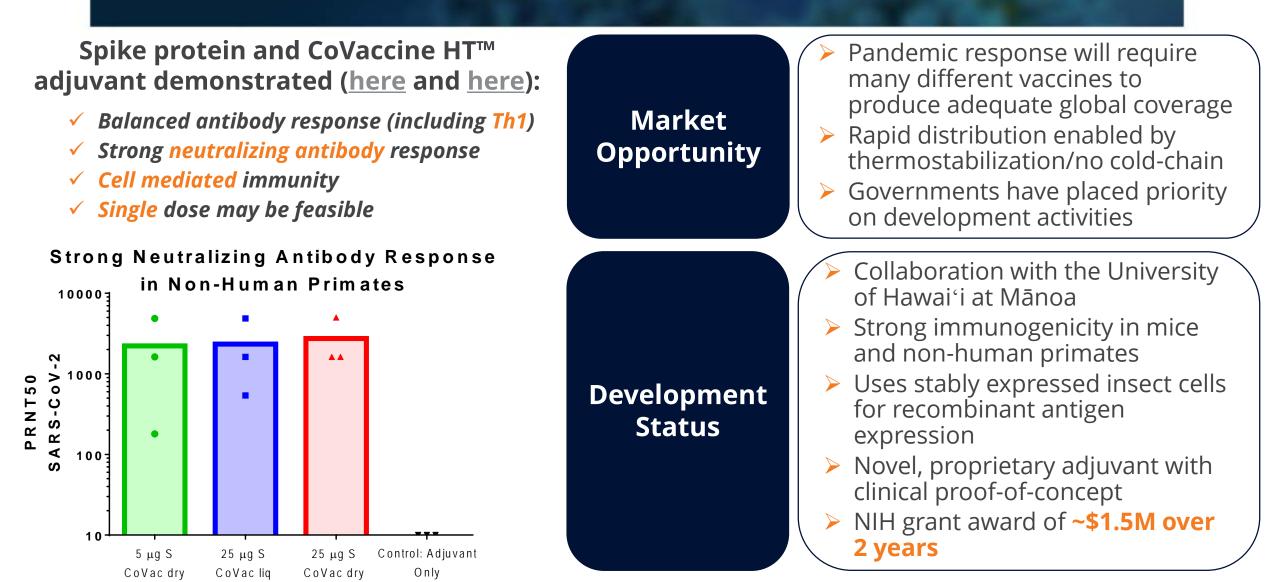
> Government Procurement Contract

for supplying strategic national stockpile

RiVax[®] – Ricin Toxin Vaccine Candidate



CiVax[™] – COVID-19 Vaccine Candidate



Experienced Management and Board of Directors

Christopher J. Schaber, PhD Chairman,	Schaber, PhD• Acute Therapeutics (Co-Founder)CPA, MBA		 25 years of experience Cerium Pharmaceuticals (CEO) Formerly of Sigma-Tau Pharmaceuticals, AstenJohnson, PricewaterhouseCoopers
President & CEO	 The Liposome Company Wyeth Ayerst 35 years of experience 	Diane Parks	 30 years of experience Formerly of Kite Pharma, Pharmacyclics, Amgen, Genentech
Richard Straube, MD Chief Medical Officer	 Stealth Peptides Inc. INO Therapeutics Ohmeda Pharmaceuticals Centocor 	Robert Rubin, MD	 36 years of experience The Lewin Group Georgetown School of Medicine Former Assistant Surgeon General of the
Oreola Donini, PhD Chief Scientific Officer	 20 years of experience Inimex Pharmaceuticals ESSA Pharma, Inc. Kinetek Pharmaceuticals 	Jerome Zeldis, MD, PhD	 United States 35 years of experience Sorrento Therapeutics (CMO) Formerly of Celgene Corporation (CMO),
Jonathan Guarino, CPA, CGMA Chief Financial Officer	 22 years of experience Hepion Pharmaceuticals, Inc. Covance, Inc. BlackRock, Inc. Barnes & Noble, Inc. PricewaterhouseCoopers LLP 		Sandoz, Janssen Research Institute

In Summary

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HyBryte

(hypericin) ointment 0.25%

Thank you



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