

MaaT Pharma <u>Microbiota as a</u> <u>Therapy</u>

> Company Presentation August 2022

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A Uniquely-Positioned Microbiome Company

Ma Sat Sat Listed on **Euronext (MAAT)** Pioneering development of **Microbiome Ecosystem Therapies** to address **hematological malignancies and oncology**

Differentiated approach, lead asset in Phase III in aGvHD

Multi-asset clinical and preclinical pipeline with near-term, value-creating catalysts

Proprietary gutPrint® metagenomics technology platform driving product candidate generation

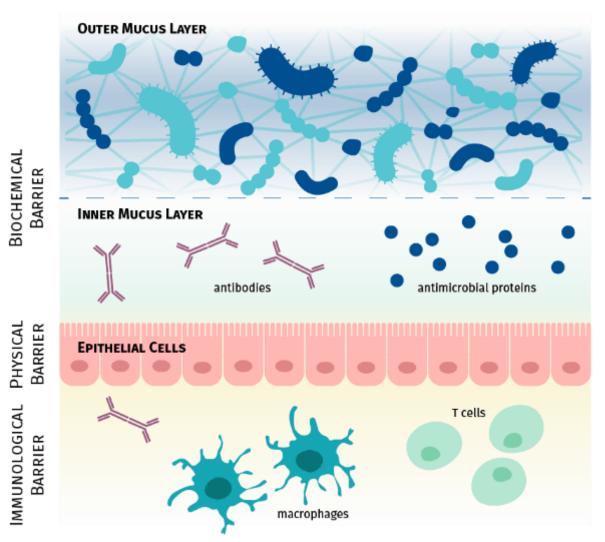
European cGMP production facilities supporting versatile product range and optimized positioning

Strong IP portfolio of 13 patent families that **provides protection until 2036-2041 in all major markets**

Strong leadership team with a proven track record and supported by a scientific advisory board of global experts and top tier specialist investors



Host – Microbiota Interactions are Critical for a Functional Immune System



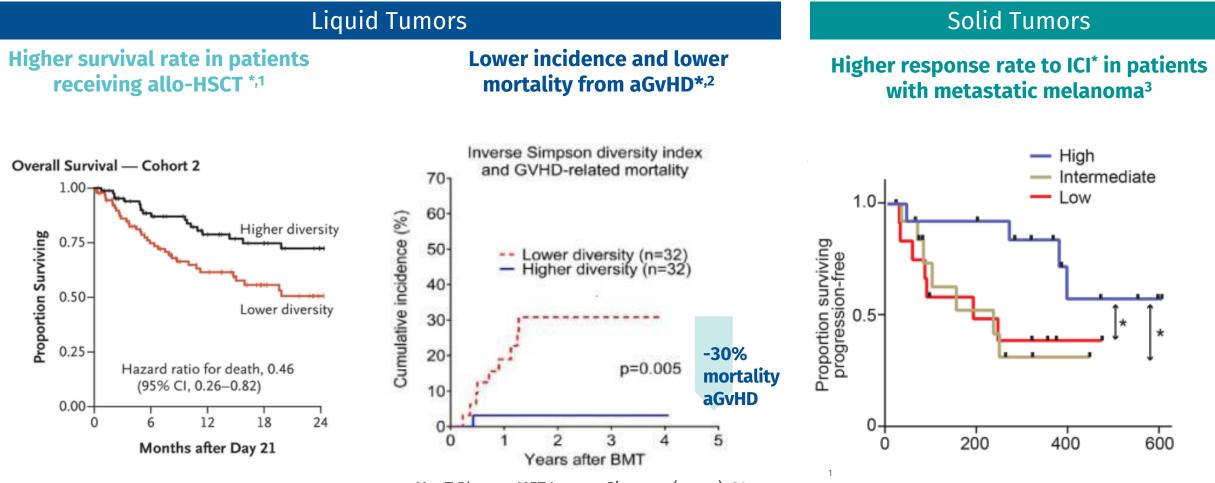
Cross-section of a healthy gut

A rich and diversified gut ecosystem actively modulates the immune system functionality

- A diversified microbiome contributes to the education and modulation of our immune system throughout life
- Bacterial richness and mucus layer prevent colonization by pathogens and improve gut barrier
- 80% of cellular host defense are localized in the gut (including innate <u>and</u> adaptive systems)



Diversity matters! Higher gut microbiome diversity is associated with ...



