

OSE IMMUNO
THERAPEUTICS



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

March 2025

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Investment highlights

Late-stage compelling products

Promising clinical data from the Phase 3 oncology asset Tedopi®
Positive Phase 2 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 update
- **Lusvertikimab (OSE-127):** Full dataset efficacy results Ulcerative Colitis Phase 2 (Open-label extension)
- **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 biotech/immunotherapy
- Previously CSO, advanced six novel immunotherapies to clinic, leading to six pharma deals
- Global Management & Finance (INSEAD, HEC)



Sonya Montgomery, ND
CHIEF DEVELOPMENT OFFICER

- 20+ years in Pharma / Biotech
- Global management, portfolio strategy, translational and clinical development and regulatory leadership roles from discovery through registration at Pfizer, Gyroscope Tx, Evox Tx, Transition Tx, Relypsa, ProQR and Vasogen.



Silvia Comis, MD
CHIEF CLINICAL & MEDICAL RESEARCH OFFICER

- 30+ years in Pharma
- Previously Senior Medical Director IQVIA, and European Head of Early Products Medical Affairs in oncology at Novartis
- Certified pharmacologist and endocrinologist.



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 Business Development in biotech 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



Fiona Olivier
CHIEF CORPORATE AFFAIRS & INVESTOR RELATIONS OFFICER

- 30+ years in international communications, public affairs and patient engagement at global companies (Sanofi, AbbVie, Abbott, GSK)
- Degree in Communications (DCU) & Master in Public Affairs (Sciences Po)









Aurore Morello, PhD
HEAD OF RESEARCH & DIRECTOR OF R&D PROGRAMS

- 10+ years in Immunotherapy (mAb, bispecific, CAR-T)
- International Post-doctoral Fellowship (MSKCC, NYC)

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	Extension data Strategic update Phase 2a update Phase 2 start Phase 1 start Preclinical update
	BI 770371	Anti-SIRPα 	MASH	[Progress bar]			[Progress bar]			
	Pegrizeprument (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
			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]		Phase 1b combo data Phase 1b results IND Preclinical update		
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](#)
- **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, and a petri dish lid, with a petri dish lid and a petri dish lid, and a petri dish lid and a petri dish lid.

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 background. The silhouettes are dark against the lighter, orange and blue sky. The group includes men, women, and children of different heights and builds.

Lusvertikimab

Most advanced anti-IL-7R mAb

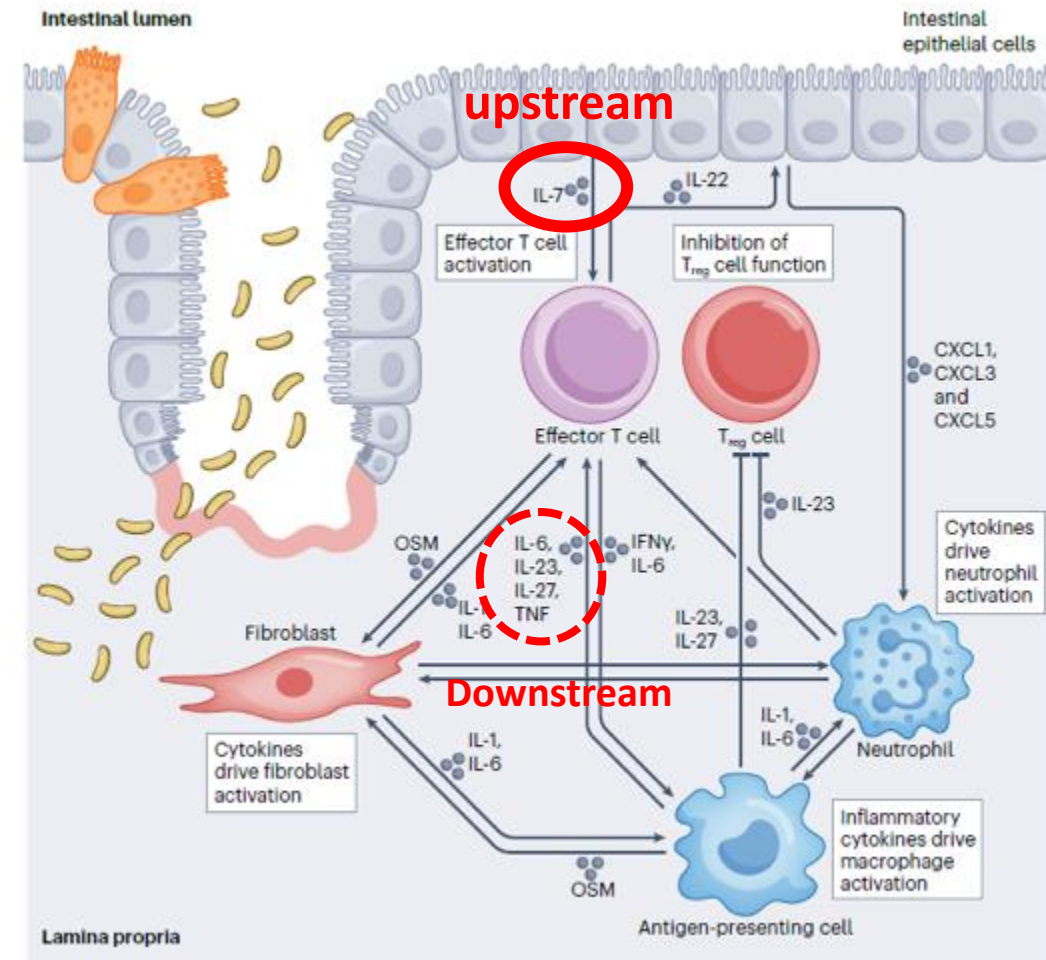
Strong biological rationale in refractory IBD patients

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.”

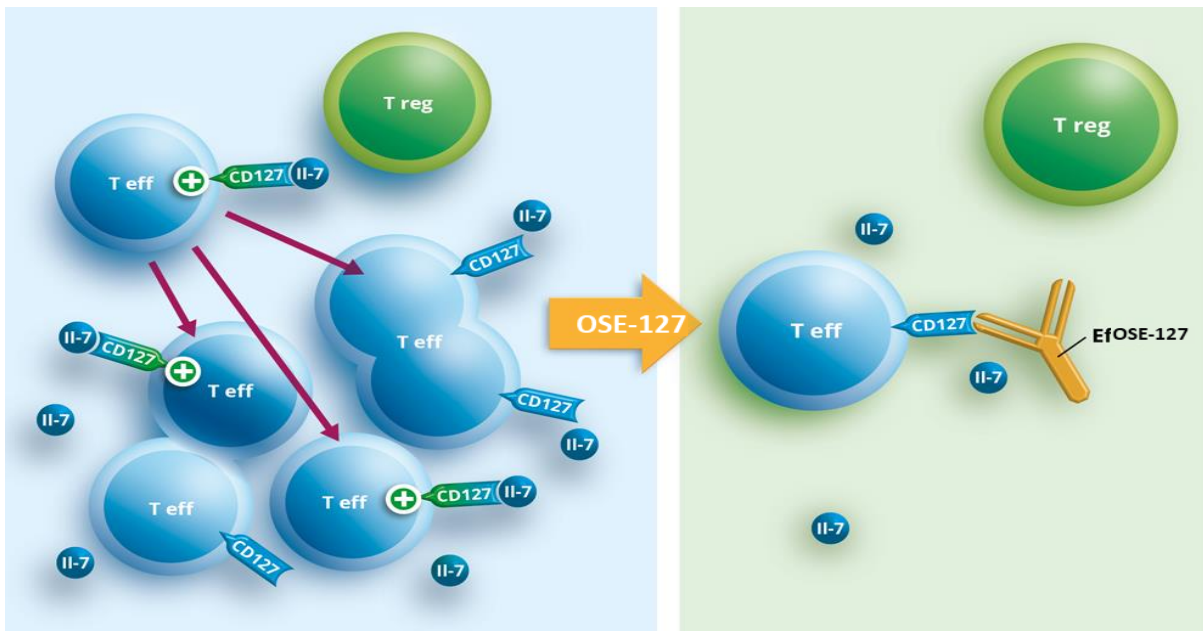


Neurath M. Nature Review Immunology 2024

Lusvertikimab / OSE-127

Pure IL-7 receptor antagonist mAb

Tackling the fuel of memory T-lymphocytes while sparing Tregs



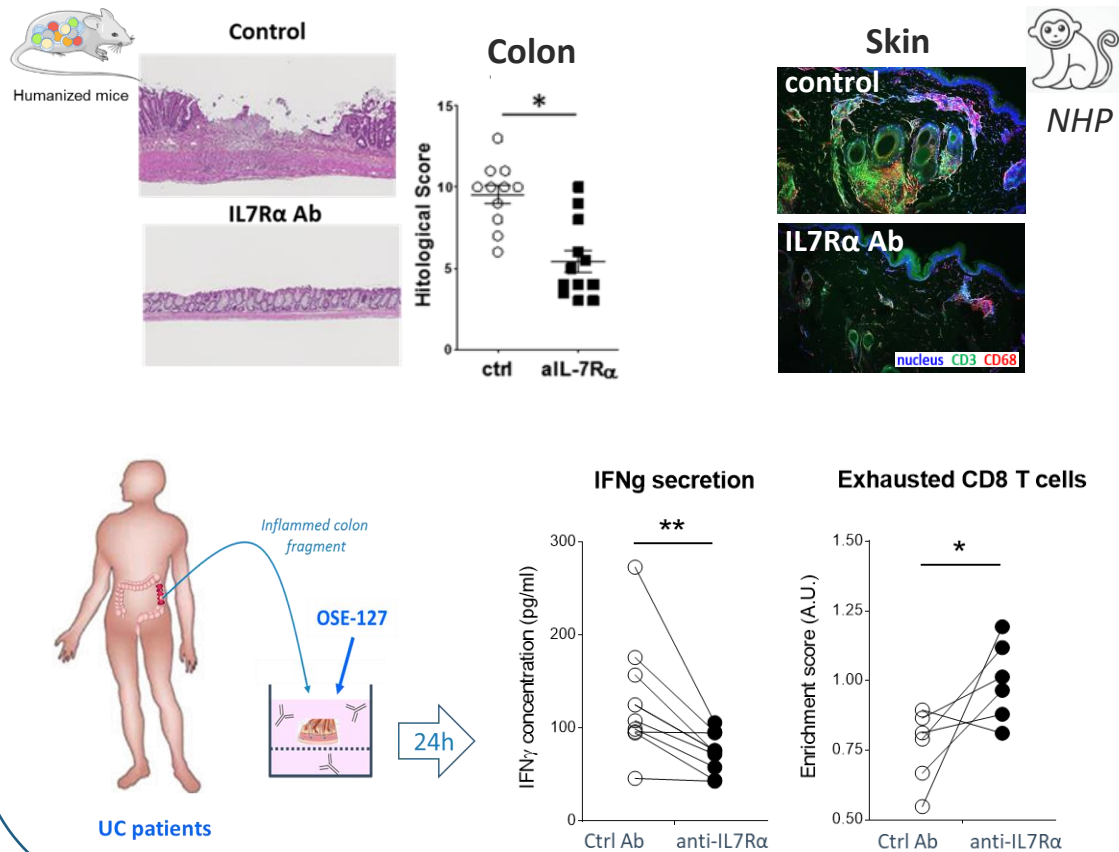
A differentiated and highly qualified candidate

