OSE IMMUNO THERAPEUTICS

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

January 2025



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Investment highlights

Late-stage compelling products	Promising clinical data from the Phase 3 oncology asset Tedopi [®] Positive Phase 2 IBD asset Lusvertikimab
Large market opportunities	Focus on multi-billion \$ markets • I/O: NSCLC (2L, 3L), HCC (1L, 2L), HNSCC (2L), Leukemia
	I&I: IBD (Ulcerative Colitis), Kidney Transplantation, Cardiovascular-Renal-Metabolic diseases
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
Multiple upcoming catalysts	 Multiple key clinical and regulatory milestones expected in next 12 months Tedopi[®]: Confirmatory pivotal phase 3 NSCLC 2L and combination Phase 2 update Lusvertikimab (OSE-127): Full dataset efficacy results Ulcerative Colitis Phase 2 BI 770371: Phase 1b results in solid tumors/Phase 2 update in MASH FR104/VEL-101: Phase 2 start in Kidney Transplantation ABBV-230: IND/Phase 1
Financial position	Cash visibility until 2027 €80.7 million level of cash as of June 30, 2024, providing solid financial position and visibility until 20



4 (>2035), ABBV-230 (>2040)

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Delivering first-in-class immunotherapies from Target to Clinic

Key strategic pharma partnerships driving long-term value

- Founded in 2012
- IPO/Euronext in 2015
- **60+ FTEs** •
- **500+ granted patents**
- **52 M€** : Equity
- €219 M : Partnerships* +80% non-dilutive funding

First-in-class *immunotherapies*

Phase 3 asset in **Oncology** Tedopi[®] most advanced cancer vaccine NSCLC 2L post-CPI market: +\$5b/year

Lusvertikimimab anti-IL-7R mAb

3	Strategic Pharma Partners	+€2.1b potential milestones	abbvie

5 **Clinical stage assets**

- 3 **Fully** owned (Phase 1, 2, 3)
- 2 Partnered (Phase 1, 2)

3

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Pre-clinical platforms Assets approaching development

- Innovative MoA & Targets to address critical unmet need
- International Research Collaboration

* Including upfront, milestones and reinvoiced R&D costs + previous license agreement with J&J and Servier

Phase 2 asset in Inflammation Ulcerative colitis market: +\$10b/year

Boehringer Ingelheim







Memorial Sloan Ketterin





Strong foundation & recurrent track record of success

10 years of validated innovation in immunology thanks to an Extra[not]Ordinary R&D engine





Clinical pipeline

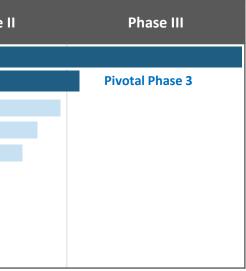
Combining a clinical portfolio of first-in-class immunotherapies and diversified assets in IO and I&I

	Product candidate	Target	Indication	Research	IND-enabling	Phase Ia/Ib	Phase I
			NSCLC Mono post-ICI 3L				
		Neeeritere	NSCLC Mono post-ICI 2L				
	Tedopi®	Neoepitope Vaccine	PDAC Combo (exploratory ellS)				
o			OC Mono or Combo (ellS)				
			NSCLC Combo 2L post-ICI (ellS)				
	OSE-279	Anti-PD1	Solid tumors				
	BI 770371	Anti-SIRPa	Solid tumors (HNSCC, HCC)				
	IL-7R CAR-T	IL-7R CAR-T	IL-7R+ tumors				
	Anti-PD1/cytokine	Undisclosed	Solid tumors				

	Product candidate	Target	Indication	Research	IND-enabling	Phase Ia/Ib	Phase II	Phase III
	OSE-127 Lusvertikimab	Anti-IL-7R	Ulcerative Colitis					Positive Results
<u> &</u>	BI 770371	Anti-SIRPa	MASH					
	FR104/VEL-101	Anti-CD28 Veloxis	Kidney Transplantation					
	ABBV-230	Anti-ChemR23 abbvie	Chronic Inflammation					



NSCLC: Non-Small Cell Lung Cancer; PDAC: Pancreatic Ductal AdenoCarcinoma; OC: Ovarian Cancer; ALL: Acute Lymphoblastic Leukemia. UC: Ulcerative Colitis.; IND: Investigational New Drug Application.



Research platforms

Extra(not) Ordinary Research PowerHouse



- Anti-SIRPα
- Anti-CLEC-1 mAbs



- ► Anti-PD1/cytokine 🎸
- Cis-Demasking technology



Anti-ChemR23



 Undisclosed new pro-resolutive GPCRs





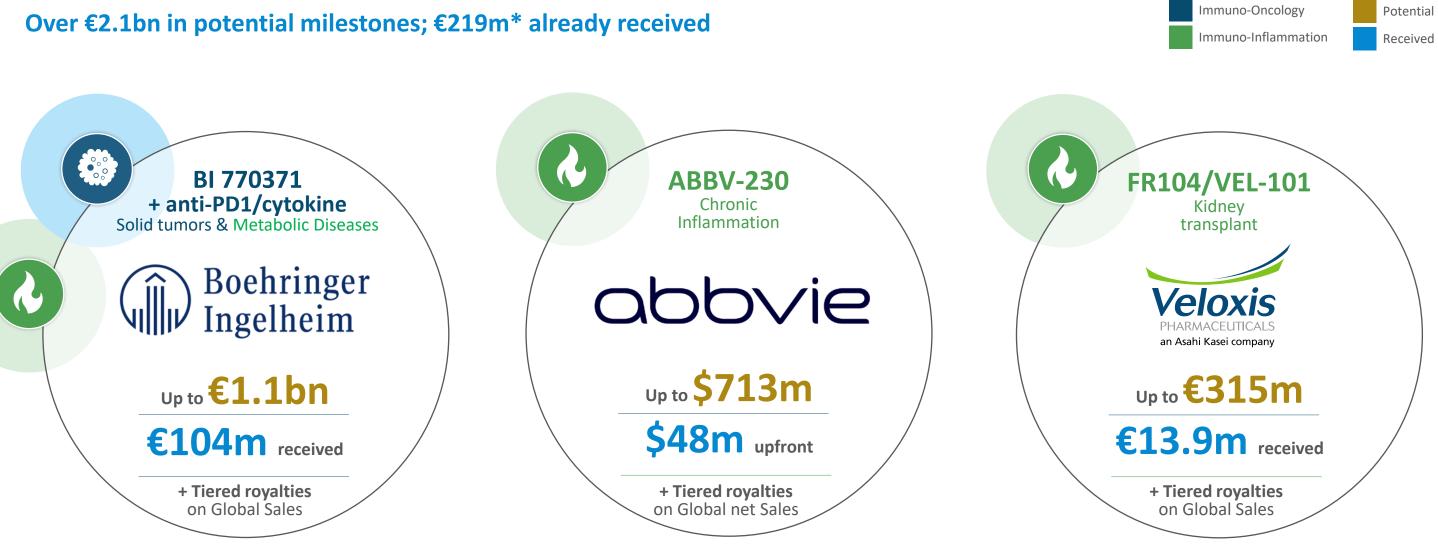
IL-35 mRNA

Undisclosed programs



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

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Key potential catalysts*

Readouts

Lusvertikimab

Full dataset Phase 2 induction UC results First-OLE Phase 2 UC results UC phase 2 safety results

