

OSE IMMUNO
THERAPEUTICS



Breaking Through the
Therapeutic Ceiling with
First-In-Class Immunotherapies

May 2025

Forward Looking Statement

This presentation contains express or implied information and statements that might be deemed forward-looking information and statements in respect of OSE Immunotherapeutics. They do not constitute historical facts. These information and statements include financial projections that are based upon certain assumptions and assessments made by OSE Immunotherapeutics' management in light of its experience and its perception of historical trends, current economic and industry conditions, expected future developments and other factors they believe to be appropriate.

These forward-looking statements include statements typically using conditional and containing verbs such as "expect", "anticipate", "believe", "target", "plan", or "estimate", their declensions and conjugations and words of similar import.

Although the OSE Immunotherapeutics' management believes that the forward-looking statements and information are reasonable, the OSE Immunotherapeutics' shareholders and other investors are cautioned that the completion of such expectations is by nature subject to various risks, known or not, and uncertainties which are difficult to predict and generally beyond the control of OSE Immunotherapeutics. These risks could cause actual results and developments to differ materially from those expressed in or implied or projected by the forward-looking statements. These risks include those discussed or identified in the public filings made by OSE Immunotherapeutics with the AMF. Such forward-looking statements are not guarantees of future performance.

This presentation includes only summary information and should be read with the OSE Immunotherapeutics Universal Registration Document filed with the AMF on April 30, 2025, including the 2024 financial results, all available on the OSE Immunotherapeutics' website. Other than as required by applicable law, OSE Immunotherapeutics issues this presentation at the date hereof and does not undertake any obligation to update or revise the forward-looking information or statements.

This presentation does not constitute an offer to sell the shares or soliciting an offer to purchase any of the Shares to any person in any jurisdiction where such an offer or solicitation is not permitted. The Shares may not be offered or sold, directly or indirectly, may be distributed or sent to any person or into any jurisdiction, except in circumstances that will result in the compliance with all applicable laws and regulations. Persons into whose possession this presentation may come are required to inform themselves about, and to observe all, such restrictions. The Company accept no responsibility for any violation by any person, whether or not it is a prospective purchaser of Shares, of any such restriction.

The information contained in this presentation has not been independently verified and no commitment, representation or warranty, express or implied, is given by the Company or anyone of its directors, officers or respective affiliates or any other person and may not serve as the basis for the veracity, completeness, accuracy or completeness of the information contained in this document (or for any omission of any information in this presentation) or any other information relating to the Company or its affiliates. The information contained in this document is provided only as of the date of this document and may be subject to update, supplement, revision, verification and modification.

They can be modified significantly. The Company is not subject to an obligation to update the information contained in this document and any opinion expressed in this document is subject to change without notice. The Company, its advisers, its representatives cannot be held responsible in any manner whatsoever for any loss of any nature whatsoever resulting from the use of this document or its contents or otherwise related in any way to this document.

This document contains information relating to the Company's markets and the positioning of the Company in these markets. This information is derived from various sources and estimates of the Company. Investors cannot rely on this information to make their investment decision.

Investment highlights

Late-stage compelling products

Phase 3 oncology asset Tedopi®

Promising Phase 2 clinical data from the I&I asset Lusvertikimab (UC)

Large market opportunities

Focus on multi-billion \$ markets

- **I&I:** IBD (Ulcerative Colitis), Cardiovascular-Renal-Metabolic diseases (MASH), Kidney Transplantation,
- **I/O:** NSCLC, HNSCC, Leukemia

Strong pharma partnerships

Sustainable business through multi-partnership strategy

> €2.1bn milestones: AbbVie, Boehringer Ingelheim, Veloxis

Long duration IP portfolio

IP extends to 2040's

I/O: Tedopi® (>2038), BI770371 (>2037), OSE-279 (>2039), CLEC-1 (>2040) **I&I:** OSE-127 (>2037), FR104 (>2035), ABBV-230 (>2040)

Multiple upcoming catalysts

Multiple key clinical and regulatory milestones expected in next 12-18 months

- **Tedopi®:** Confirmatory pivotal Phase 3 NSCLC 2L and combination Phase 2 readouts (PDAC, OC, NSCLC)
- **Lusvertikimab (OSE-127):** Full dataset efficacy results ulcerative colitis Phase 2 and biomarkers
- **BI 770371:** Phase 1b results in solid tumors/Phase 2 update in MASH
- **Pegrizeprium (FR104):** Phase 2 start in Kidney Transplantation
- **ABBV-230:** IND/Phase 1

Financial position

Cash visibility until 2027

€64.2 million level of cash as of December 31, 2024, providing solid financial position and visibility until Q1 2027

An experienced executive leadership team



Nicolas Poirier, PhD
Chief Executive Officer

- 20+ years of experience in Immunotherapy
- Previously CSO, advancing 6 novel immunotherapies to clinic, ultimately leading to six pharma deals
- Global management & finance education (INSEAD, HEC)
- Previous companies:

Effimune



Sonya Montgomery, ND
Chief Development Officer

- 20+ years of experience in pharma / biotech
- Global management, portfolio strategy, translational, clinical and regulatory leadership roles (CMO, Head of clinical development) from discovery through registration
- Previous companies:



Silvia Comis, MD
Chief Clinical Research Officer

- 30+ years of pharma experience
- Previously held positions of Senior Medical Director and European Head of Early Products Medical Affairs in Oncology
- Certified pharmacologist and endocrinologist
- Previous companies:



Jean-Jacques Mention, PhD
Chief Business Officer

- 15+ years of academic research in Immunology and virology at Necker-Enfants Malades Hospital, King's College of London & Institut Pasteur of Paris
- 10 years' experience in BD and innovation
- Achieved four major pharma business deals for OSE



Anne-Laure Autret-Cornet
Chief Financial Officer

- 15+ years in finance / Biotech
- Graduated from ESSCA Management School
- Corporate finance, HEC
- Previous companies:

Deloitte.

Effimune



Fiona Olivier
Chief Corporate Affairs & Investor Relations Officer

- 30+ years in international communications, public affairs and patient engagement
- Degree in communications & Master in Public Affairs
- Previous companies:

sanofi abbvie






Aurore Morello, PhD
Head of Research




- 10+ years in Immunotherapy research (mAb, bispecific, CAR-T)
- International researcher fellowship (MSK, NY)



Clinical Pipeline

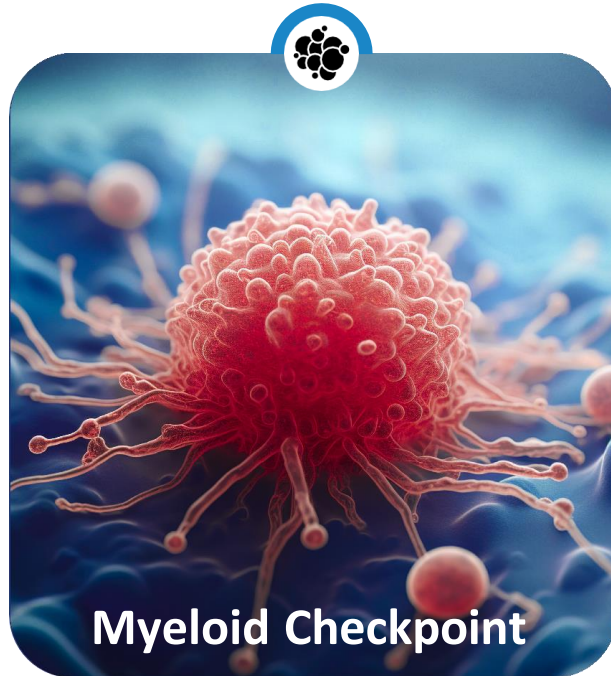
Combining a clinical portfolio of first-in-class immunotherapies and diversified assets in IO and I&I

I&I	Product candidate	Target	Indication	Research	IND-enabling	Phase Ia/Ib	Phase II	Phase III	Upcoming Milestones	
	OSE-127 <i>Lusvertikimab</i>	Anti-IL-7R	Ulcerative Colitis	[Progress bar]			[Progress bar]		Positive Results	Complete data <i>Strategic update</i> <i>Phase 2a update</i> <i>Phase 2 start</i> <i>Phase 1 start</i> Preclinical update
	BI 770371	Anti-SIRPα 	MASH	[Progress bar]			[Progress bar]			
	Pegrizeprium (FR104)	Anti-CD28 	Kidney Transplantation	[Progress bar]			[Progress bar]			
	ABBV-230	Anti-ChemR23 	Chronic Inflammation	[Progress bar]			[Progress bar]			
	OSE-220 <i>Pro-Resolutive mAbs</i>	Undisclosed GPCR Agonist	Chronic Inflammation	[Progress bar]			[Progress bar]			


I-O	Product candidate	Target	Indication	Research	IND-enabling	Phase Ia/Ib	Phase II	Phase III	Upcoming Milestones	
	Tedopi® (OSE-2101)	Neopeptides immunotherapy	NSCLC Mono post-ICI 2L	[Progress bar]	[Progress bar]	[Progress bar]	[Progress bar]	[Progress bar]	Pivotal Phase 3 (EU/US) Positive Results	Phase 3 update Phase 2 presentation Phase 2 readout H1-2026 Phase 2 readout H2-2026 Phase 1b combo data <i>Phase 1b results</i> IND Preclinical update
			Pancreas cancer Combo (IIS)							
			Ovarian cancer combo (IIS)							
			NSCLC Combo 2L (IIS)							
			NSCLC 1L combo OSE-279							
BI 770371	Anti-SIRPα 	Solid tumors (HNSCC)	[Progress bar]			[Progress bar]				
IL-7R CAR-T	IL-7R CAR-T 	IL-7R+ tumors	[Progress bar]			[Progress bar]				
Anti-PD1/cytokine	Undisclosed 	Solid tumors	[Progress bar]			[Progress bar]				

Research platforms

Extra(not) Ordinary Research PowerHouse




Myeloid Checkpoint

- ▶ Anti-SIRPα 
- ▶ Anti-CLEC-1 mAbs




Cis-targeted Cytokine

- ▶ Anti-PD1/cytokine 
- ▶ Cis-Demasking technology



Pro-Resolutive mAb

- ▶ Anti-ChemR23 
- ▶ Undisclosed new pro-resolutive GPCRs



RNA Therapeutics


- ▶ IL-35 mRNA
- ▶ Undisclosed programs

 Partnered Asset

Strategic partners provide industry-leading clinical support & strong financial foundations

Over €2.1bn in potential milestones; €219m* already received

■ Immuno-Oncology ■ Immuno-Inflammation ■ Potential ■ Received




BI 770371
+ anti-PD1/cytokine
Solid tumors & Metabolic Diseases

Up to **€1.1bn**

€104m received

+ Tiered royalties on Global Sales




ABBV-230
Chronic Inflammation

Up to **\$713m**

\$48m upfront

+ Tiered royalties on Global net Sales



Pegrizeprium (FR104)
Kidney Transplant

Up to **€315m**

€13.9m received

+ Tiered royalties on Global Sales

Key potential catalysts*

Readouts



- **Lusvertikimab**
 - ✓ Full data set Phase 2 induction UC [results](#)
 - ✓ UC phase 2 safety [results](#)
 - ✓ Extension period Phase 2 UC [results](#)
 - Biomarkers Phase 2 UC [results](#)
- **Tedopi®**
 - ✓ Phase 2 PDAC readouts
 - Phase 2 PDAC [results](#) presentation
- **BI 770371 (partnered)***
 - Phase 1b [results](#) in solid tumors



Progress

- **Lusvertikimab**
 - Strategic update
- **Tedopi®**
 - Phase 3 NSCLC 2L update
 - Phase 2 combination completion
- **Pegrizeprium (FR104) (partnered)***
 - Phase 2 start in Kidney Tx
- **ABBV-230 (partnered)***
 - IND/Phase 1



Readouts

- **Tedopi®**
 - Phase 3 [results](#) in NSCLC 2L
 - Phase 2 combination [results](#)
- **Lusvertikimab**
 - New study [results](#)
- **BI 770371 (partnered)**
 - Phase 1b onco + Phase 2 MASH [results](#)
- **Pegrizeprium (FR104) (partnered)**
 - Phase 2 [results](#) in Kidney Transplantation
- **ABBV-230 (partnered)**
 - Phase 1 [results](#) + Phase 2 [results](#)



Progress

- **Undisclosed internal Programs**
 - IND/Phase 1
- **New Research programs/platforms**
 - New partnering opportunities

2025

2026-2027

A petri dish with a petri dish lid, a petri dish lid, and a petri dish lid, with a petri dish lid in the background.

Proprietary clinical programs

A silhouette of a diverse group of people of various ages and ethnicities holding hands in a line, set against a sunset or sunrise background. The silhouettes are dark against the lighter, colorful sky. The group includes men, women, and children of different heights and builds, representing a multicultural community.

Lusvertikimab

Most advanced anti-IL-7R mAb

Strong biological rationale in refractory IBD patients

IL-7 fuels chronic inflammation in tissues

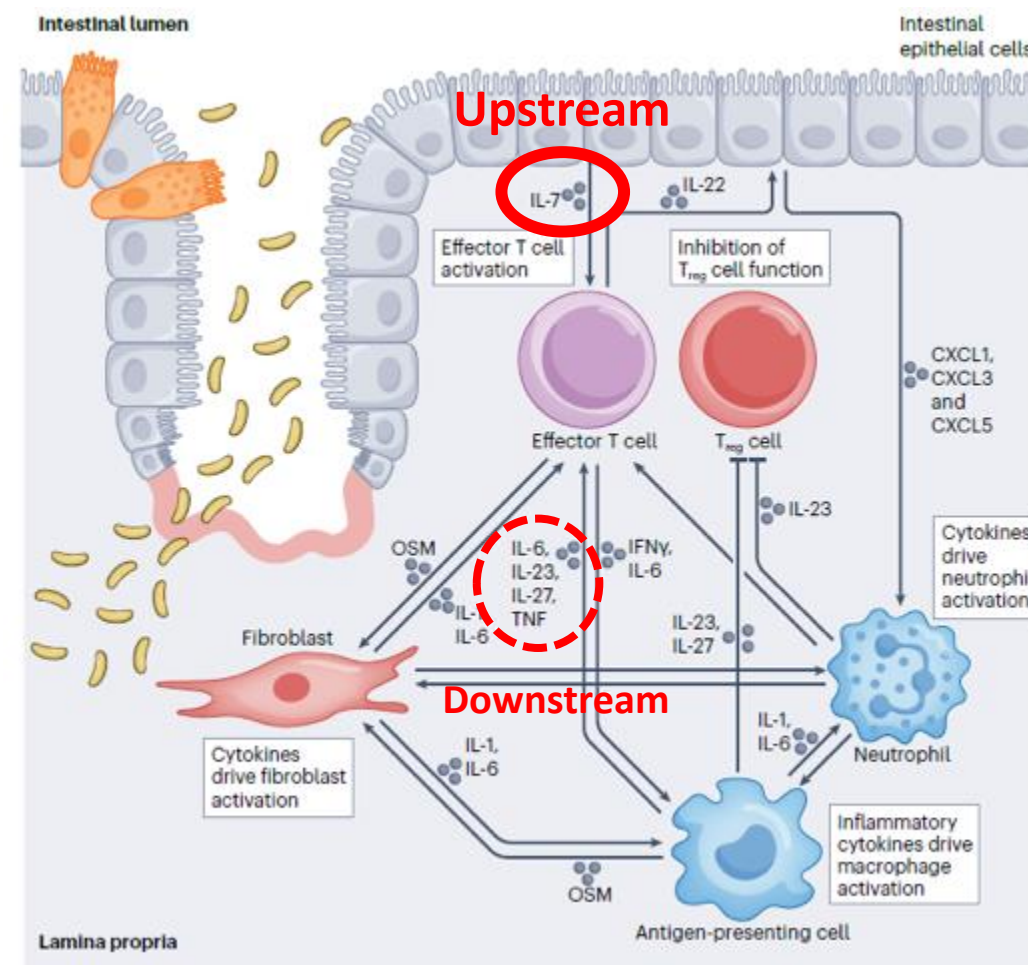
Upstream mechanism of resistance in hyper-inflammation

Recent evidence suggests the presence of highly pro-inflammatory — or ‘angry’ — cells in the intestinal mucosa in inflammatory bowel disease (IBD) that drive molecular resistance to anti-cytokine therapy (such as anti-TNF and anti-IL-12/IL-23 therapies).

