



LANDOS
B I O P H A R M A

UEGW PRESENTATION | OCT 2021



Safety, Pharmacokinetics, and Immunological Effects of Omilancor (BT-11) in a Phase 2 Randomized, Double-Blind, Placebo-Controlled Trial of Patients with Ulcerative Colitis

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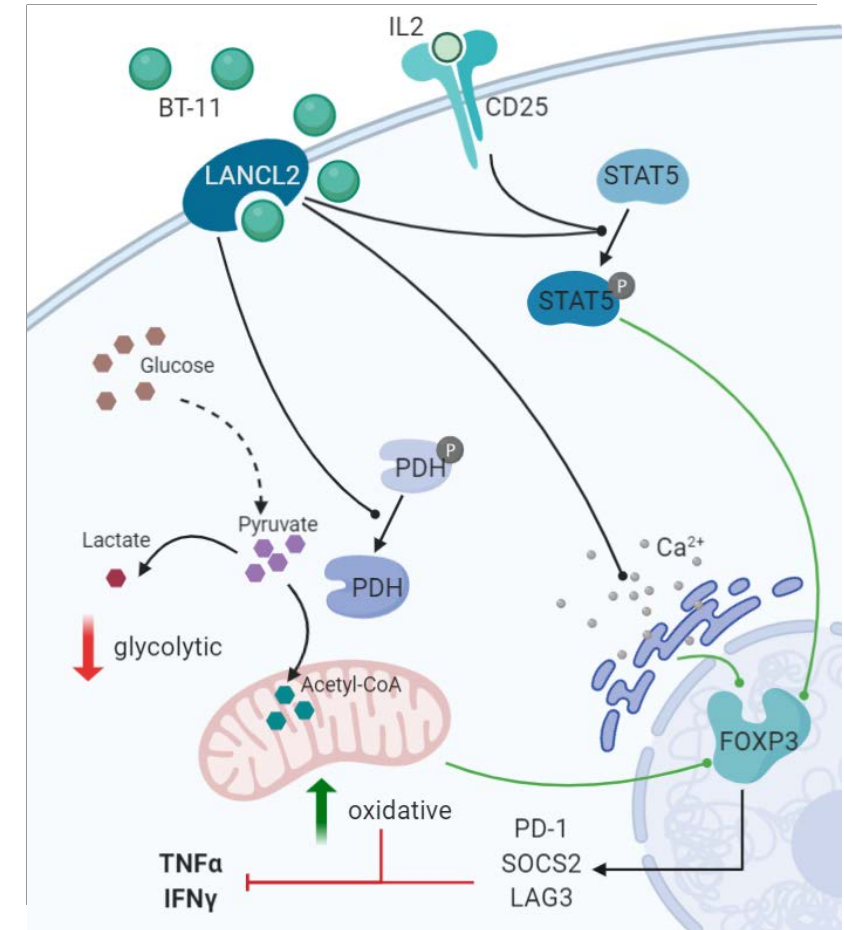
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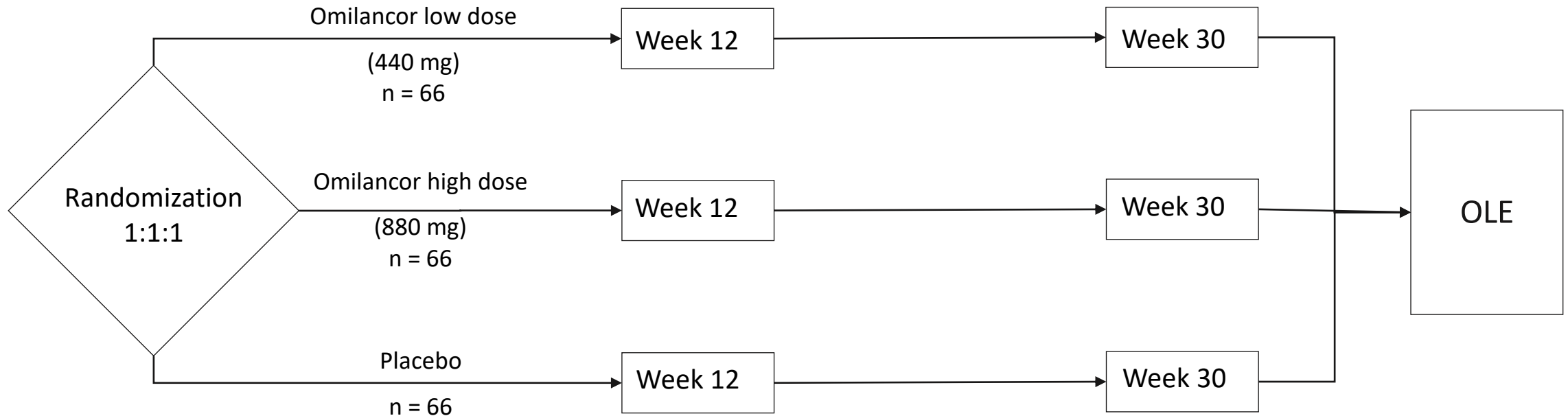
Omilancor Activates Novel Target LANCL2