- Tedopi[®] Phase 2 PDAC results
- BI 770371 (partnered)* Phase 1b <u>results</u> in solid tumors

Progress Lusvertikimab Strategic update

- Tedopi[®] Phase 3 NSCLC 2L update Phase 2 combination completion
- FR104/VEL-101 (partnered)* Phase 2 start in Kidney Tx
- ABBV-230 (partnered)* IND/Phase 1
- **R&D** programs & Lusvertikimab New partnering opportunities

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
- FR104/VEL-101 (partnered)
- ABBV-230 (partnered) Phase 1 results + Phase 2 results

Progress

- Lusvertikimab Phase 2b/3 start
- Undisclosed Program IND/Phase 1
- New R&D programs/platforms
- New partnering opportunities



* Best estimate from the Management - not binding

Phase 2 results in Kidney Transplantation



Proprietary clinical programs



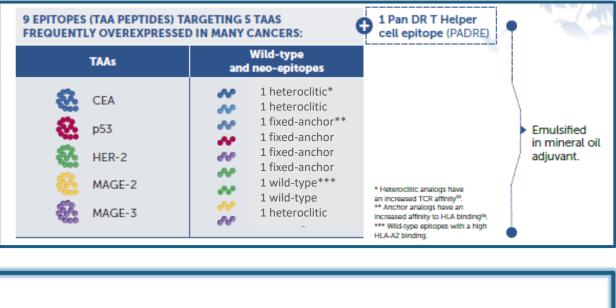
TEDOP

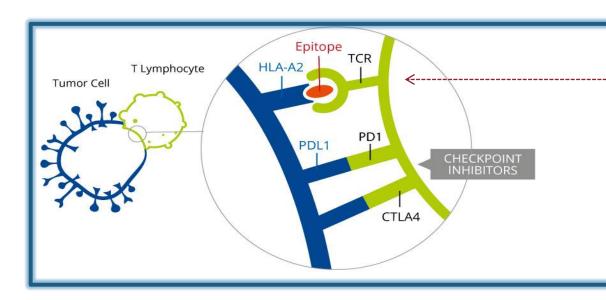
Most Advanced Therapeutic Cancer Vaccine Bringing new hope to patients in the fight against ICI resistant NSCLC



Tedopi[®] (OSE-2101): Product description

Tedopi[®] is a therapeutic cancer vaccine composed of modified epitopes restricted to HLA-A2+ targeting 5 Tumor-Associated Antigens frequently expressed in lung cancer^{1,2}





The complex binding of MODIFIED EPITOPES / HLA-A2 / TCR is MANDATORY to activate **Cytotoxic T-cell response:**

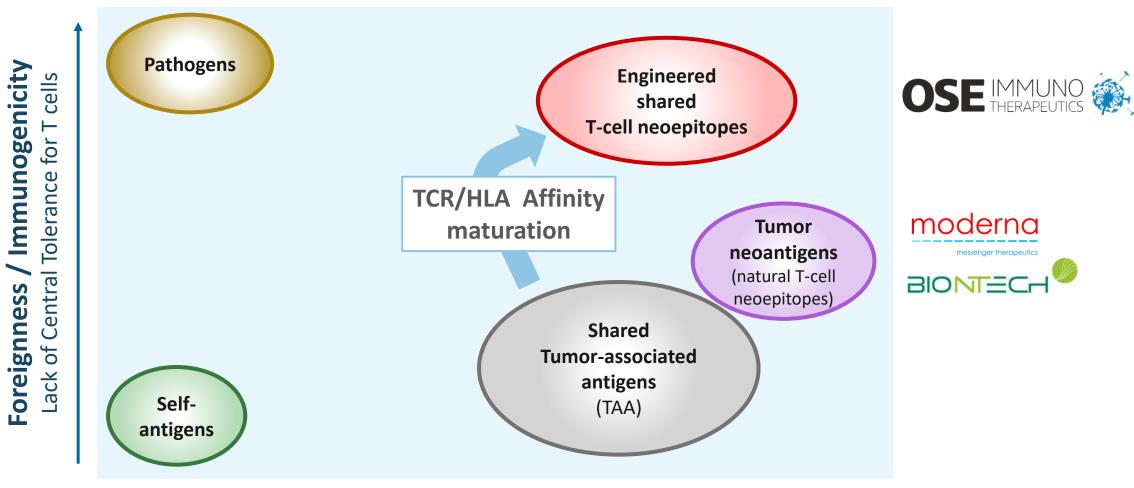
1st SIGNAL for T-Lymphocyte activation



1 Beebe 2008, 2 Kluger 2020; HLA=Human Leucocyte Antigen; TAA=Tumor-Associated Antigen; NSCLC=Non-Small cell lung cancer; Carcinoembryonic Antigen (CEA); Human Epidermal Growth Factor Receptor 2 (HER-2/neu); Melanoma A2 Antigen (MAGE-2); Melanoma A3 Antigen (MAGE-3); Protein Tumor 53 (P53)

Tedopi[®]

Cancer antigens immunogenicity



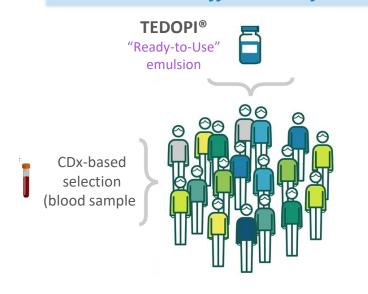
Tumor-specific expression of antigens





Personalized vs *Off-the-Shelf* cancer vaccines

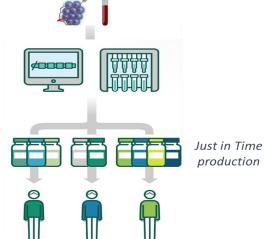
Neoepitope cancer vaccine = Precision Medicine -> Off-the-Shelf