‘Intestinal epithelial cells (IECs) produce cytokines such as **IL-7** to activate effector T cells and can produce chemokines such as CXCL1, CXCL3 and CXCL5 to induce neutrophil recruitment and activation.’

Pr. Neurath, *Nature Review Immunology* 2024

Intervening upstream at the IL-7 receptor will prevent molecular signalling transmission by IL-7 through the JAK/STAT5 pathway, while sparing Tregs

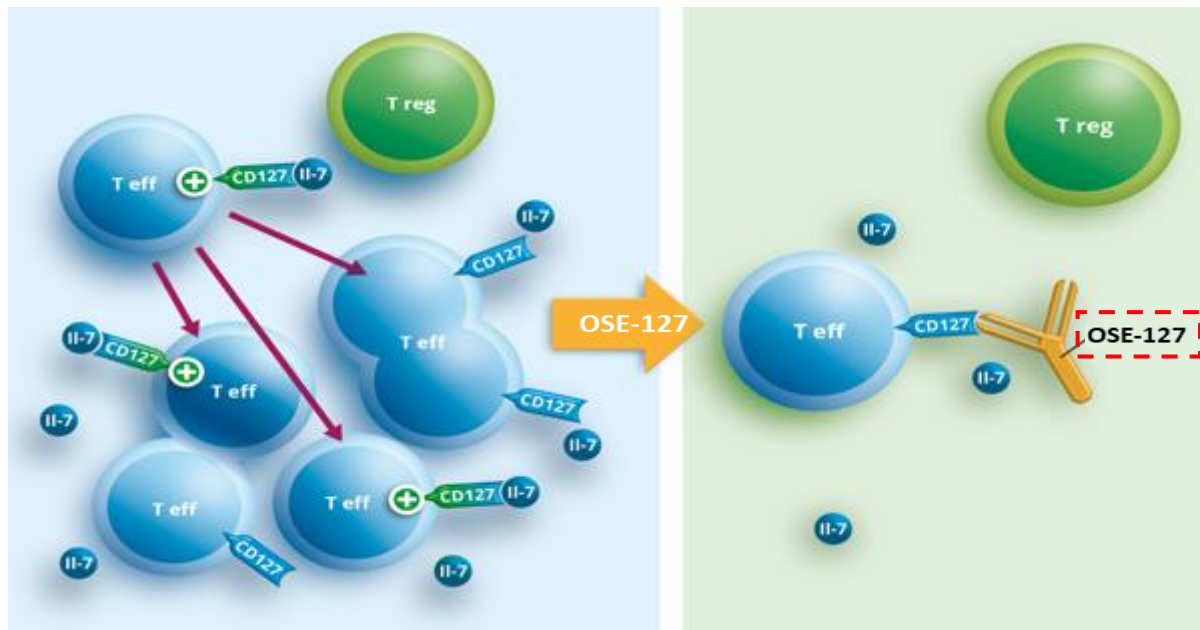


Neurath M. *Nature Review Immunology* 2024

Lusvertikimab / OSE-127

Pure IL-7 receptor antagonist mAb

Tackling the fuel of memory T-lymphocytes while sparing Tregs



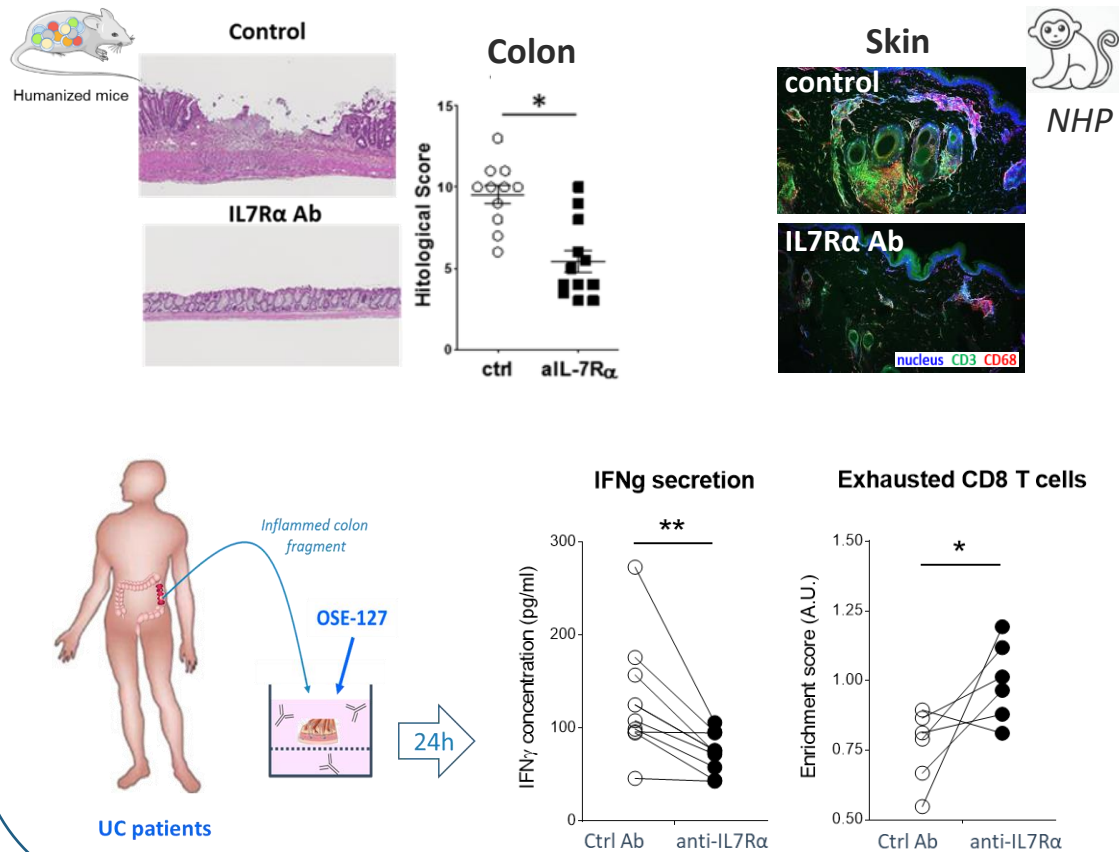
A differentiated IL7R antagonist with positive Phase 2 data in hand

- IL-7 produced by inflamed tissues sustains **T-cell survival and chronicity, drives Th1 and Th17** T cell differentiation
- IL-7R pathway is overexpressed in bio-refractory IBD patients^{1,2}
- High preclinical efficacy in combination²
- Lusvertikimab, first non-internalizing pure antagonist anti-IL-7R mAb³ – no antagonist activity on TSLP
- Good safety, PK/PD profile in Phase 1⁴, no cytokine release, confirmed target-engagement
- **Positive Phase 2 study in UC results released in Q1 & Q2 2025⁵**

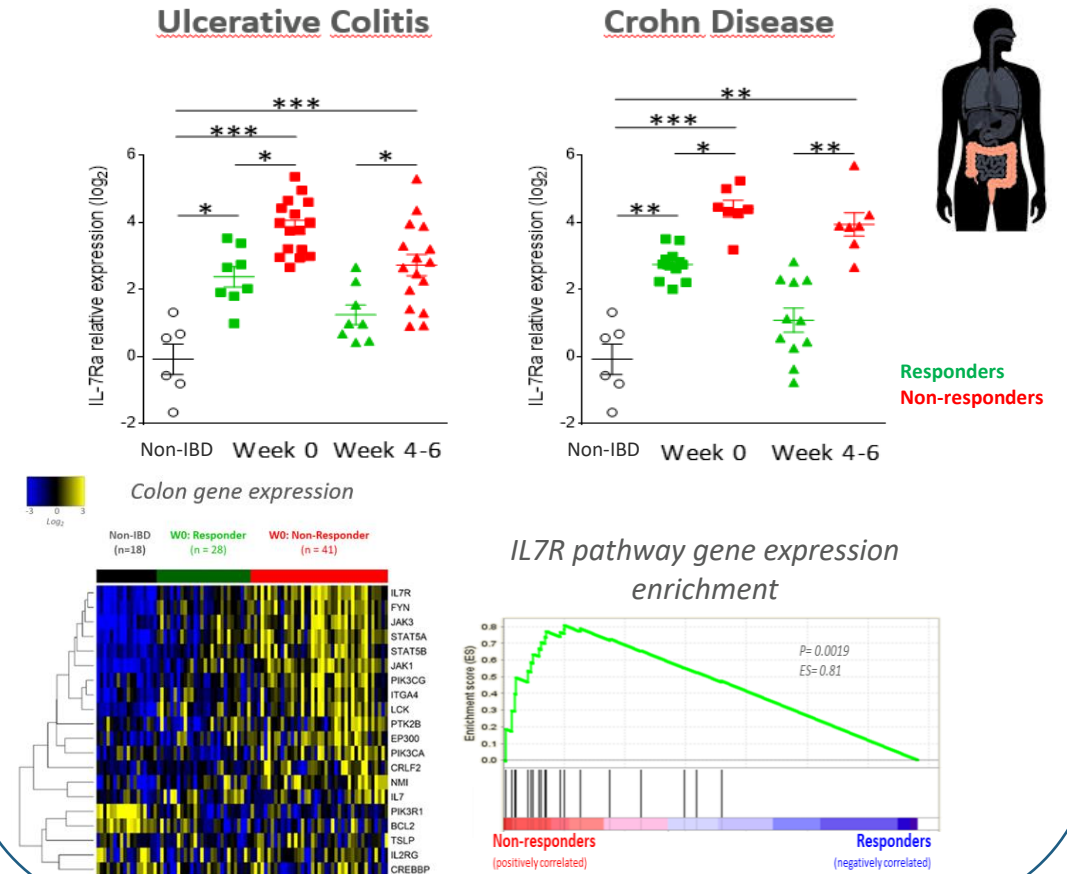
Preclinical & translational research of IL-7 in IBD

High preclinical efficacy *in-vivo* and *ex-vivo* + high target expression in diseased tissues

High preclinical efficacy in different models

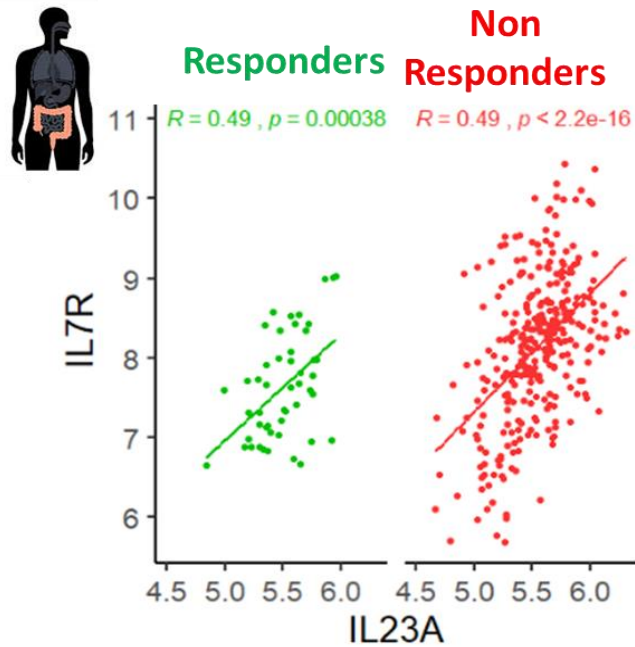


Mucosal IL7R pathway over-expression in IBD High correlation with SOC unresponsiveness



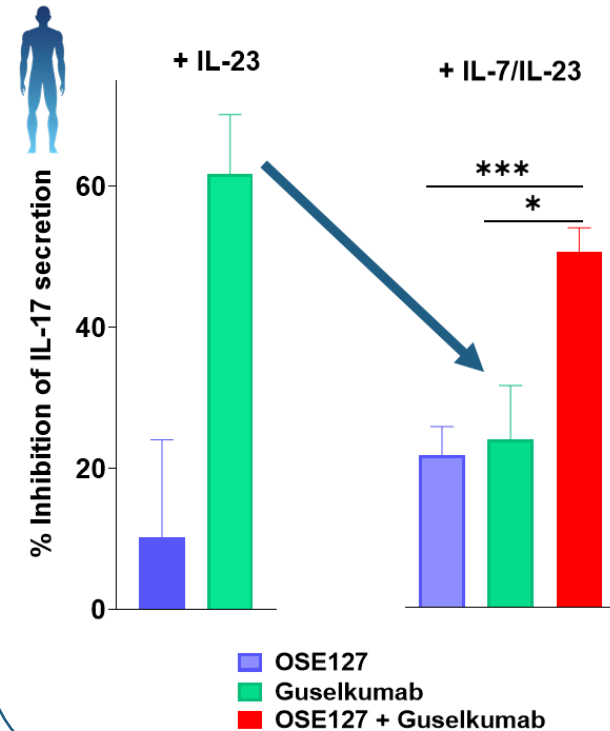
Anti-IL-7R + IL-12/23 combination preclinical & translational rationale

IL-7R and IL-23 cytokine mucosal over-expression in Ustekinumab UC patients



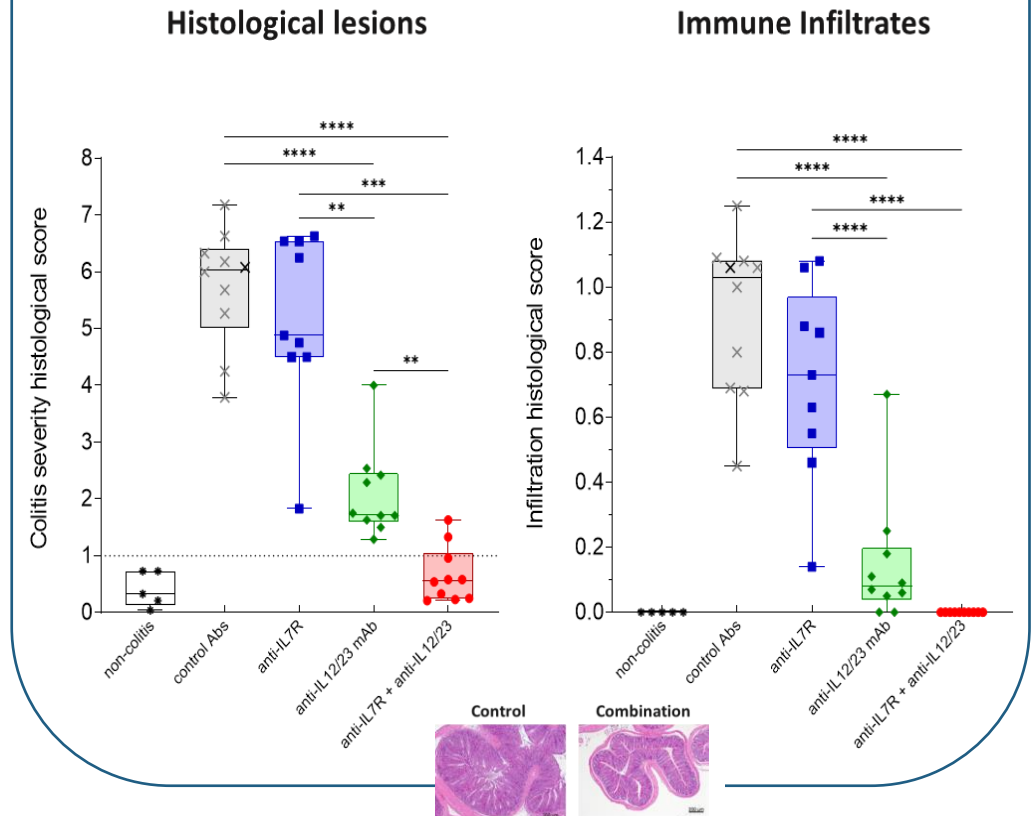
UC colon transcriptomic analysis (GSE206285)