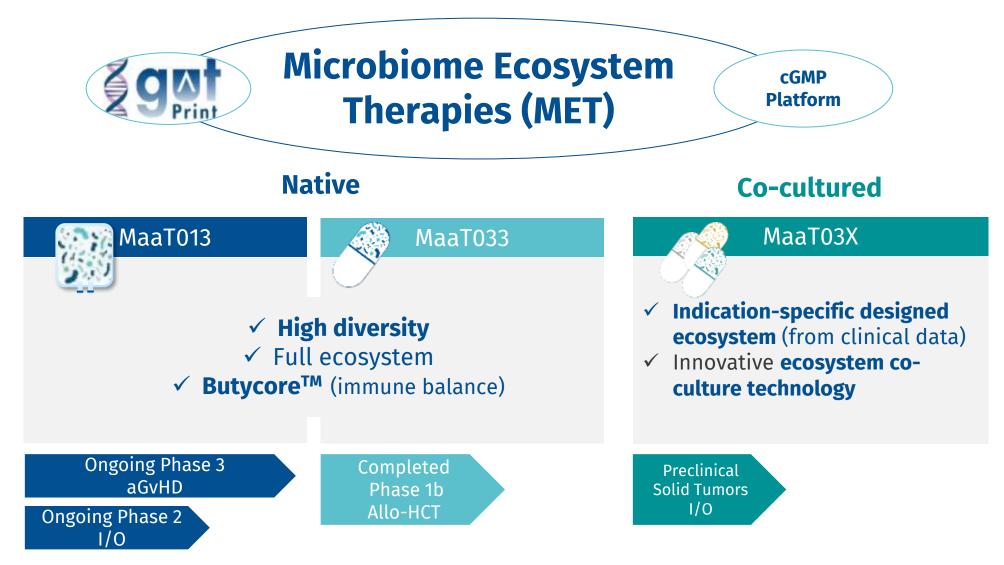
MaaT Pharma MET Inverse Simpson (mean): 24

^{*}allo-HSCT: allogeneic hematopoietic stem cell transplantation; aGvHD: acute Graft-vs-host-Disease; ICI: Immune Checkpoint Inhibitors ¹Peled, J.U. & al N Engl J Med 2020;382:822-34; ²Ghani, 2021; Jenq RR. et al, Biol Blood Marrow Transplant 21 (2015) 1373e1383; Pamer, Blood, 2014 ; ³Gopalakrishnan et al., Science, 2017, see also Routy et al, Science, 2018 ; Vetizou et al Science 2015;

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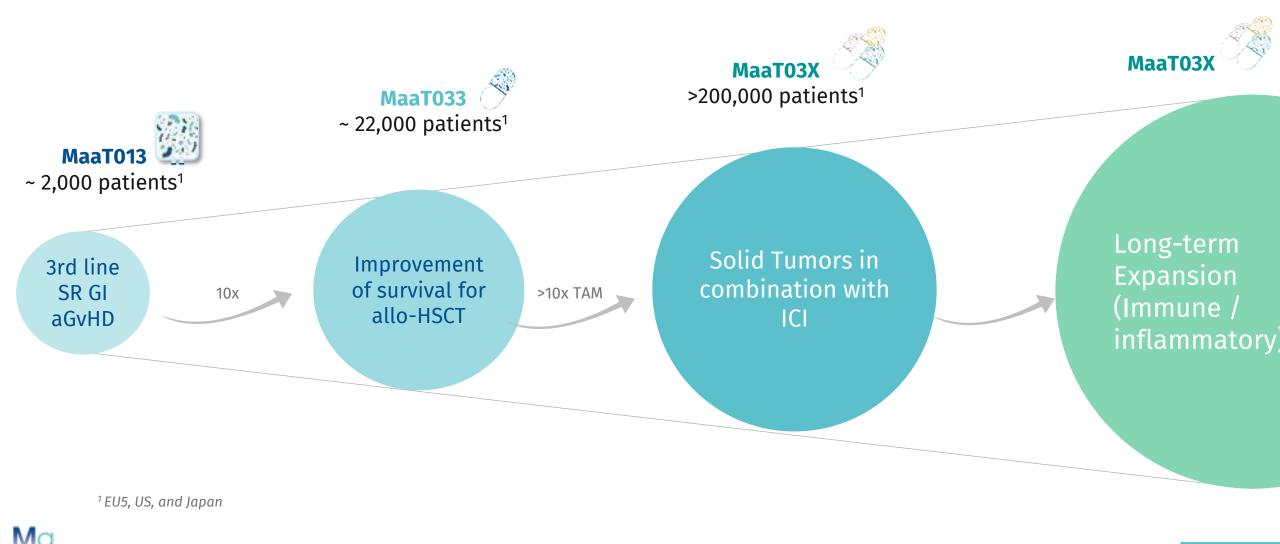
MaaT Pharma's Microbiome Ecosystem Therapy (MET) platform has generated a diverse line of product candidates





¹ **Butycore™**: Group of 15 different genera known to produce short-chain fatty acids with anti-inflammatory properties August 2022 Corporate Presentation

