



Generating Hope for Rare Disease & Oncology Patients

November 2022

Non-Confidential

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The Spexis Proposition:

Life-changing macrocycle therapeutics for rare disease and oncology patients



Macrocycle focus:

- Extensive macrocycle platform with both peptidic & non-peptidic libraries
- 3 clinical-stage products discovered in-house thus far
- Lead asset ColiFin®: approved (in EU), US Phase 3-ready, also a macrocycle
- Significant molecular glue & protein degrader potential



Early & late-stage cystic fibrosis (CF) pipeline:

Funded and supported by the CF Foundation & IMI



ColiFin®:

- Lead candidate for CF
- EU approved; U.S. Phase 3 ready
- \$250M+ projected peak CF sales

1 in-house

Inhaled Murepavadin:

- 9 i.v. clinical trials in ~290 subjects to date
- Inhaled candidate in Phase 1 CF trial
- Data in Q4 2022

2 in-house

Balixafortide:

- 8 clinical trials in >500 subjects to date
- under evaluation for possible next clinical trials

3 in-house

Lonodelestat:

- Phase 2 ready
- Out-licensed to Santhera



Excellent value growth potential:

- Lead asset highly de-risked
- Multiple other clinical shots-on-goal
- Cutting-edge macrocycle platform
- Company trading at significant discount to >\$400M invested to date

Spexis' Focus on Macrocycles

Broadly applicable, large clinical data set, partner validated

Macrocycles

- Can target **difficult-to-drug extra- and intracellular structures**
- **Offer unique drug-like profiles** incl. favorable PK/PD parameters, improved oral bioavailability, enhanced metabolic stability and cell permeability¹
- Since 2014, **19 macrocyclic structures approved by FDA**¹

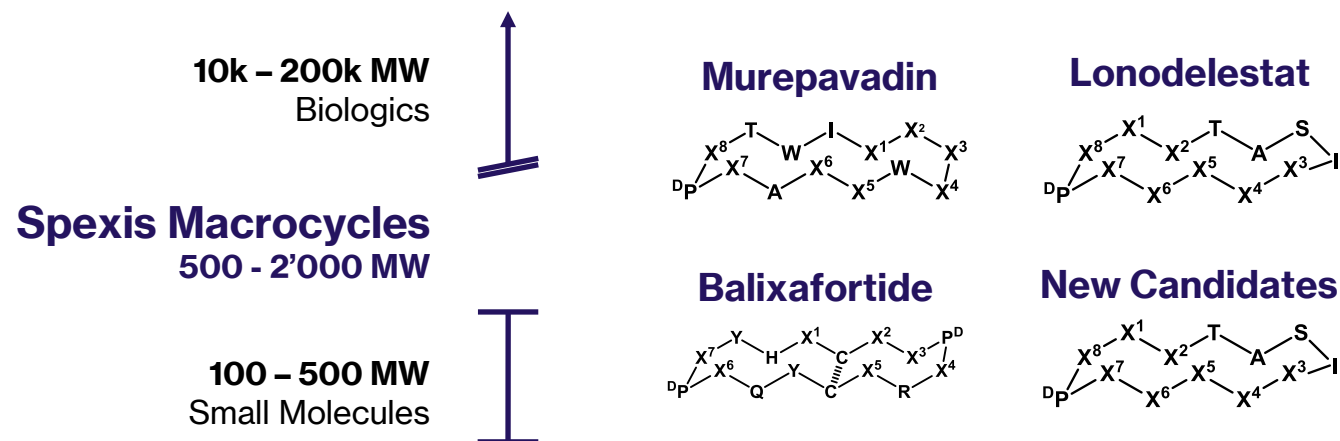
Extensive peptidic & non-peptidic libraries, databases & IP

Will fuel pipeline and generate partnering opportunities

- **2 in-house candidates progressed through P3 thus far; additional 1 (ColiFin®) in-licensed & P3-ready**
- Additional candidate out-partnered & entering P2
- Validated by multiple prior **pharma collaborations**