IL-7 drives IL-23 antagonist resistance



In-vitro model: naive human primary Th17 cells differentiation

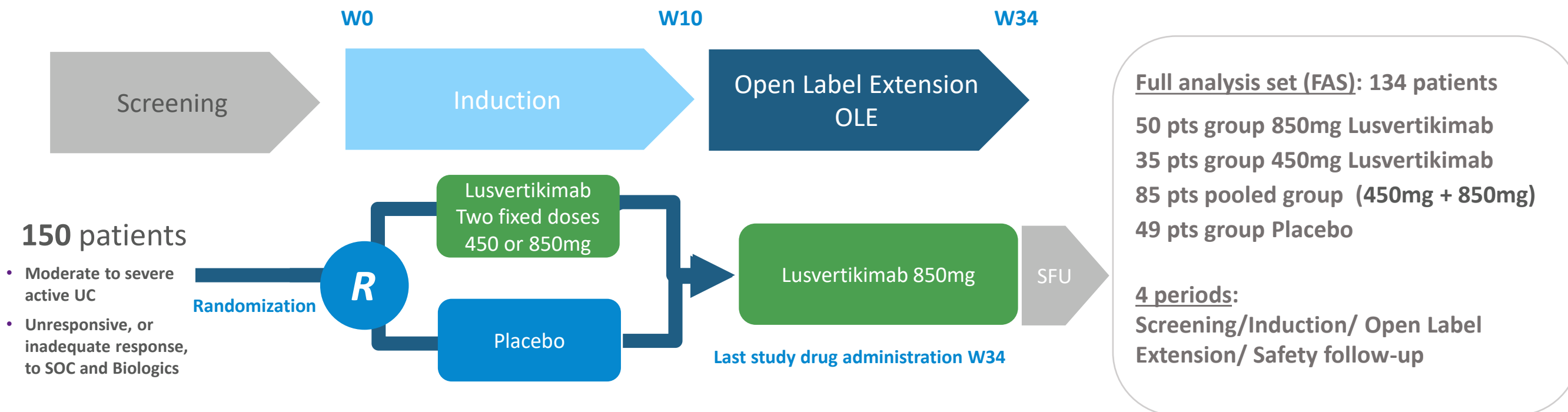
IL-7R + IL-12/23 blockade synergizes to induce complete mucosal healing in chronic colitis



In-vivo model: mouse chronic colitis T-cell transfer model (Epistem)

CoTikiS phase 2 randomized study of Lusvertikimab

Moderate-to-severe ulcerative colitis



Multi-center, European, randomized, double-blind, placebo-controlled, parallel-group Phase 2 study in patients with moderate to severe active UC

Induction: Lusvertikimab 450 mg/ Lusvertikimab 850 mg/ Placebo: IV infusions at Week 0, Week 2, Week 6. Analysis at Week 10

Open Label Extension: At Week 10, additional infusions for all patients at 850 mg every 4 weeks for 6 months (W10, 14, 18, 22, 26, 30, 34)

IBD clinical Advisory Board, and what they say

"These data suggest that Lusvertikimab has the potential to be a game-changer, either as a monotherapy or in combination. Some additional exploration to understand best dosing will be valuable."

Vipul Jairath
London, Canada



"The trial was well-conducted, with robust data and a low placebo rate. This is very encouraging endoscopic data for such an early stage of development. The potential for Lusvertikimab in the treatment landscape is therefore very promising. Further studies and strategic planning are needed to realize its full potential."

Laurent Peyrin-Biroulet
Nancy, France



"We have a new mode of action in UC with a strong safety profile. These full Phase 2 clinical induction results provide strong efficacy data for Lusvertikimab in UC, particularly highlighting the meaningful achievement in the key endpoints of endoscopic remission and histological improvement after only 10 weeks of treatment. The latest data showing high histo-endoscopic mucosal improvement (HEMI) and mucosal healing rates represent a strong signal of efficacy"

Arnaud Bourreille
Nantes, France



"There is little true innovation in our field. Given the promising results, Lusvertikimab could play a significant role, particularly in treating refractory patients."

Silvio Danese
Milan, Italy



"Lusvertikimab has been shown to significantly decrease FCP, an objective inflammatory biomarker most commonly used in clinical practice to monitor treatment response in patients with ulcerative colitis. These data confirm the overall results of the primary and secondary endpoints from the CoTikiS study, highlighting the potential of Lusvertikimab as an efficacious therapy for all UC patients, also by normalising increased baseline FCP values."

Walter Reinisch
Vienna, Austria



Bruce Sands
New-York, USA



CoTikiS - demographics and disease characteristics

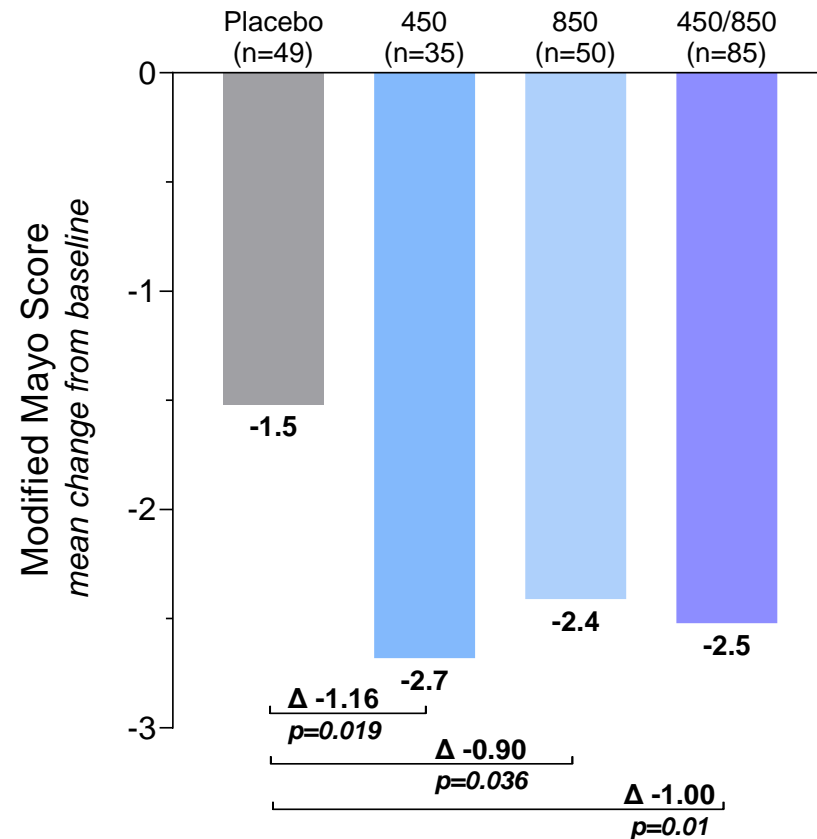
850 mg group slightly more severe disease than 450 mg and/or placebo groups

	Placebo (n=49)	450 mg (n=35)	850 mg (n=50)	Total (n=134)
Age: mean (SD)	42.7 (15.9)	38.8 (10.5)	42.5 (15.1)	41.6 (14.4)
Sex: male	28 (57.1%)	22 (62.9%)	27 (54.0%)	77 (57.5%)
Weight (kg) mean (SD)	75.3 (15.2)	72.8 (16.2)	71.5 (18.0)	73.2 (16.5)
Never smoker	39 (79.6%)	25 (71.4%)	43 (86.0%)	107 (79.9%)
Never alcohol consumption	34 (69.4%)	25 (71.4%)	40 (80.0%)	99 (73.9%)
Region: EU Country	22 (44.9%)	8 (22.9%)	22 (44.0%)	52 (38.8%)
UC duration (years) mean (SD)	8.2 (7.5)	7.2 (6.5)	9.3 (8.6)	8.4 (7.7)
Previous exposure to biologics	19 (38.8%)	5 (14.3%)	19 (38.0%)	43 (32.1%)
<i>Previous biologics: 2+</i>	11 (57.9%)	2 (40%)	13 (68.8%)	26 (60.4%)
<i>Previous biologics: 3+</i>	5 (26.3%)	0 (0%)	6 (31.5%)	11 (25.6%)
Concomitant use of steroids	23 (46.9%)	18 (51.4%)	25 (50.0%)	66 (49.3%)
Modified mayo score (mMS) Mean (SD)	6.6 (1.2)	6.0 (1.4)	6.5 (1.0)	6.4 (1.2)
Category of mMS				
5-6	21 (42.9%)	17 (48.6%)	25 (50.0%)	63 (47.0%)
7-9	26 (53.1%)	13 (37.1%)	25 (50.0%)	64 (47.8%)
Endoscopic subscore mean (SD)	2.5 (0.5)	2.4 (0.5)	2.6 (0.5)	2.5 (0.5)
Category of endoscopic subscore: 3	26 (53.1%)	15 (42.9%)	32 (64.0%)	73 (54.5%)
C-Reactive protein (mg/L) Mean (SD)	8.6 (13.6)	9.4 (16.7)	11.2 (18.1)	9.8 (16.1)
Serum albumin (g/L) Mean (SD)	42.3 (4.4)	42.6 (4.5)	40.8 (5.4)	41.8 (4.9)
FCP (µg/g) mean (SD)	1459.5 (1865.0)	1088.0 (1600.5)	1191.8 (1603.3)	1261.6 (1696.7)

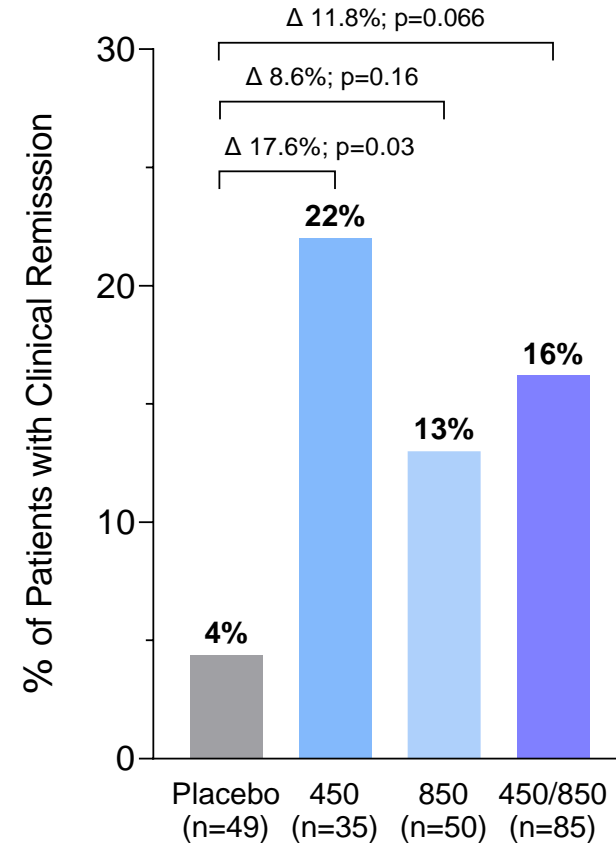
Clinical induction results at week 10

Clinically and statistically meaningful outcomes in the Lusvertikimab-treated groups

Primary Endpoint: Modified Mayo Score Improvement (MMS)*^μ at W10



Clinical Remission at W10



clinical remission: MMS ≤ 2 with no subscore > 1 and a RB 0, SF ≤ 1 , MES 0 or 1

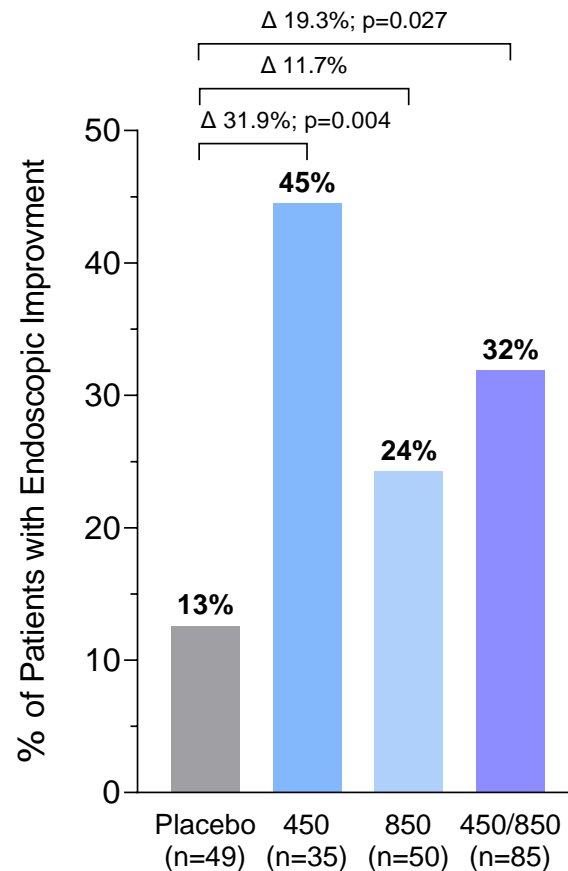
*MMS Improvement defined on mean change at Wk 10 from baseline on the 3 subscores: rectal bleeding, stool frequency, endoscopic (central reading)

^μ Least Square Mean Difference between Lusvertikimab and placebo= difference between groups of the Mean change in MMS between baseline and W10

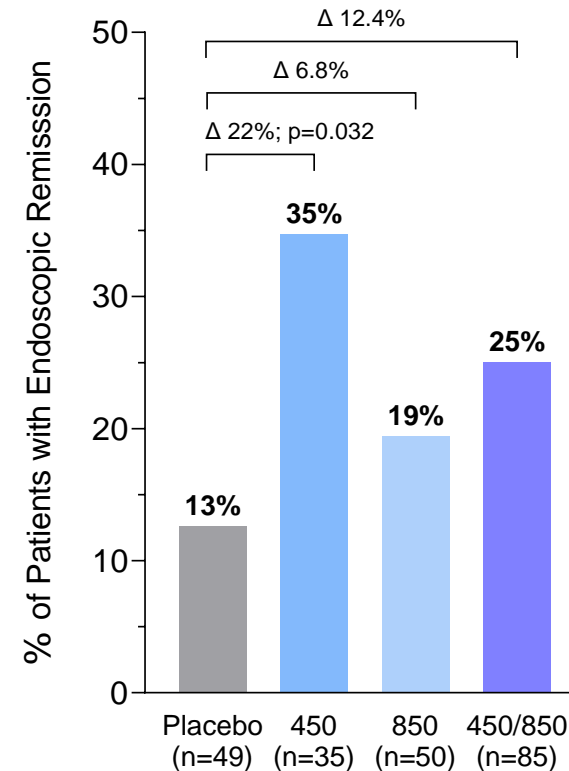
Clinical induction results at week 10

Clinically meaningful and significant endoscopic improvement and remission

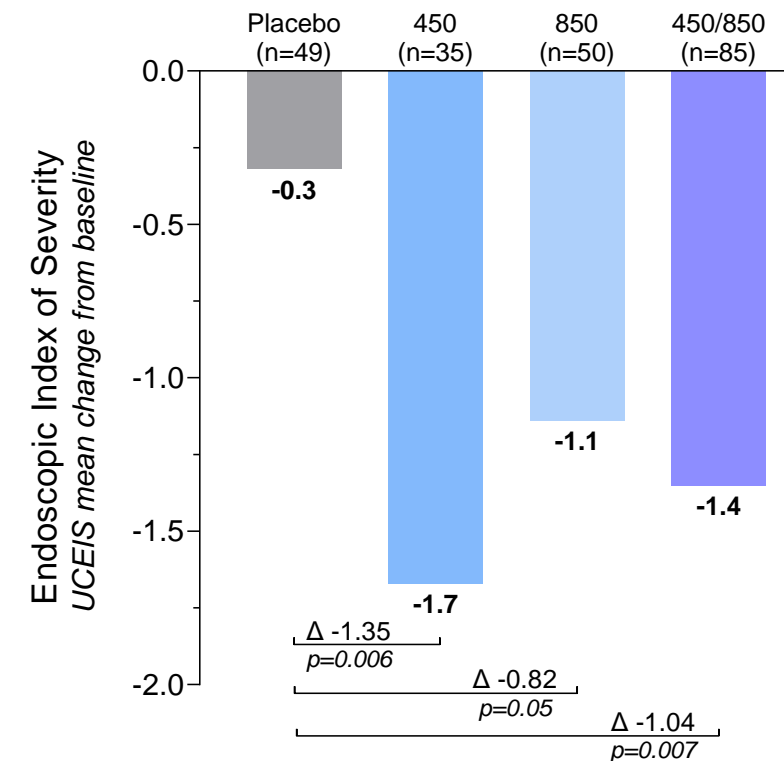
Endoscopic Improvement* at W10



Endoscopic Remission** at W10



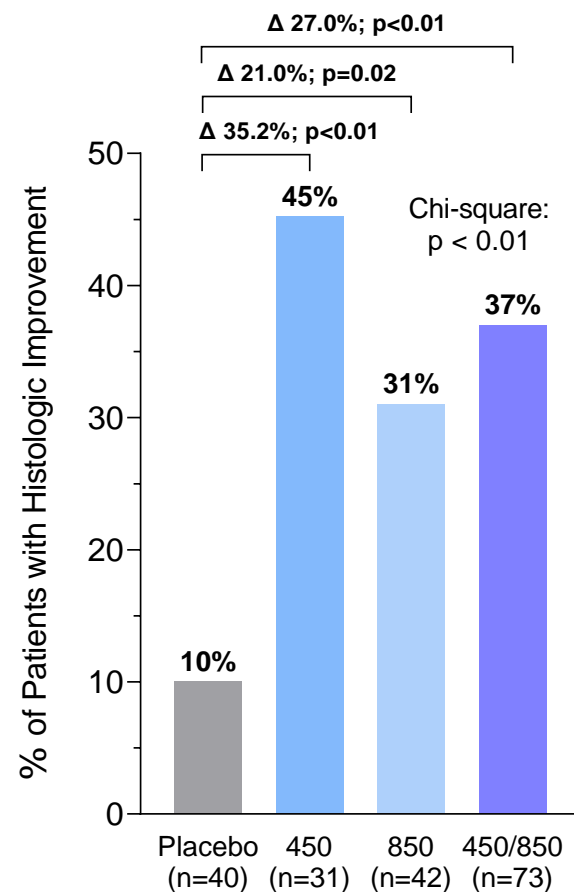
UC Endoscopic Index of Severity UCEIS*** change from baseline at W10