Looking ahead: addressing growing market opportunities with severe medical need

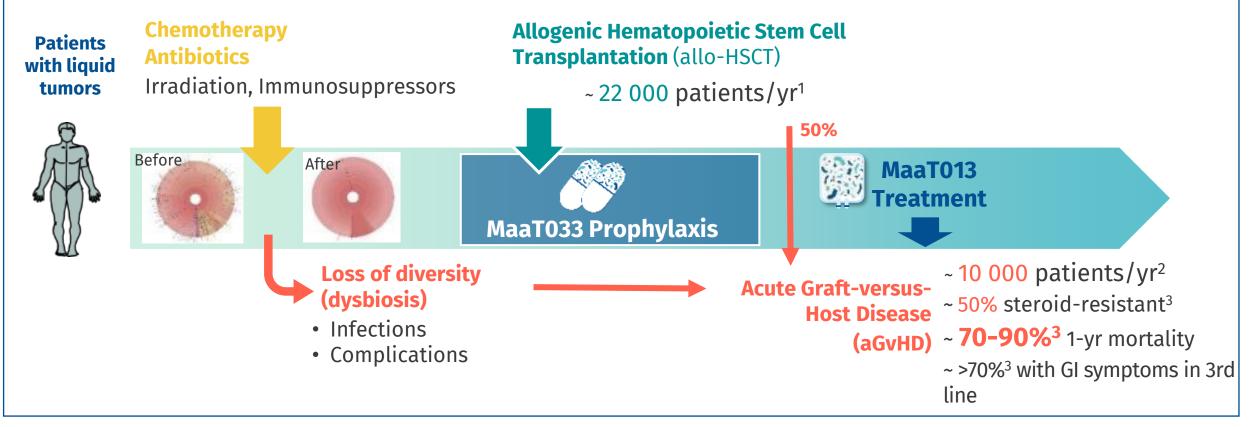






MaaT013 and MaaT033 aim to restore the gut microbiota to improve survival in patients with liquid tumors

Intestinal dysbiosis is associated with higher mortality in hemato-oncology



1. EU5 + US : (~ 20 500 primary procedures with an additional 7%-10% recurring), 2. EU5 + US, ³ According to MAGIC database



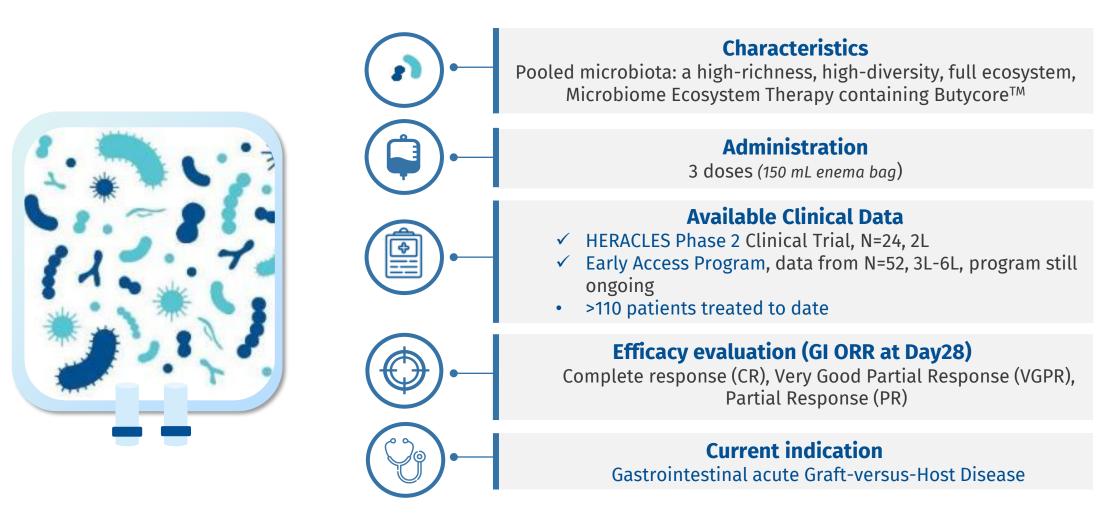
Hemato-Oncology

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Treatment of acute Graft-vs-host-Disease (aGvHD)



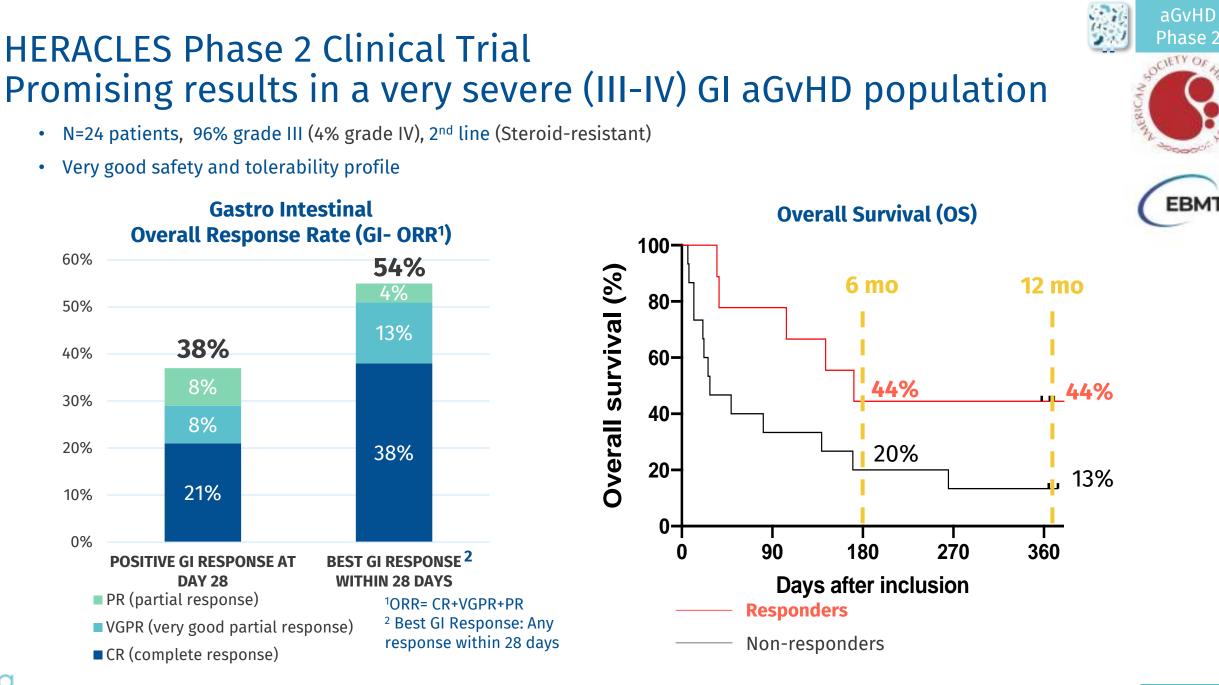
MaaT013: restore the microbiome to *cure* acute Gastro-Intestinal graft vs. Host disease.