FOSUN
PHARMA

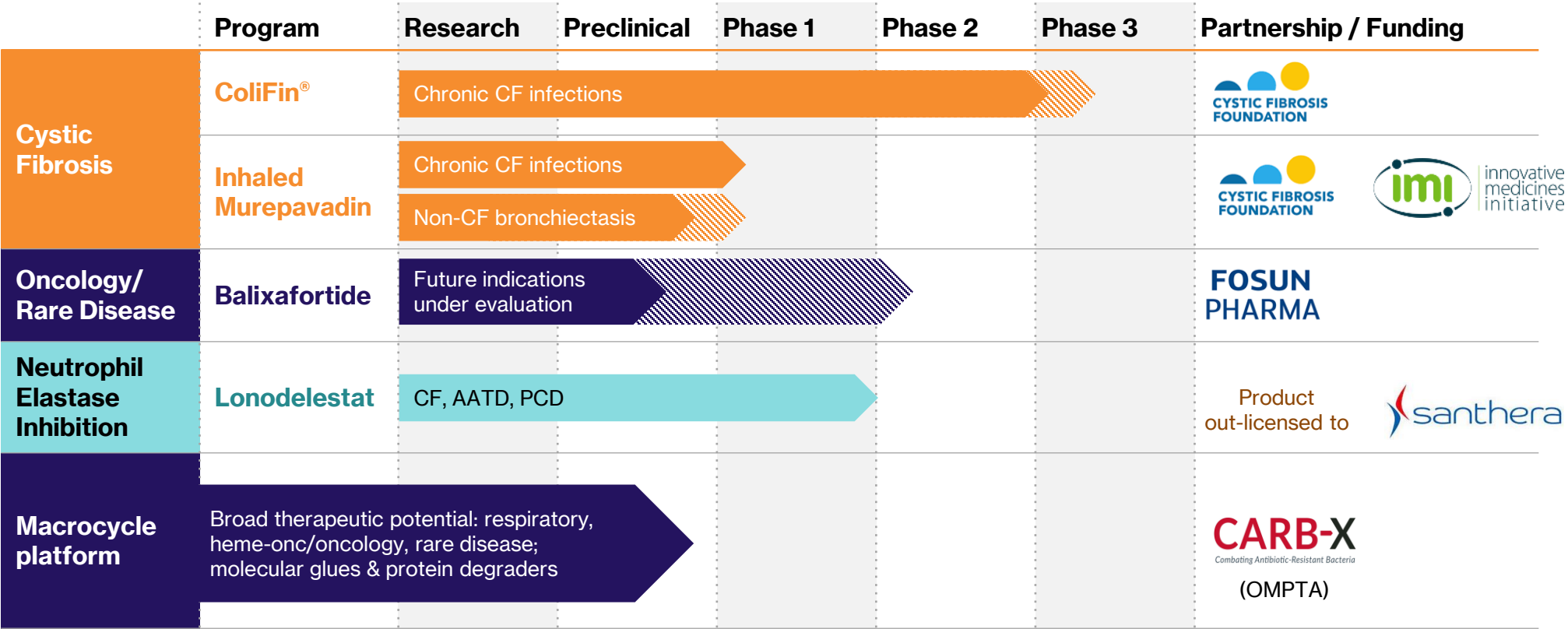
santhera



¹ <https://doi.org/10.3390/molecules27031012>

Spexis Pipeline: Multiple “Shots-On-Goal”

Potential for Significant Value Generation



Pipeline Today
 Readiness if/when initiated

CF – cystic fibrosis; AATD – alpha-1 antitrypsin deficiency; PCD – primary ciliary dyskinesia

**Already de-risked
through EU
approval, FDA
Interactions &
CF Foundation
("CFF") support**

U.S. Phase 3 Program:

- FDA "Study May Proceed Letter": 1 Phase 3 trial sufficient
- Small 1x daily (QD) dosing cohort in Phase 3 program approved by FDA
- QD dosing favored due to high treatment burden in CF patients
- Continuous use therapy (not 28d on, 28 off): same as ColiFin[®] EU label
- Phase 3 developed with equity investment by CFF & significant design input from the Therapeutics Development Network – a "must have" for doing trials in the U.S. and Canada

Multiple Phase 3 value-inflection points:

Near-term: COPILOT

open label safety trial to validate
QD vs BID dosing

Medium-term: COPA

4w double-blind efficacy
+ 20wk open label safety

**Interim readouts midway through
each component of trial**

Commercial:

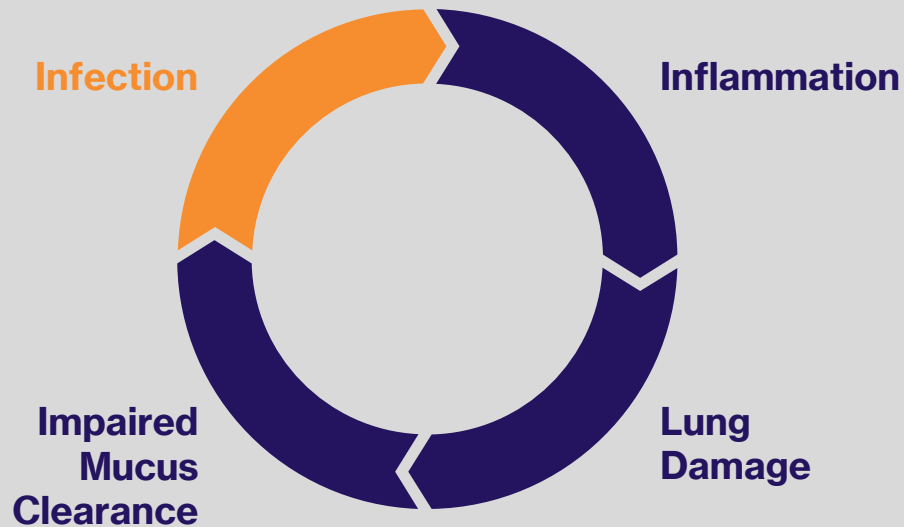
**QIDP + Orphan Drug
designation = 12 yrs U.S.
market exclusivity**

**Concentrated N. American
market: ~130 CF care centers**

**Small commercial structure
sufficient to "go-it-alone"**

CF Chronic Infections Promote Lung Damage Progression

Increasing Need for Inhaled Antibiotics



85 % of eligible population receive CFTR modulators – slowing disease progression & improving mucus clearance¹

5yr data show reduced load BUT chronic infections persist – will remain major issue²



Ageing CF patient population – a longer, but not healthier life¹



Chronic lung infections – increased likelihood as patient ages; *P. aeruginosa* predominant \geq age 33¹



Increasing need for long-term inhaled antibiotics¹

1) <https://www.cff.org/sites/default/files/2021-11/Patient-Registry-Annual-Data-Report.pdf>;

2) Finke et al; Lenhan et al; Quinn et al.

ColiFin[®]: Potential to be More Effective, Safer Therapy

Current Treatments in U.S. Not Fully Addressing Need

	TOBI [®] /Cayston [®]	ColiFin [®]
Mechanism of Action	Leads to resistance development	Difficult for <i>P. aeruginosa</i> to mutate around
Resistance Development	Increasing, up to 40 % in some regions ^{1,2}	Rarely exceeding ~5 % ^{1,2}
Safety	TOBI has significant ototoxicity concerns	Validated in EU: Strong efficacy, minimal serious adverse events in >15K patients dosed to date
Efficacy	Decreased efficacy over time	
Dosing	Continuous b.i.d./t.i.d. alternating therapy (“CAT”) (rotation of 28d cycles)	Continuous (i.e., no CAT) b.i.d. dosing with P3 plans for q.d. dosing
U.S. prices typically higher than in Europe – ColiFin [®] can be priced 5-8x higher than in EU, in line with competitive products in U.S.		
28d AWP Pricing	Between ~\$5,400 – 11,000 (generics – branded)	Targeting ~\$8,000



Colistin available as I.V. formulation – inhalation unapproved (U.S.)
→ not reimbursed, most patients must pay-out-of pocket

1) doi: 10.1128/AAC.01541-19
2) doi: 10.1128/AAC.02483-20

ColiFin[®] Phase 3 Program: COPILOT Trial

QD vs BID dosing, open label

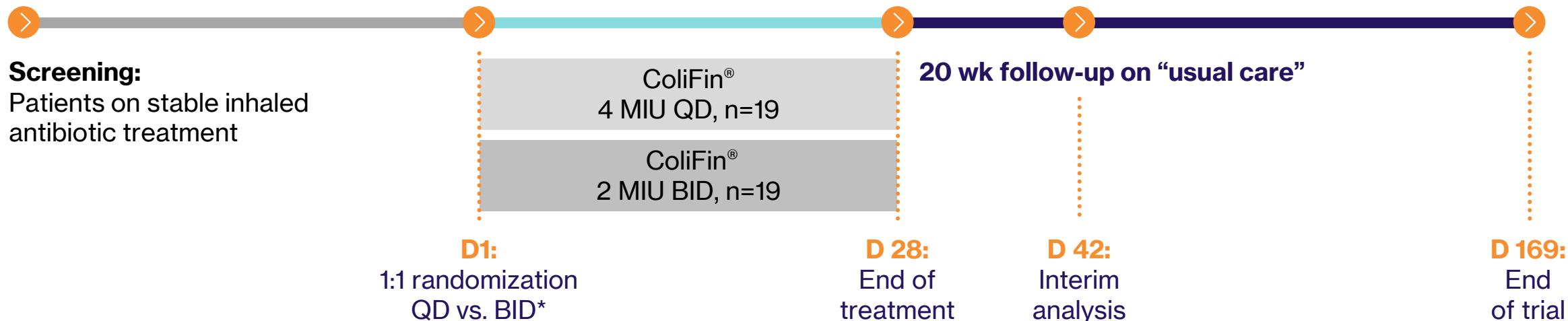
Primary Objective:

- Tolerability and safety of ColiFin[®], once-daily (QD) vs twice-daily (BID)
- Interim analysis (Day 42) to support switch from BID to QD dosing in COPA
- Important short-term value inflection point: QD approval could grant USP

Secondary Objectives:

- Assessment of pulmonary function (ppFEV1)
- Clinical events (number/severity of pulmonary exacerbations, hospitalizations)
- Additional antibacterial therapy

To be conducted in Europe; enrollment expected to initiate 1H2023



* Stratification by current use of oral corticosteroids > or <= 10 mg QD or 20 mg QOD (prednisone or prednisolone equivalents)

ColiFin[®] Phase 3 Program: COPA Pivotal Trial

28d double blind
efficacy + 20w
open-label safety

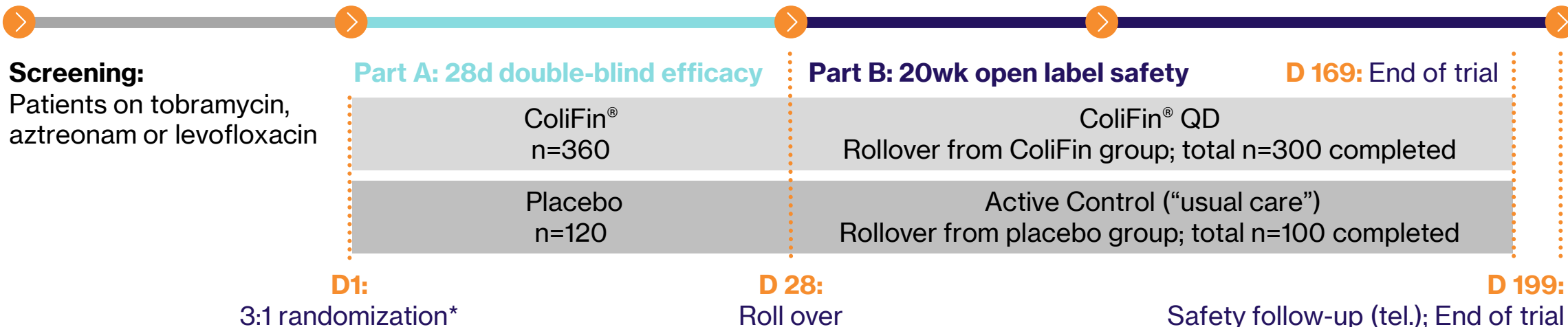
Eligible: Adults/adolescents with CF + chronic *P. aeruginosa* (*Pae*) lung infection

Therapy: Continuous ColiFin[®] for 6 months vs. placebo + usual inhaled antibiotics

Primary endpoint: Mean absolute diff. in ppFEV1** (of $\geq 3\%$) in change from baseline to Day 28

Key secondary endpoints throughout 6 months: Difference in CFQ-R respiratory symptom score; exacerbation severity/duration; consistency of treatment response; sputum microbiology: *Pae* density, resistance development (MIC)

Independent Data Monitoring Committee: Interim efficacy analysis after 288 patients complete 28d days of treatment (~12 mos from FPI)



* Stratification of randomization by age (<18, >18 yrs, pp FEV 1 (<70%;>70%), prior PEx treated with systemic antibacterials in last 12 months, stable baseline use of CFTR modulators

** ppFEV1: Percent Predicted Forced Expiratory Volume in 1 second

Future ColiFin[®] Patients

Already Use Inhaled Colistin

Current EU Usage



- EU inhaled colistin revenues (all products) **estimated €75M/yr**
- Average EU price per course: €800-1.5K^[1]