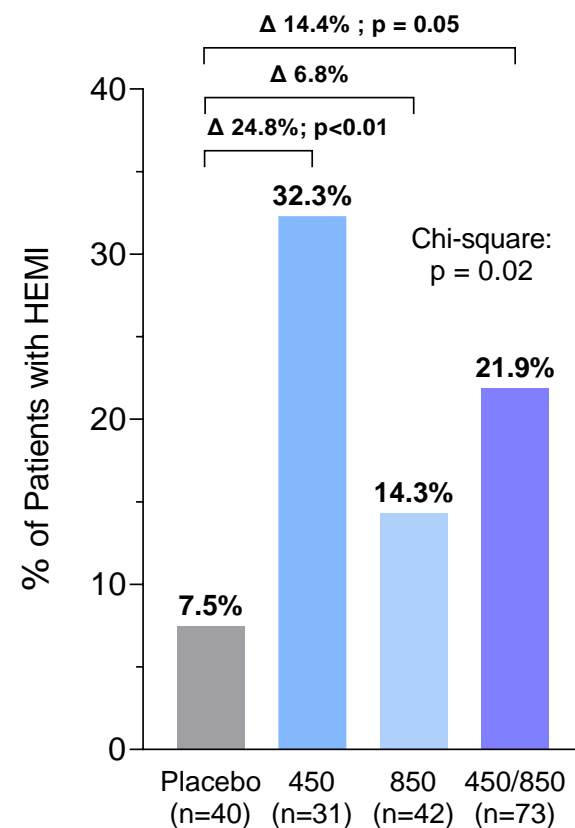
Clinical induction results at week 10

Clinically meaningful and significant histological and histo-endoscopic mucosal improvement

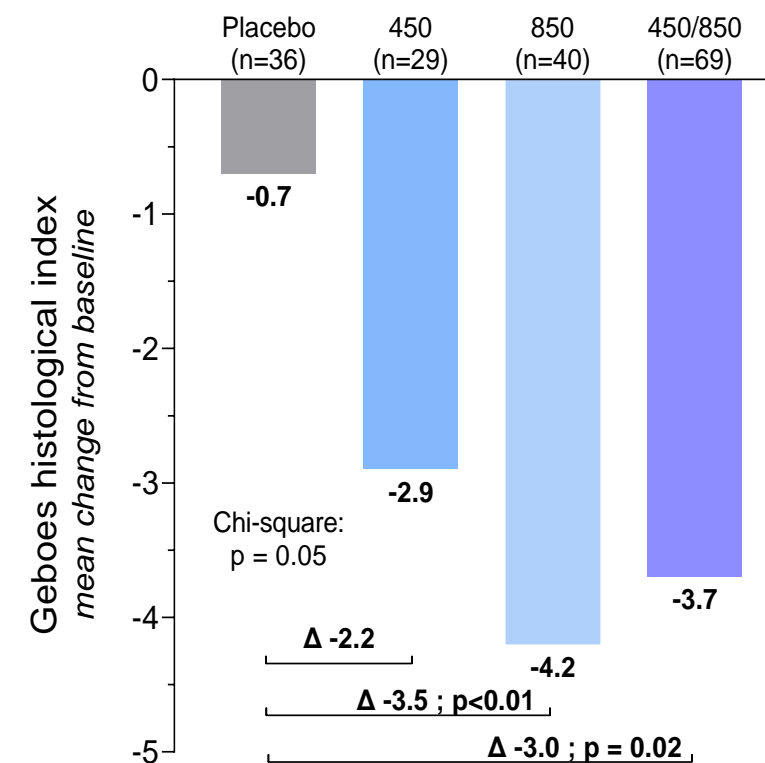
Histological Improvement at W10*



Histo-Endoscopic Mucosal Improvement (HEMI) at W10**



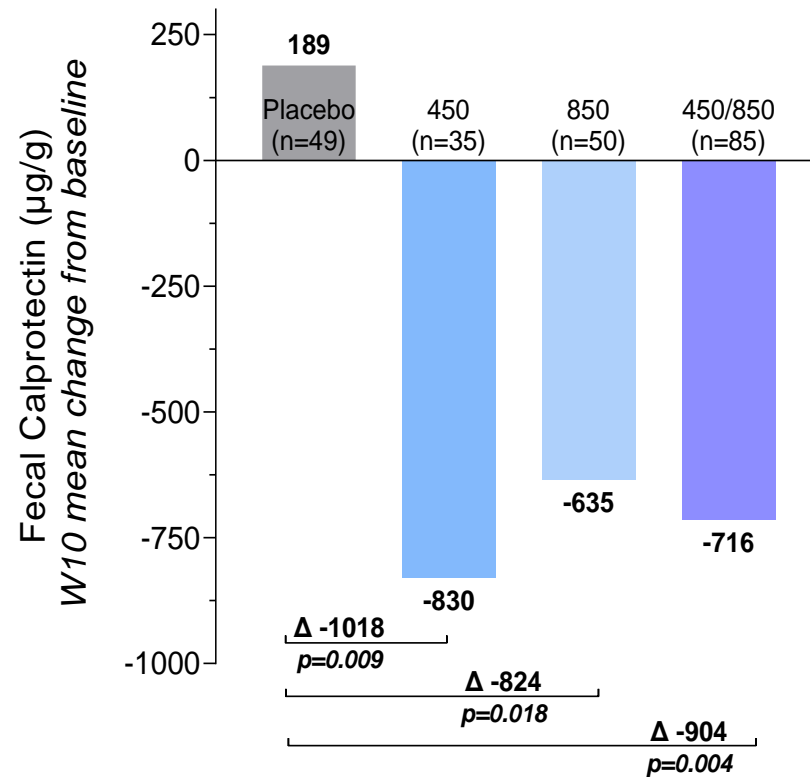
Histological Geboes index change from baseline at W10



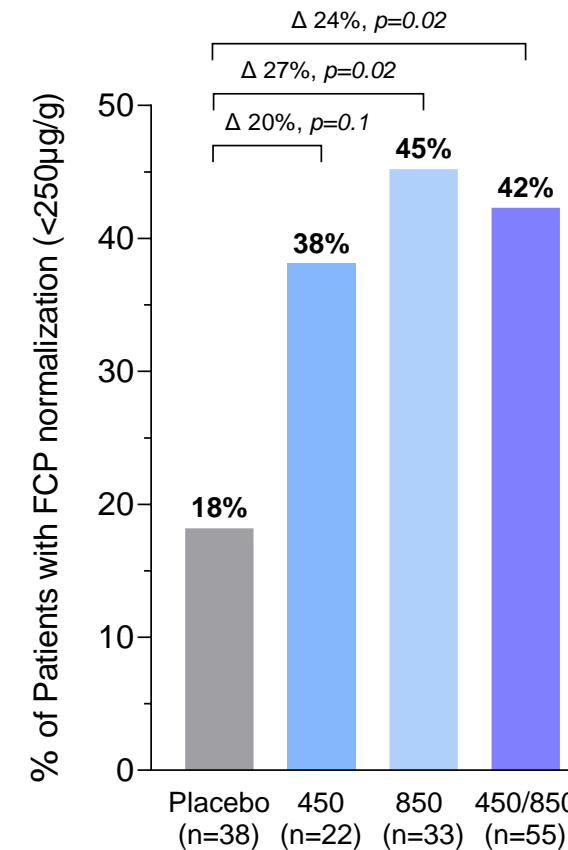
Subgroup analysis: clinical induction at week 10

Significant fecal calprotectin decrease and normalization

Fecal calprotectin (FCP) changes from baseline at W10



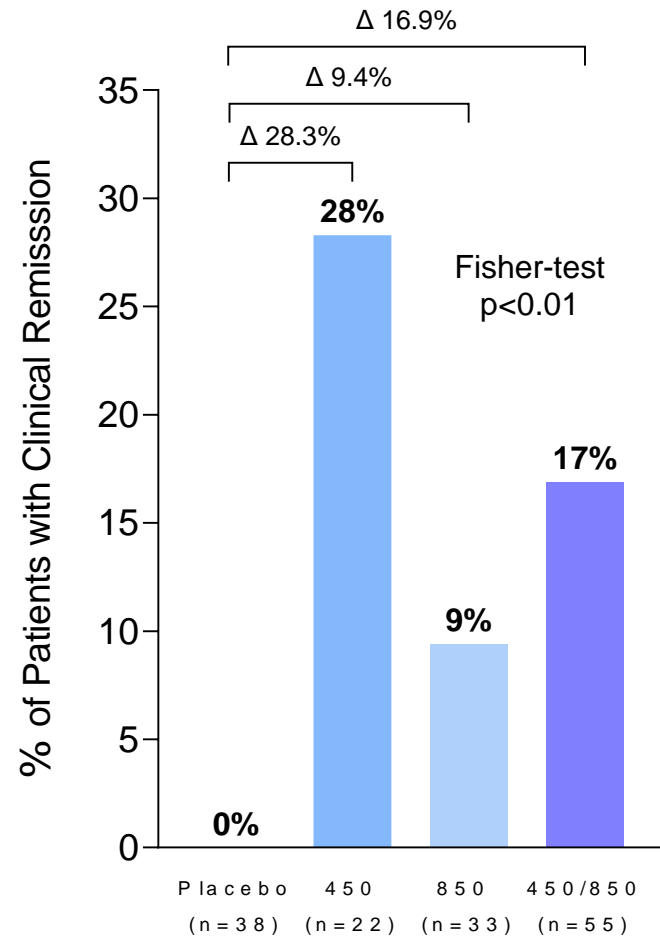
FCP normalization at W10 in patients with high baseline FCP (>250µg/g)



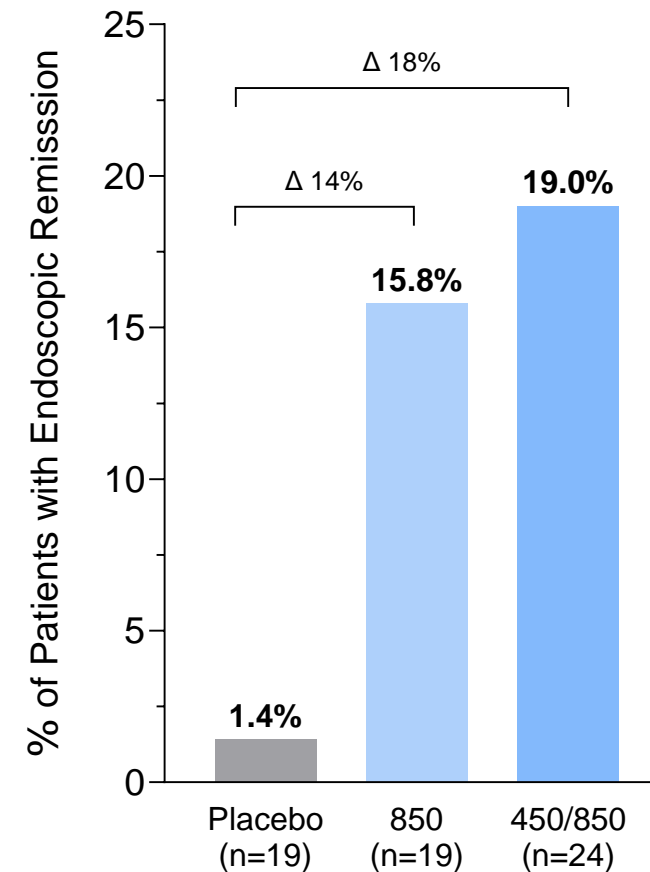
Subgroup analysis: clinical induction at week 10

Lusvertikimab induced clinical and endoscopic remission in high disease activity & biologics-experienced populations

Patients with high baseline FCP
(Fecal Calprotectin >250µg/g)

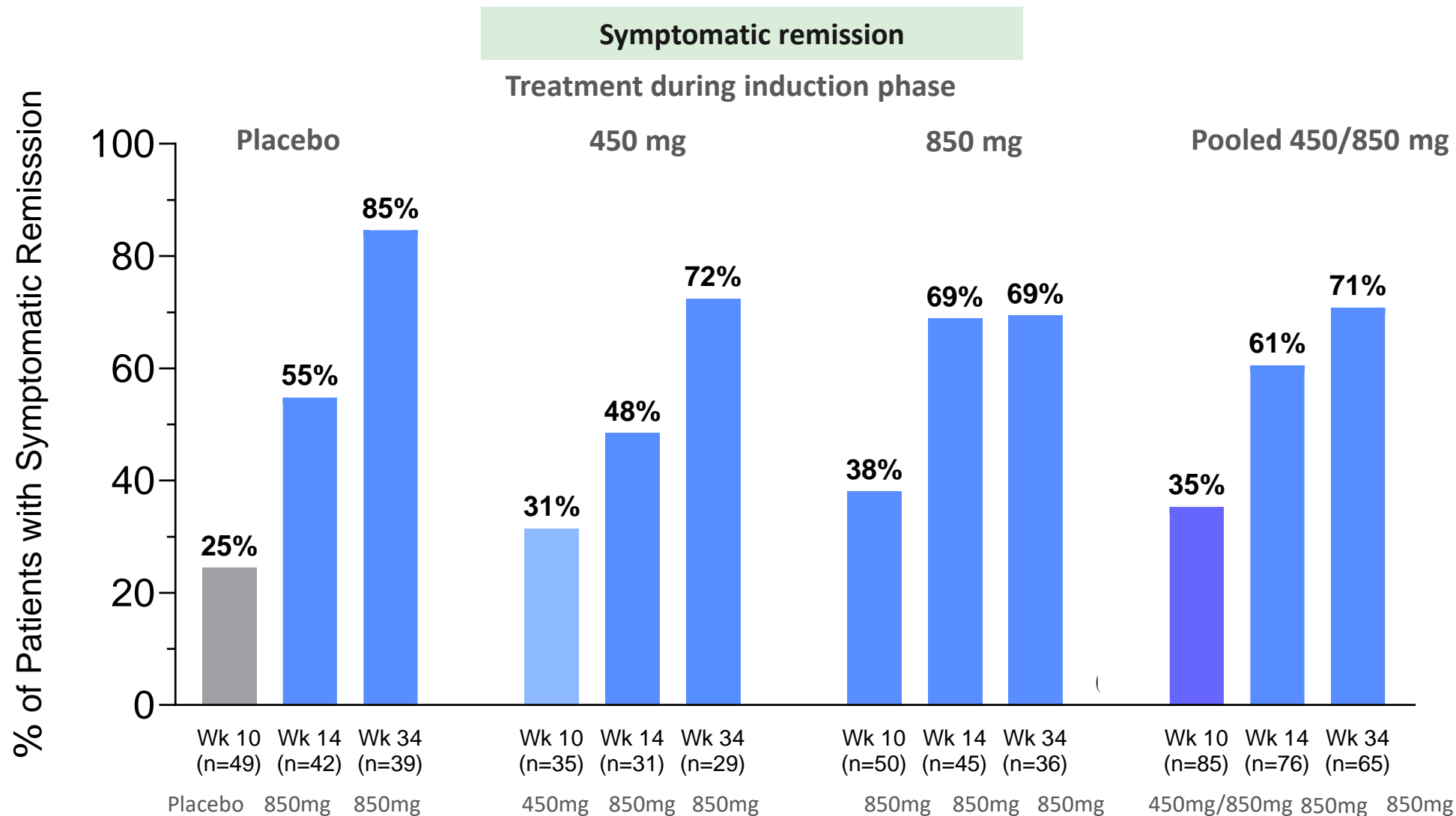


Patients with previous exposure
to biologics



PRO2 results in the open label extension (OLE)