- IL-7 produced by inflamed tissues sustain **T-cell survival and chronicity**, drives **Th1 and Th17** T cell differentiation
- IL-7R pathway overexpression in anti-TNF IBD non-responders¹
- Lusvertikimab, first non-internalizing (fully antagonist) acting as pure antagonist anti-IL-7R mAb² – no antagonist activity on TSLP
- **Good safety, PK/PD profile in Phase 1³, no cytokine release, confirmed target-engagement**
- **Positive Phase-2 study in UC; Full Phase 2 induction results in Feb. 2025⁴**
- High preclinical activity in acute leukemia (T and B-ALL)⁵
ASH Merit Award 2024

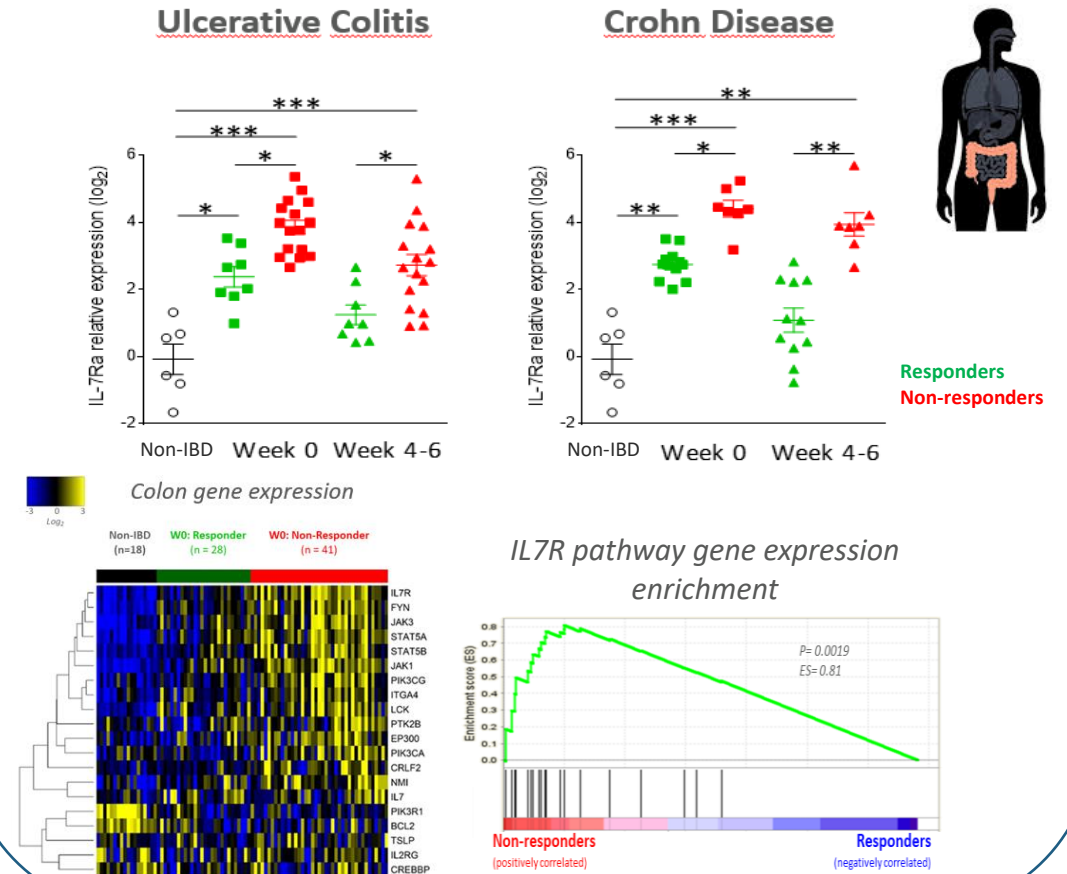
Preclinical & Translational research of IL-7 in IBD

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

High preclinical efficacy in different models



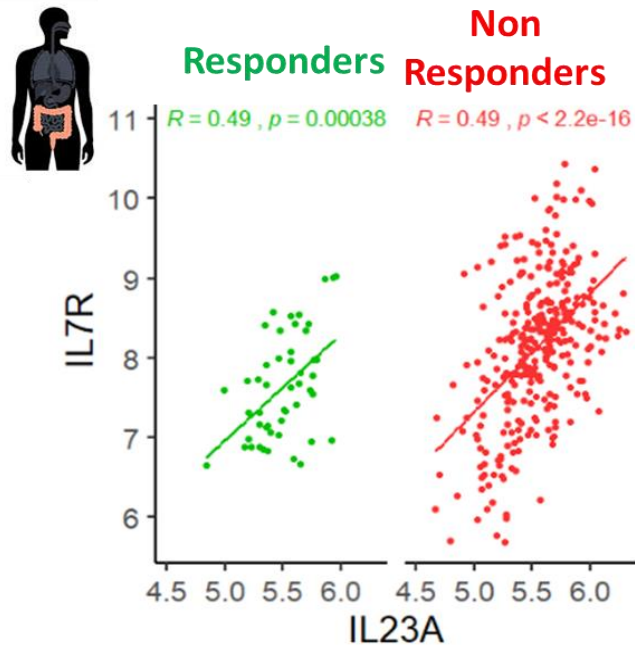
Mucosal IL7R pathway over-expression in IBD High correlation with SOC unresponsiveness



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

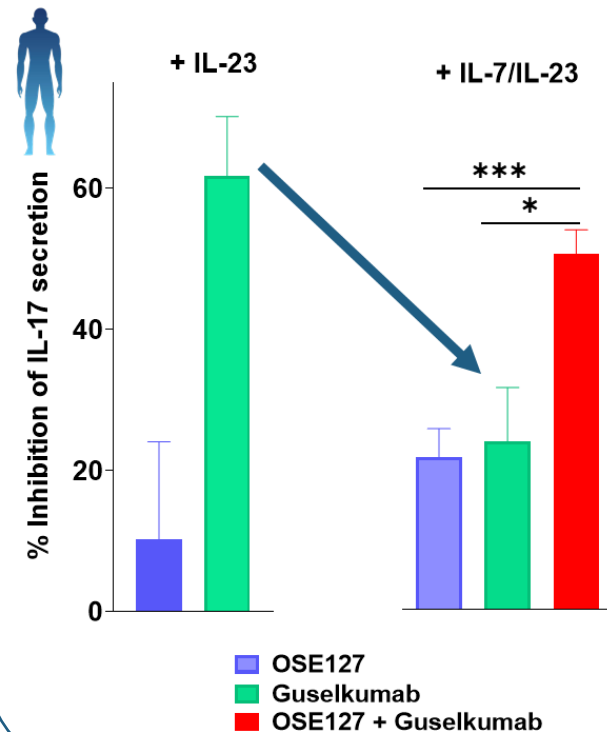


IL-7R and IL-23 cytokine mucosal over-expression in Ustekinumab UC patients



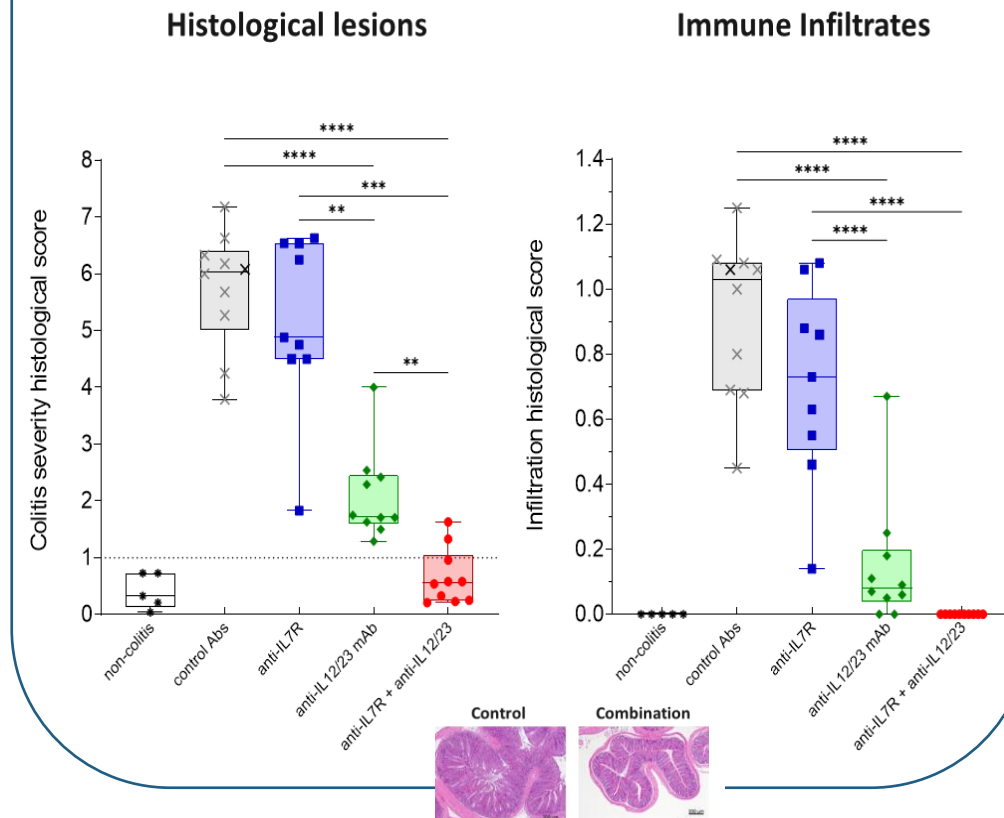
UC colon transcriptomic analysis (GSE206285)