Homogeneous HLA-A2+ population (~45%) **Strong CD8+ CTL responses**

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

Neoantigen cancer vaccine = Personalized Medicine -> Custom



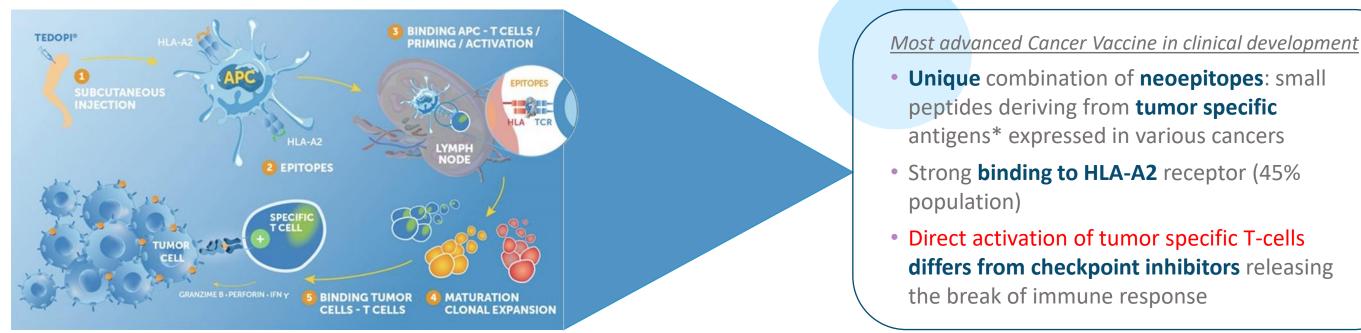
Cons: Tumor biopsy, Cost, Time Epitope prediction robustness Variable responses/immunogenicity

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



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

Induces early T cell **memory** responses **Migration** in tissues

Ready to Use subcutaneous formulation with Q3W injection

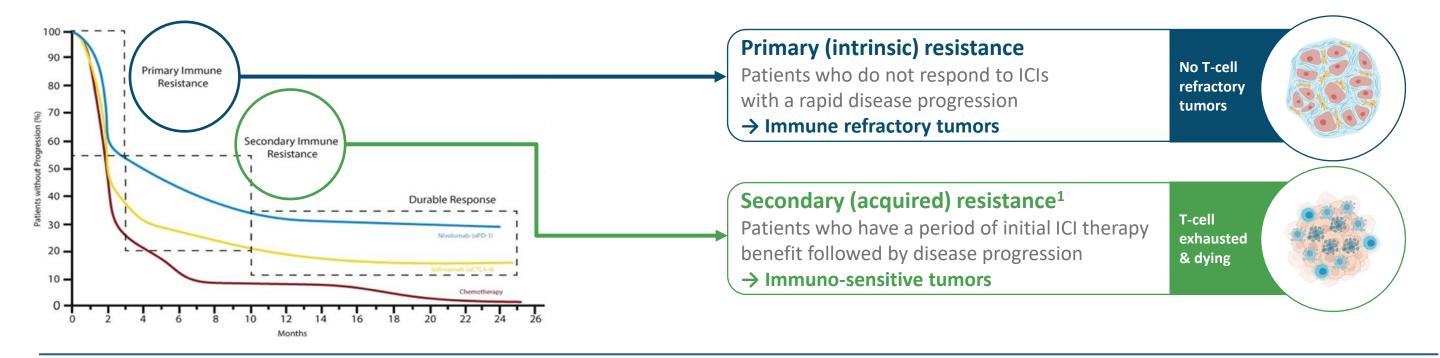
Orphan Drug Designation (FDA) >1,000 injection in clinical trials

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

1: OSE Immunotherapeutics Receives New European Patent

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

Shifting paradigms with cancer vaccine immunotherapy



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



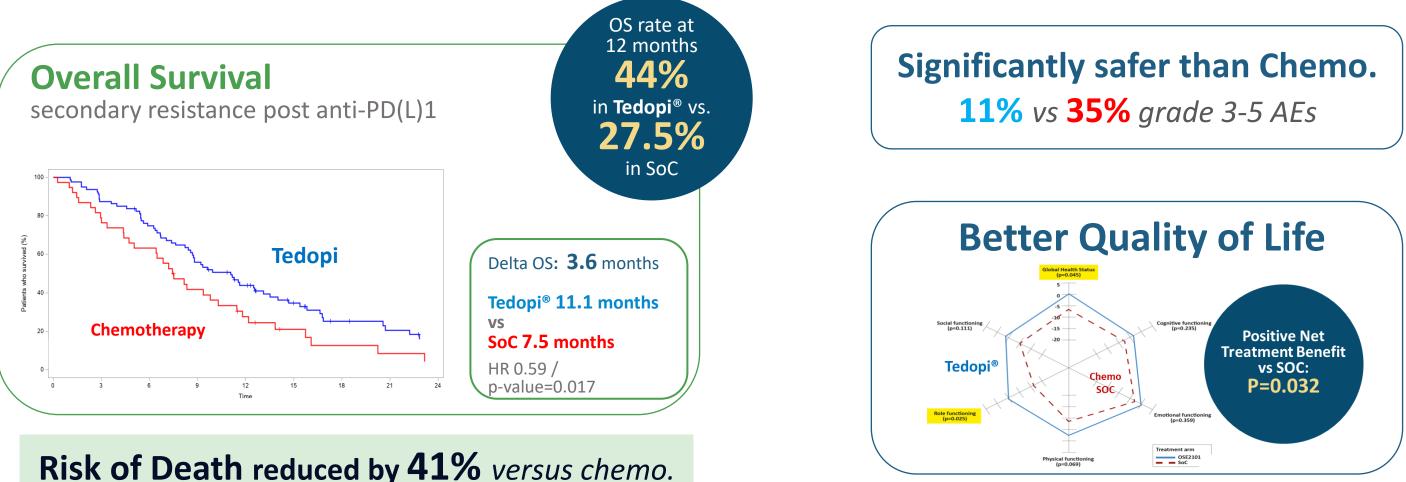
Figure: Schoenfeld AJ, Hellman MD. Cancer Cell 2020. Baxter MA, et al Br J Cancer 2021. 1: After at least 12 weeks of ICI treatment in monotherapy (Task force SITC 2020 - Kluger H et al 2020). ICI: immune checkpoint inhibitor. TILs: Tumor-infiltrating lymphocytes.