Symptomatic remission rates improved for all groups, with 850 mg induction dose group plateauing earlier in the OLE

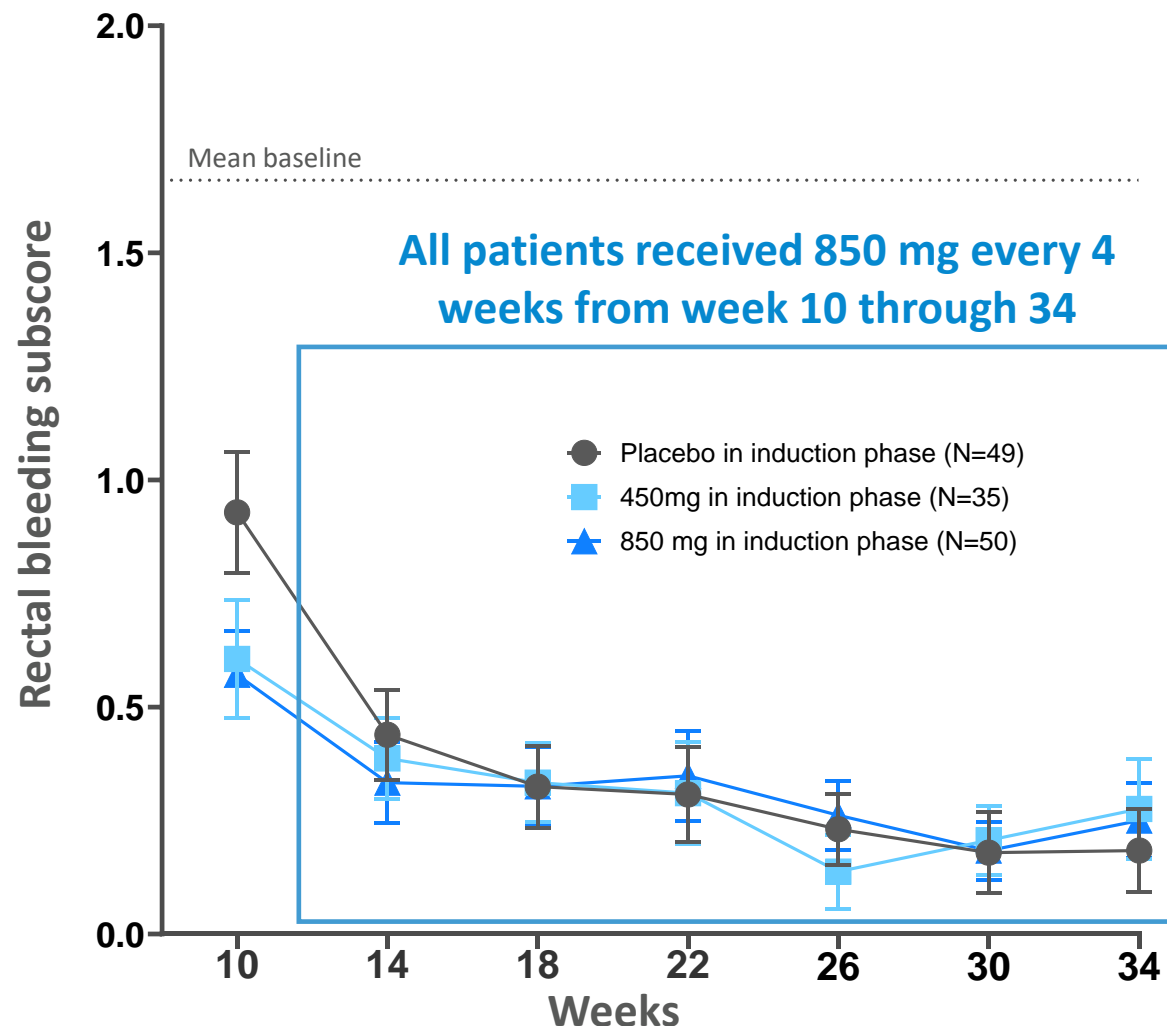


All patients received 850 mg every 4 weeks from week 10 through 34

*Symptomatic remission defined as patients with PRO2 ≤ 1 and RBS=0

Patient reported outcomes in the open label extension

Deepening of efficacy response from end of induction at week 10 through week 14 of the OLE



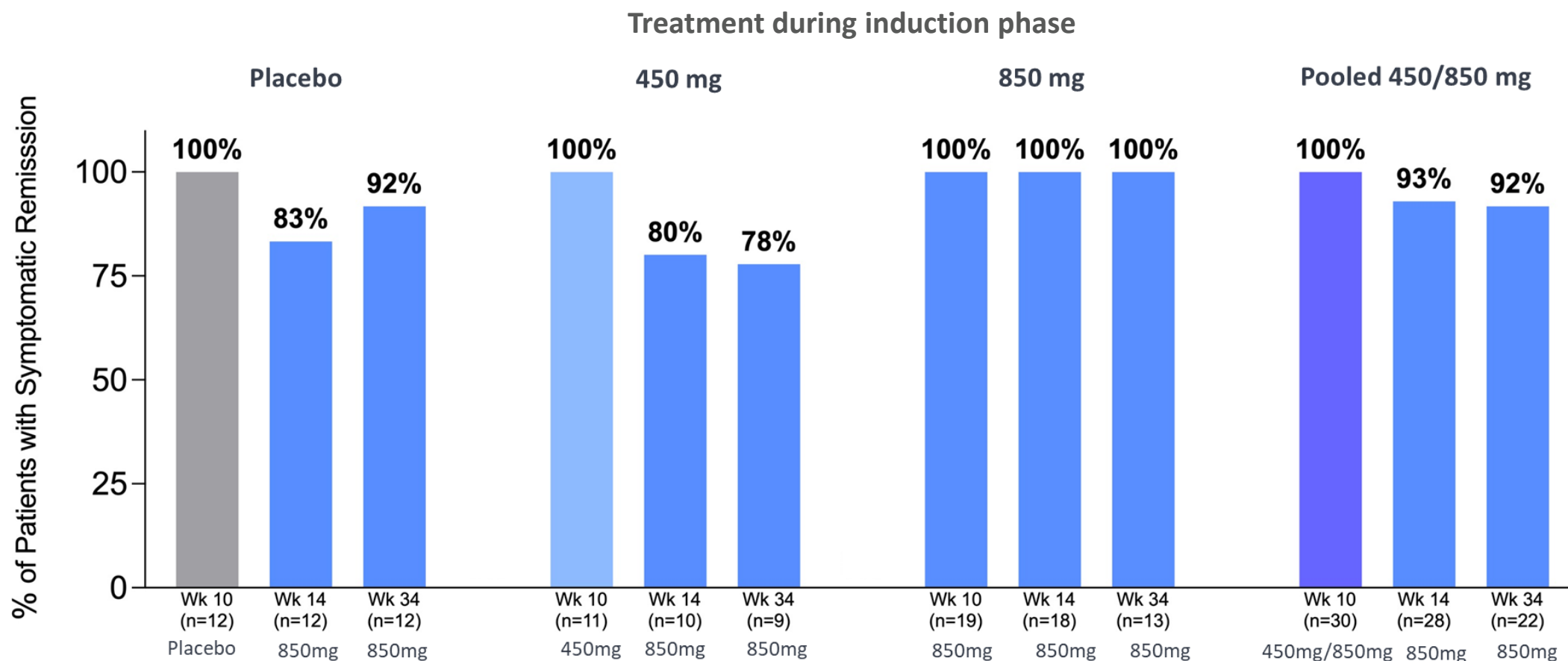
- ☐ 87% of patients who entered the OLE completed W34
- ☐ Rectal Bleeding Improvement* (RB ≤ 1): 96% at W34
 - W10: 88% in pooled Lusvertikimab (end of induction phase)
 - W14: 97% in all OLE patients (850 mg week 10)
 - W34: 95% in all OLE patients (850 mg weeks 10 to 34)
- ☐ Rectal Bleeding Remission* (RB = 0): 82% at W34
 - W10: 54% in pooled Lusvertikimab (end of induction phase)
 - W14: 66% in all OLE patients (850 mg week 10)
 - W34: 82% in all OLE patients (850 mg weeks 10 to 34)

* for those providing data

PRO2 results in the OLE for week 10 responders*

Patients in symptomatic remission at end of induction & through the OLE

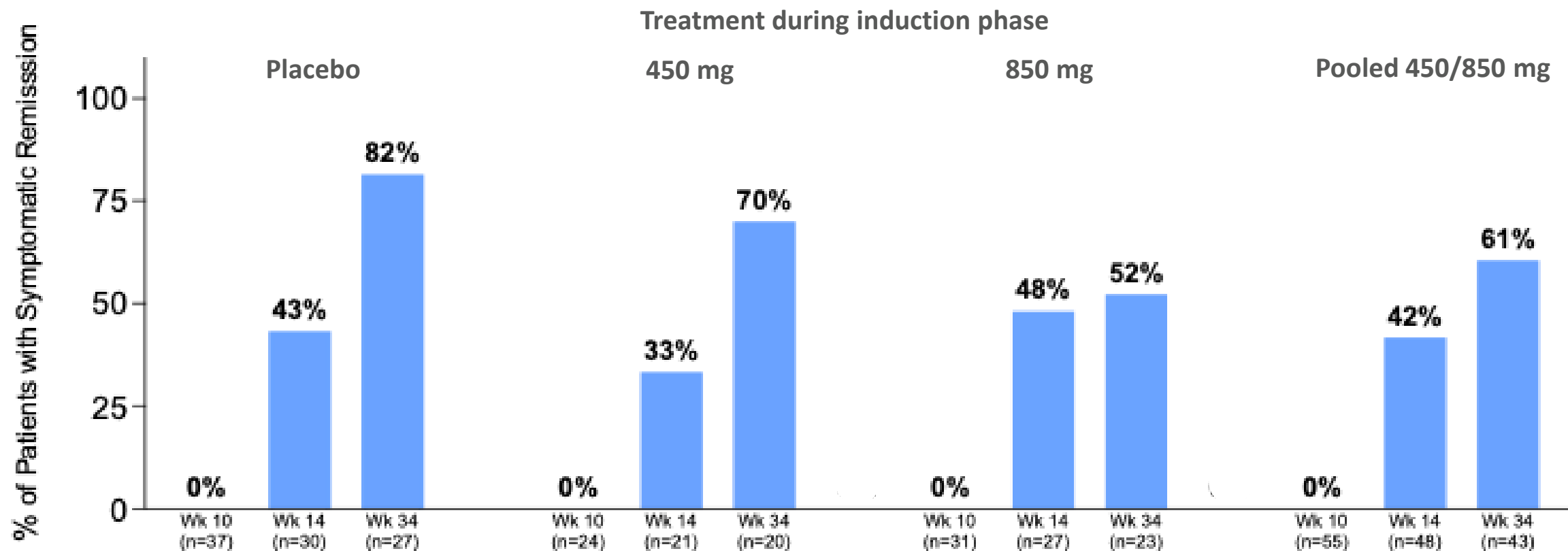
Symptomatic remission in week 10 responders



PRO2 results in the OLE for week 10 non-responders*

Patients who were non-responders at end of induction who achieved symptomatic remission in the OLE

Symptomatic remission in week 10 non-responders



Safety in induction phase

	Placebo (N=49) N(%) [E]	450 mg (N=36) N(%) [E]	850 mg (N=51) N(%) [E]	Total (N=136) N(%) [E]
At least one TEAE	16 (32.7) [29]	17 (47.2) [33]	20 (39.2) [42]	53 (39.0) [104]
At least one TEAE related to study treatment	1 (2.0) [1]	3 (8.3) [4]	4 (7.8) [14]	8 (5.9) [19]
At least one serious TEAE	3 (6.1) [3]	2 (5.6) [3]	2 (3.9) [3]	7 (5.1) [9]
At least one serious TEAE related to study treatment	—	1 (2.8) [1]	—	1 (0.7) [1]
At least one severe TEAE	2 (4.1) [2]	1 (2.8) [2]	—	3 (2.2) [4]
At least one severe TEAE related to study treatment	—	1 (2.8) [1]	—	1 (0.7) [1]
At least one related TEAE leading to death	—	—	—	—
At least one TEAE leading to drug withdrawal	3 (6.1) [3]	2 (5.6) [3]	—	5 (3.7) [6]
At least one TEAE leading to drug interruption	2 (4.1) [2]	1 (2.8) [1]	—	3 (2.2) [3]
At least one TEAE leading to study discontinuation	3 (6.1) [3]	2 (5.6) [3]	—	5 (3.7) [6]
At least one AESI	6 (12.2) [7]	7 (19.4) [7]	9 (17.6) [10]	22 (16.2) [24]
At least one infection	6 (12.2) [7]	5 (13.9) [5]	7 (13.7) [8]	18 (13.2) [20]
At least one lymphopenia < 500 10 ⁶ /L	—	2 (5.6) [2]	2 (3.9) [2]	4 (2.9) [4]

Lusvertikimab was well tolerated with an acceptable safety profile

Lymphopenia was transient, not associated with a higher rate or severity of infection, was more frequent in patients treated with corticosteroids or with baseline values <1*10⁹/L and did not lead to treatment discontinuation

Safety in OLE phase AESI (>1%)

All patients received 850 mg every 4 weeks in the OLE from week 10 through 34

Induction phase dose group:	Placebo (N=49) N(%)	450 mg (N=36) N(%)	850 mg (N=51) N(%)	Total (N=136) N(%)
At least one AESI	10 (23.8%)	9 (29.0%)	16 (34.0%)	35 (29.2%)
Covid-19	3 (7.1%)	3 (9.7%)	6 (12.8%)	12 (10.0%)
Nasopharyngitis	1 (2.4%)	1 (3.2%)	2 (4.3%)	4 (3.3%)
Lymphopenia	2 (4.8%)	1 (3.2%)	—	3 (2.5%)
Asymptomatic Covid-19	—	1 (3.2%)	1 (2.1%)	2 (1.7%)
Influenza	1 (2.4%)	—	1 (2.1%)	2 (1.7%)
Sinusitis	—	—	2 (4.3%)	2 (1.7%)

N: number of patients with the event

No increase in incidence or severity of AESI during the 24 weeks of OLE

Grade 3 lymphopenia reported in 2.5% of patients: all 3 patients had grade 1 (2 patients) or grade 2 (1 patient) lymphopenia at baseline