IL-7 drives IL-23 antagonist resistance



In-vitro model: naive human primary Th17 cells differentiation

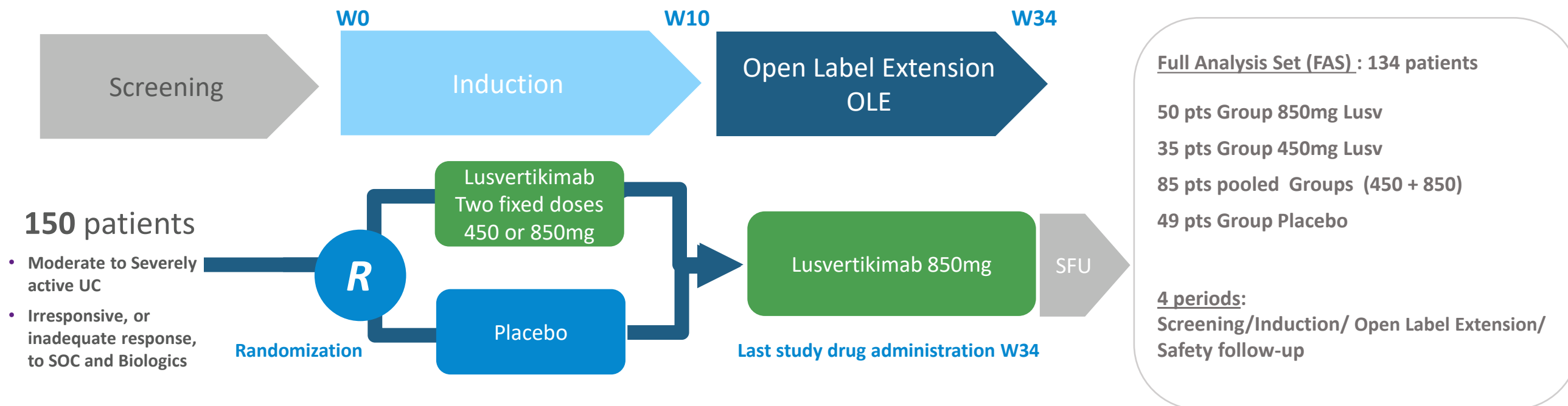
IL-7R + IL-12/23 blockade synergizes to induce complete mucosal healing in chronic colitis



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

CoTikiS Phase 2 randomized study of Lusvertikimab

Moderate-to-severe Ulcerative Colitis



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

Induction: Lusv group 450mg/ Lusv group 850mg/ Placebo: IV infusions at Week 0, Week 2, Week 6. **Analysis at W10**

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

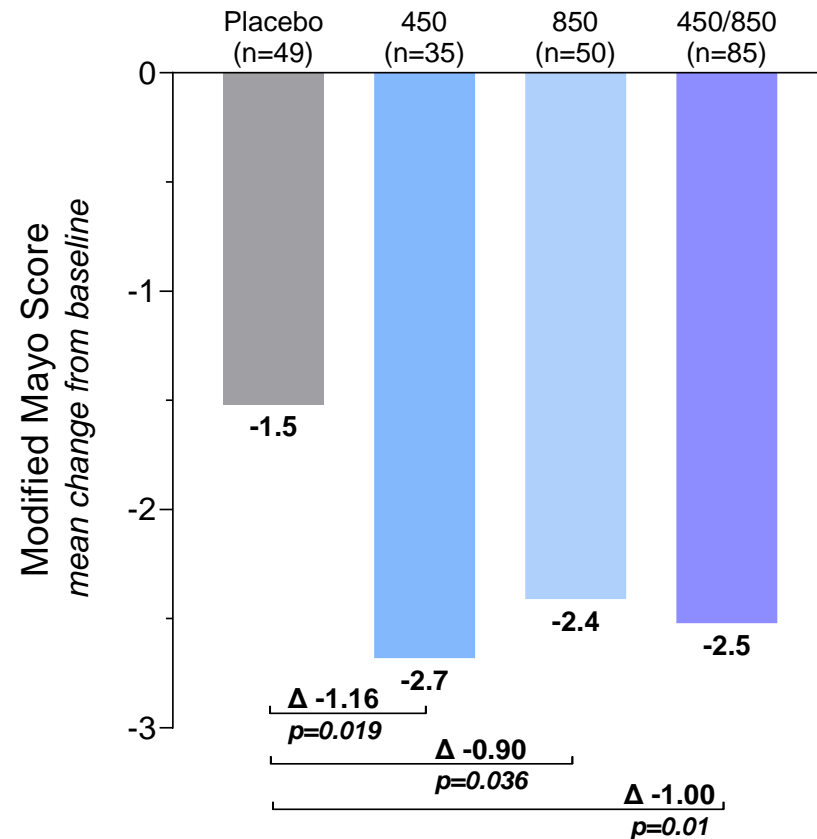
Demographics and disease characteristics

	L850 mg (n=50)	L450 mg (n=35)	Placebo (n=49)	Total (n=134)
Age: mean (SD)	42.5 (15.1)	38.8 (10.5)	42.7 (15.9)	41.6 (14.4)
Sex: Male	27 (54.0%)	22 (62.9%)	28 (57.1%)	77 (57.5%)
Weight (kg) Mean (SD)	71.5 (18.0)	72.8 (16.2)	75.3 (15.2)	73.2 (16.5)
Never Smoker	43 (86.0%)	25 (71.4%)	39 (79.6%)	107 (79.9%)
Never Alcohol Consumption	40 (80.0%)	25 (71.4%)	34 (69.4%)	99 (73.9%)
Region: EU Country	22 (44.0%)	8 (22.9%)	22 (44.9%)	52 (38.8%)
UC Duration (Years) Mean (SD)	9.3 (8.6)	7.2 (6.5)	8.2 (7.5)	8.4 (7.7)
Previous Exposure to Biologics	19 (38.0%)	5 (14.3%)	19 (38.8%)	43 (32.1%)
<i>Previous biologics: 2+</i>	13 (68.8%)	2 (40%)	11 (57.9%)	26 (60.4%)
<i>Previous biologics: 3+</i>	6 (31.5%)	0 (0%)	5 (26.3%)	11 (25.6%)
Concomitant Use of Steroids	25 (50.0%)	18 (51.4%)	23 (46.9%)	66 (49.3%)
Modified Mayo Score (MMS) Mean (SD)	6.5 (1.0)	6.0 (1.4)	6.6 (1.2)	6.4 (1.2)
Category of MMS				
5-6	25 (50.0%)	17 (48.6%)	21 (42.9%)	63 (47.0%)
7-9	25 (50.0%)	13 (37.1%)	26 (53.1%)	64 (47.8%)
Endoscopic Subscore Mean (SD)	2.6 (0.5)	2.4 (0.5)	2.5 (0.5)	2.5 (0.5)
Category of Endoscopic Subscore: 3	32 (64.0%)	15 (42.9%)	26 (53.1%)	73 (54.5%)
C-Reactive Protein (mg/L) Mean (SD)	11.2 (18.1)	9.4 (16.7)	8.6 (13.6)	9.8 (16.1)
Serum Albumin (g/L) Mean (SD)	40.8 (5.4)	42.6 (4.5)	42.3 (4.4)	41.8 (4.9)
FCP (µg/g) Mean (SD)	1191.8 (1603.3)	1088.0 (1600.5)	1459.5 (1865.0)	1261.6 (1696.7)

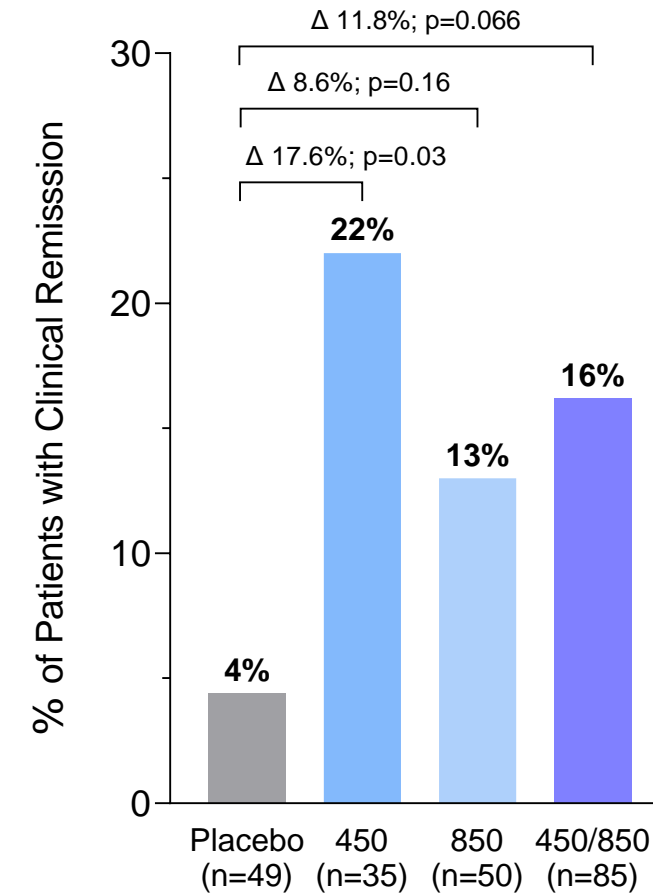
Clinical induction results at week-10

Clinically and statistically relevant clinical remission in the Lusvertikimab groups