Tedopi[®]

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Clinically meaningful benefit of Tedopi[®] in 3rd line NSCLC

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



Risk of Death reduced by 41% versus chemo.







Tedopi[®] delivers important clinical benefits vs competition

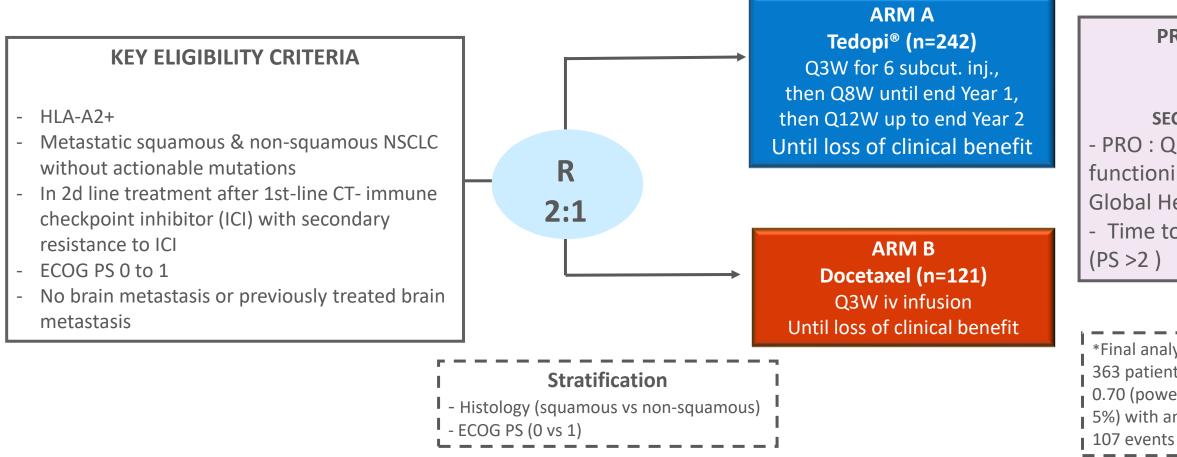
Better Safety profile and QoL in current landscape of late-stage drug development post CT-IO

Company		THERAPEUTICS	EXELIXIS	MERCK Eisai	gsk		AstraZeneca	GILEAD	SANOFI	abb∨ie
Townst				Checkpoint Inhibitors		ADCs				
Target	Multi-epitopes vaccine		Kls (anti-angiogenio	C)	TIM-3	CTLA-4	TROP2	TROP2	CEACAM5	c-MET
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





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)



PRIMARY ENDPOINT: Overall Survival*

SECONDARY ENDPOINTS: - PRO : QLQ-C30 Physical functioning, Role functioning & Global Health Score - Time to ECOG deterioration (PS >2)

*Final analysis with 269 death-events in 363 patients assuming a hazard ratio of 0.70 (power 80%, 2-sided log-rank test at 5%) with an interim futility analysis after 107 events

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.

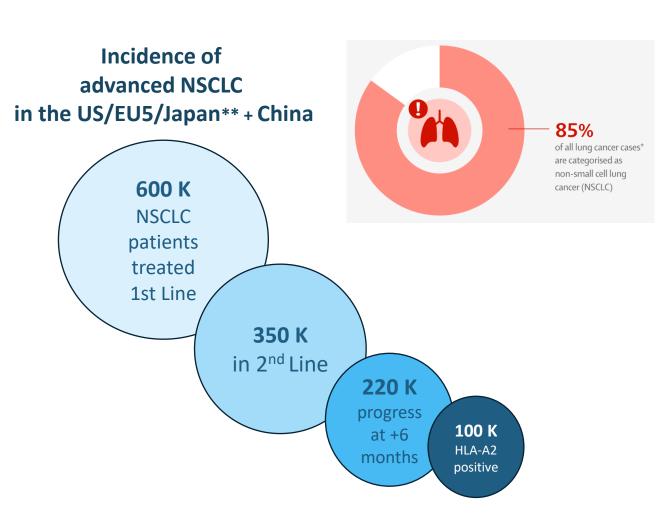
Treatment paradigm in NSCLC with no driver mutation

- 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





Tedopi[®]

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

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 **ARCAGY - GINECO** (Gustave Roussy Institute) France/ Germany/ Belgium

Recruitment completed Q4 2024 Readout expected in Q2 2026

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

Recruitment completed Q2 2023

Readout expected in H1 2025

- 1 NCT04884282 105 Patients planned
- 2 NCT04713514 180 Patients Recruitment completed
- 3 NCT03806309 136 patients Recruitment completed





Maintenance setting post standard of care

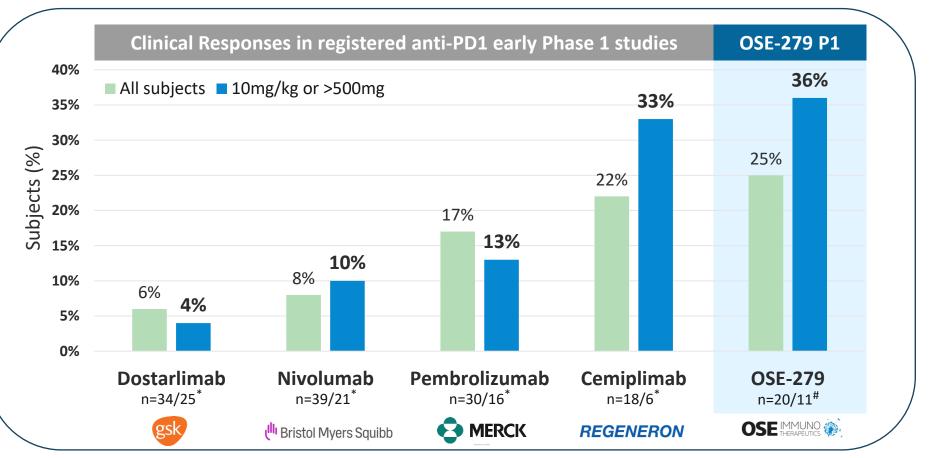
TEDOPaM - Pancreatic Cancer (In combination with FOLFIRI



