

LANDOS biopharma

NX-13 Phase 1b Clinical Trial Data





Forward Looking Statements

This presentation contains forward-looking statements that involve substantial risks and uncertainties. All statements, other than statements of historical facts, contained in this presentation, including statements regarding our strategy, future operations, prospects, plans and objectives of management, are forward-looking statements. The words "anticipate," "believe," "estimate," "expect," "intend," "may," "might," "plan," "predict," "project," "target," "potential," "will," "would," "could," "should," "continue," and similar expressions are intended to identify forward looking statements, although not all forward-looking statements contain these identifying words. These forward-looking statements are subject to a number of risks, uncertainties and assumptions. Risks regarding our business are described in detail in our Securities and Exchange Commission filings, including in our Annual Report on Form 10-K for the year ended December 31, 2021. We may not actually achieve the plans, intentions or expectations disclosed in our forward-looking statements, and you should not place undue reliance on our forward-looking statements. Actual results or events could differ materially from the plans, intentions and expectations disclosed in the forward-looking statements contained in this presentation reflect our current views with respect to future events, and we assume no obligation to update any forward-looking statements except as required by applicable law.



Positive Top-Line Results Highlight Strong Company Momentum



Support potential of NX-13 as important, new treatment for Ulcerative Colitis (UC)

- NX-13 targets a novel pathway
- NX-13 showed a favorable safety and tolerability profile in UC patients across a range of oral, once-daily doses
- Results indicate promising early signals regarding efficacy*



Validate sharpened strategic focus on pursuing the most promising target indications

Strong scientific foundation and promising pipeline of oral, once-daily clinical-stage assets — omilancor, NX-13 and LABP-104



Comprehensive review of clinical development plans near completion

- Focused on optimizing successful outcomes for clinical stage assets, strengthening team and advancing mission of addressing therapeutic gap for patients with autoimmune diseases
- On track to provide update later this year



Roadmap for NX-13 Development



What we learned in the Phase 1b trial:

- Favorable safety profile and tolerability in active UC across the study
- Indications of clinical improvement signals* seen as soon as
 - 2 weeks in patient symptoms; and
 - 4 weeks by endoscopy in exploratory endpoints



What we still need to determine:

- Conducting further analysis of clinical, pharmacokinetic, and pharmacodynamic data
 - Guidance on doses and population stratification
 - Site and mechanism of drug action

What's next:

Announcing timing and study design for Phase 2 proof of concept trial later this year

NX-13 Phase 1b Clinical Trial Data



NX-13 Overview



Mechanism of Action

Targets NLRX1 pathway, a mitochondrial-associated regulatory NOD-like receptor Orally active and gut-restricted, allowing target engagement within the GI tract

Drug

Profile

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Recent & Upcoming Milestones

Recently completed successful Phase 1b trial

Announcing timing and study design for Phase 2 proof of concept trial later this year

NX-13 Selectively Targets Novel Target NLRX1 in the Gut

Epithelial Inflammation and Necrosis		Anti-inflammatory Effects of NX-13		
		NX-13 decreases reactive oxygen species		
Cytokines	Mitochondria NX-13 → NLRX1 receptor	T cell T cell NX-13 decreases NF vP (TNF or and		
	Necrosis	Healthy microbiome		
Buroptosis	Autophagy	11		

Inflammasome

7

NX-13 decreases

inflammasome activity

Phase 1b Study Design of NX-13 in Active UC

Primary Objective:

To assess the safety and tolerability of NX-13 after multiple oral dose administration in subjects with active ulcerative colitis (UC)

Key Inclusion Criteria:

- Male and female subjects 18-75 years old;
- Active UC >90days;
- Total Mayo Score of 4 to 10 (enrolled population average 7.6);
- MES ≥ 2 (confirmed by central reader);

- Baseline fecal calprotectin >250ug/g;
- 5-aminosalicylates stable for >1month, throughout trial;
- Bio-naïve or 8-week washout period if previously on biologics



Phase 1b Study Design of NX-13 in Active UC

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Primary endpoints: Evaluate safety and pharmacokinetics of multiple dose levels

Promising signals of clinical efficacy despite relatively short trial duration



IR = Immediate Release; MR = Modified Release

*Study was not designed or powered for exploratory clinical endpoints therefore results are hypothesis-generating only

NX-13 was Well-Tolerated and Shows Promising Efficacy Signals in Active UC

Safety: NX-13 was generally well tolerated, consistent with nonclinical, Phase 1a data