- Multipronged immunometabolic mechanism of action
 - Supports regulatory T cell (Treg) stability and suppressive effects
 - Decreases production of inflammatory mediators ($\text{TNF}\alpha$, $\text{IFN}\gamma$, MCP1, IL-6, IL-8)
 - Restores dysregulated metabolism in immune and epithelial cells of the gut





Phase 2 Study of Omilancor in Mild to Moderate UC



- Primary Objective
- The primary objective of this proof-of-concept study was to establish the efficacy of oral BT-11 in inducing clinical remission at Week 12 in subjects with mild to moderate ulcerative colitis (UC).
- Key Inclusion Criteria
- Male and female subjects with mild to moderate UC defined by a total Mayo Score of 4 to 10 with MES ≥ 2 (confirmed by central reader); 5-aminosalicylates (max 4.8 g/day) and oral corticosteroids (max 20 mg/day prednisone or equivalent) must be stable for the 12-week induction period.

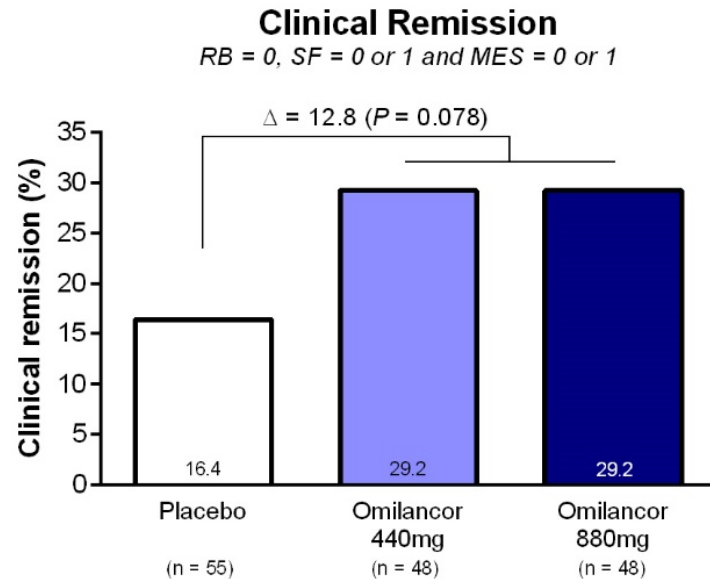


Study Demographics

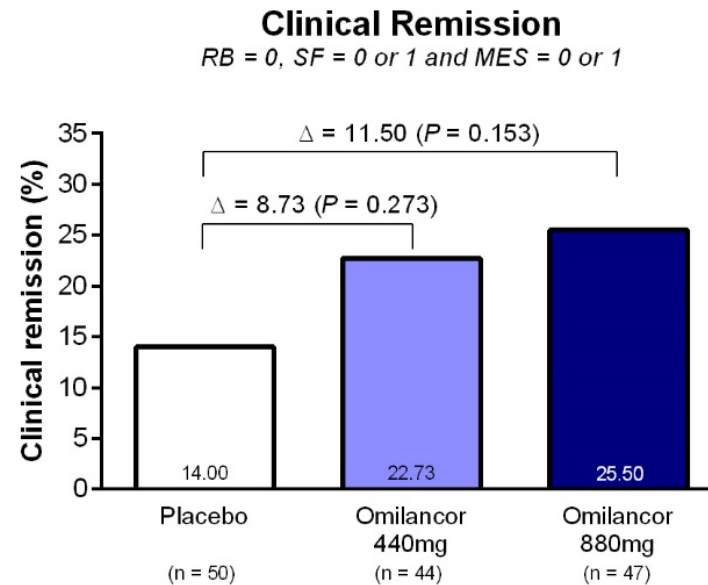
	Placebo (n = 66)	Omilancor 440 mg (n = 66)	Omilancor 880 mg (n = 66)
Age – yr	43.3	43.1	43.3
Male sex – no. (%)	35 (53.0%)	26 (39.4%)	44 (66.7%)
Baseline Total MCS	7.52	7.15	7.33
Baseline MES	2.53	2.61	2.56
Corticosteroid use at baseline – no. (%)	13 (19.7%)	12 (18.1%)	13 (19.7%)
Previous biologic use – no. (%)	3 (4.5%)	3 (4.5%)	3 (4.5%)