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

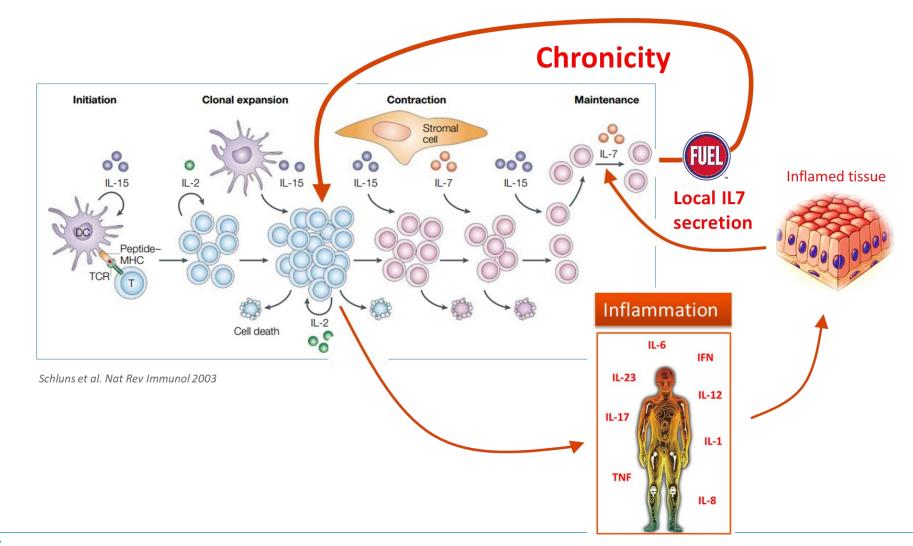
Lusvertikimab

Most advanced anti-IL-7R mAb Strong biological rational in refractory IBD patients



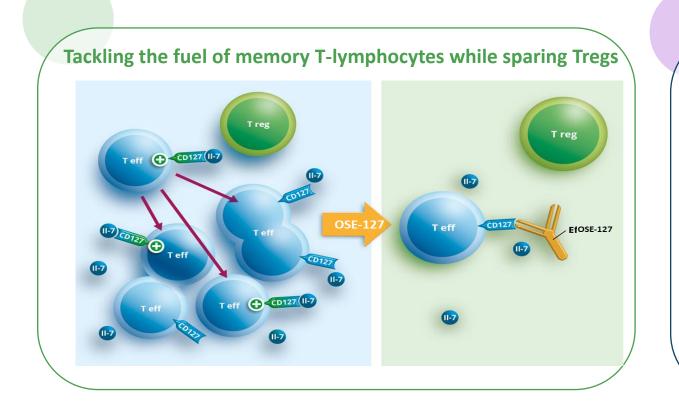
IL-7 fuels chronic inflammation in tissues

Lusvertikimab controls pathogenic memory T-cell persistence





Lusvertikimab/OSE-127 Pure IL-7 receptor antagonist mAb



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 ٠ target-engagement
- Positive Phase-2 study in UC Top-line Results Q3 2024
- High preclinical activity in acute leukemia (T and B-ALL)⁴ ASH Merit Award- ALL



1: Belarif et al. JCI 2019. 2: Belarif et al. Nature Communication (2018). 3: Poirier et al. Journal of Immunology 2023. 4: https://www.ose-immuno.com/wp-content/uploads/2022/11/EN 221103 ASH OSE-127.pdf

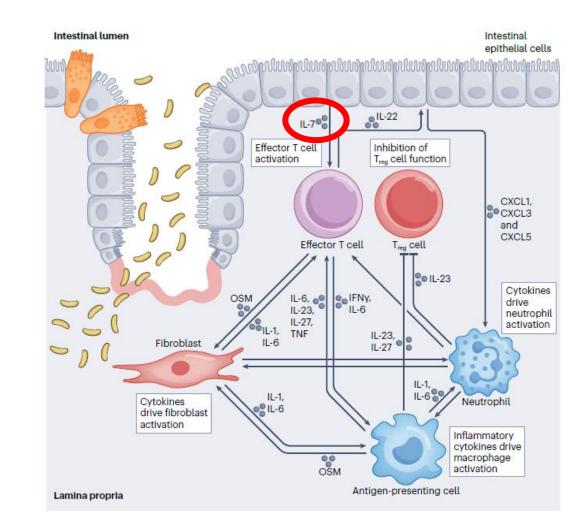
IL-7 downstreams mechanism of resistance in hyper-inflammatory IBD

The 'angry' cell concept and resistance to anti-cytokine therapies.

"Recent evidence suggests the presence of highly proinflammatory

- or 'angry' - cells in the intestinal mucosa in inflammatory bowel disease (IBD) that drive molecular resistance to anticytokine therapy (such as anti-tumour necrosis factor (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."