- No Serious Adverse Events
- 3 unrelated Adverse Events (AEs) of note



Pharmacokinetics: Plasma levels were generally low

- Modified Release tablet produced a flattened, prolonged exposure profile
- Tissue levels fell below the limit of quantification in a portion of patients in all dose groups, suggesting need for higher sensitivity assay



Efficacy: 4 weeks of low dose, immediate release NX-13 (250mg IR) once daily induced:

- Clinical response in 8/11 patients
- Clinical remission in 3/11 patients
- Endoscopic response in 4/11 patients
- Symptomatic Remission (Stool Frequency=0, Rectal Bleeding=0) in 8/11 patients
- Fecal Calprotectin Normalization in 5/11 patients



NX-13 Phase 1b Trial Demographics

	Placebo (n=4)	NX-13 250mg (n=11)	NX-13 500mg IR (n=10)	NX-13 500mg MR (n=11)	All Patients (n=36)
Age	49.2	50.5	54.9	42.6	49.3
%male (#)	25% (1)	100% (11)	50% (5)	90.9% (10)	75% (27)
Total Mayo	7.3	7.0	7.3	8.6	7.6
MES	2.50	2.45	2.30	2.55	2.44
% in US	50% (2)	45% (5)	50% (5)	55% (6)	50% (18)
Baseline 5'ASA use	50% (2)	73% (8)	70% (7)	73% (8)	69% (25)
Baseline Steroid use	25% (1)	27% (3)	20% (2)	36% (4)	28% (10)
Previous Biologic use	20% (1)	9.1% (1)	10% (1)	9.1% (1)	11% (4)

NX-13 Phase 1b Trial Safety Evaluations

	Placebo (n = 4)	NX-13 250mg (n=11)	NX-13 500mg (n=10)	NX-13 500mg MR (n=11)
Serious AEs	0	0	0	0
Mild/Moderate TEAEs	1 (20%)	2 (18.2%)	3 (27.3%)	6 (54.5%)
GI (abdominal pain, UC worsening, pancreatitis, constipation)	1 (20%)	0	1 (9.1%)	3 (27.3%)
Renal (congenital PCKD, increased creatinine, kidney stones)	0	0	0	1 (9.1%)
General/Cardiac (A.Fib, Anemia, Weakness, Dizziness)	1 (20%)	0	2 (18.2%)	0
Clinical Chemistry (GGT increase, HLD, hypocalcemia, hypophosphataemia)	0	1 (9.1%)	2 (18.2%)	2 (18.2%)
Infections / Infestations (UTI, COVID)	0	1 (9.1%)	0	1 (9.1%)

4 unrelated AEs of note:

- UC Flare (withdrew)
- A.Fib/Panic attack (withdrew)
- Mild pancreatitis (continued)

No additional changes noted in clinical chemistry, hematology, vital signs, physical exam and ECG from baseline

HLD = hyperlipidaemia; GGT = Gamma-Glutamyltransferase

NX-13 Treated Patients Experienced Reductions in Total Mayo Score after 4 weeks



- Patients who received the 250mg dose experienced the greatest reduction of Total Mayo Score: -3.40 (range -7, 0), representing an average 48% reduction from baseline score.
 - 500mg patients also experienced clinically meaningful reductions of -3.00 and -2.11 on the IR and MR doses, respectively
- 72% (8/11) of the 250mg group achieved clinical response; 27% (3/11) achieve clinical remission after just 4 weeks of treatment

IR= Immediate Release; MR= modified release designed to dissolve at the terminal ileum *Study was not designed or powered for exploratory clinical endpoints therefore results are hypothesis-generating only

Endoscopic Improvement at All Doses Driving Reduction of Mayo Score



- Patients treated with ALL doses of NX-13 experienced reductions in MES on average
 - 27-40% endoscopic response after just 4 weeks of treatment across dosage groups

MES = Mayo Endoscopy Score; PROs = Patient Reported Outcomes

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FCP = Fecal Calprotectin; Normalization defined as an FCP score reduction to below 250.

NX-13 Supported Symptomatic Remission in Rectal Bleeding and Stool Frequency



Stool Frequency Change from Baseline

Rectal Bleeding Change from Baseline



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- Patients in the 250mg group had the greatest reduction of Rectal Bleeding and Stool Frequency at 2 weeks, with further reduction at 4 weeks
 - Majority of patients saw complete resolution of BOTH rectal bleeding and stool frequency after 4 weeks of treatment with NX-13 250mg, once daily

Fecal Calprotectin (FCP) Change and Normalization



- Immediate release (IR) groups had the greatest decrease of Fecal Calprotectin at 4 weeks on average
- Rates of Fecal Calprotectin Normalization mirrored Clinical Remission and Endoscopic response
 - Changes were seen as early as 2 weeks

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