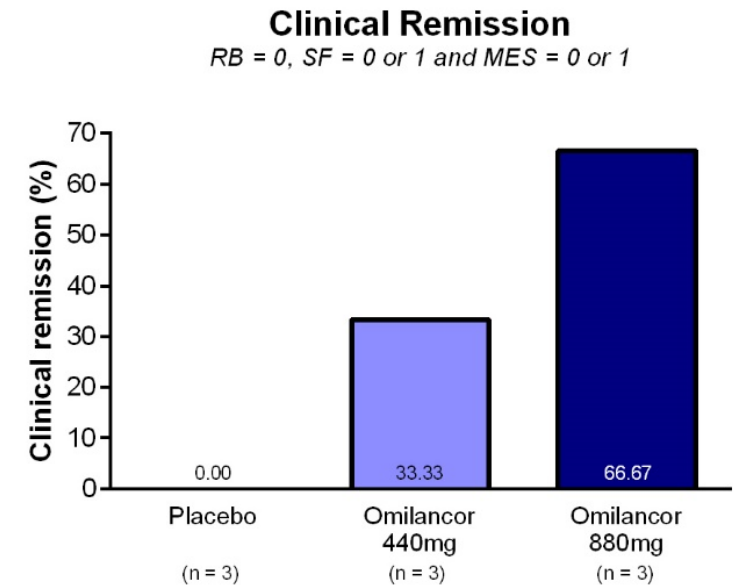
Omilancor induces clinical remission at 440 and 880 mg once daily



Planned Phase 3 Population



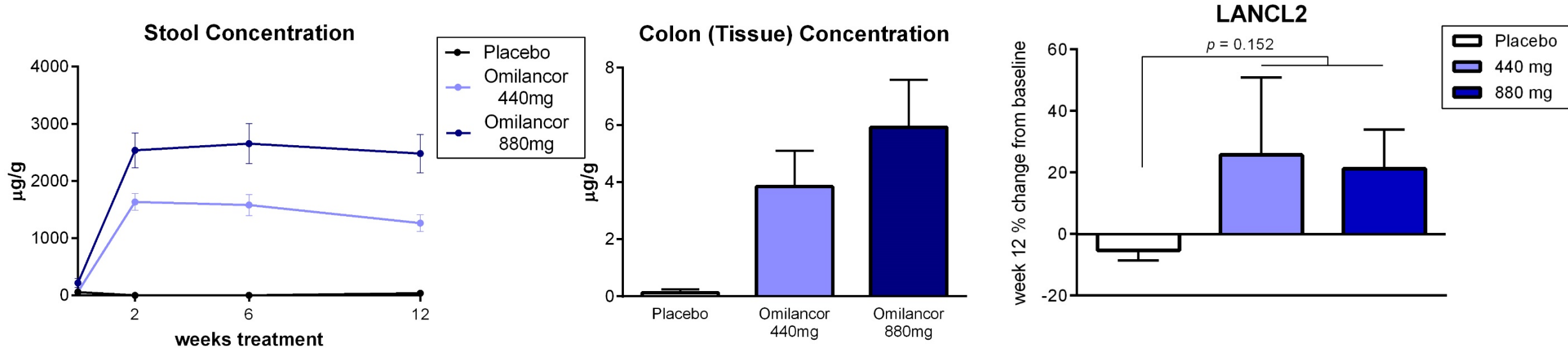
Subjects with total Modified Mayo score ≥ 7 at baseline



Subjects with previous exposure to biologics



PK Results Validate LANCL2 Target Engagement at both Doses Tested



- Omilancor stool concentrations stable between 2 and 12 weeks of dosing
- No significant difference in stool concentrations between UC patients after 12 weeks and healthy volunteers after 7 days
- Stool and tissue concentration scale in a near dose-proportional manner
- 440 and 880 mg doses effectively clear therapeutic threshold, engage LANCL2, and increase LANCL2 expression in the colon

