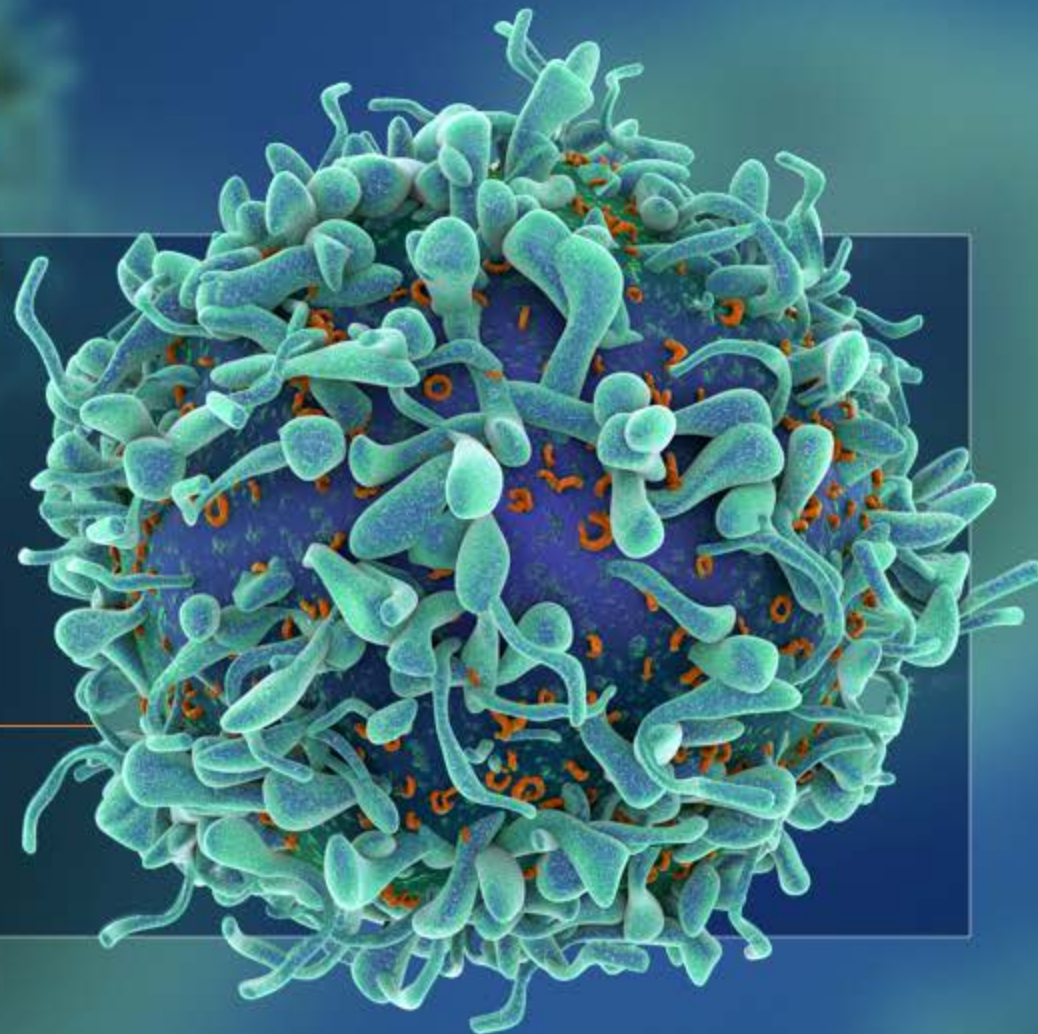




Rising to the Challenges of Rare Disease Treatment

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**
 - **Cutaneous T-cell lymphoma (SGX301)**
 - **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 2022; recent strategic investment by Pontifax**
- **Collaborations with biotech, academia and government agencies**
- **Non-dilutive government funding helps cover operating expenses**
 - NIH contract award of ~\$21.2M supporting development of RiVax® for pre-exposure to ricin toxin
 - Potential to receive biodefense priority review voucher with US FDA approval
 - 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