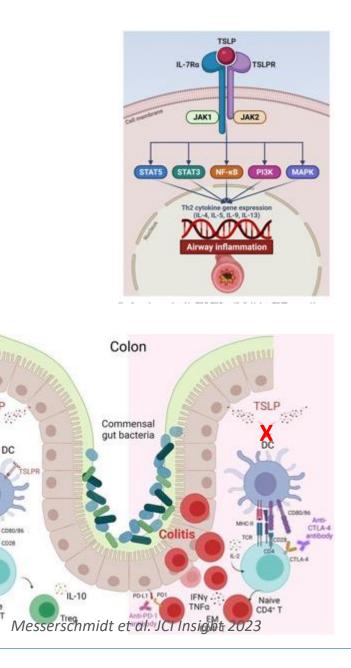


Neurath M. Nature Review Immunology 2024

Protective role of TSLP in intestinal immunity

Lusvertikimab selectively blocks IL-7 but not TSLP axis

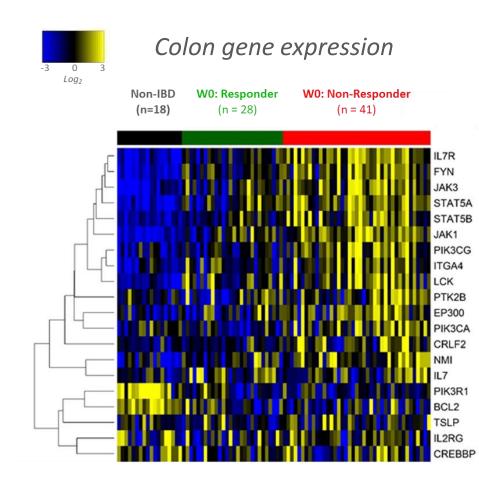
- TSLP drives Th2 responses → Pathogenic role in allergic diseases & atopic responses
- TSLP drives Foxp3+ Treg induction by DCs against commensal bacteria (Spadoni et al. Mucosal Immunology 2012; Jiang et al. Bio Med Central Immunology 2006)
- TSLP protects against colitis & intestinal disorders (intestinal cytokine) (Aubry et al. Microbial Cell Factories 2015; Ziegler et al., Adv Pharmacol 2013; Spadoni et al. Mucosal Immunology 2012; Ordonez et al. Inflamm Bowel Dis 2012; Abraham et al Gastroenterology 2011)
- TSLP blockades or TSLP deficient mice exacerbates severe colon inflammation & gut inflammatory cytokines (IFNg, IL23, IL12p40...) (Messerschmidt et al. JCI Insight 2023; Reardon et al. Immunity 2011; Taylor et al. J Exp Med 2009)
- Decreased TSLP gene expression in IBD associated with severity (Messerschmidt et al. JCI Insight 2023; Tahaghoghi-Hajghorbani et al. Auto Immu Highlights 2019; Noble et al Infl Bow Dis 2010; Middel et al. Gastroenterology 2006; Rimoldi et al. Nature Immunol 2005)



Lusvertikimab

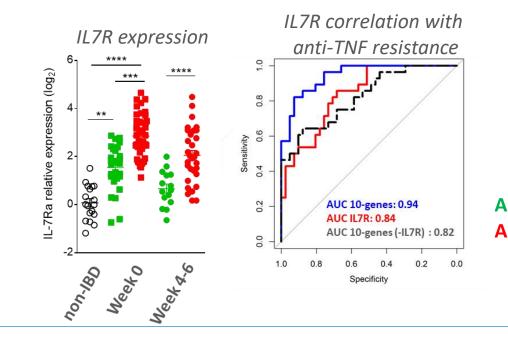
Mucosal IL-7R pathway over-expression in IBD tissues

High IL-7R expression in anti-TNF refractory patients



IL7R pathway gene expression enrichment



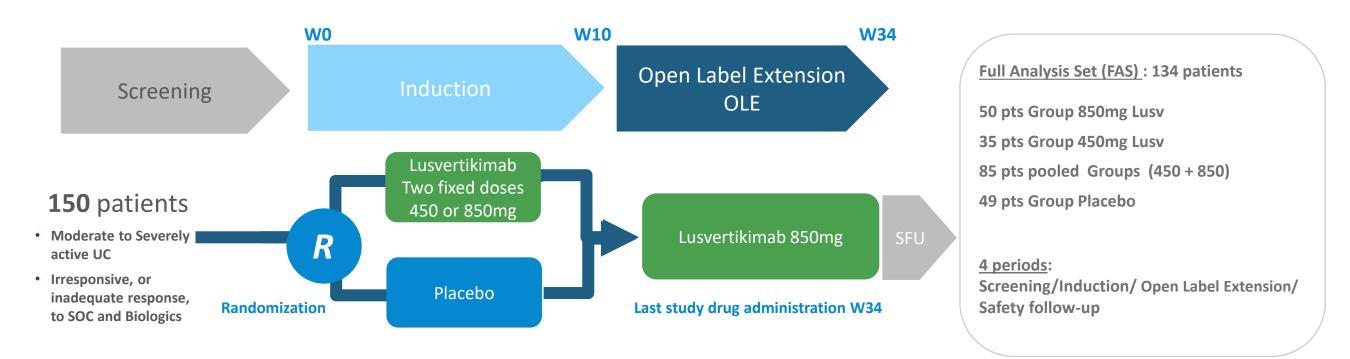


Anti-TNF Responder patients Anti-TNF Refractory patients



CoTikiS Phase 2 randomized study of Lusvertikimab

Moderate-to-severe Ulcerative Colitis



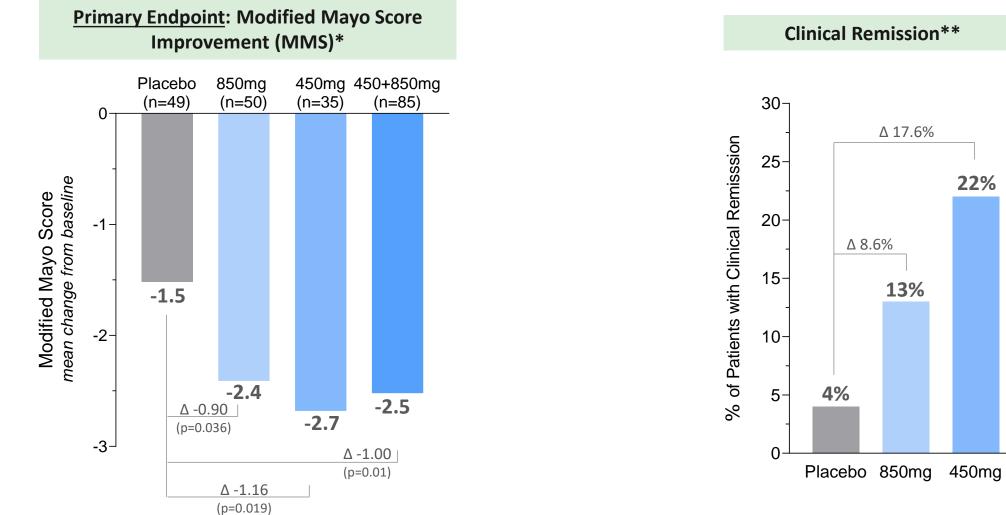
Multicenter, randomized, double-blind, placebo-controlled, parallel-group Phase 2 study in patients with moderate to severe active UC

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)

Clinical induction results at week-10

Clinically and statistically relevant clinical improvement in the Lusvertikimab groups