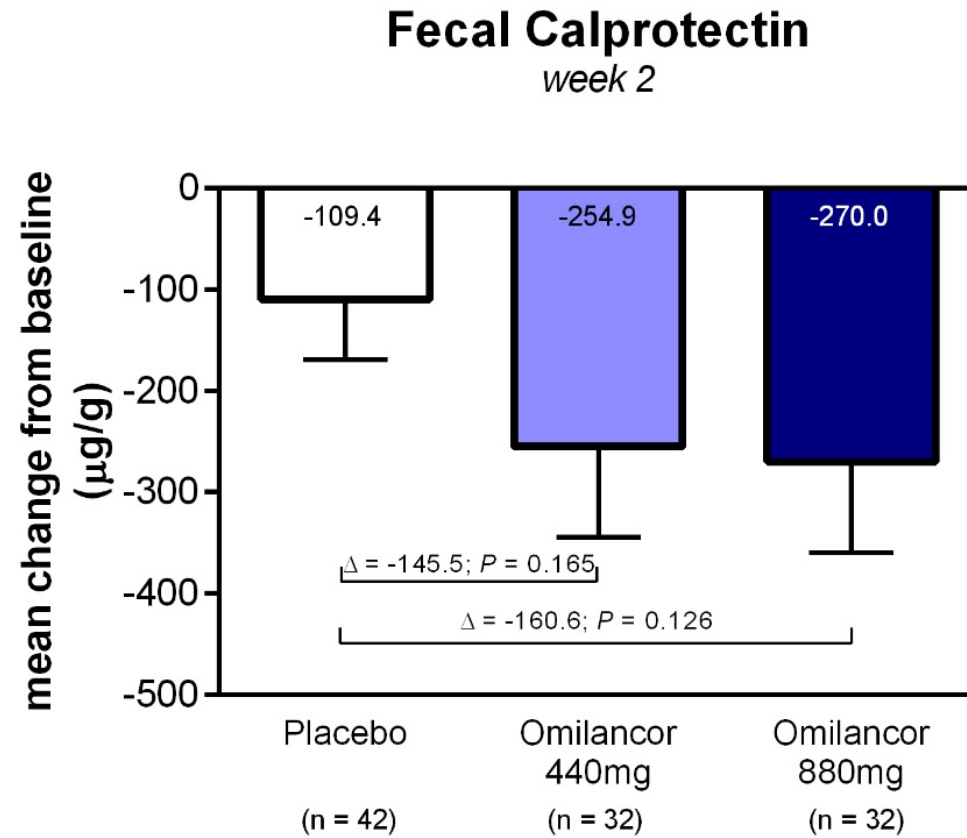
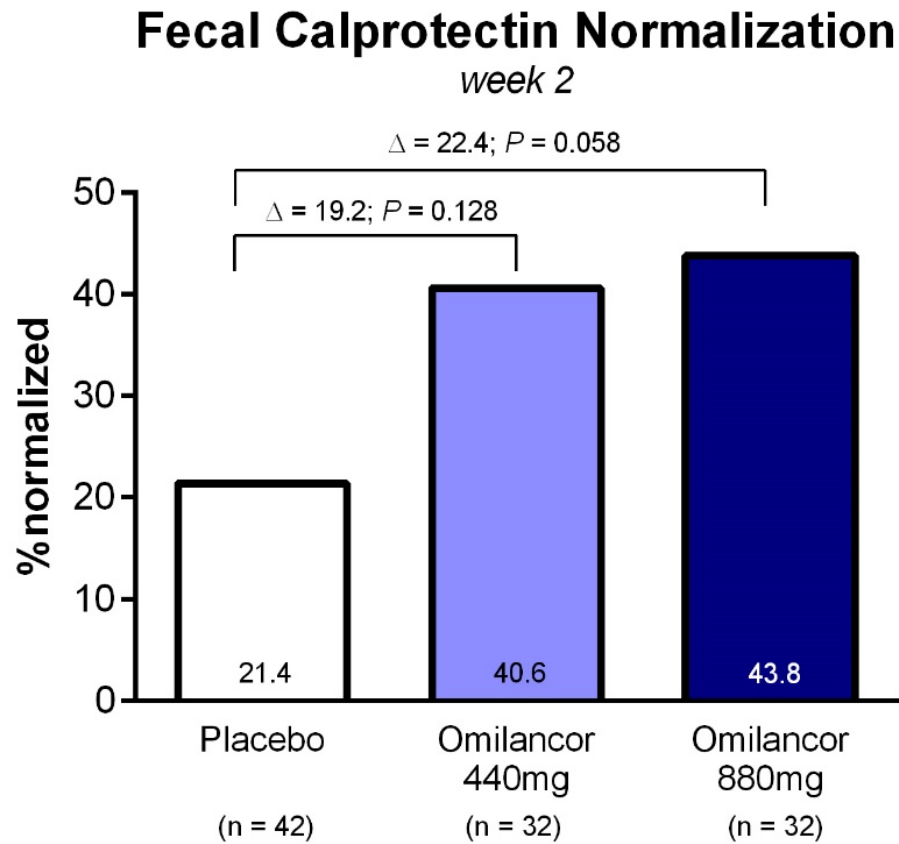


No differences in AE profile observed between omilancor and placebo

	Placebo (n = 66)	Omilancor 440 mg (n = 66)	Omilancor 880 mg (n = 66)
Subjects reporting ≥ 1 AE – no. (%)	20 (30.3%)	18 (27.3%)	20 (30.3%)
Total AEs – possibly related or higher	10	16	11
Total AEs – definitely related	0	0	0
Infections and Infestations	5 (7.6%)	4 (6.1%)	5 (7.6%)
Lymphopenia	1 (1.5%)	0 (0%)	0 (0%)
AEs experienced in $\geq 5\%$ of subjects			
<i>Ulcerative colitis worsening</i>	5 (7.6%)	7 (10.6%)	7 (10.6%)