Specialized BioTherapeutics

Product Candidates	Preclinical	Phase 1	Phase 2	Phase 3	Market
SGX301 Cutaneous T-Cell Lymphoma (CTCL)	ORPHAN & FAST TRACK DESIGNATION				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 upon additional funding and/or partnership*
SGX201 Radiation Enteritis**	FAST TRACK DESIGNATION				Initiation contingent upon additional funding and/or partnership*

Public Health Solutions**

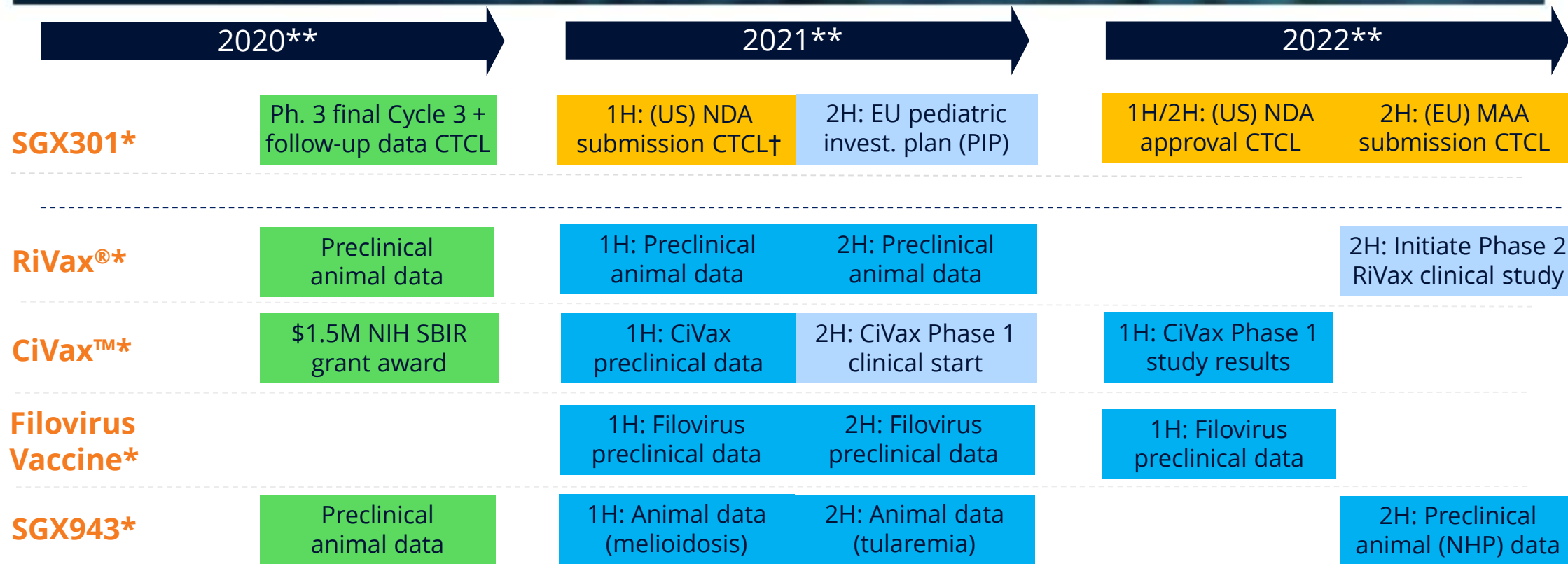
Product Candidates (FDA Animal Rule)	Proof-of-Concept	IND	Phase 1	Phase 2/3	Market
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■ Denotes funding in whole or in part by NIH, DTRA, BARDA and/or FDA