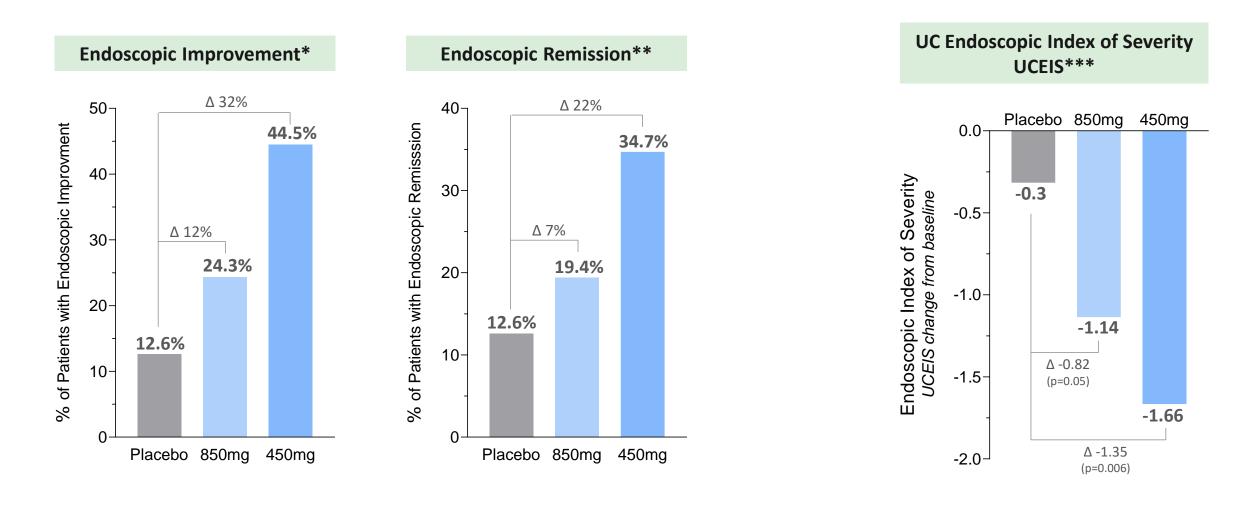
^µ Least Square Mean Difference between Lusvertikimab and placebo= difference between groups of the Mean change in MMS between baseline and W10



*Modified Mayo Score Improvement defined on mean change at Week-10 from baseline on the 3 subscores: rectal bleeding, stool frequency, endoscopic (central reading) **Clinical Remission defined by a modified Mayo score of ≤ 2 points with no individual sub-score of > 1 point and a rectal bleeding at 0

Clinical induction results at week-10

Clinically meaningful and significant endoscopic improvement and remission





*Endoscopic Remission = endoscopic Mayo score = 0 / ** Endoscopic Improvement: endoscopic Mayo score ≤ 1 point /

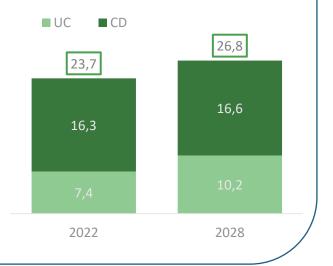
*** UCEIS: index of severity measured by three disease severity subscores: vascular pattern: 0 to 2 / Bleeding: 0 to 3 / / Erosions-ulcerations 0 to 3

Significant opportunity in Ulcerative Colitis & Acute Lymphoblastic Leukemia targeted markets

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 <u>only 25-30%</u> leaving most patients without satisfactory treatment

IBD Global market projections for G7 major markets (USDbn¹)



Acute Lymphoblastic Leukemia (ALL)

- ALL is a rare disease with a diagnosed incident cases in EU, US, China, Japan estimated to achieve 26,482 in 2029².
- 40% cases of ALL diagnosed are in adults and among them about 50% present refractory disease or undergo relapse under current conventional therapies³.
- IL-7R expression in >84% of B-ALL and T-ALL samples⁴



1: Evaluate Pharma2: Global Data4: OSE internal data released at ASH2022

3: Childhood Acute Lymphoblastic Leukemia Treatment (PDQ[®])–Health Professional Version, accessed October 2022 **5:** Researchandmarkets.com/reports/4857889



Partnered clinical programs



ABBV-230

Resolution of inflammation



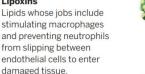
signals that researchers hope to transform into therapies By Mitch Leslie

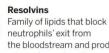


Players in the endgame

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







the bloodstream and prod macrophages to eat cellular debris.

Maresins Made by macrophages, lipids that spur tissue repair and act on nerves to ease pain

SCIENCE sciencemag.org

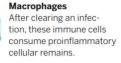


Protectins Lipids that curtail release of inflammationpromoting molecules and are protective in the nervous system.

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



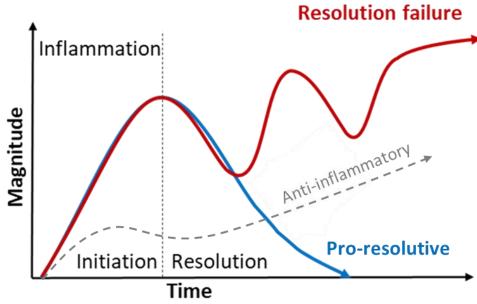
Neutrophils First responders to wounds and infections, they release

inflammatory cytokines.

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

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

2015 · VOL 347 ISSUE 6217 19 2 JANUA





Serhan CN: Nature Review Immunol 2013, Immunity 2014, Nature 2014, Science 2015, ...

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



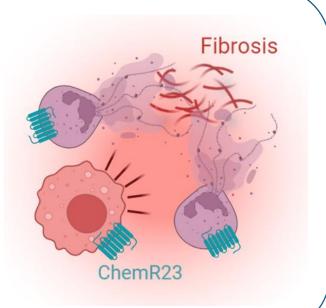




ABBV-230 - Resolving inflammation is an active immune process

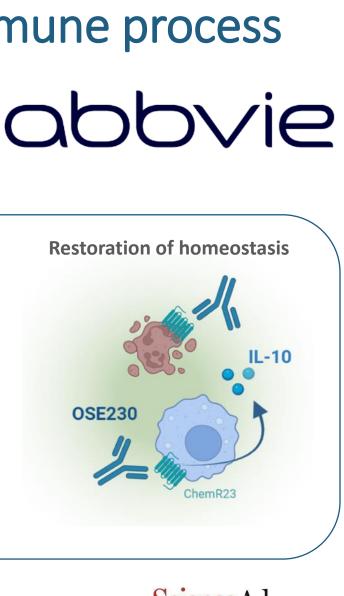
During chronic inflammation

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



Potential First-in-class pre-IND candidate

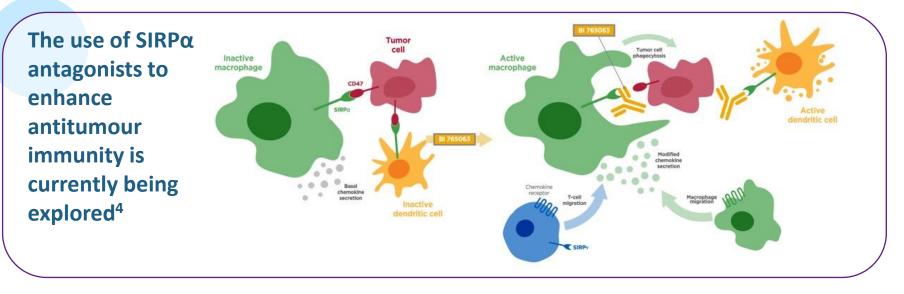


Published in **ScienceAdvances** AAAS

Trilleaud et a. Science Advances 2021; Poirier N. PEGS 2022

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

- Infiltrating myeloid cells promotes immune evasion, and this has generated interest in myeloid-immune targets^{1,2}
 - \circ 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