CoTikiS Phase 2 study of Lusvertikimab highlights

- Lusvertikimab demonstrated high clinical, endoscopic, and histological efficacy vs placebo at week 10 at both 450 and 850mg doses in moderate to severe UC patients
- 89% of the CoTikiS patients entered the open label extension phase and 87% of them completed
- UC symptoms continued to improve in both the 450 mg and 850 mg dose groups through week 14
- Symptomatic remission was maintained in >90% of the responders at W10 (100% with high dose)
Among non-responders at W10, 69% experienced symptomatic remission at W34 following 24 weeks of treatment with 850 mg Lusvertikimab
- Lusvertikimab was safe and well tolerated; no increase in rate or severity of infection observed

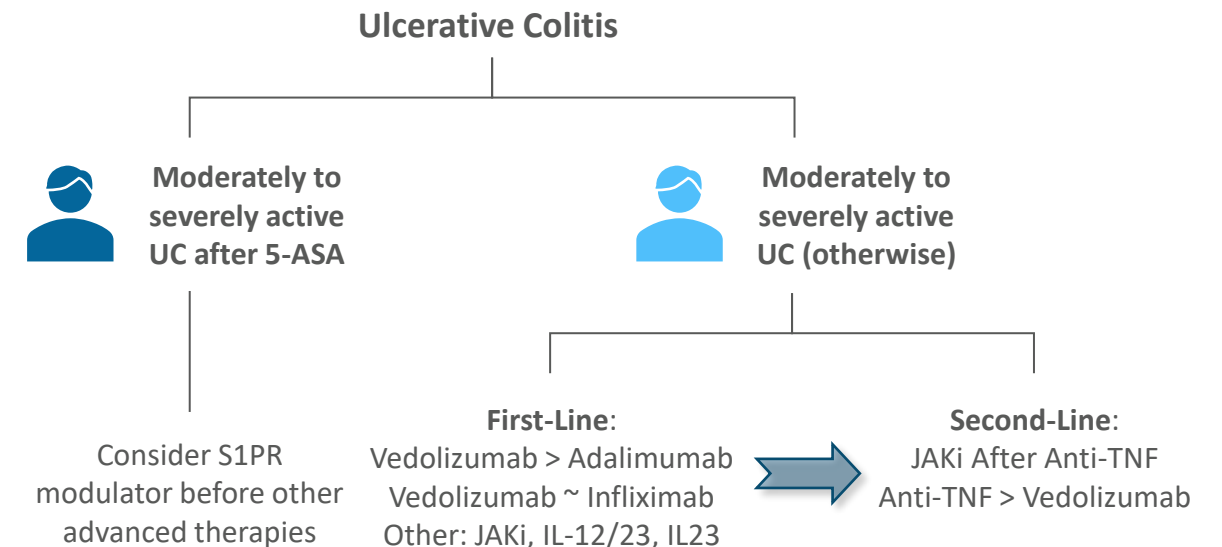
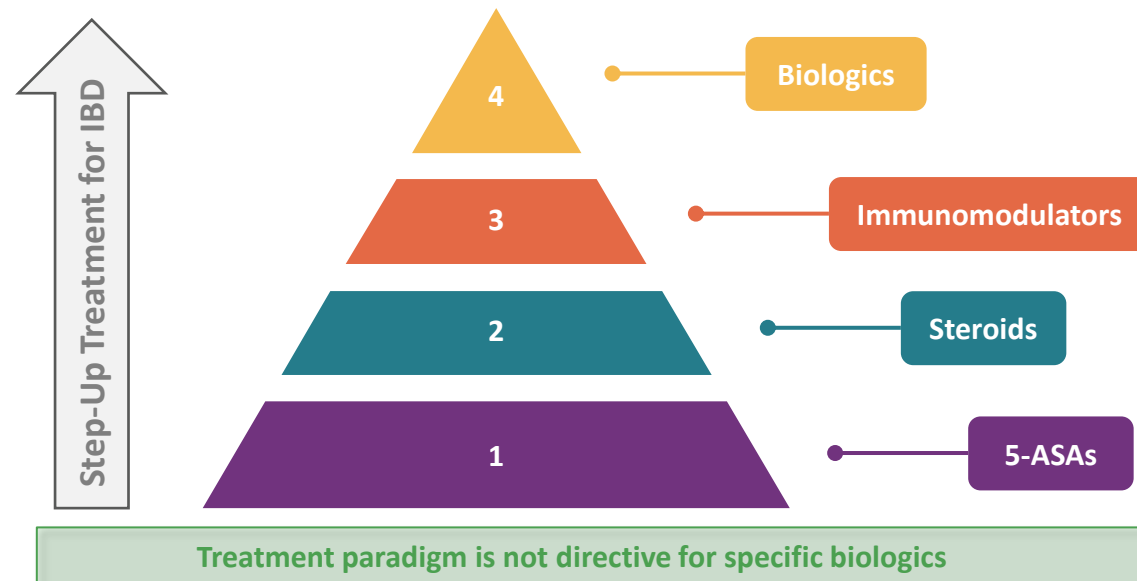
Market opportunity for UC supports multiple players

Background, epidemiology & market opportunity

- Chronic disabling bowel disease characterised by **inflammation of the colon & rectum**, with continuous and non-transmural involvement
- It generally begins in young adulthood and lasts throughout life, with significant impacts on quality of life
- Treatment goals focus on controlling disease & improving patient outcomes
- Affects **~1.5M in NA & 5M globally**, with **annual incidence 15:100,000¹**
- Market size of **\$7.3B** and growing at a **4% CAGR**

Unmet need & positioning in the UC market

- Despite new agents targeting inflammatory pathways (e.g. anti-TL1-As), only **~20-30%** of UC patients **achieve remission on 1st treatment** and < 50% of these maintain remission¹
- A range of approaches are required for this **heterogeneous disease**, which **Lusvertikimab**, a first-in-class anti-IL-7R, **shows potential to address**
- Robust preclinical package supporting synergistic combination potential with SOC (e.g. IL23, TNF)
- **Lusvertikimab is differentiated on safety**; no signals of increased risk of infections, PML, CV issues or macular edema observed in approved therapies



An anatomical illustration of human lungs, rendered in a blue, semi-transparent style. The left lung (viewer's right) is highlighted with a glowing red and yellow tumor. The right lung (viewer's left) shows the bronchial tree structure. The background is a dark blue gradient.

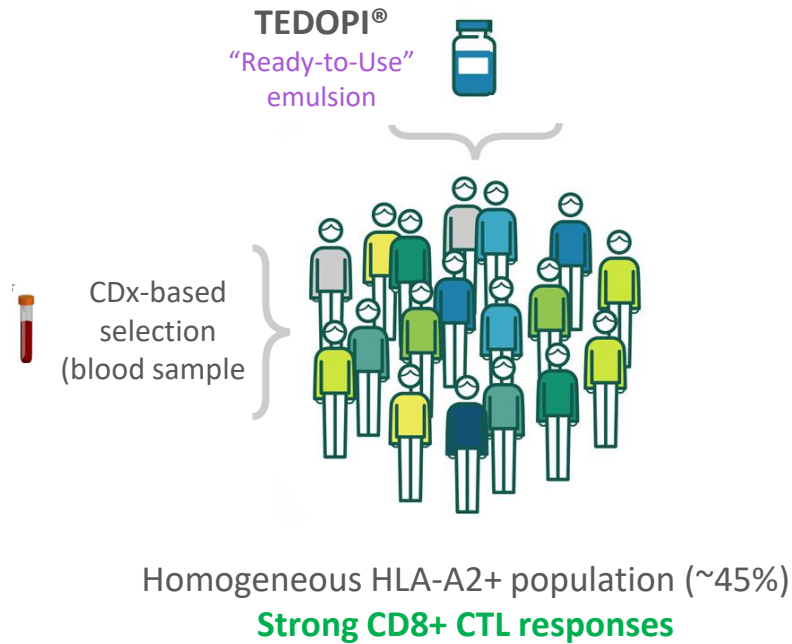
TEDOPI®

Most Advanced Therapeutic Cancer Vaccine

Bringing new hope to patients in the fight against ICI resistant NSCLC

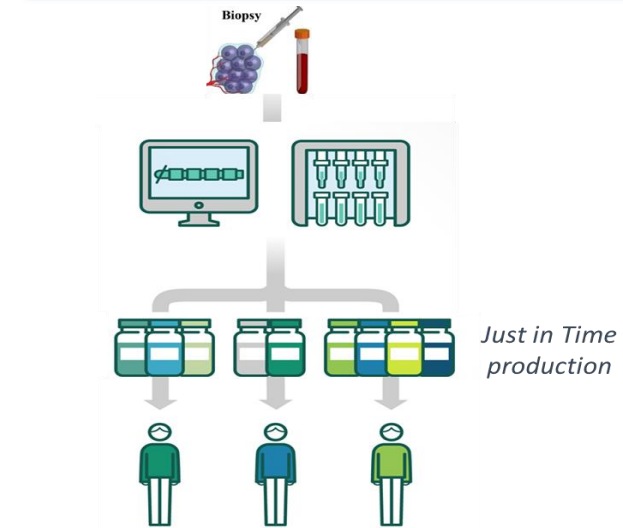
Personalized vs *Off-the-Shelf* cancer vaccines

Neoepitope cancer vaccine
= **Precision Medicine**
-> *Off-the-Shelf*



Positive data to extend survival in metastatic disease
(randomized Phase III NSCLC)

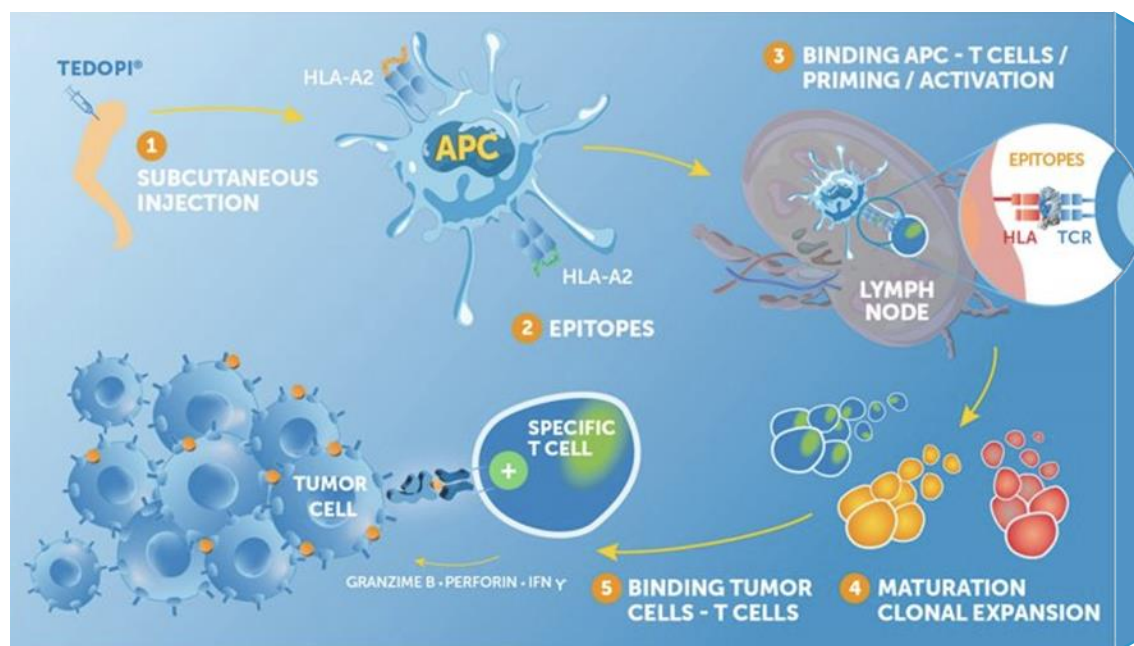
Neoantigen cancer vaccine
= **Personalized Medicine**
-> *Custom*



Cons: Tumor biopsy, **Cost**, Time
Epitope prediction robustness
Variable responses/immunogenicity

Adjuvant treatment at early stage to prevent tumor relapse
(non-randomized phases I/II to date)

An immunotherapy activating specific T-cells to revive anti-tumor response



Most advanced Cancer Vaccine in clinical development

- **Unique** combination of **neopeptides**: small peptides deriving from **tumor specific** antigens* expressed in various cancers
- Strong **binding to HLA-A2** receptor (45% population)
- **Direct activation of tumor specific T-cells differs from checkpoint inhibitors** releasing the break of immune response

Proprietary combination
(9 **optimized neopeptides**
+ 1 epitope giving universal
T helper response)

Induces early T cell
memory responses
+
Migration in tissues

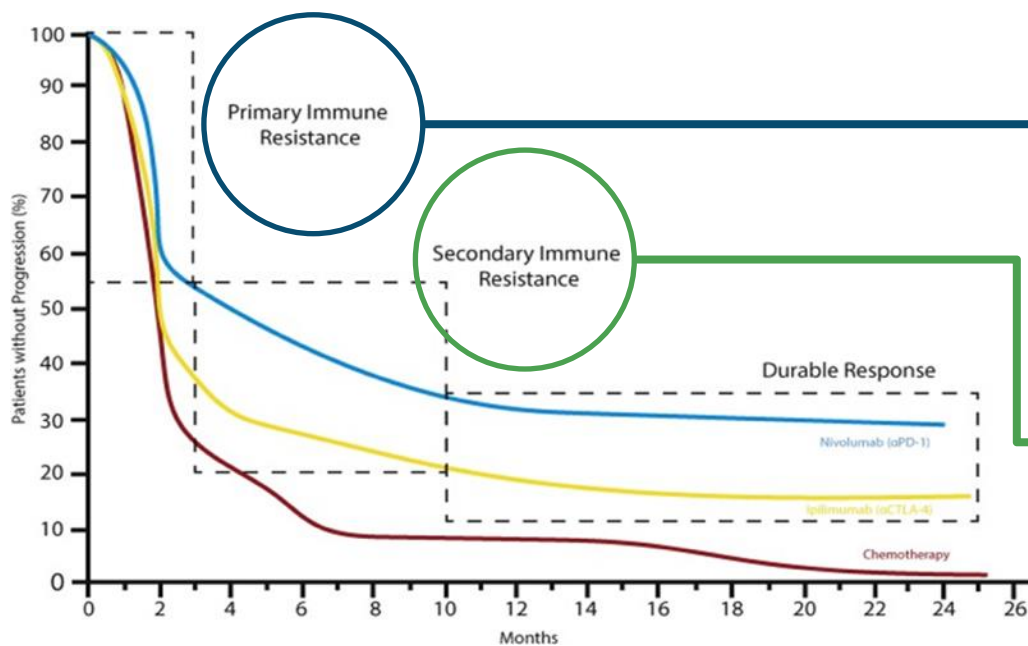
Ready to Use
subcutaneous formulation
with Q3W injection

Orphan Drug
Designation (FDA)
>1,000 injection
in clinical trials

Strong IP position
until **2038**¹
(US / EU / Asia)

Tedopi® is a novel cancer vaccine with a strong biological rationale in post-ICI secondary resistance

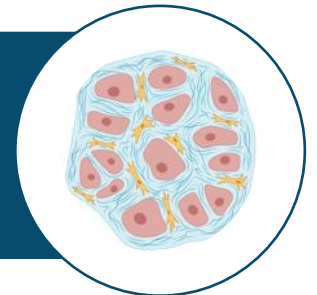
Shifting paradigms with cancer vaccine immunotherapy



Primary (intrinsic) resistance

Patients who do not respond to ICIs with a rapid disease progression
 → Immune refractory tumors

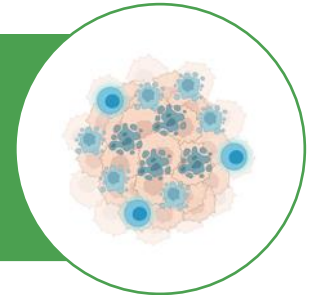
No T-cell refractory tumors



Secondary (acquired) resistance¹

Patients who have a period of initial ICI therapy benefit followed by disease progression
 → Immuno-sensitive tumors

T-cell exhausted & dying



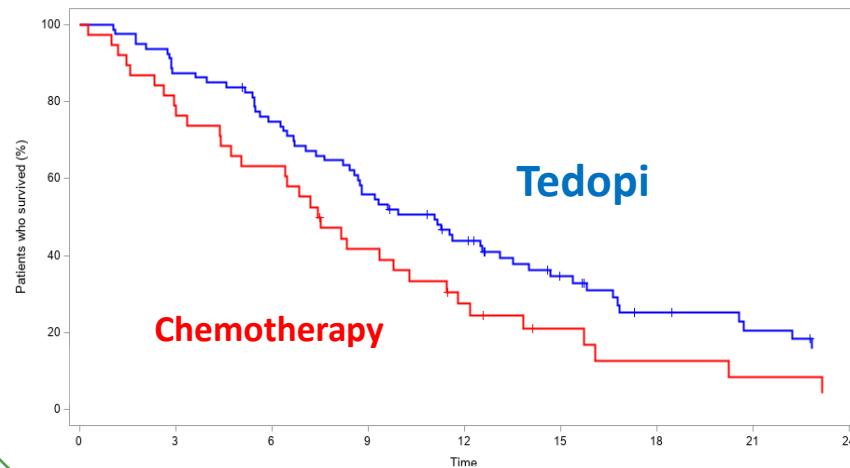
Tedopi® has the **potential to rejuvenate & refresh specific TILs** in immuno-sensitive tumors. Neopeptide-specific T cells have tumor killing potential and limited side effects.