* Anticipated event and timing subject to COVID-19 disruption

** Potential value drivers dependent on continued government funding and/or other funding sources

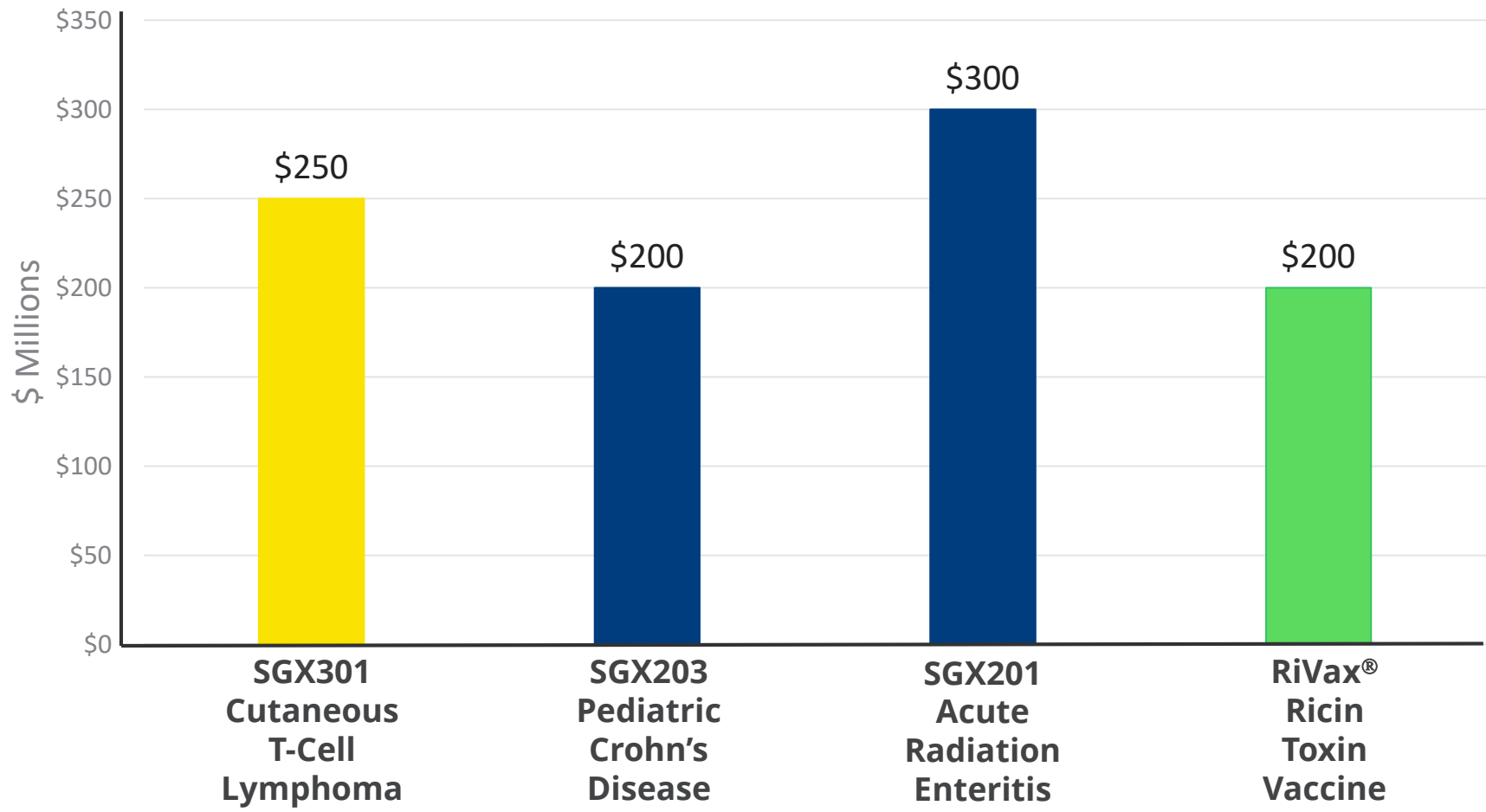
Multiple Potential Value Drivers



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
 † Rolling NDA timeline subject to FDA agreement

Total Addressable Global Market



Assumptions⁽¹⁾

- Cutaneous T-Cell Lymphoma**
 - 27,000 Patients US
 - 20,000 Patients EU
- Pediatric Crohn's Disease**
 - 80,000 Patients US
 - 80,000 Patients EU
- Acute Radiation Enteritis in Colorectal Cancer**
 - 50,000 Patients US
 - 50,000 Patients EU
- RiVax® Ricin Vaccine**
 - Assumes 3 year procurement order of \$200 million