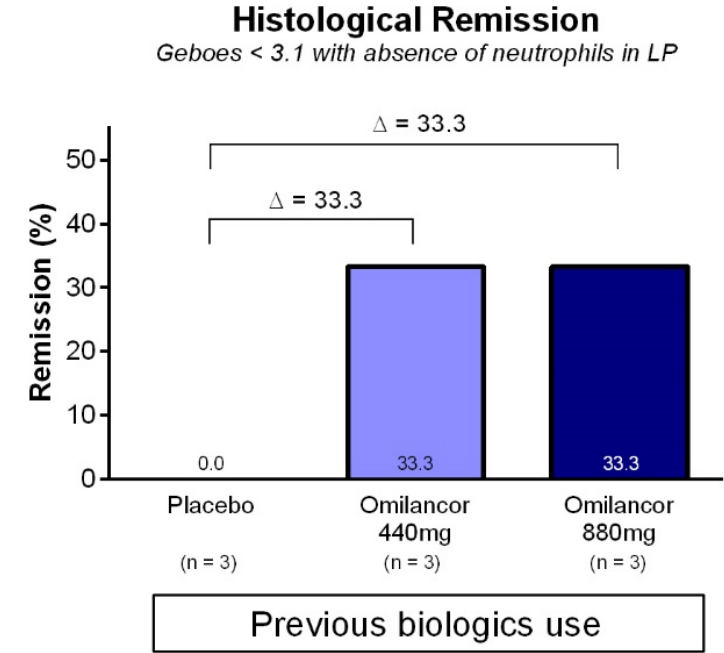
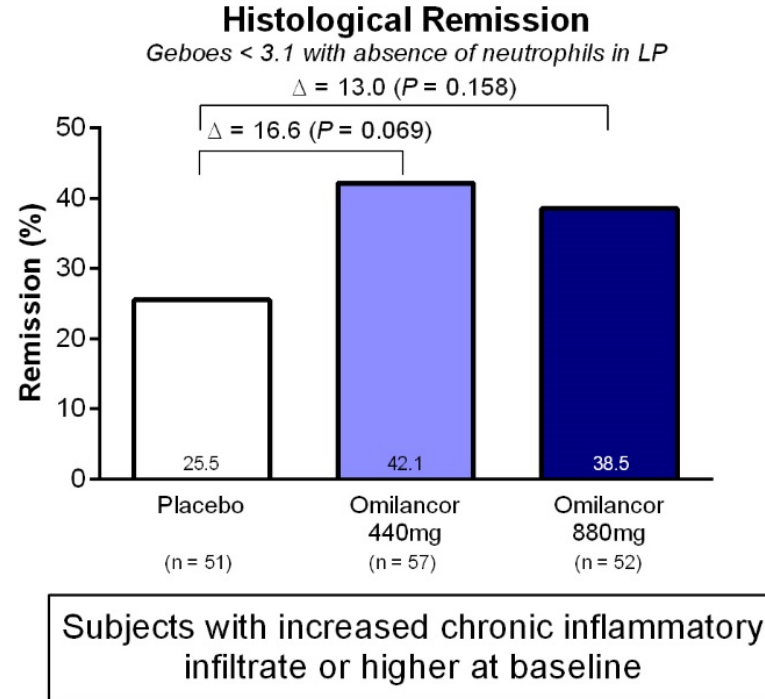
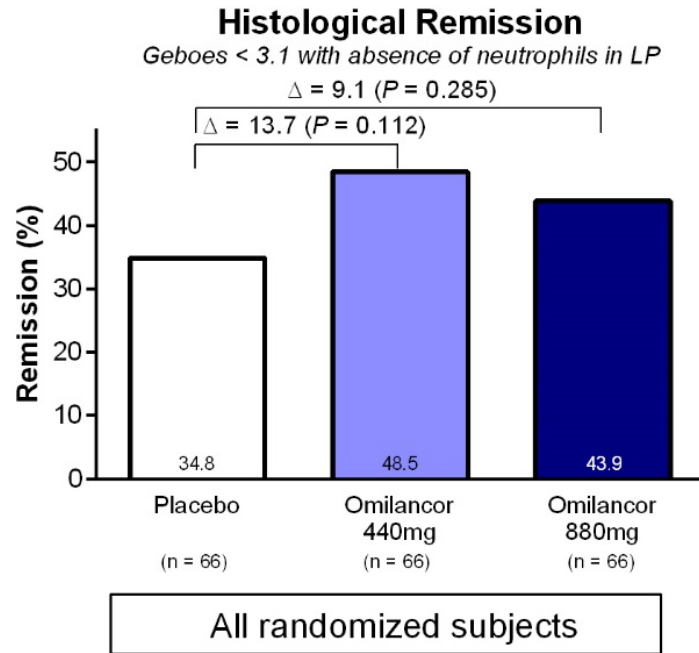
Omilancor promotes FCP normalization after 2 weeks of treatment