MaaT013 has received Orphan Drug Designation from FDA and EMA



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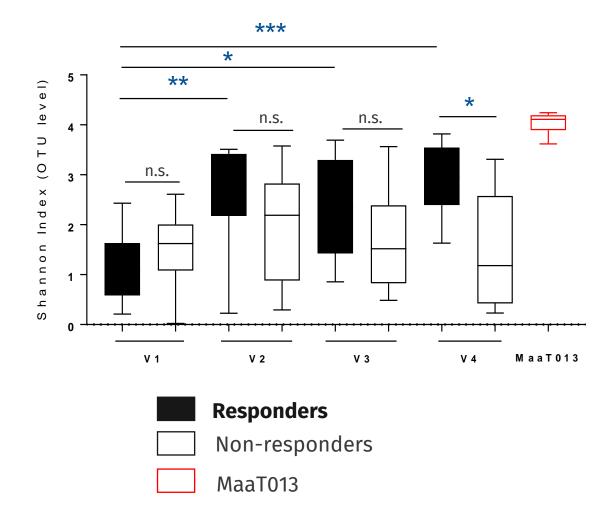
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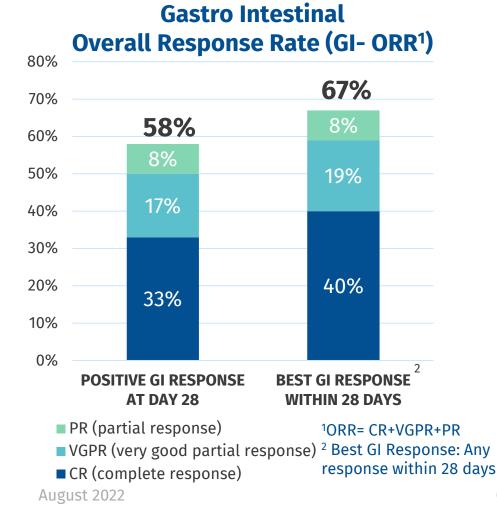
HERACLES: MaaT013 increases Responders' gut microbiome diversity

Microbiota Diversity

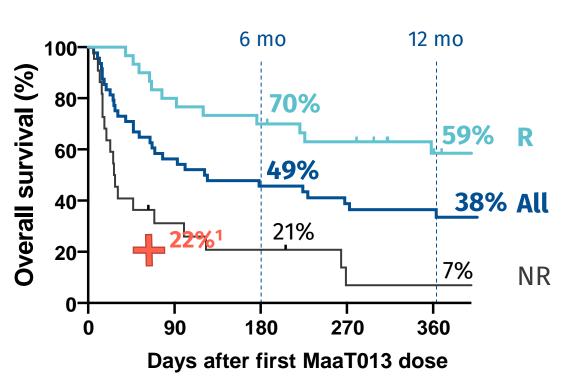


Early Access Program (EAP): Promising confirmation in an advanced, severe and more diverse GI aGvHD population

- N=52 83% SR; 94% grade III, Up to 6 lines of prior treatment (median: 3 ; 77% received ruxolitinib)
- Good tolerability and safety profile in a fragile population



Overall Survival Rate Responders vs. Non responders



¹OS expected in ruxolitinib-resistant patients at **2** months (REACH1 study)

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aGvHD EAP

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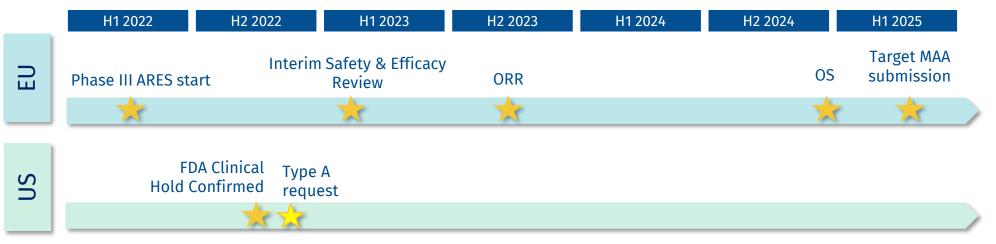
The ARES Phase 3 study is designed to establish MaaT013 as the 3rd line agent in GI aGvHD treatment

- Pivotal single-arm trial of MaaT013 as 3rd line (steroid-resistant & ruxolitinib-resistant) in n=75 GI-aGvHD patients
- Primary endpoint: GI-ORR at Day28 EUROPE :
 - ✓ First patient dosed in Q1 2022
 - ✓ CTA approved in 5 European countries, including 2 more during Q3 22. Expected to further expand in EU.