(1) Supporting data on file

Specialized BioTherapeutics

Targeted Approach to Treating Oncology & Inflammation

Specialized BioTherapeutics Segment

Commercial Targets – Unmet Medical Needs in Oncology and Inflammation

Specialized BioTherapeutics

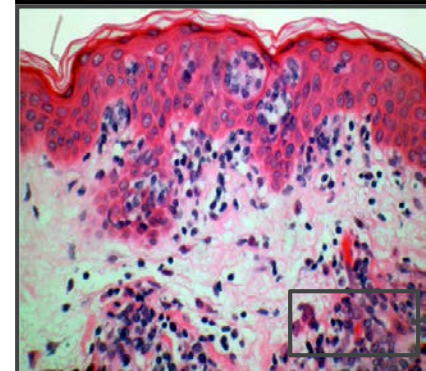
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Cutaneous T-Cell Lymphoma – Disease Overview

- **Cutaneous T-cell lymphoma (CTCL)**
 - Rare class of Non-Hodgkin's Lymphoma (NHL)
 - Malignant T-cells migrate to the skin
 - 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
 - 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

SGX301 – Synthetic Hypericin Ointment + Light Activation, a First-in-Class Therapy



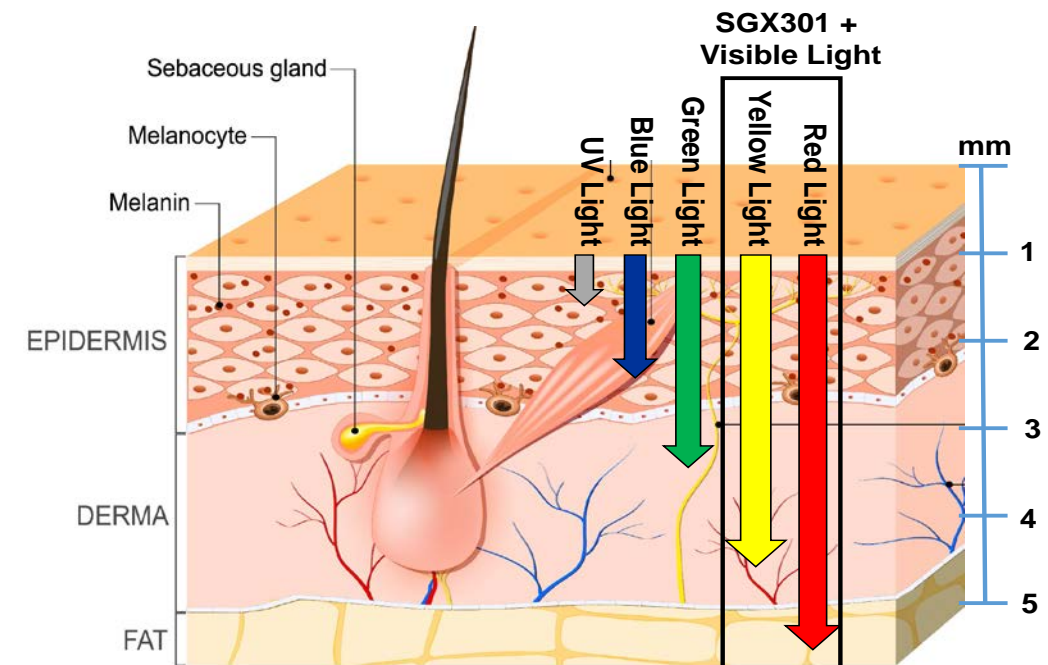
➤ Treatment safe and well-tolerated

- **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

➤ US/EU orphan designations; US fast track status

➤ Rapid treatment response

- Phase 3 data demonstrates **statistically significant efficacy as early as 6 weeks** with improved responses through 12 weeks (40%) and 18 weeks (49%)
 - Most CTCL treatments require *at least 12 months* to observe a statistically significant response
- **Effective against patch and deeper plaque lesions**
 - Other CTCL treatments known to be useful against patches but lacking in efficacy against plaques