Clinically meaningful benefit of Tedopi® in 3rd line NSCLC

Randomized Phase 3 with positive results vs. standard of care (SOC)

Overall Survival

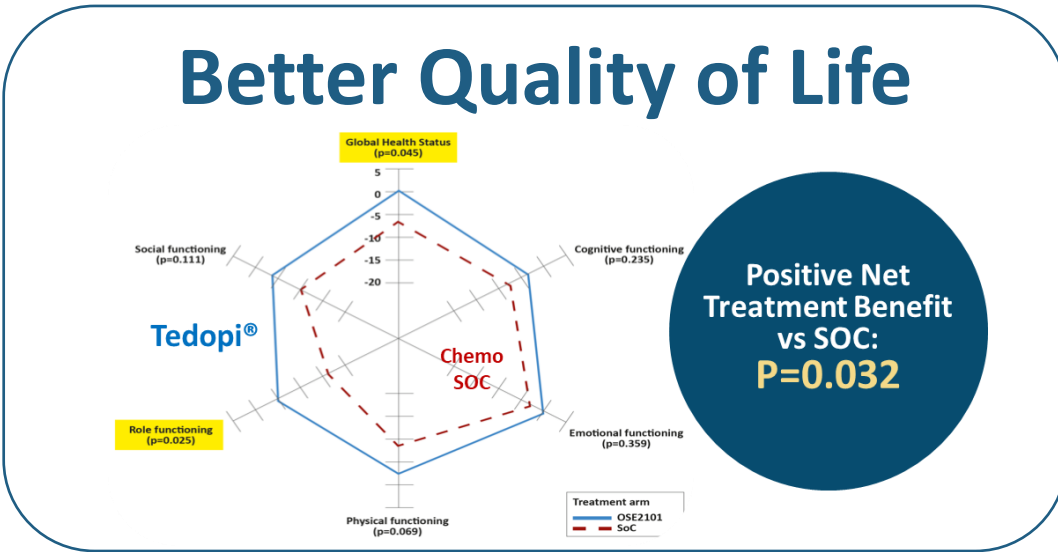
secondary resistance post anti-PD(L)1



OS rate at 12 months
44%
in Tedopi® vs.
27.5%
in SoC

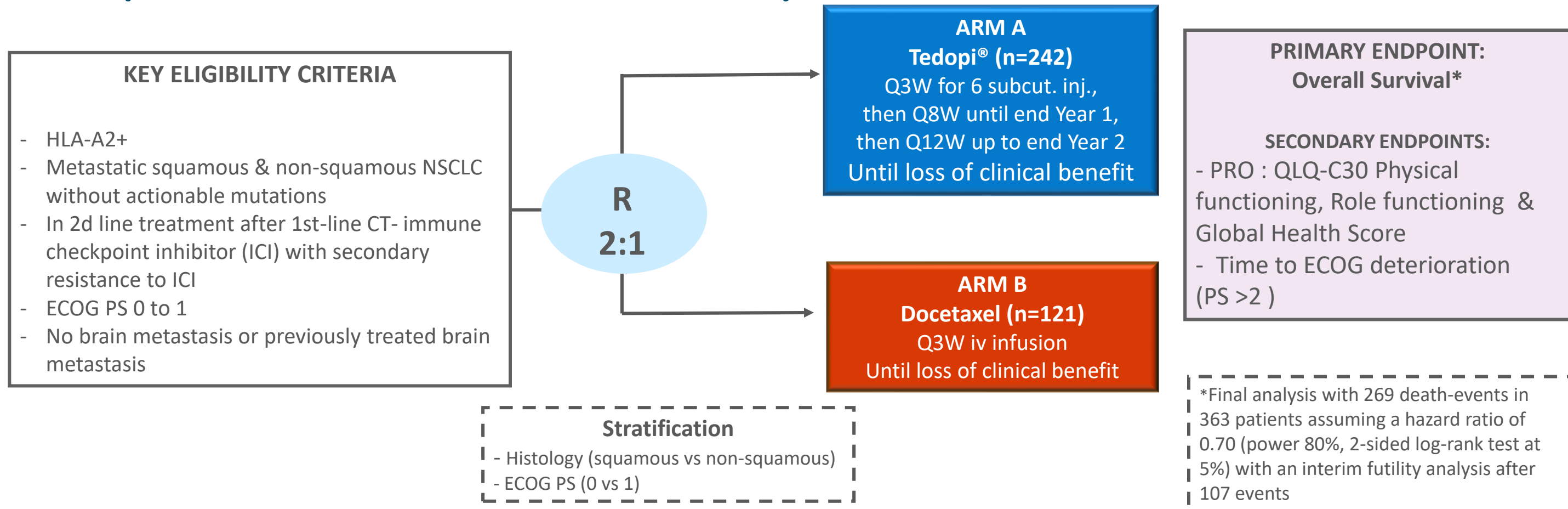
Delta OS: **3.6** months
Tedopi® 11.1 months
VS
SoC 7.5 months
HR 0.59 /
p-value=0.017

Significantly safer than Chemo.
11% vs **35%** grade 3-5 AEs



Risk of Death reduced by **41%** versus chemo.

Tedopi® in NSCLC : ARTEMIA study



HLA: Human leukocyte antigen; NSCLC: Non-small cell lung cancer; SoC: Standard of care; CT: chemotherapy; ICI=Immune checkpoint inhibitors; ECOG PS: Eastern Cooperative Oncology Group Performance Status; PD: Progressive disease; subcut: subcutaneous; inj: injection; iv: intravenous, QLQ-C30: Quality of life questionnaire-core30

Protocol V2.0 on 14-MAR-24 (US, Canada) , 2.1 on 11-JUN-24 (UK), 2.3 on 23-AUG-24 (EU)

Tedopi® answers to real medical need in NSCLC

Tedopi® has the potential to become the new standard for recurrent patients in 2L NSCLC presenting HLA-A2 phenotype

LUNG CANCER :

High prevalence, mortality and unmet need - worldwide

- Highest mortality among 36 cancer types and 2nd most frequently diagnosed cancer type (based on data collected from 185 countries)*
- About 2,206,771 new cases of lung cancer diagnosed (11,4% of all cancers) and 1,796,144 deaths from lung cancer (18%)*
- The mortality is associated with a high degree of malignancy and late diagnosis. More than 65.33% of men diagnosed with lung cancer are in stage III-IV
- Majority of NSCLC patients without actionable mutation are treated with immune checkpoint inhibitors (ICI) as 1st line of treatment.

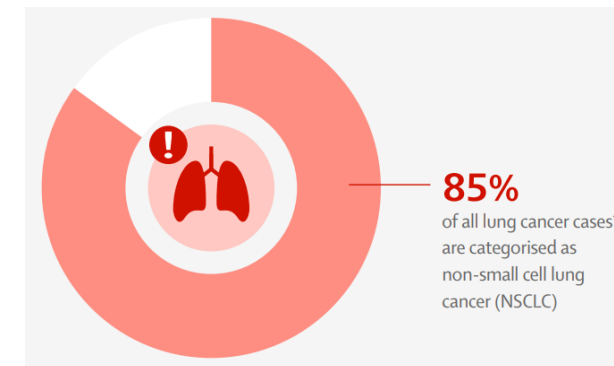
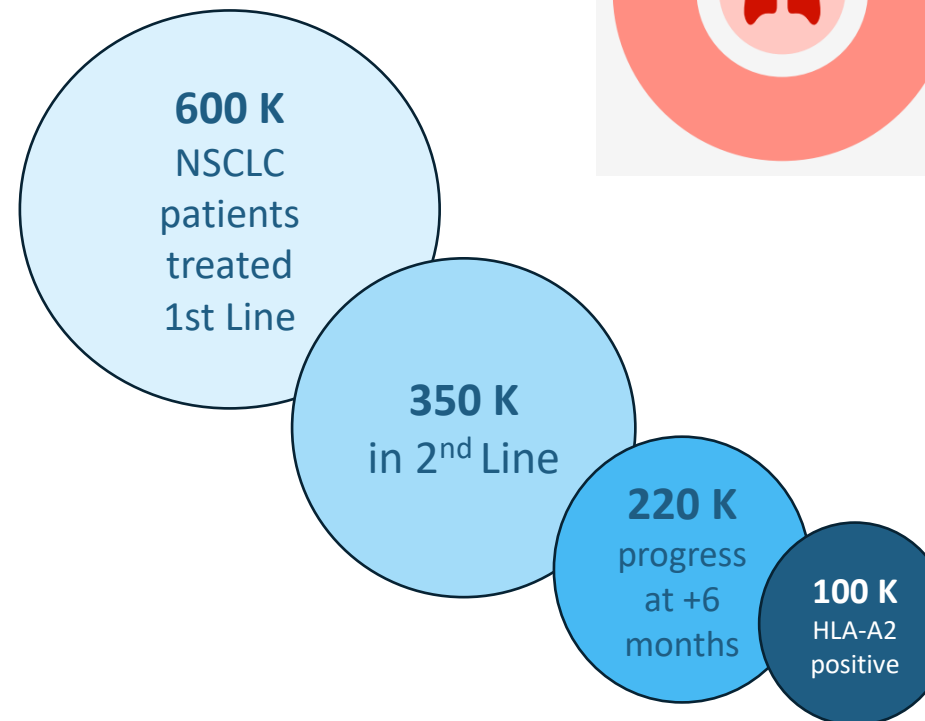
Treatment paradigm in NSCLC with no driver mutation

- L1 : treatment anti-PD(L)1 based with/w/out chemotherapy
- L2 : docetaxel remains standard with its limited efficacy and toxicity

Opportunity for Tedopi®
















- Great opportunity for new standard without chemotherapy in a remaining high medical need after 1st line of treatment
- HLA-A2 patients represent about 45% of the patients

Incidence of advanced NSCLC in the US/EU5/Japan** + China



Tedopi® delivers important clinical benefits vs competition

Better Safety profile and QoL in current landscape of late-stage drug development post CT-IO

Company			  	 		 	 			
Target	Multi-epitopes vaccine	TKIs (anti-angiogenic)			Checkpoint Inhibitors		ADCs			
Current Study	ATALANTE-1	SAPPHIRE	CONTACT-01	LEAP-008	COSTAR Lung	PRESERVE-003	Tropion-LUNG1	EVOKE-01	CARMEN-LC03	NCT04928846
n	219 118 (secondary resistant)	500	350	405	750	600	604	580	554	698
Therapy	Tedopi® vs docetaxel	Sitra + Opdivo vs. docetaxel	Cabo+Tecentriq vs. docetaxel	Lenva + Keytruda vs. docetaxel	Cobolimab + Jemperli vs. docetaxel	Gostistobart vs. docetaxel	datopotamab deruxtecan vs docetaxel	Sacituzumab Govitecan-hziy vs docetaxel	SAR408701 vs. docetaxel	Telisotuzumab Vedotin vs. Docetaxel
Primary endpoints	OS	OS	OS	PFS and OS	OS	OS	PFS and OS	OS	PFS and OS	PFS and OS
Initiation	2017	Q3 2019	Q3 2020	Q2 2019	Dec 2020	Q2 2023	Q4 2020	Q4 2021	Q1 2020	Q1 2022
Read-out	2022	Failed	Failed	Failed	Q2 2025	Q2 2026	Failed	Failed	Failed	Q1 2028
Safety data from early-stage trials in NSCLC post-ICI										
- TEAEs G3/4	11%	53%	39%	78%	n.a.	43%	25-30%	> 50%	36%	36%
Source	Besse et al. 2023	Borghaei et al, Annals Oncol 2023	Neal et al, ASCO 2022	Taylor et al, J. Clin. Oncol. 38, 1154–1163.	Davar et al, SITC 2018	He et al, ASCO 2023	ESMO 2023 WCLC 2024	ASCO 2024	Gazzah et al, ASCO 2020	Camidge DR, et al. WCLC 2021

Further additional potential clinical value in combination NSCLC, PDAC and OC

Phase 2 ISS trials in combination with immunotherapy or chemotherapy treatments

2nd line post 1st line chemo IO

CombiTED - NSCLC
In combination with nivolumab



Tedopi® Plus Docetaxel or Tedopi Plus Nivolumab as 2nd line Therapy in Metastatic NSCLC failing standard 1st line Chemo-immunotherapy¹

Sponsored by FoRT
PI: Federico CAPPUZZO
(Roma Cancer Institute)
Italy /Spain/ France



Readout expected H2 2026

Maintenance setting post standard of care

TEDOVA - Ovarian Cancer
In combination with pembrolizumab



Tedopi® Alone or in Combination With Pembrolizumab vs Best Supportive Care as Maintenance in Patients with Platinum-Sensitive Recurrent Ovarian Cancer²

Sponsored by ARCAGY-GINECO
PI: Alexandra LEARY
(Gustave Roussy Institute)
France/ Germany/ Belgium



Recruitment completed Q4 2024

Readout expected in Q2 2026

TEDOPaM - Pancreatic Cancer
In combination with FOLFIRI



Tedopi® plus FOLFIRI vs FOLFIRI as Maintenance Treatment in Controlled Advanced or Metastatic Pancreatic Ductal Adenocarcinoma after 8 Cycles of Folfirinox³

Sponsored by GERCOR PRODIGE
PI: Cindy NEUZILLET
(Curie Institute, France)