USA:

- FDA Clinical hold (CH) as of Aug 2022: Multiple CMC and clinical questions have been resolved, but CH maintained.
- \rightarrow MaaT Pharma is in active discussion wit the FDA and may submit a new Type A meeting request, aiming to address remaining questions.

Targeted Timelines ARES Phase III Trial



ORR: overall response rate ; OS: overall survival ; MAA: Market approval authorization

Hemato-Oncology

Allogeneic-HSCT Complication Prevention



MaaT033: An optimized oral capsule to restore and maintain a healthy gut microbiome in patients with severe dysbiosis







Characteristics Pooled microbiota: high-richness, high-diversity, full ecosystem, Microbiome Ecosystem Therapy containing Butycore[™]

> Administration Oral (a lyophilized capsule)

Clinical program

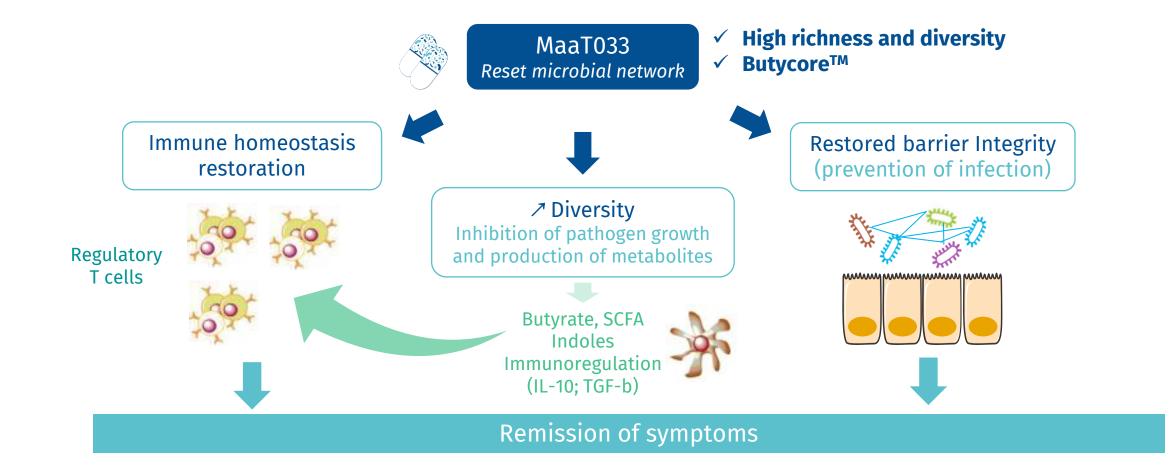
CIMON Ph1b: Dose-finding study (completed) \checkmark → Planning **PHOEBUS Phase 2b trial**: Improvement of overall survival for patients eligible to allo-HSCT

Indication

OS improvement of patients with liquid tumors undergoing allo-HSCT



MaaT033's MOA aims to to restore and protect the gut microbiota, to improve allo-HSCT outcome and avoid complications (infections, aGvHD, etc.)