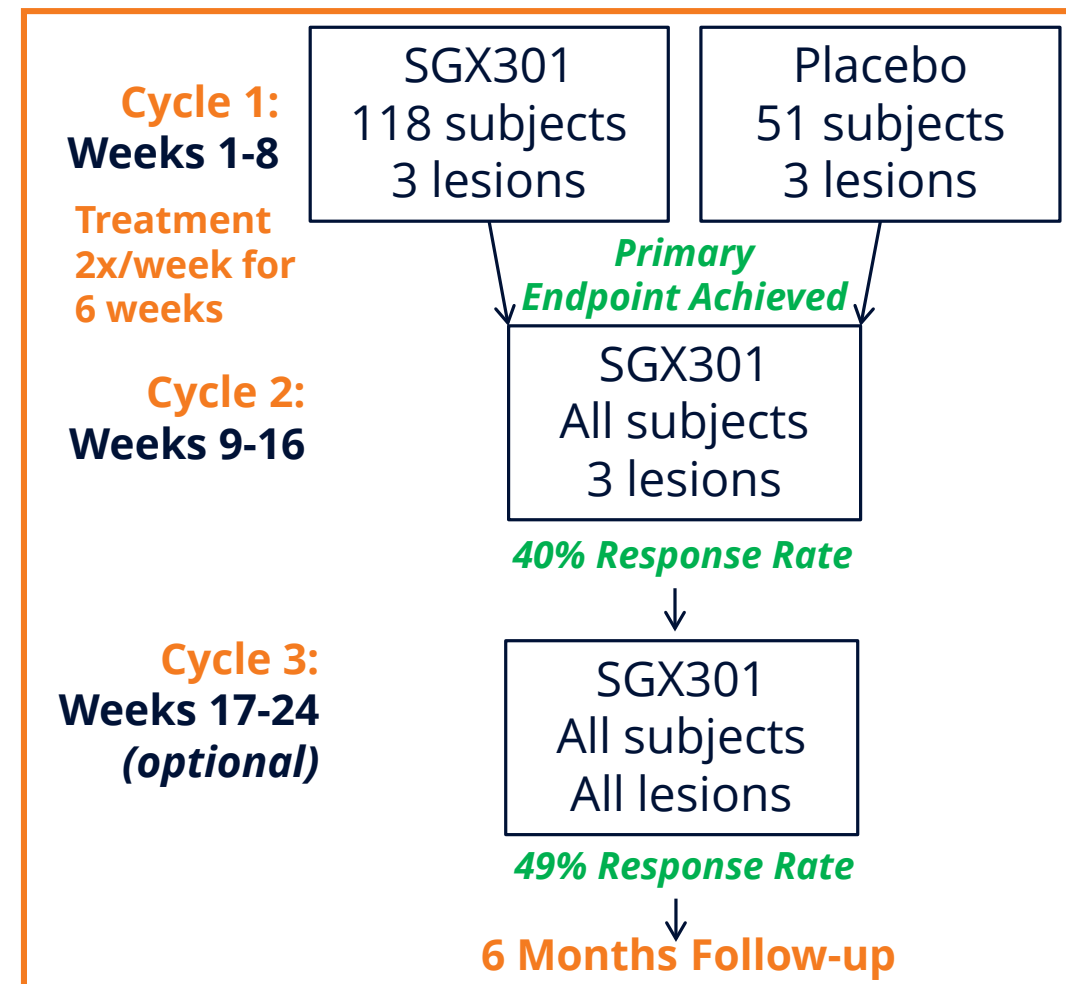
SGX301 – Pivotal Phase 3 Clinical Trial

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

- Randomized 2:1 (SGX301 [synthetic hypericin 0.25%] : placebo)
- **Cycle 1 complete: Primary Endpoint statistically significant (p=0.04)**
 - **Primary endpoint:** Percent of patients achieving $\geq 50\%$ cumulative reduction as assessed by Composite Assessment of Index Lesion Severity (CAILS) score for 3 index lesions at the end of each Cycle (weeks 8, 16, 24)
- **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

SGX301 Treatment Regimen



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 4-7 minutes 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
- SGX301 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

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 SGX301 moving forward

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

Early Stage CTCL Treatment Paradigm



Topical steroids

(Typically pre-Dx, not often efficacious; not approved for CTCL)

SGX301

(Approved in CTCL 1st line)¹

Mechlorethamine
(2nd line)

nbUVB²
(Not approved
for CTCL)

Topical
Retinoids
(2nd line)

PUVA³
(Not approved
for 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

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



➤ A concentrated prescriber base allows for an efficient sales force footprint

- 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
- SGX301 light treatment will likely be reimbursed under a CPT code
- KOLs and patient advocacy organizations will likely support coverage