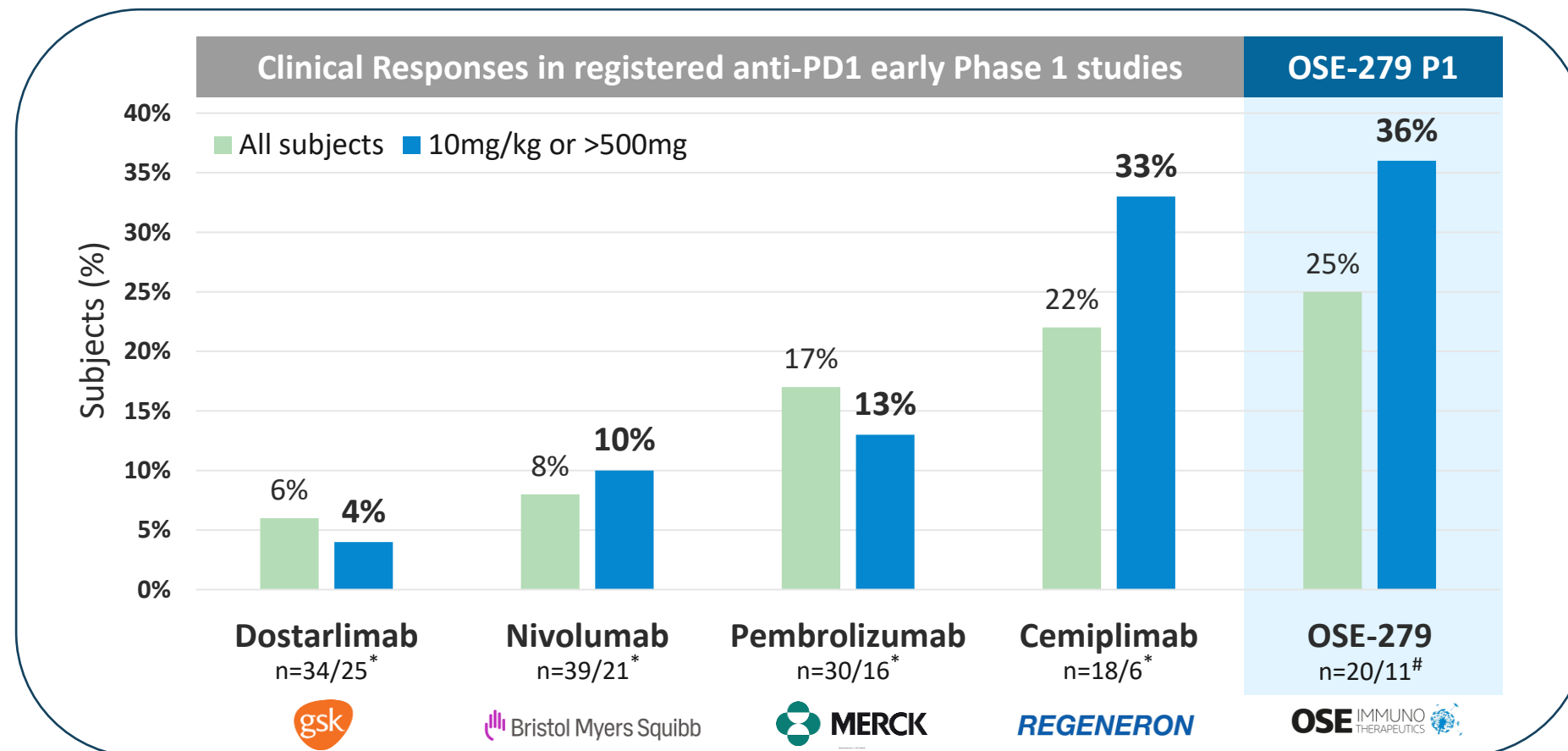


Positive Topline Result with primary endpoint met (ASCO 2025)

OSE-279: Proprietary anti-PD1 mAb

High affinity PD-1 antibody, recent patent granted in US, Europe, China, Japan

- ❖ Potential of combo with internal asset
- ❖ Potential for partnership with biotech/biopharma in combo with external assets
- ❖ Potential future marketing approvals in orphan indications with strong unmet medical needs



Not a head-to-head comparison. Differences exist between trial designs and subject characteristics, and caution should be exercised when comparing data across trials. For illustrative purposes only.

* Patnaik et al. Cancer Chem & Pharm 2021; Brahmer et al. JCO 2010; Patnaik et al. Clin Cancer Res 2015; Papadopoulos et al. Clin Cancer Res 2020
Robert et al. ESMO-TAT 2024



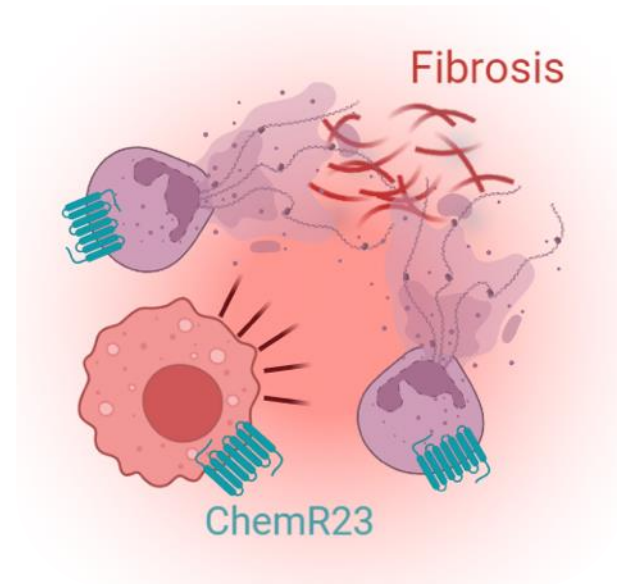
Partnered clinical programs

ABBV-230 - Resolving inflammation is an active immune process



During chronic inflammation

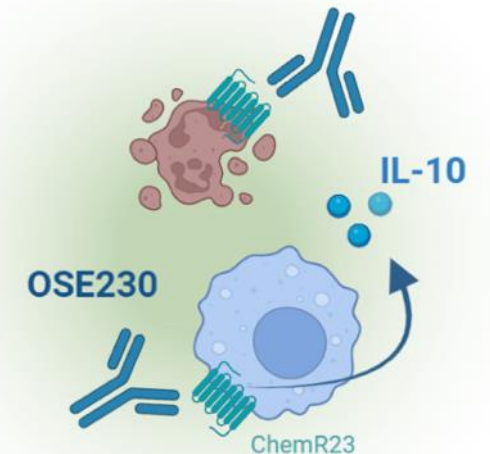
Dying neutrophils **send out inflammatory signals (e.g. NETosis)** that are important in maintaining chronic inflammation & fibrosis



With ChemR23 agonistic mAbs

ABBV-230 limits recruitment, survival & NETosis of inflammatory neutrophils & reprograms macrophages, **removing further chronic inflammatory signals**

Restoration of homeostasis



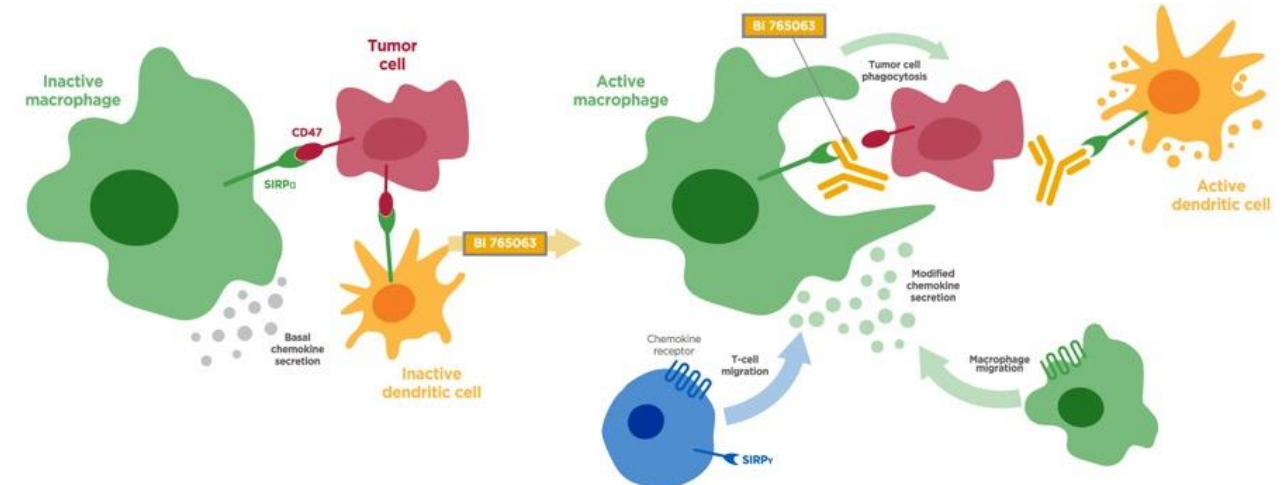
Potential First-in-class pre-IND candidate

Published in **ScienceAdvances**
AAAS

SIRP α inhibition may have a synergistic antitumour effect when combined with ICIs

- Infiltrating **myeloid cells promotes immune evasion**, and this has generated interest in **myeloid-immune targets**^{1,2}
 - The CD47–SIRP α interaction transduces inhibitory signals on macrophages and other myeloid cells²
- Preclinical studies have indicated that **CD47 or SIRP α blockade in combination with ICIs** may have a synergistic antitumour effect³

The use of SIRP α antagonists to enhance antitumour immunity is currently being explored⁴



	Anti-CD47	Anti-SIRP α
Broad/restricted expression	Broad	Restricted to cells of the myeloid lineage
Safety signals	Acute anemia, Thrombocytopenia	No hematotoxicity
Interaction CD47/SIRP γ	Inhibit human T cells	OSE-172 is SIRP α specific

Limited **side effects** expected and less frequent dosing

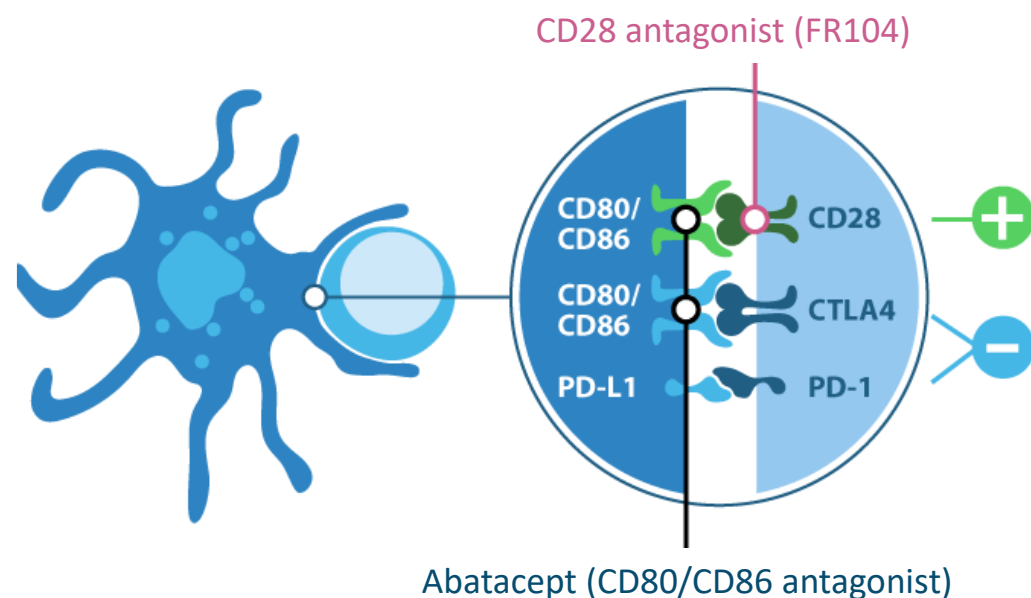
Higher therapeutic window expected

Favors T cell responses in solid tumors

CD: cluster of differentiation; ICI: immune checkpoint inhibitor; SIRP α : signal regulatory protein- α .

Pegrizеprument (FR104) CD28 antagonist in organ transplantation

Selective CD28 antagonist mAb in Kidney Transplantation



Ambitious Partnership & Development Plan with Veloxis

- **Veloxis** is a global leader in transplantation with leading product Envarsus XR (tacrolimus) realizing c. **USD 140m¹** turnover; Joined **Asahi Kasei** in FY2019², a **USD 17bn** annual turnover conglomerate with healthcare representing 17% of sales
- **Strong Preclinical data in Kidney & Cardiac transplantation + GVHD^{3,4,5}**
- **Positive Phase 1/2 in kidney transplantation (intravenous)⁶**
- **Positive Phase 1 subcutaneous⁷**

Phase 2 in kidney transplantation (subcutaneous) under preparation by Veloxis

Pegrizeprument (FR104) - Transforming kidney transplant management



Positive results of the FIRsT Phase 1/2 clinical evaluation in kidney transplantation¹

Good Safety profile and early sign of efficacy:

- *Drug exposure allow high receptor occupancy maintenance during the one-year follow-up.*
- *No acute rejection under Pegrizeprument (FR104) treatment, including after calcineurin-inhibitor (CNI) discontinuation.*
- *No biopsy-proven acute rejection (BPAR) observed at 1-year*
- *No donor-specific antibodies (DSA) detected at 1-year*

Kidney Transplant Market: A multi-billion-dollar commercial opportunity

- **45k+** new kidney transplant annually for an estimated **500k+** people living with a functioning kidney graft in G7 countries
- 90k+ Americans in transplant waiting list, many transplanted patients require repeat transplants
- Chronic exposure to **CNIs** is associated with **renal toxicity**, cardio-metabolic complications, **insufficient** graft protection as well as **cancer** and **infections**
- Pegrizeprument (FR104) seeks to address challenges associated with current immunosuppressive transplantation regimens using CNI-based therapies

Governance



A Board of Directors combining international expertise in medicines development, industry & finance, and experience in listed biotech companies



Didier Hoch, MD
Chairman



25+ years in pharma and vaccine industry (Sanofi-Pasteur MSD, Rhone-Poulenc)

Several functions incl. commercial, marketing, general management



Maryvonne Hiance
Vice Chairwoman



Founder and CEO of Effimune

General Manager SangStat Atlantic, DrugAbuse Sc.

Former President & Vice President of France Biotech



Nicolas Poirier, PhD
Director, CEO & Chief Scientific Officer



20 years in biotech/immunotherapy

Advanced 6 novel therapies to clinic leading to 6 pharma deals

Global Management (INSEAD,HEC)



Anne-Laure Autret-Cornet
Chief Financial Officer



15+ years in Finance & Biotech

ESSCA Management School
Finance Corporate, HEC



Marc Dechamps
Independent Director



35+ years in pharma industry

(GSK, ViiV Healthcare)

Expertise in market development for new products, I&I, I/O, vaccines
CEO of Bioxodes



Markus Goebel, MD, PhD, MBA
Independent Director



30+ years in the Life Science industry (Novartis, Roche)

Positions in BD&L, Corporate M&A, Corporate Venture Funds

Founder & CEO of M&G Advisor

Certified MD in oncology/hematology, MBA



Martine George, MD
Independent Director



30+ years in pharma & academic in the US (Pfizer, J&J, Sanofi, Sandoz-Novartis)
Service Chief Gustave Roussy, Cancer center

Expertise in clinical research, drug development, medical and regulatory affairs specializing in oncology



Eric Leire, MD
Independent Director



Genflow Bioscience CEO
Previously chairman & CEO of several biotech companies listed in US
Previous Marketing Director position in Pharma US & EU



Cécile Nuyen-Cluzel
Independent Director



Extensive experience in financial engineering & healthcare private equity. Senior advisor in healthcare for France & Europe at Apposite Capital. Master 2 « Ingénierie financière & « Leading the digital transformation in healthcare » certification from Harvard Medical School



Brigitte Dréno, MD
Independent Director



25+ years in pharma and vaccine industry (Sanofi-Pasteur MSD, Rhone-Poulenc)

Several functions incl. commercial, marketing, general management

International research Scientific Advisory Board (research SAB) - renowned experts in IO and I&I



Wolf-Hervé Fridman, MD

Chairman of the SAB, Professor Emeritus of Immunology at the Université de Paris, France



Myriam Merad, MD, PhD

Director of the Precision Immunology Institute at Mount Sinai School of Medicine in New York and Director of the Mount Sinai Human Immune Monitoring Center (HIMC)



Charles N. Serhan, PhD, DSc

Professor of Anaesthesia (Biochemistry and Molecular Pharmacology) at Harvard Medical School, Professor of Oral Medicine, Infection and Immunity at Harvard School of Dental Medicine



Jennifer Wargo, MD, M.M.Sc

Professor of Genomic Medicine & Surgical Oncology, UT MD Anderson Cancer Center



Bernard Malissen, PhD

Group Leader at Centre d'Immunologie de Marseille-Luminy and Founding-Director of Center for Immunophenomics, Marseille, France



Sophie Brouard, PhD

Immunologist and Director in Veterinary Sciences, Director of Research at the Institut National de la Santé et Recherche Médicale (Inserm, National Institute for Health and Medical Research) in Nantes

OSE IMMUNO
THERAPEUTICS



Breaking through the
therapeutic ceiling with
first-in-class immunotherapies

Immuno-Oncology & Immuno-Inflammation

Head Office
22, boulevard Bénoni Goullin
44200 Nantes, France

Paris Office
10, Place de Catalogne
75014 Paris, France

Company Information: <http://ose-immuno.com/en/>