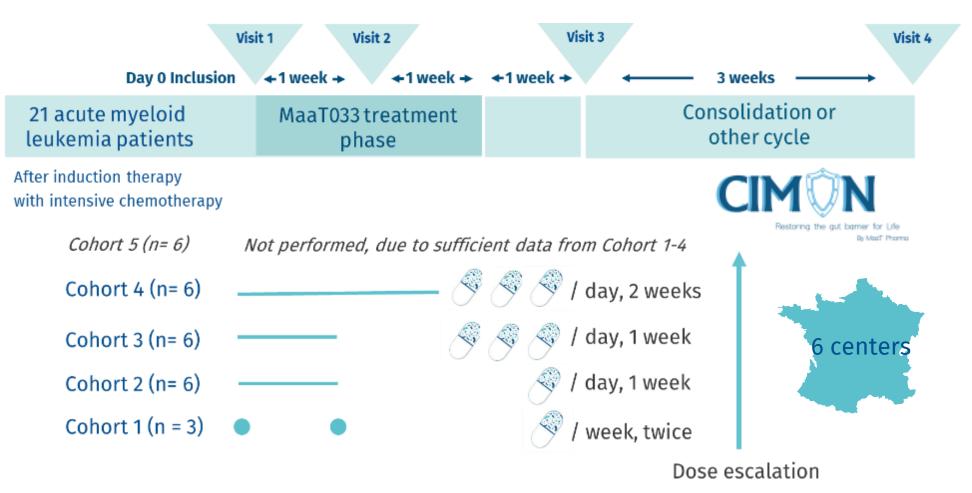




Allo-HSCT



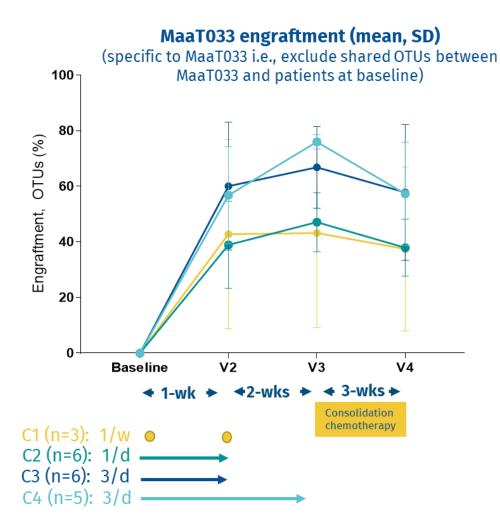
Phase Ib CIMON study aimed to determine MaaT033 dose for further clinical development







Phase Ib CIMON study : Positive topline engraftment and safety data



• First clinical POC of MaaT033 oral formulation

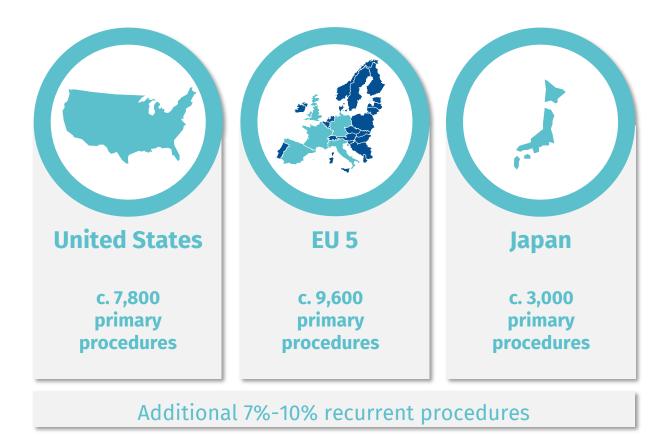
- ✓ Robust and persistent engraftment
- ✓ Good safety profile:
 - 21 patients exposed, 20 completed.
 - 100% drug compliance.
 - 4/4 positive DSMB meetings

 → Dose selected for planned Phase 2b pivotal PHOEBUS study
→ Study expected to initiate Q4 2022
(342 patients, RCT, double-blind, placebocontrolled, evaluating overall survival after allo-HSCT)





CIMON results open an attractive market opportunity: Improving survival in patients receiving allo-HSCT



Approximately 22,500 procedures/year

¹EBMT aHSCT Survey, 2017 (published in Bone Marrow Transplantation (2019) 54:1575– 1585), Global Data 2020

Hematological Malignancy Patients Receiving Allo-HSCT¹



AML : acute myeloid leukemia; *ALL* : acute lymphoblastic leukemia ; *MDS* : myelodysplastic syndrome; *MPN* : myeloproliferative neoplasms ; *CML*: chronic myeloid leukemia ; *CLL* : chronic lymphocytic leukemia ; *HL*: Hodgkin's Lymphoma ; *NHL*: Non Hodgkin Lymphoma

Immuno-Oncology Solid Tumors

A diverse gut microbiome increases survival in patients receiving immune checkpoint inhibitors (ICI)

FMT from ICI responders to ICI non-responding patients with metastatic melanoma

✓ 6/15 Non-responders → Responders (Davar et al, 2021) ✓ 3/10 Non-responders → Responders (Baruch et al, 2021)

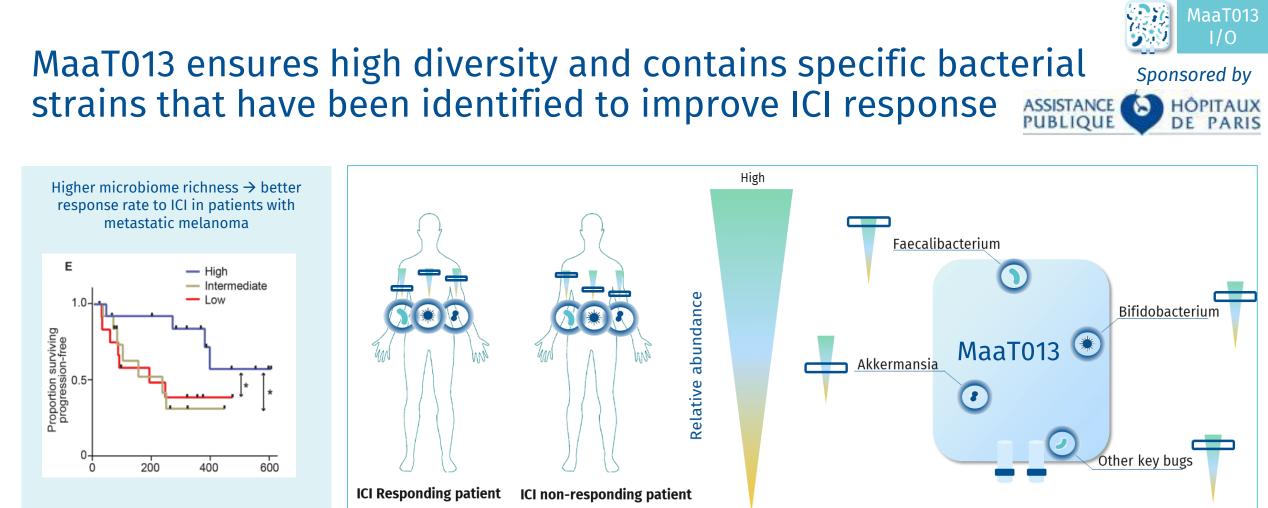
- Immune check-point inhibitors (ICI) therapies have established themselves as key therapeutic options in solid tumors, but ORR may be as low as 20% in some indications.
- Richness, Diversity and composition of gut microbiome drive survival and ICI toxicity in patients receiving ICI^{1,2,3,4}
- FMT from ICI responders (R) could induce response in metastatic melanoma non-responders (NR)^{5,6}