SGX301 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 SGX301



Positive Feedback

- Derms like *efficacy* of SGX301; rapid response with equal effect on both patches and plaques
- Derms like *safety* of SGX301; use of safe, visible light vs. UV light exposure
- 4 of 5 Derms likely to prescribe SGX301



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



Sales Potential

- Anticipated US launch 2H 2022
- Estimated US peak annual sales of >\$90M; with life cycle management upside
- Competing 2nd line products with inferior profiles have achieved similar sales

>\$90M
US Annual
Net 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 Solutions**

Product Candidates (FDA Animal Rule)	Proof-of-Concept	IND	Phase 1	Phase 2/3	Market
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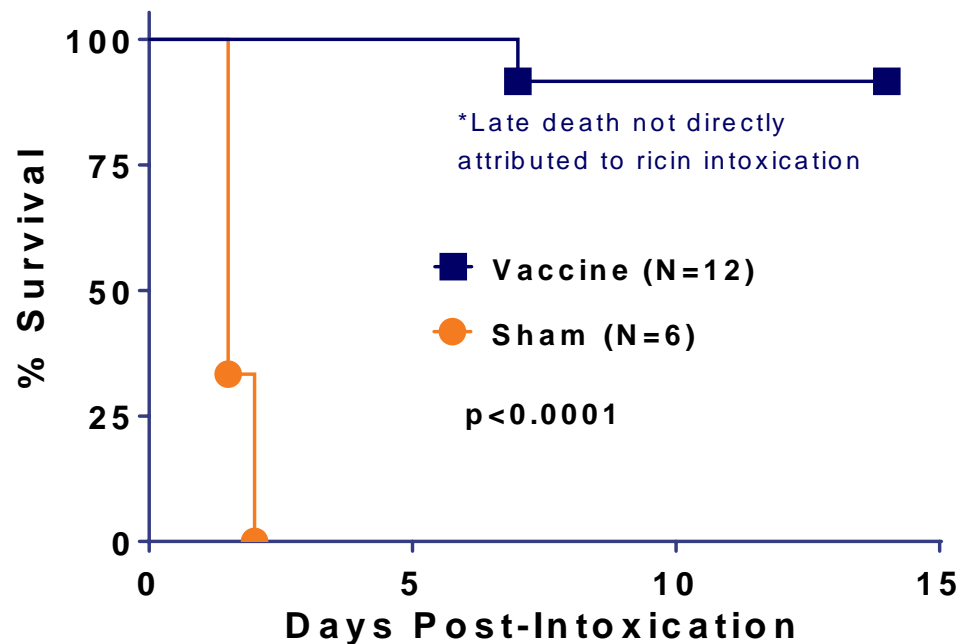
With FDA MCM approval, potential to be awarded:

- **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

Heat-stable ricin vaccine provided **100% protection** in a non-human primate aerosol challenge model

Demonstrated **safety** in Phase 1 human studies



Market Opportunity

- Ricin toxin vaccine of rising interest to US and other countries due to recent terrorist threats and ease of castor bean procurement and ricin production
- Government has placed priority on development activities
- Potential to be first approved ricin toxin vaccine
- Potential for RiVax[®] to qualify for Priority Review Voucher