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



Clinical Remission at W10

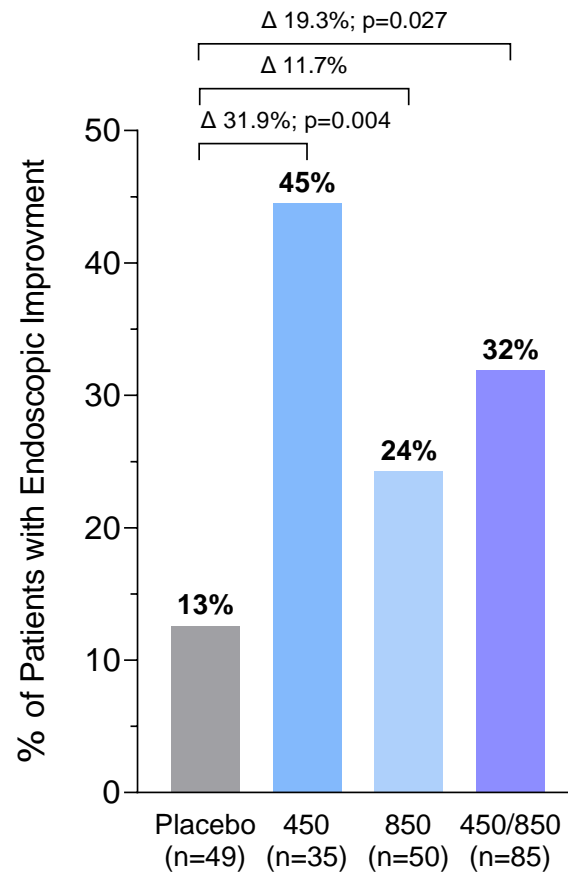


clinical remission: MMS ≤ 2 with no subscore > 1 and a RB 0, SF ≤ 1 , MES 0 or 1

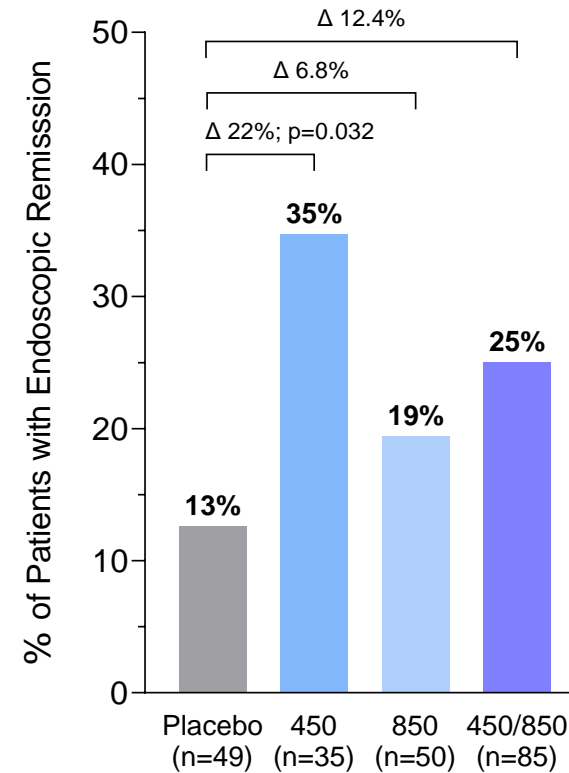
Clinical induction results at week-10

Clinically meaningful and significant endoscopic improvement and remission

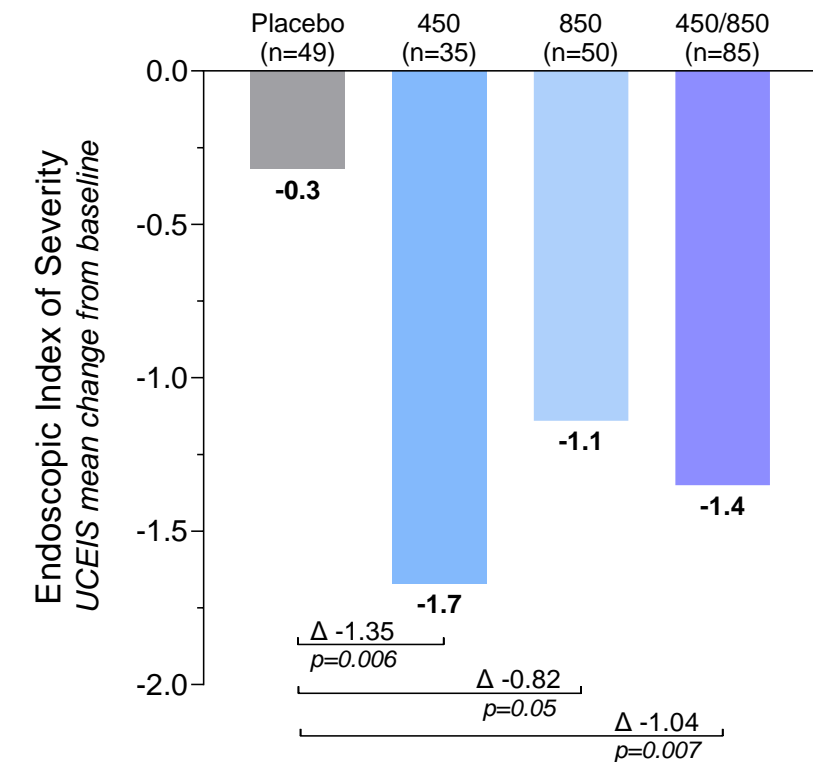
Endoscopic Improvement* at W10



Endoscopic Remission** at W10



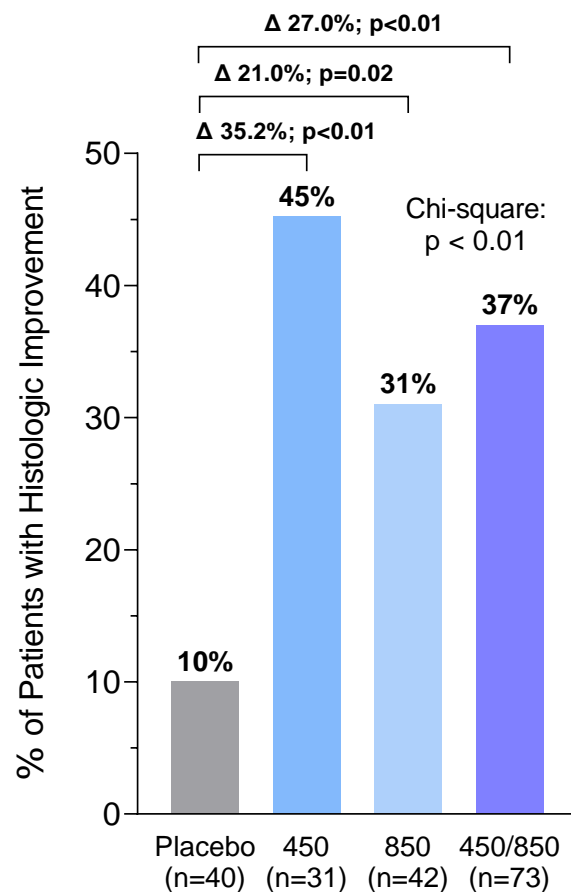
UC Endoscopic Index of Severity UCEIS*** change from baseline at W10



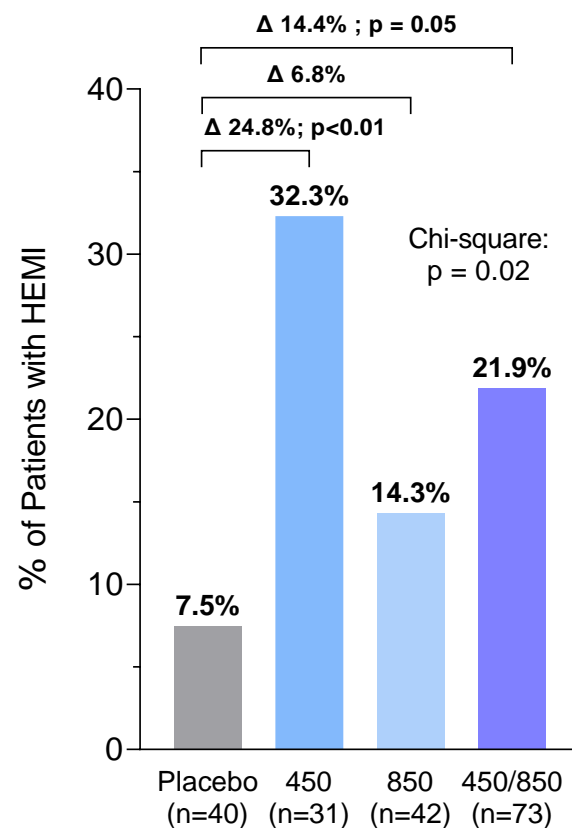
Clinical induction results at week-10

Clinically meaningful and significant histologic and histo-endoscopic mucosal improvement

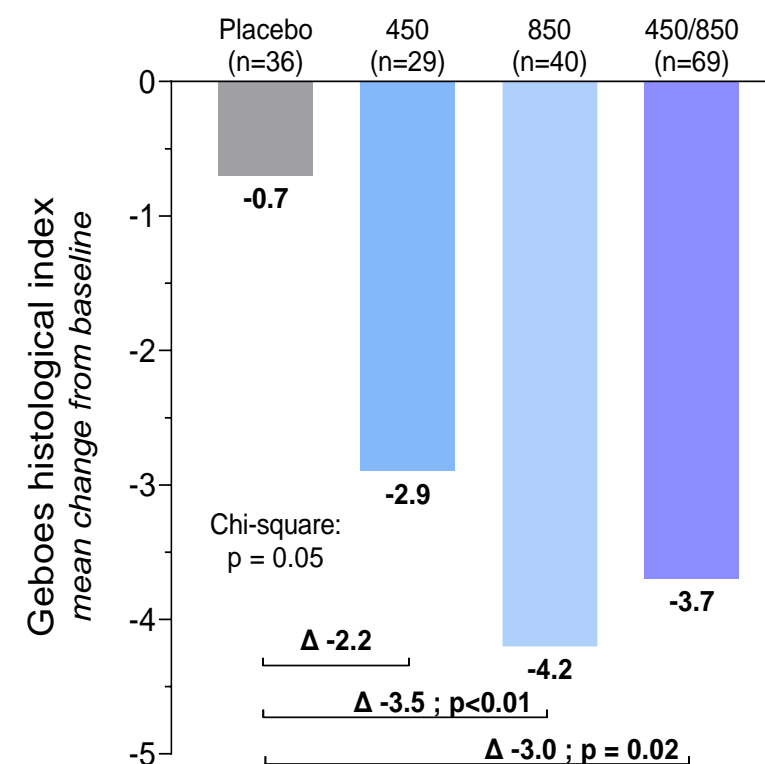
Histological Improvement at W10*



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



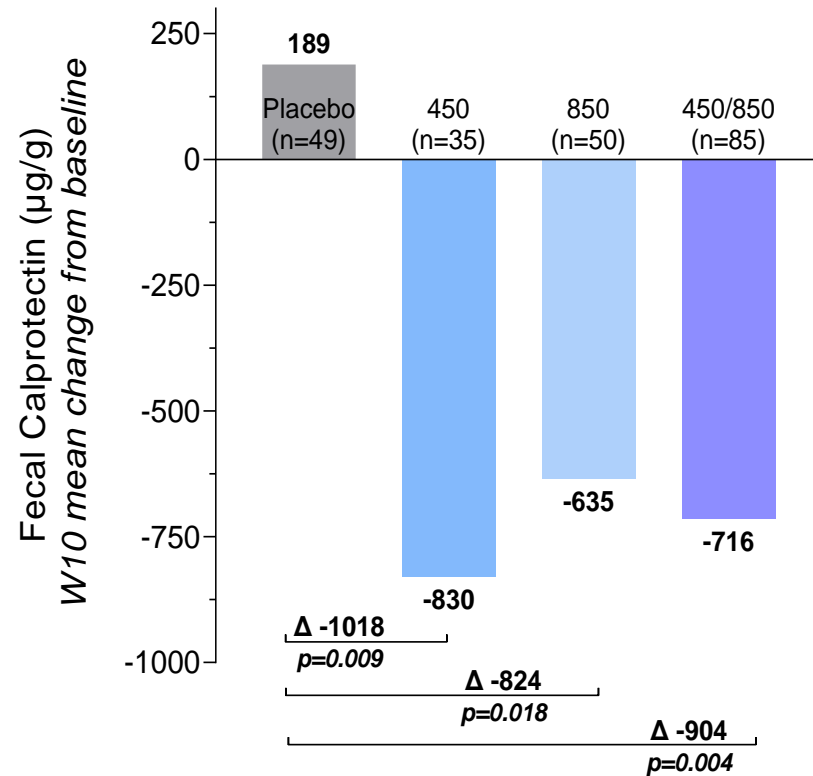
Histological Geboes index change from baseline at W10