EU vs. US

- **US pricing 3-5x EU** (per TOBI[®], Cayston[®], generics)
- EU29 & US CF patient population comparable (~40K vs 30K)

[1] Confidential market information shared

[2] 2020 CFF Registry Report

[3] TOBI[®] & Cayston[®] predated by unapproved versions. Both rapidly captured those markets

Current US Usage



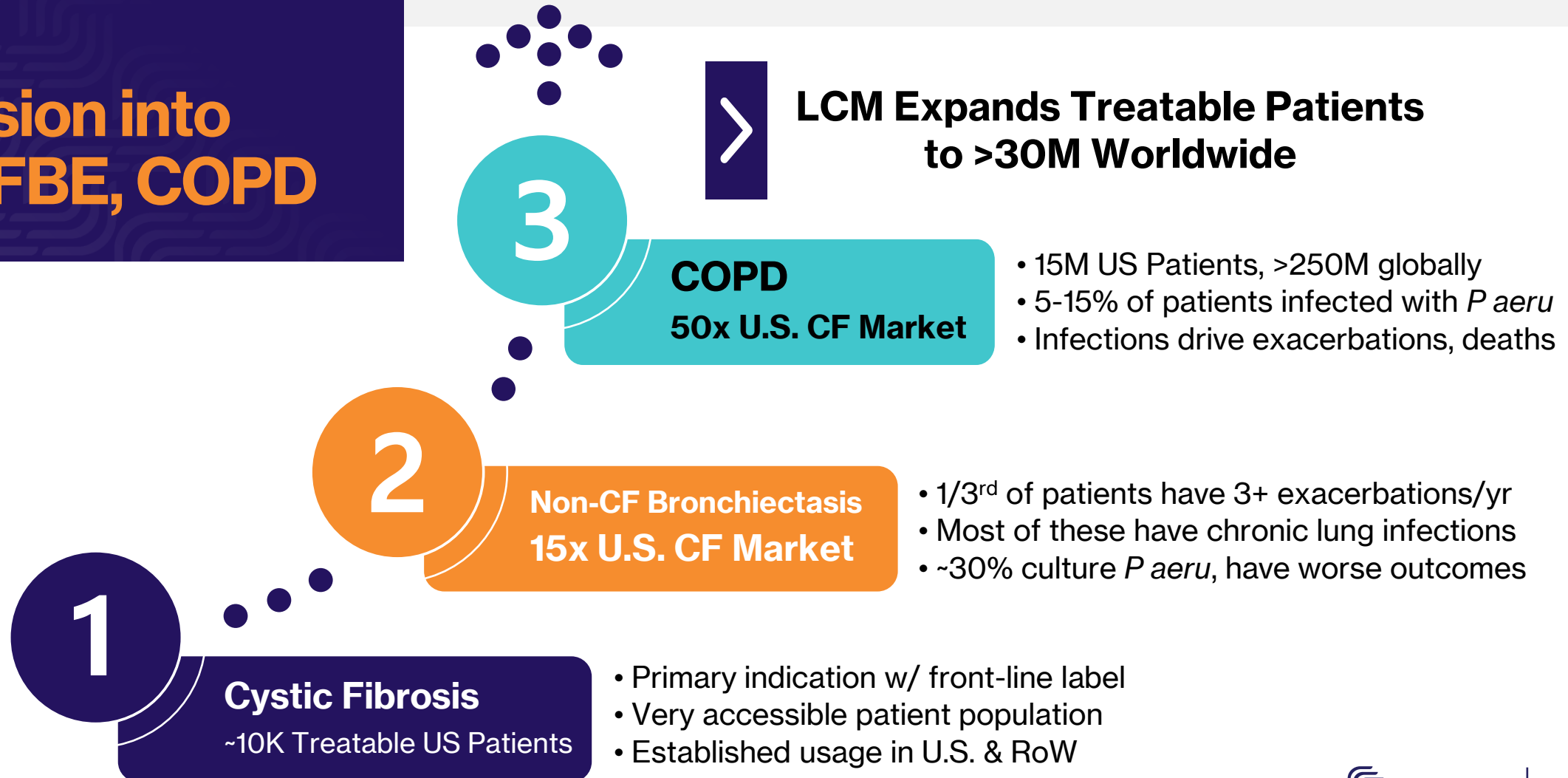
- ~3600 CF patients use unapproved colistin^[2]
- Those patients **will** convert to ColiFin[®] upon approval^[3]
- Reaching **only** those patients:
 - Gross annual **revenues \$100-130M**
- EU-like usage at US-like pricing:
 - Annual potential **revenues \$180-\$280M**