Development Status

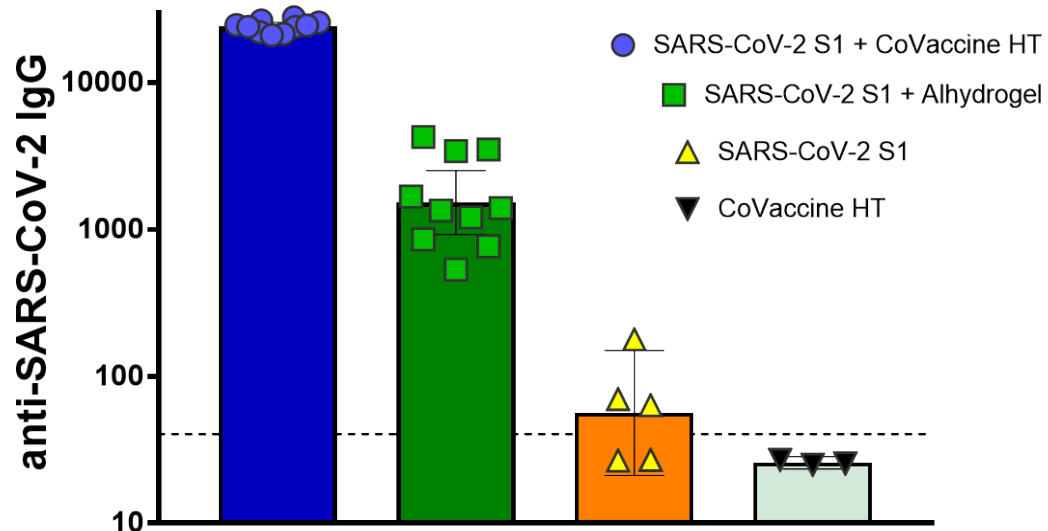
- FDA Orphan Drug and Fast Track designations granted
- EU Orphan Drug designation granted
- Development pursued under the FDA "Animal Rule"
- NIH contract award of **~\$21.2M over 6 years**

CiVax™ – COVID-19 Vaccine Candidate

Proof of concept (POC) study with S1 Spike protein and CoVaccine HT™ adjuvant demonstrated ([here](#)):

- ✓ *Balanced antibody response (including Th1)*
- ✓ *Strong **neutralizing antibody** response*
- ✓ ***Cell mediated** immunity*
- ✓ ***Single dose** may be feasible*

Mouse immunogenicity (single dose)



Market Opportunity

- Pandemic response will require many different vaccines to produce adequate global coverage
Rapid distribution enabled by thermostabilization/no cold-chain
- Governments have placed priority on development activities

Development Status

- Collaboration with the University of Hawai‘i at Mānoa
- POC data in mice with different Spike protein antigens
- Uses stably expressed insect cells for recombinant antigen expression
- Novel, proprietary adjuvant with clinical POC
- NIH grant award of **~\$1.5M over 2 years**

Experienced Management and Board of Directors

<p>Christopher J. Schaber, PhD Chairman, President & CEO</p>	<ul style="list-style-type: none"> • 30 years of experience • Discovery Laboratories (COO) • Acute Therapeutics (Co-Founder) • Ohmeda Pharmaceuticals • The Liposome Company • Wyeth Ayerst 	<p>Gregg Lapointe, CPA, MBA</p>	<ul style="list-style-type: none"> • 25 years of experience • Cerium Pharmaceuticals (CEO) • Formerly of Sigma-Tau Pharmaceuticals, AstenJohnson, PricewaterhouseCoopers
<p>Richard Straube, MD Chief Medical Officer</p>	<ul style="list-style-type: none"> • 35 years of experience • Stealth Peptides Inc. • INO Therapeutics • Ohmeda Pharmaceuticals • Centocor 	<p>Diane Parks</p>	<ul style="list-style-type: none"> • 30 years of experience • Formerly of Kite Pharma, Pharmacyclics, Amgen, Genentech
<p>Oreola Donini, PhD Chief Scientific Officer</p>	<ul style="list-style-type: none"> • 20 years of experience • Inimex Pharmaceuticals • ESSA Pharma, Inc. • Kinetek Pharmaceuticals 	<p>Robert Rubin, MD</p>	<ul style="list-style-type: none"> • 36 years of experience • The Lewin Group • Georgetown School of Medicine • Former Assistant Surgeon General of the United States
<p>Jonathan Guarino, CPA, CGMA Chief Financial Officer</p>	<ul style="list-style-type: none"> • 22 years of experience • Hepion Pharmaceuticals, Inc. • Covance, Inc. • BlackRock, Inc. • Barnes & Noble, Inc. • PricewaterhouseCoopers LLP 	<p>Jerome Zeldis, MD, PhD</p>	<ul style="list-style-type: none"> • 35 years of experience • Sorrento Therapeutics (CMO) • Formerly of Celgene Corporation (CMO), Sandoz, Janssen Research Institute

In Summary

- **Multiple products with fast track and/or orphan designation, with potential for significant commercial returns**
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Thank you



www.soligenix.com

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