	Anti-CD47	Anti-SIRP α	
Broad/restricted expression	Broad	Restricted to cells of the myeloid lineage	Limited side ef
Safety signals	Acute anemia, Thrombocytopenia	No hematotoxicity	Higher therape
Interaction CD47/SIRPy	Inhibit human T cells	OSE-172 is SIRP α specific	Favors T cell res

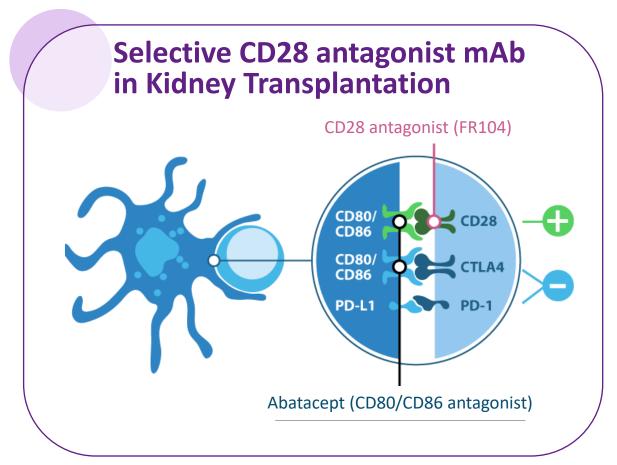
CD: cluster of differentiation; ICI: immune checkpoint inhibitor; SIRPa: signal regulatory protein-a.

ffects expected and less frequent dosing

eutic window expected

esponses in solid tumors

FR104/VEL-101 CD28 antagonist in organ transplantation



Ambitious Partnership & Development Plan with Veloxis

• **Veloxis** is a global leader in transplantation with leading product Envarsus XR (tacrolimus) realizing **c. USD 140m**¹ 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



- 1 https://www.asahi-kasei.com/ir/library/presentation/pdf/211005.pdf
- 2 https://www.asahikasei.com/ir/library/presentation/pdf/191125eng.pdf
- 3 Poirier et al. Science Transl. Medicine 2010 4 – Poirier et al. Am J Transplant 2015



5 - Watkins et al. Journal of Clinical Investigation 2018 6 - PR OSE of June 5th, 2024: Presentation at the 2024 ATC 7 - PR Veloxis of May 30th, 2024: Presentation at the 2024 ATC

FR104/VEL-101 - Transforming kidney transplant management

Positive results of the FIRsT phase I/II clinical evaluation in kidney transplantation¹

Good Safety profile and early sign of efficacy:

- Drug exposure allow high receptor occupancy maintenance Ο during the one-year follow-up.
- No acute rejection under FR104/VEL-101 treatment, including after calcineurin-inhibitor (CNI) discontinuation.
- No biopsy-proven acute rejection (BPAR) observed at 1-year Ο
- 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, cardiometabolic complications, **insufficient** graft protection as well as cancer and infections
- FR104/VEL-101 seeks to address challenges associated with current immunosuppressive transplantation regimens using CNIbased therapies



1 – PR OSE of June 5th, 2024: Presentation at the 2024 ATC

The OSE team



An experienced executive leadership team



Nicolas Poirier, PhD CEO

- 20 years of experience in biotech/immunotherapy
- Advanced 6 novel immunotherapies to clinic
- Leading to 6 pharma deals
- Global Management & Finance (INSEAD, HEC)



Sonya Montgomery, MD CHIEF DEVELOPMENT OFFICER

- 20+ years in Pharma / Biotech
- Global management, portfolio strategy, development plans, regulatory, from discovery through registration (Pfizer, Gyroscope Tx, Evox Tx, Transition Tx, Relypsa, ProQR, Vasogen ...)



Jean-Jacques Mention, PhD CHIEF BUSINESS OFFICER

- 15+ years of Research in Immunology at King's College London & Institut Pasteur
- 10 years experience in Business Development



Silvia Comis. MD HEAD OF CLINICAL

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



Anne-Laure Autret-Cornet CHIEF FINANCIAL OFFICER

- 15+ years in Finance / Biotech
- Graduated from ESSCA Management school
- Corporate Finance, HEC



- GSK)
- ٠



Aurore Morello, PhD HEAD OF RESEARCH

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



Fiona Olivier CHIEF CORPORATE AFFAIRS & INVESTOR RELATIONS OFFICER

30+ years in international communications, public affairs and patient engagement at global companies (Sanofi, AbbVie, Abbott,

Degree in Communications (DCU) & Master in Public Affairs (Sciences Po)

Corporate Highlights

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



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



Maryvonne Hiance Vice Chairwoman

Founder and CEO of Effimune General Manager SangStat Atlantic, DrugAbuse Sc.

Former President & Vice President of France Biotech



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



Nicolas Poirier, PhD Director, CEO & Chief Scientific Officer



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





Cécile Nuven-Cluzel Independent Director





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





Marc Dechamps Independant Director



35+ years in pharma industry (GSK, ViiV Healthcare) Expertise in market development for new products, I&I, I/O, vaccines CEO of Bioxodes



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 Scientific Advisory Board (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

HARVARD

UNIVERSITY

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

Professor of Genomic Medicine & Surgical Oncology, UT MD Anderson d'Immunologie de Marseille-

THE UNIVERSITY OF TEXAS

Cancer Center

MDAnderson

Cancer Center



Jennifer Wargo, MD, M.M.Sc Bernard Malissen, PhD

Group Leader at Centre 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

Key financial and shareholding structure



Key financials		Shareholding structure
ISIN code	FR0012127173	
Market	Euronext Paris	
Shares outstanding	21 817 777	Institutional Investors and Retail
Market cap (Sept 5, 2024)	€193 m	73%
Level of Cash (June 30, 2024)	€80.7 m (of which €75.7 m classified in financial assets)	Analyst coverage
Financial visibility	2027	Kepler Cheuvreux
		BRILLIANT KNOWLEDGE



Founders, Management, Board and Employees 27%

December 31, 2023







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

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

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