→ Leveraging the gut microbiome richness, diversity and its key functional networks may be a game-changer in immunooncology in the coming years

^{1.} Gopalakrishnan et al, Science 2018, ^{2.} Matson, et al Science 2018; ^{3.} Routy et al, Science 2017; ^{4.} Mc Culloch et al, Nat Med 2022; ^{5.} Baruch et al, Science 2021; ^{6.} Davar et al, Science 2021





Gopalakrishnan et al, Science 2018

Ongoing Phase IIa PICASSO trial¹, in collaboration with Assistance Publique - Hôpitaux de Paris (sponsor).
✓ RCT [MaaT013 + ICI] vs. [Placebo + ICI] in 60 metastatic melanoma patients
✓ Assessing Safety and Efficacy (iRECIST) of MaaT013 vs. placebo after 23 weeks of treatment

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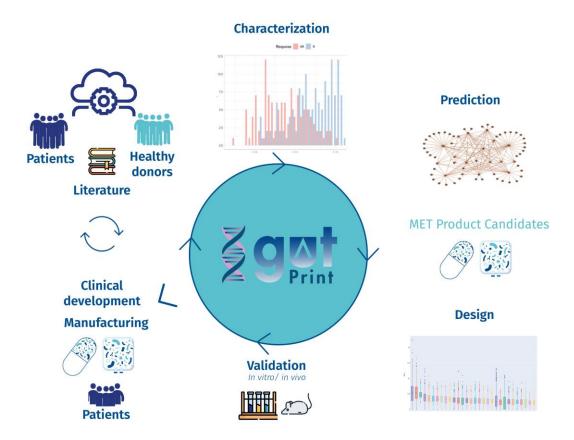
¹Registered trial #NCT04988841



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Proprietary gutPrint[®] platform synergizes multi-source data to generate innovative and indication-specific microbiome ecosystem therapies



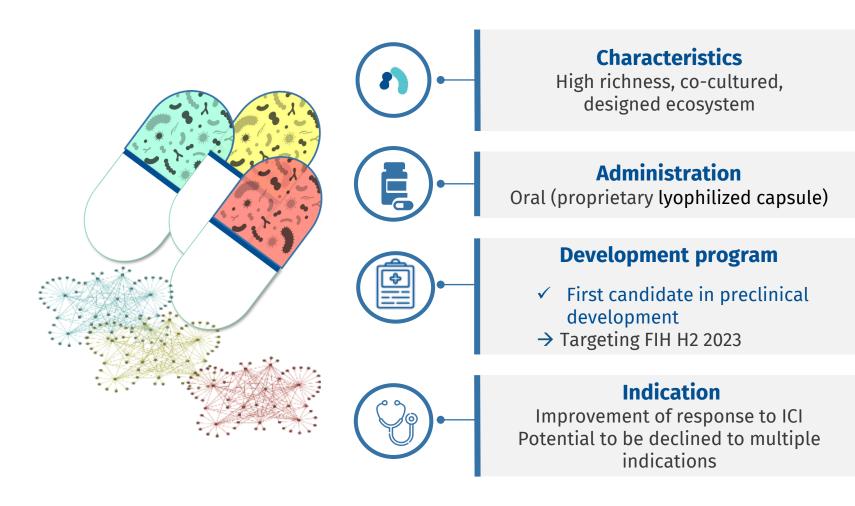
gutPrint® is the engine that drives MaaT Pharma's MET product candidate generation capabilities to broaden and strengthen the pipeline



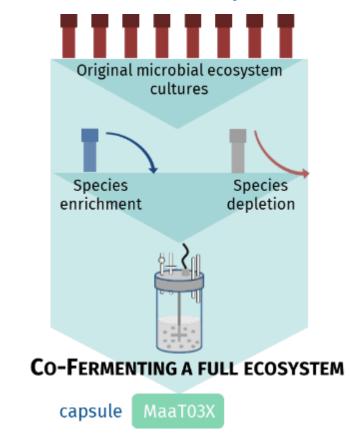
MaaT03X

1/0

MaaT03X: Modulate the gut microbiome to improve response to Immune Checkpoint Inhibitors treatment in solid tumors



Customizable, donor-independent, scalable co-culture process



MaaT03X

1/0

Building Europe's largest specialized cGMP manufacturing facility for Microbiome Ecosystem Therapies



Building a dedicated 1,500 square meter site (which could be doubled).