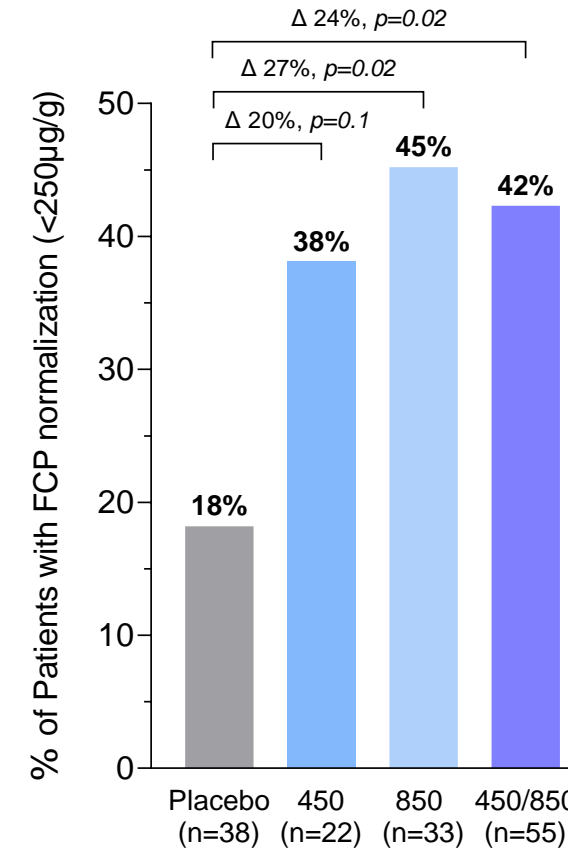
Clinical induction results at week-10

Significant Fecal Calprotectin decrease and normalization

Fecal Calprotectin (FCP) changes from baseline at W10

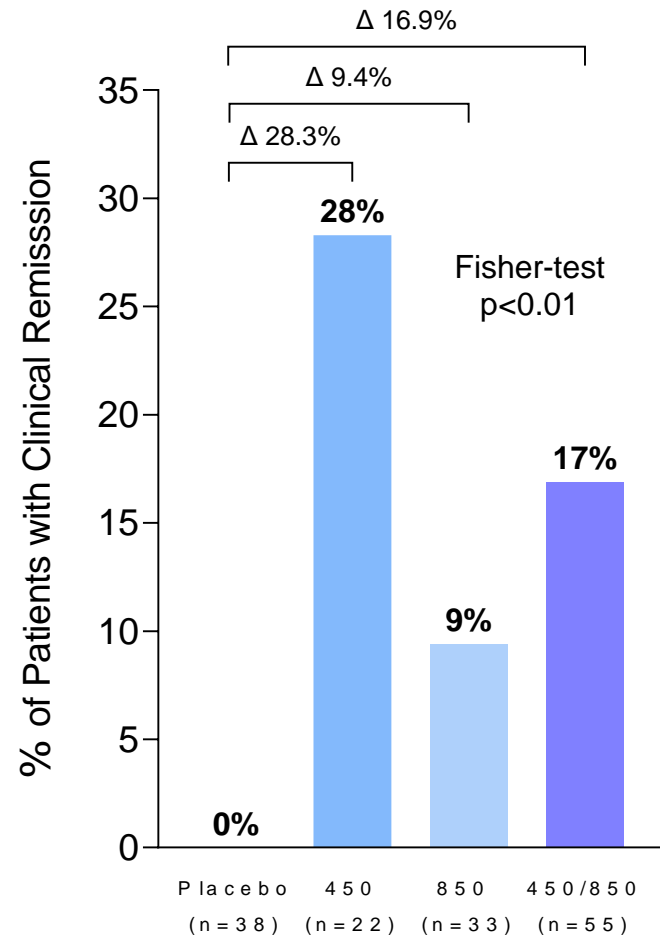


FCP normalization at W10 in patients with high baseline FCP (>250µg/g)

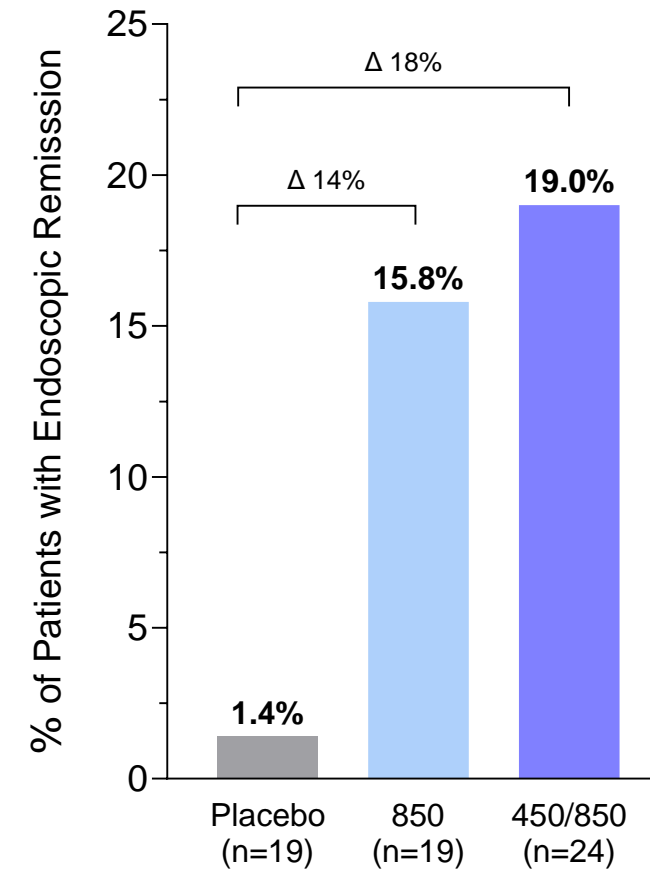


Subgroup analysis: clinical induction at week-10

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



**Patients with previous exposure
to Biologics**



SAFETY DURING INDUCTION PERIOD

	L450 mg (N=36) N(%) [E]	L850 mg (N=51) N(%) [E]	Placebo (N=49) N(%) [E]	Total (N=136) N(%) [E]
At least one TEAE	17 (47.2) [33]	20 (39.2) [42]	16 (32.7) [29]	53 (39.0) [104]
At least one TEAE related to study treatment	3 (8.3) [4]	4 (7.8) [14]	1 (2.0) [1]	8 (5.9) [19]
At least one serious TEAE	2 (5.6) [3]	2 (3.9) [3]	3 (6.1) [3]	7 (5.1) [9]
At least one serious TEAE related to study treatment	1 (2.8) [1]	0 (0.0) [0]	0 (0.0) [0]	1 (0.7) [1]
At least one severe TEAE	1 (2.8) [2]	0 (0.0) [0]	2 (4.1) [2]	3 (2.2) [4]
At least one severe TEAE related to study treatment	1 (2.8) [1]	0 (0.0) [0]	0 (0.0) [0]	1 (0.7) [1]
At least one related TEAE leading to death	0 (0.0) [0]	0 (0.0) [0]	0 (0.0) [0]	0 (0.0) [0]
At least one TEAE leading to drug withdrawal	2 (5.6) [3]	0 (0.0) [0]	3 (6.1) [3]	5 (3.7) [6]
At least one TEAE leading to drug interruption	1 (2.8) [1]	0 (0.0) [0]	2 (4.1) [2]	3 (2.2) [3]
At least one TEAE leading to study discontinuation	2 (5.6) [3]	0 (0.0) [0]	3 (6.1) [3]	5 (3.7) [6]
At least one AESI	7 (19.4) [7]	9 (17.6) [10]	6 (12.2) [7]	22 (16.2) [24]
At least one infection	5 (13.9) [5]	7 (13.7) [8]	6 (12.2) [7]	18 (13.2) [20]
At least one lymphopenia < 500 10 ⁶ /L	2 (5.6) [2]	2 (3.9) [2]	0 (0.0) [0]	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

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

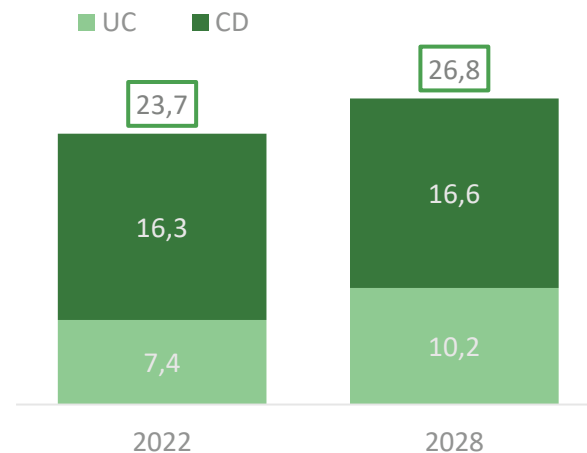


Significant opportunity in Ulcerative Colitis & Pipeline-in-a-Product potential (Multi-indications asset)

Ulcerative Colitis (UC)

- UC affects **3.3 million patients** in US, Europe and Japan
- ~50% UC patients “moderate to severe”, requiring methotrexate, corticosteroids, anti-TNFa, JAK etc.
- Despite broad options, remission rates are of only 25-30% leaving most patients without satisfactory treatment

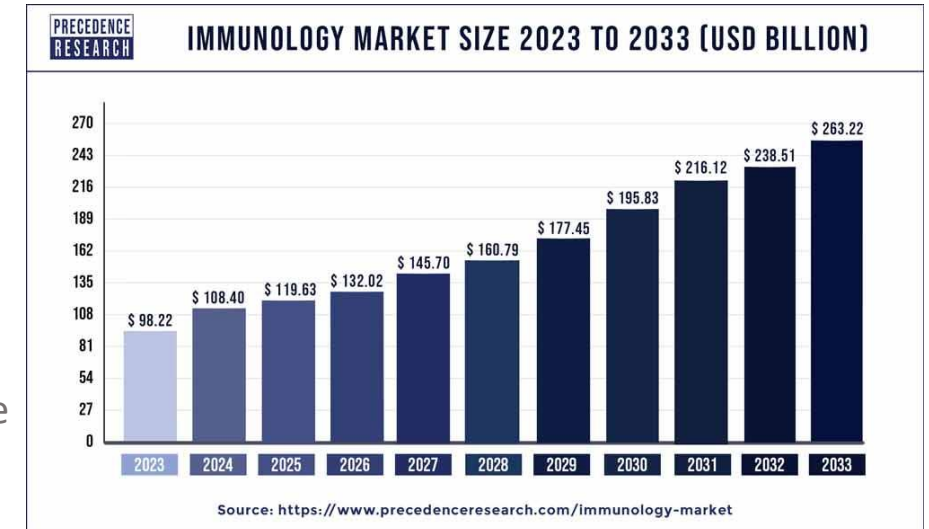
IBD **global market** projections for G7 major markets (USDbn¹)



Immuno & Inflammation (I&I) space

Key Therapeutic Areas

- IBD
- Dermatology
- Rheumatology
- Neuro-Inflammation
- Systemic Autoimmune
- Nephrology



An anatomical illustration of human lungs, rendered in a blue-tinted style. The left lung (viewer's right) is shown with a glowing, multi-colored tumor (yellow, orange, and red) in its upper lobe. The right lung (viewer's left) is shown with a network of dark, branching bronchial structures. The background is a dark blue gradient.