*Fecal calprotectin considered normalized at < 250 ug/g
Inclusive of subjects with abnormal levels at baseline*

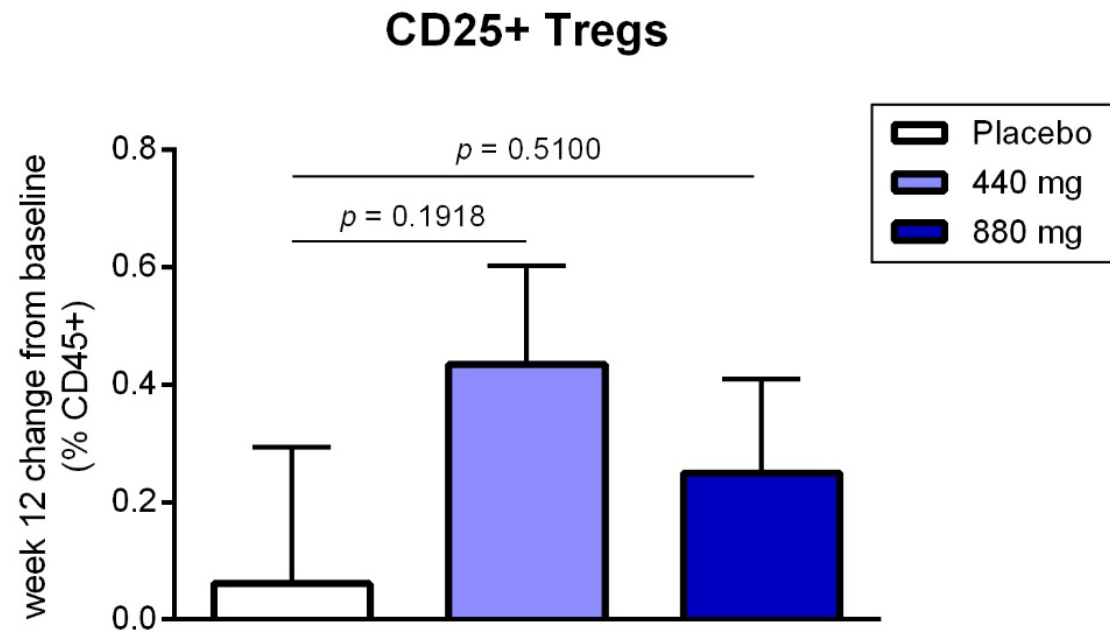


Omilancor induces histological remission

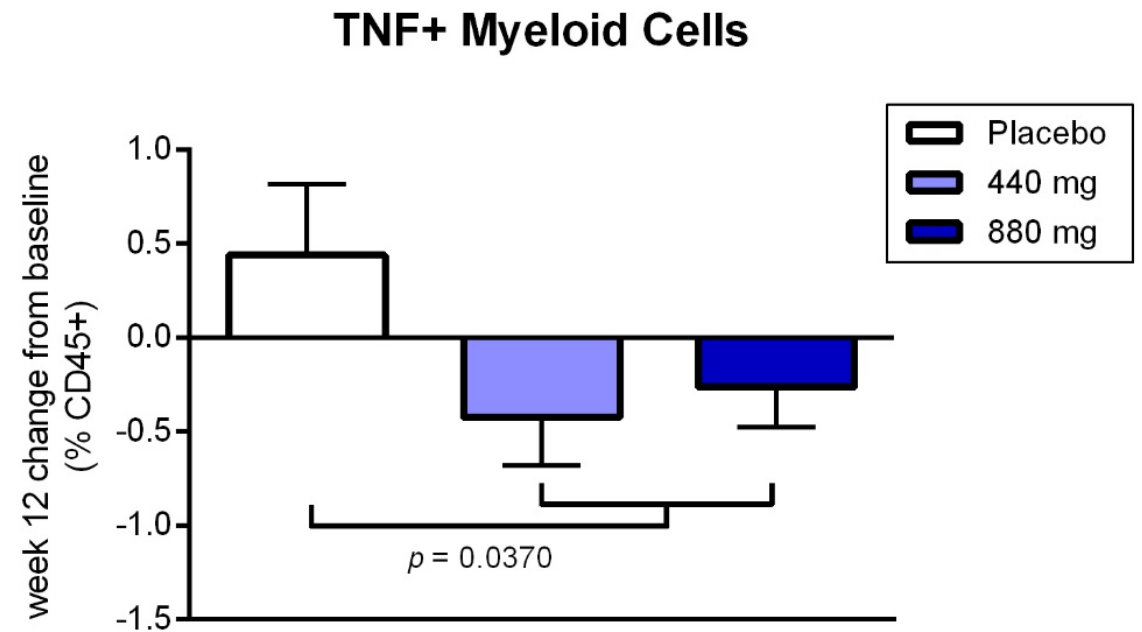




Mechanistic Validation in Tregs and TNF+ Cells by Flow Cytometry



Baseline levels of Tregs cells were 2.24%

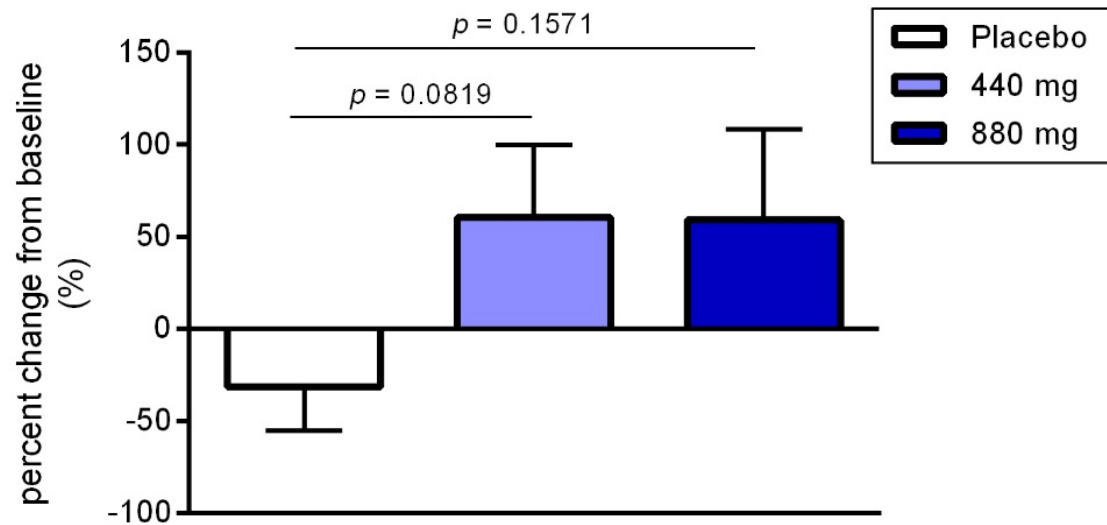


Baseline levels of TNF+ myeloid cells were 0.599%

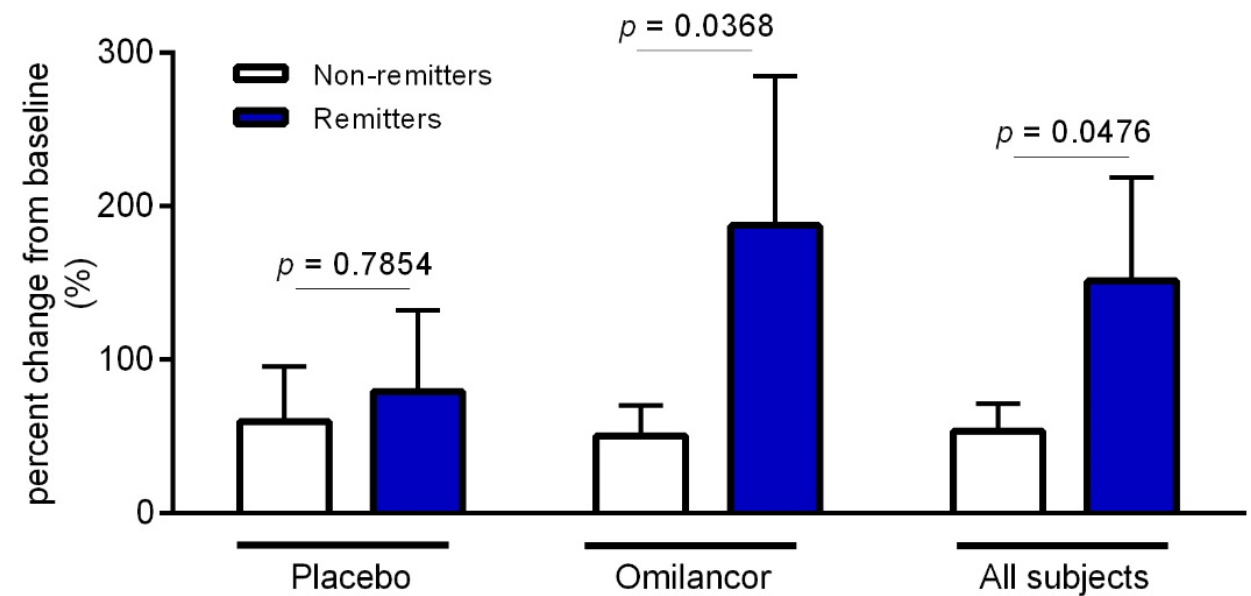


IL10+ Cells are associated with remission in omilancor-specific manner