ColiFin[®] Life Cycle Management:

Expansion into Non-CFBE, COPD

Non-CF Bronchiectasis & COPD patients also suffer chronic *P. aeruginosa* infections, no proven inhaled standard-of-care

An effective QD ColiFin[®] would be an attractive therapeutic in both these additional indications



Inhaled Murepavadin ("iMPV") for Cystic Fibrosis

Novel Class Therapeutic For a Rare Disease



Attractive market

- Peak CF sales 200-400m USD
- Label expansion potential to nCFBE: >\$1B market

In Phase 1

- Potent & selective activity against resistant *P. aeruginosa*

Externally validated & partially funded

- Clinical development externally with substantial funding from: EU Innovative Medicines Initiative (IMI) for Ph. 1a & CF Foundation for Ph. 2

High safety margin

- 9 clinical trials of IV MPV totaling 290 subjects have informed & de-risked the inhalation route
- Low systemic exposure upon inhalation mitigates nephrotoxicity risk
- High safety margin (5- to 10-fold above IV) in GLP tox studies

IP protected

- Market exclusivity through about 2036 via COM/additional IP
- Eligible for QIDP & orphan drug status

2021

2022

2023

Ph 1a: SAD in HVs

Ph 1b: SAD in CF

Ph 2: CF patients

Balixafortide: Potent CXCR4 inhibitor

**Applicable to wide
range of oncology
and rare disease
indications**

Balixafortide

- Potent, highly selective blocker of CXCR4
- CXCR4 is involved in tumor growth and metastasis and is also implicated in a variety of primary immune deficiency and other rare diseases

Clinical proof of concept established

- >500 patients in 8 clinical trials
- Phase 3 study in advanced HER-2 negative breast cancer did not achieve primary endpoint; data analyses ongoing

Good safety and tolerability profile

- Well tolerated by i.v. route of administration
- No limiting safety events identified at top dose given (5.5mg/kg)
- Shown to overcome SoC drug resistance
- Compatible with combination therapies

Evaluating potential new indications

- Extensively profiled in animal models of stem cell mobilization, cancer, inflammatory and rare disease indications
- Synergistic efficacy in combination with docetaxel compared to either drug alone in metastatic prostate cancer model
- Other studies/analyses ongoing and to be reported on ASAP

Spexis Executive Management & Board of Directors

Highly Experienced Team

Jeff Wager, MD
CEO & Chairman

30 yrs VC & CEO leadership;
>\$2.5B in value created since 2000



Hernan Levett
CFO

25+ yrs financial leadership in pharma / biotech



Juergen Froehlich, MD
CMO

30+ yrs Chief Medical Officer &
senior reg affairs experience



Stephan Wehselau
COO & President

20+ yrs CEO & CFO experience,
~\$400M raised in career



Dennis Ausiello, MD
Vice Chair of the Board

17yrs Physician-in-Chief, MGH
8 yrs lead director of the Pfizer board



Kuno Sommer, PhD
Director

Former CEO, Berna Biotech (acq. by J&J)
Chairman Bachem, Sunstar, Targimmune, more



Robert Clarke, PhD
Director

20+ yrs inhaled R & D and
CEO experience



Dan Hartman, MD
Director

25+yrs R & D leadership;
Head of \$2B Gates malaria R & D portfolio



Bernard Bollag, MBA
Director

Senior finance executive across
corporate finance & capital markets



Near-term and multiple value inflection points



CF therapeutic proposition addresses important and growing need

Two CF clinical candidates

- ColiFin® – starting Phase 3 1H2023
 - Inhaled murepavadin (iMPV) – Phase 1 ongoing with first data expected (Q4-22)
-

Balixafortide (BLX)

- 8 clinical trials to date; >500 subjects dosed; under evaluation for additional oncology & rare disease indications
-

Proprietary macrocycle platform poised to build pipeline and fuel corporate partnerships

- Result of >\$400M prior investment & multiple alliances
- iMPV, BLX & lonodelestat generated by our macrocycle platform; ColiFin® (in-licensed from PARI) also a macrocycle
- Highly leverageable towards other extracellular, intracellular & protein-protein interaction targets
- Ideal for targeting protein-protein interactions, molecular glues and targeted therapies



Thank you!

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