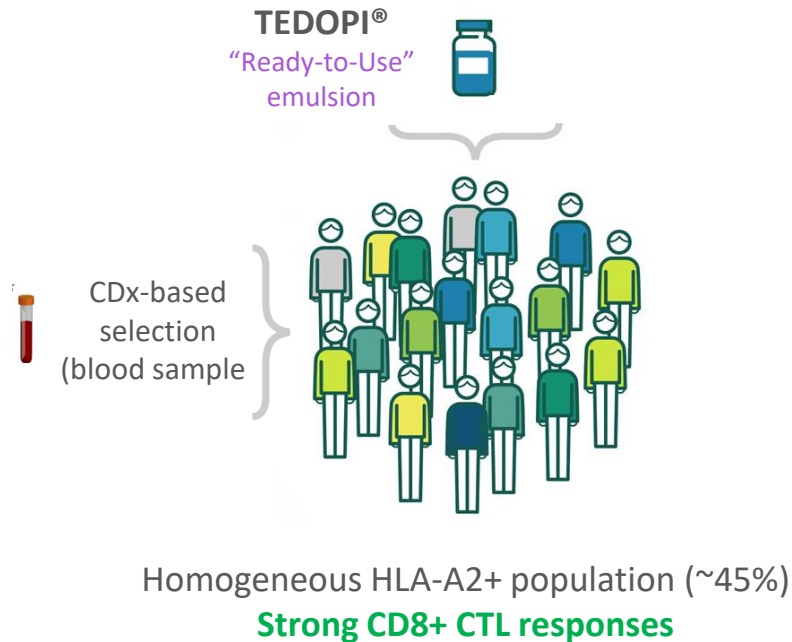
TEDOPI®

Most Advanced Therapeutic Cancer Vaccine

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

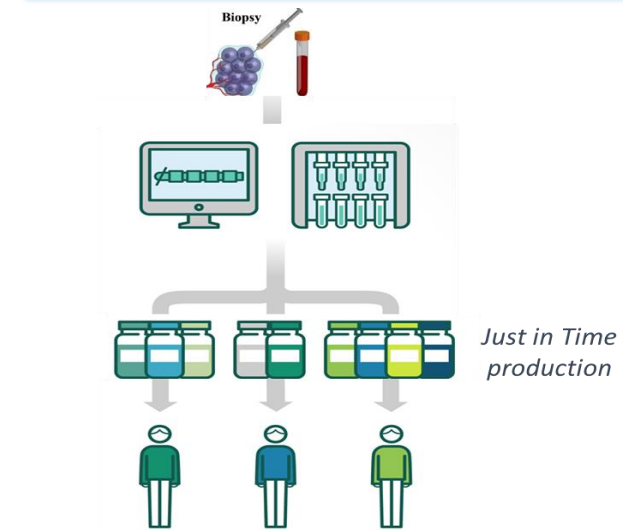
Personalized vs *Off-the-Shelf* cancer vaccines

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



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

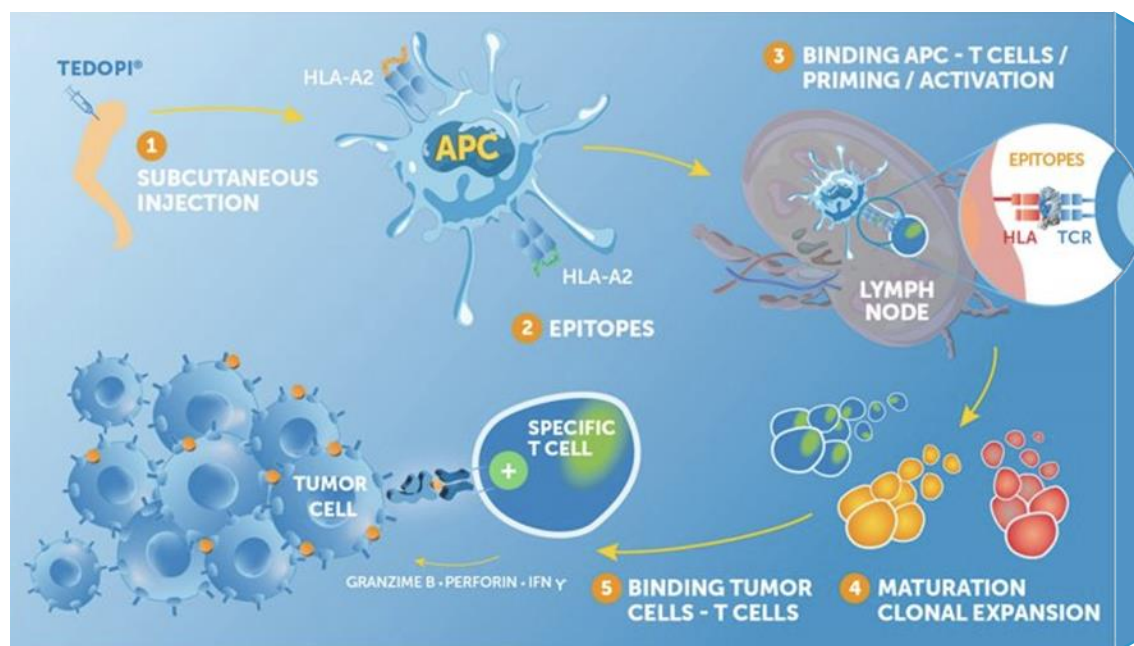
Neoantigen cancer vaccine
= **Personalized Medicine**
-> *Custom*



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

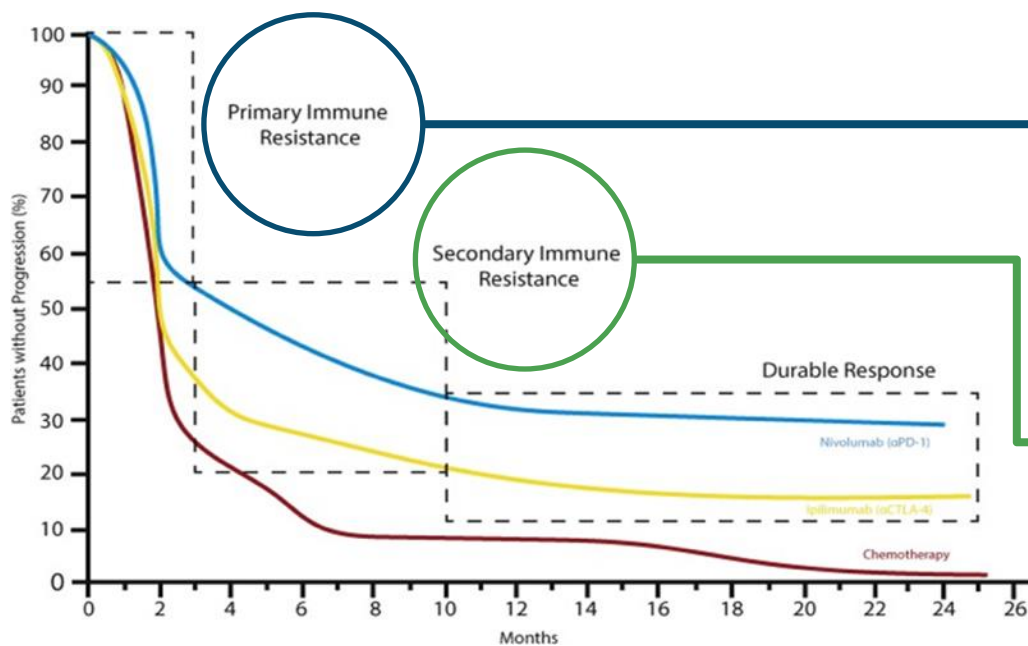
Ready to Use
subcutaneous formulation
with Q3W injection

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

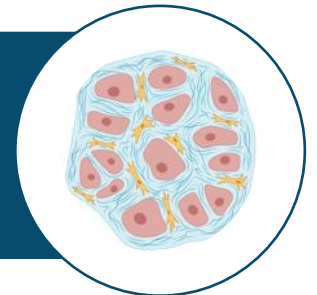
Shifting paradigms with cancer vaccine immunotherapy



Primary (intrinsic) resistance

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

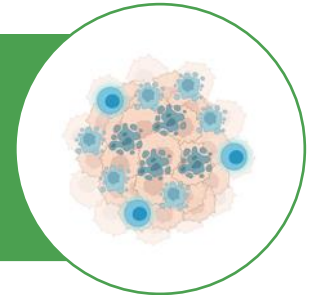
No T-cell refractory tumors



Secondary (acquired) resistance¹

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

T-cell exhausted & dying



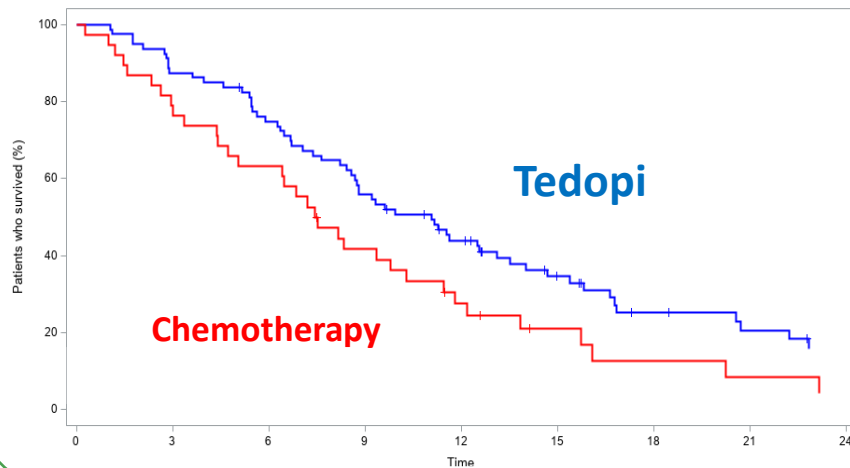
Tedopi® has the **potential to rejuvenate & refresh specific TILs** in immuno-sensitive tumors. Neopeptide-specific T cells have tumor killing potential and limited side effects.