CD64+ CX3CR1+ IL10+

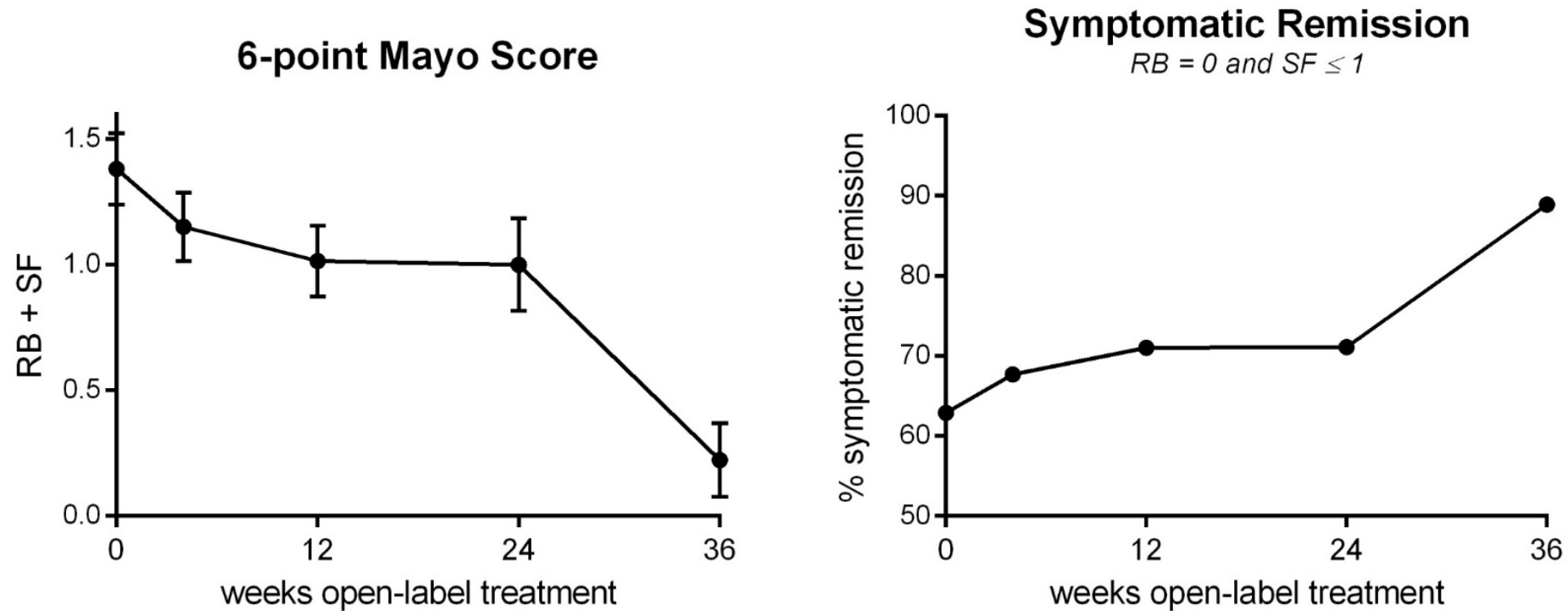


IL10+





Patients treated with omilancor maintain low Mayo scores and UC symptoms beyond 1 year of treatment



- Nearly 90% of patients achieving remission thresholds in stool frequency and rectal bleeding after 36 weeks of open-label treatment.
- Clinical remission (based on 3-component Mayo) was observed in 36.1% ($\Delta = 16.7\%$) of the omilancor 880 mg group and 35.5% ($\Delta = 16.1\%$) of the omilancor 440 mg group during the blinded maintenance phase.



PACIFY: A Global Pivotal Phase 3 Program of Omilancor in Mild to Moderate UC

- During a positive End of Phase 2 Meeting with the FDA, Landos and the FDA agreed on key elements of pivotal global Phase 3 program that are necessary to prepare for regulatory approval
- Two independent placebo-controlled trials enrolling 1,378 UC patients assessing clinical remission at Weeks 12 and 52 of treatment.
- If interested in learning more or becoming an investigator visit **www.pacifytrials.com** or contact **clinical@landosbiopharma.com**

PACIFY™