Clinically meaningful benefit of Tedopi® in 3rd line NSCLC

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

Overall Survival

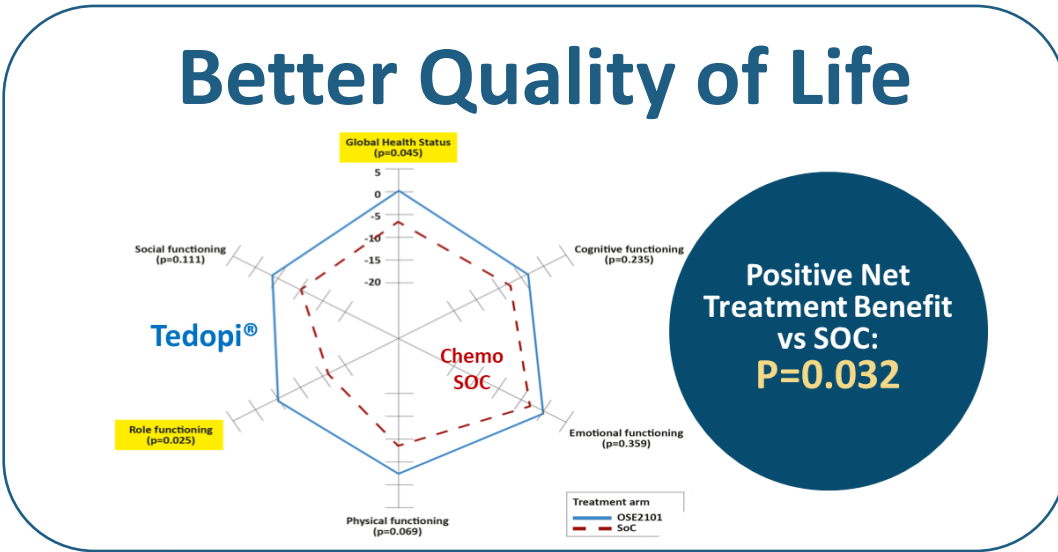
secondary resistance post anti-PD(L)1



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

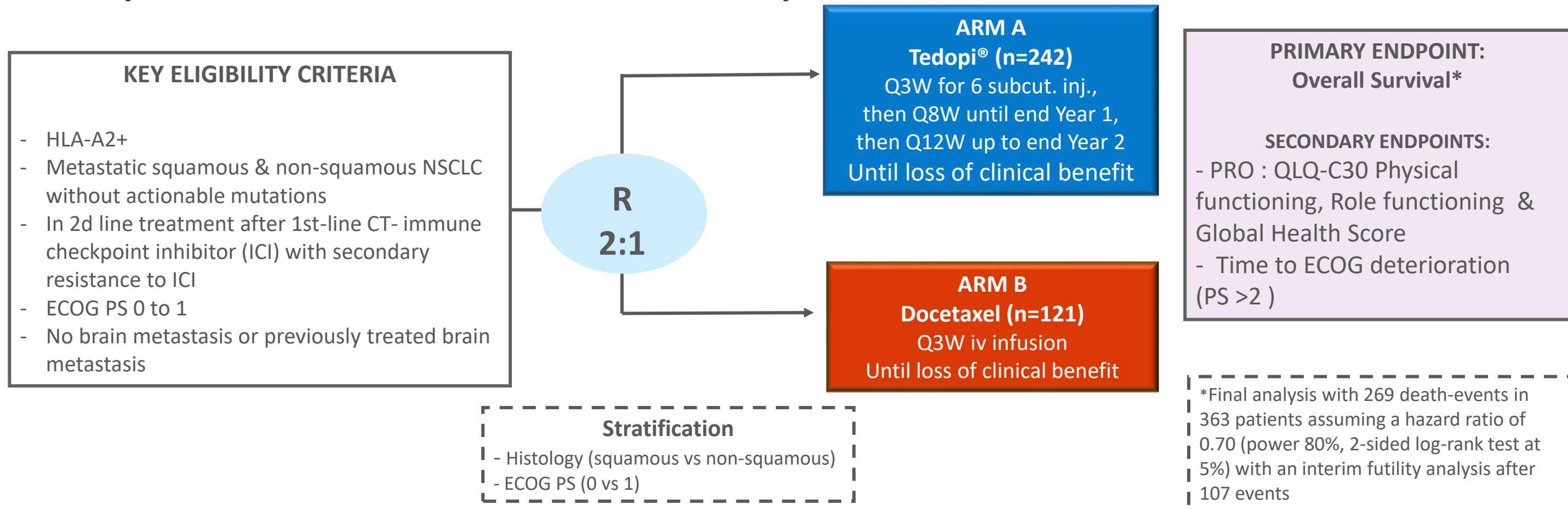
Delta OS: **3.6** months
Tedopi® 11.1 months
 VS
SoC 7.5 months
 HR 0.59 /
 p-value=0.017

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.

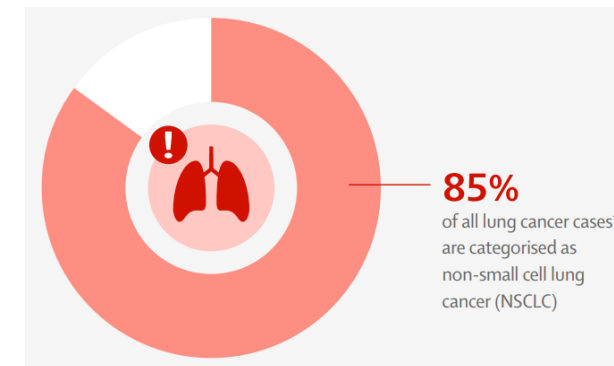
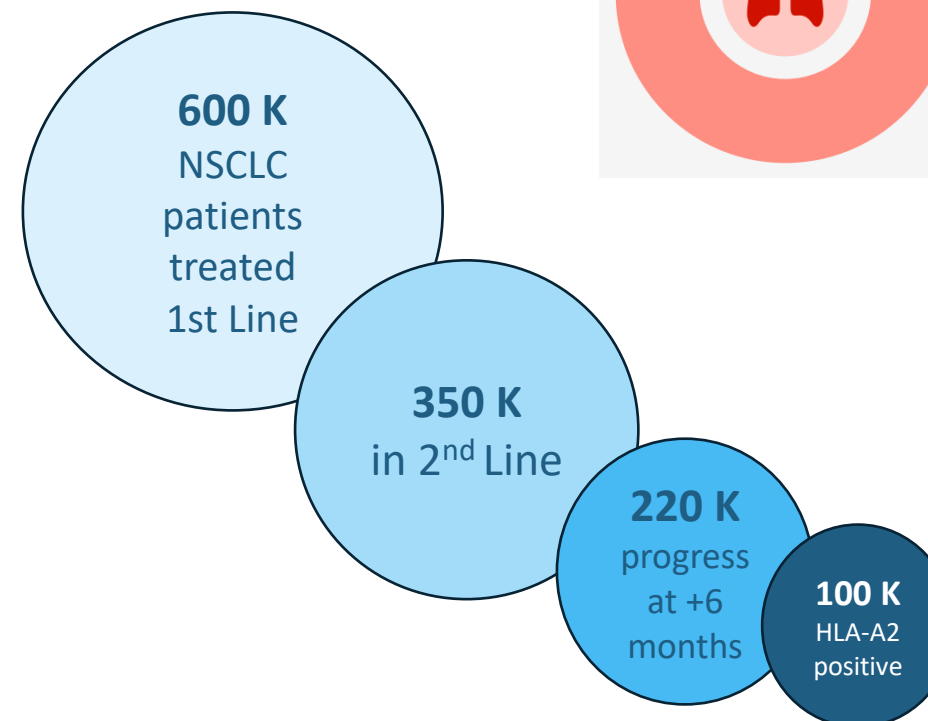
Treatment paradigm in NSCLC with no driver mutation

- 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)

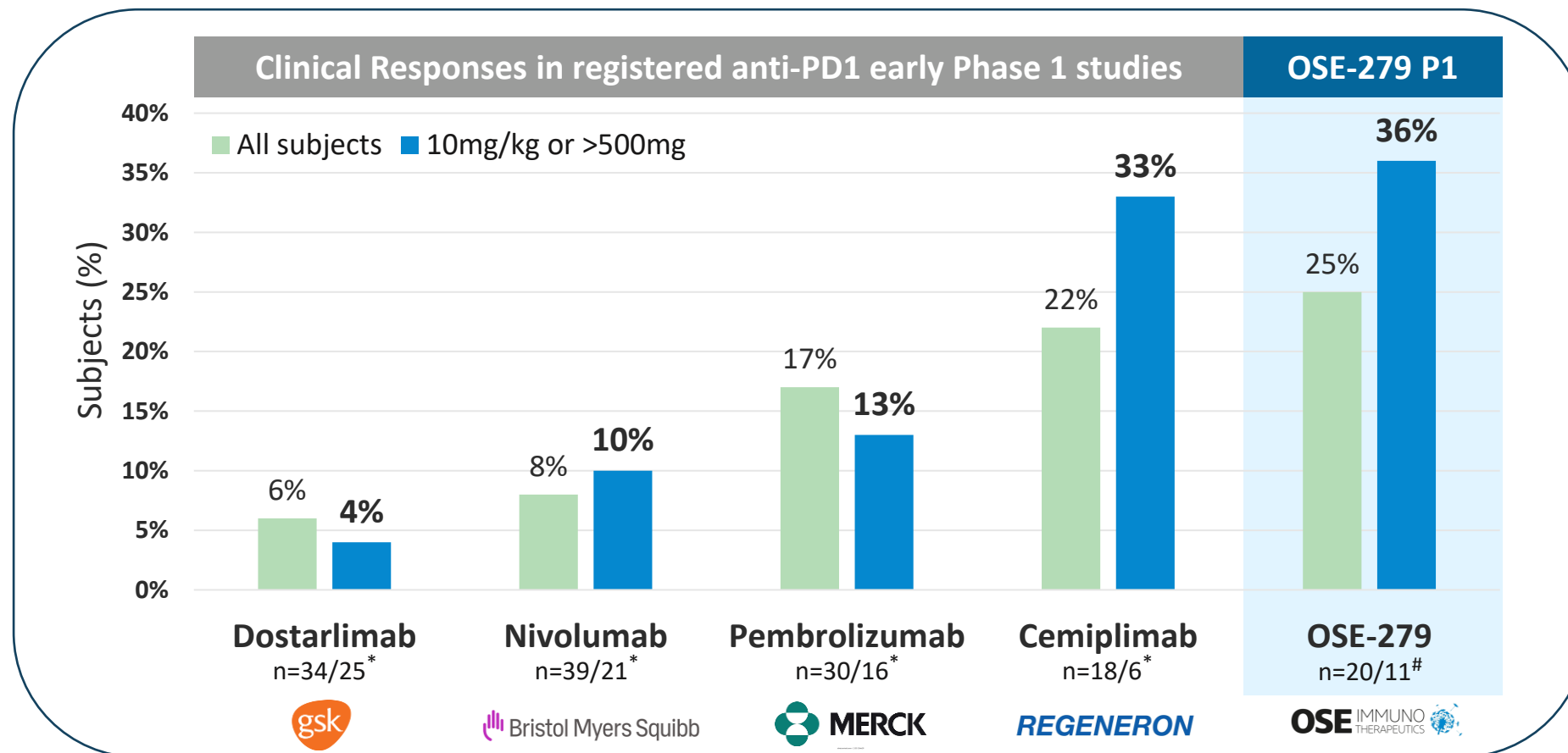


Positive Topline Result with primary endpoint met (March 2025)

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.



Partnered clinical programs

Resolution of inflammation

Pr. C. Serhan, Harvard
seminal works
(OSE SAB member)



NEWS | FEATURES



Inflammation's **STOP SIGNALS**

Inflammation doesn't just peter out. The body actively shuts it down, using signals that researchers hope to transform into therapies *By Mitch Leslie*

Players in the endgame

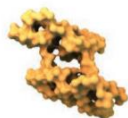
An assortment of molecules shut down inflammation and promote tissue healing by targeting different cells.



Lipoxins
Lipids whose jobs include stimulating macrophages and preventing neutrophils from slipping between endothelial cells to enter damaged tissue.



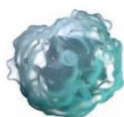
Protectins
Lipids that curtail release of inflammation-promoting molecules and are protective in the nervous system.



Annexin A1
A protein released by dying neutrophils, its functions include preventing other neutrophils from entering the injured site.



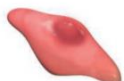
Hydrogen sulfide
Message-carrying gas that reduces pain and stimulates neutrophils to commit suicide.



Macrophages
After clearing an infection, these immune cells consume proinflammatory cellular remains.



Neutrophils
First responders to wounds and infections, they release inflammatory cytokines.



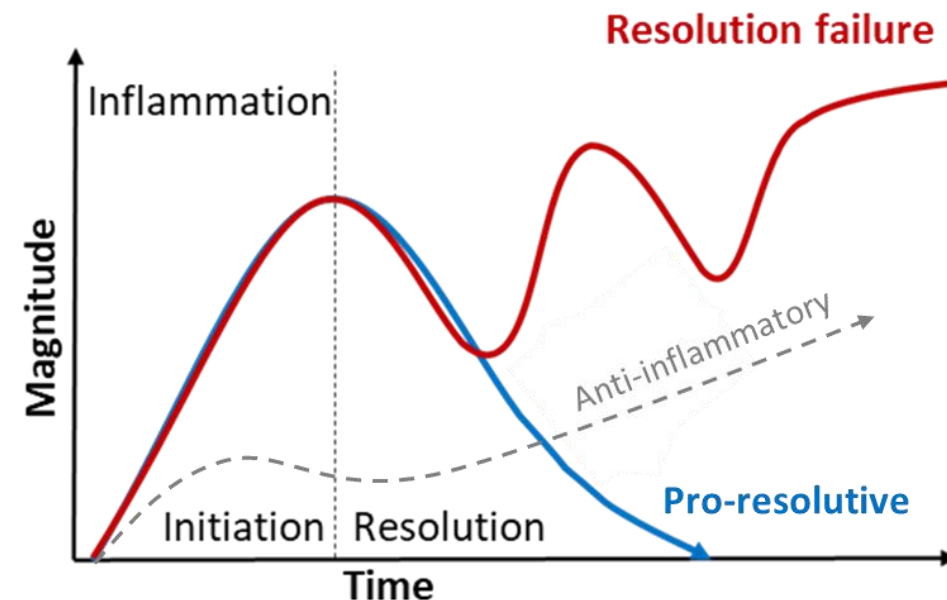
Endothelial cells
These cells form the walls of blood vessels and make H₂S.



Nerves
Inflammatory molecules trigger nerve cells, creating pain and itchiness.

SCIENCE sciencemag.org

2 JANUARY 2015 • VOL 347 ISSUE 6217 19

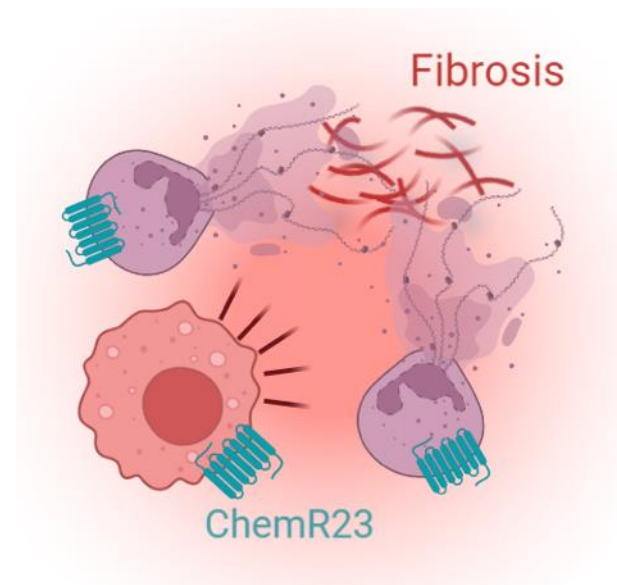


ABBV-230 - Resolving inflammation is an active immune process



During chronic inflammation

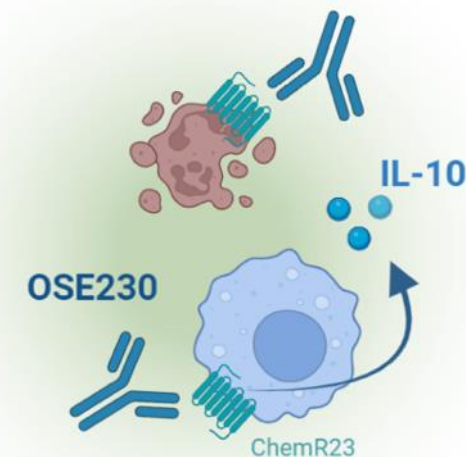
Dying neutrophils **send out inflammatory signals (e.g. NETosis)** that are important in maintaining chronic inflammation & fibrosis



With ChemR23 agonistic mAbs

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

Restoration of homeostasis



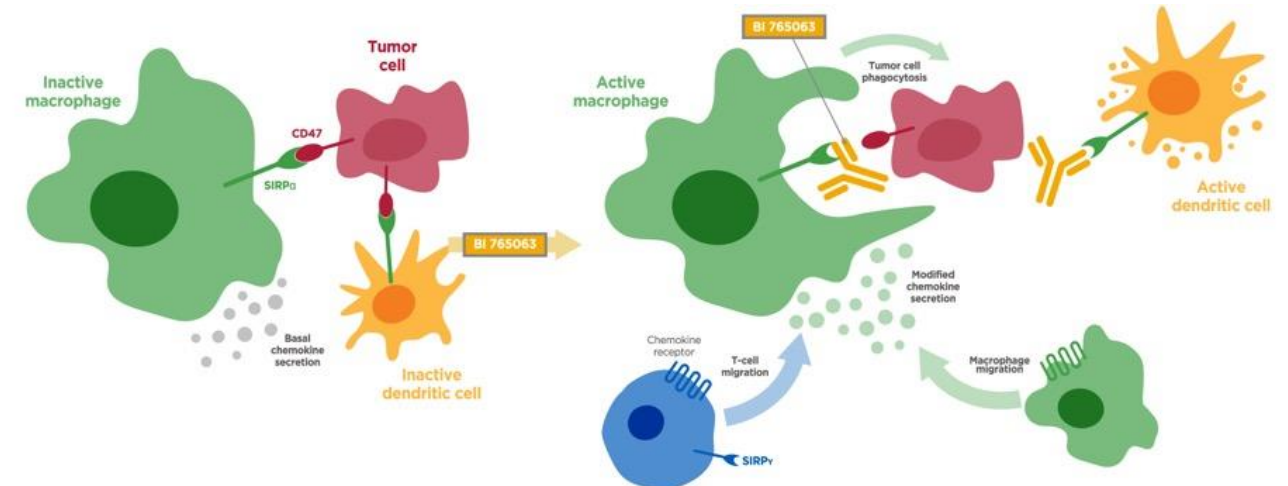
Potential First-in-class pre-IND candidate

Published in **ScienceAdvances**
MAAS

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

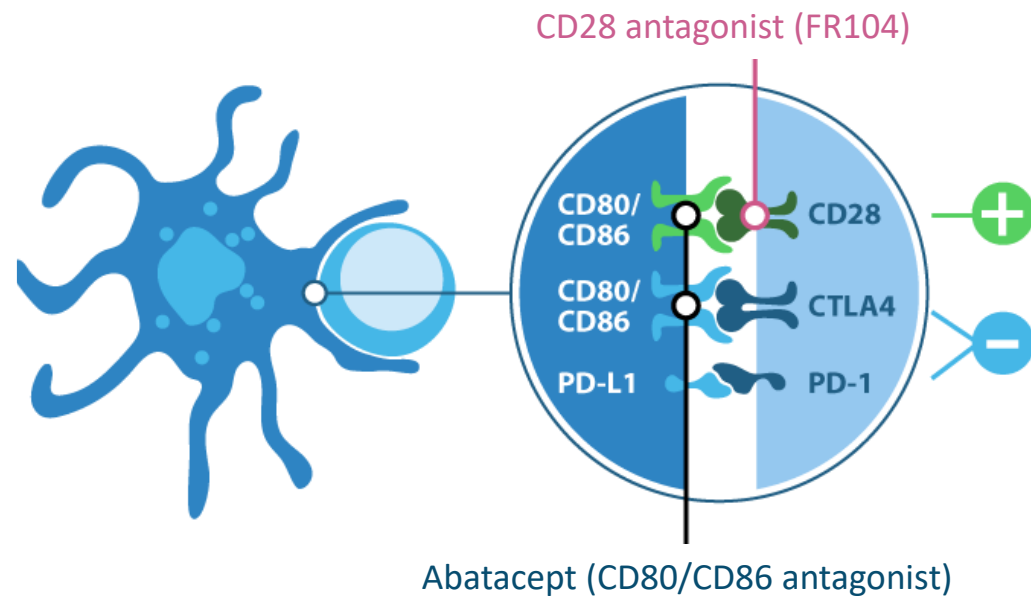
Higher therapeutic window expected

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

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75014 Paris, France

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