Designed to support commercial manufacturing of MaaT013 and MaaT033 and clinical manufacturing of MaaT03X products



Skyepharma already manufactures approved drugs for the USA and Europe



Building will host manufacturing <u>and</u> R&D activities



Partnership with **Skyepharma**

C Key Upcoming Milestones

Delivering on our objectives

	Clinical program	Milestones announced at IPO (Nov 2021)	Status
	MaaT013 (pooled enema) Acute Graft vs Host Disease FDA & EMA Orphan Drug Designation	Launch of the first Phase 3 trial in oncology in the world	
Ì	MaaT033 (pooled capsule) Survival improvement post allo-HSCT	Completion of Phase 1b trial and positive preliminary safety and engraftment data	
	MaaT013 (pooled enema) Improving ICI responses in metastatic melanoma	Launch of Phase 2 trial* - POC * Sponsored by AP-HP	
Ĩ	MaaT03X (co-cultured capsule) Undisclosed indications	Preclinical activities to enter clinical development in H2 2023	
Skyepharm	Increasing cGMP production capacities	Partnership with Skyepharma to build the first and largest exclusive Microbiome Ecosystem Therapies facility in Europe	

Onco-hematology

Immuno-oncology

cGMP production

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Looking ahead

		Clinical program	Next Step	Expected timeline
Onco-hematology		MaaT013 (pooled enema) Acute Graft vs Host Disease	Intermediate review	H1 2023
	FDA & EMA Orphan Drug Designation	ORR	H2 2023	
	I	MaaT033 (pooled capsule) Survival improvement post allo-HSCT	Initiation of Phase 2/3 PHOEBUS (pivotal)	Q4 2022
Immuno-oncology		MaaT013 (pooled enema)* Improving ICI responses in metastatic melanoma	Interim partial data review	H1 2023
		MaaT03X (co-cultured capsule) Undisclosed indications	Start of Phase 1/2	H2 2023
production		Increasing cGMP production capacities	Opening of the first and largest exclusive Microbiome Ecosystem	2023



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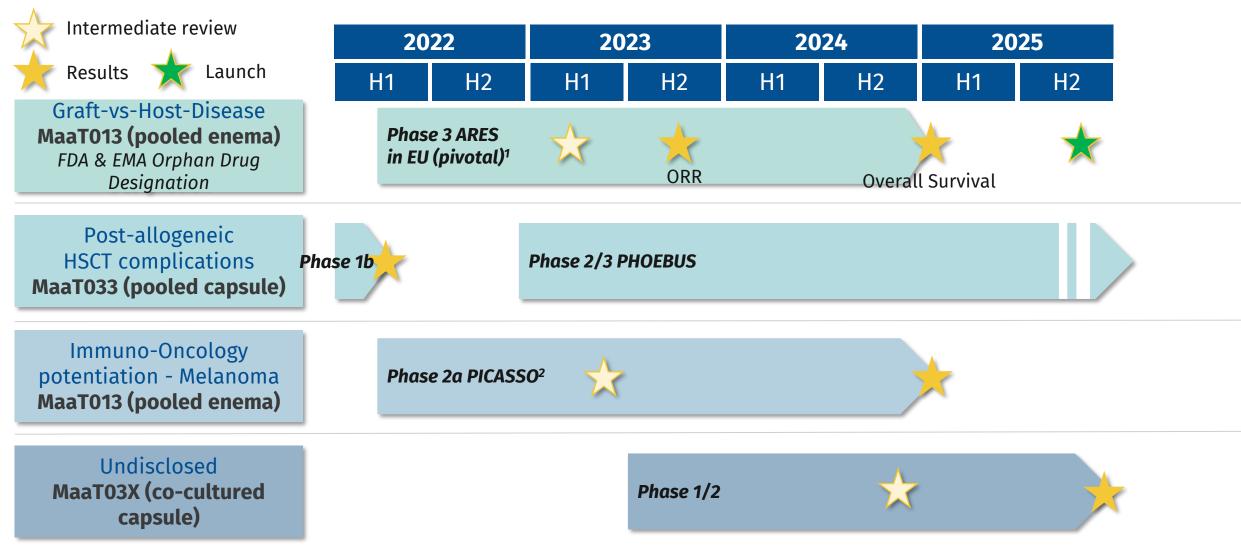
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* Phase 2 trial - POC sponsored by AP-HP August 2022

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Therapies facility in Europe

Meaningful milestones in both the near and long term



¹Expansion to US sites subject to IND approval in the US;

²Investigator sponsored trial (AP-HP) where MaaT Pharma supplies the drugs and performs the microbiome profiling using its gutPrint® platform

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Key differentiators of MaaT Pharma from other microbiome competitors

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Leveraging the complexity of the microbiome

Pioneering a **full ecosystem approach** to restore host/microbiome **immune symbiosis**, based on proprietary **AI** and manufacturing capacities

Oncology focus

Addressing **high unmet needs** in the hemato-oncology and immuno-oncology therapeutic areas

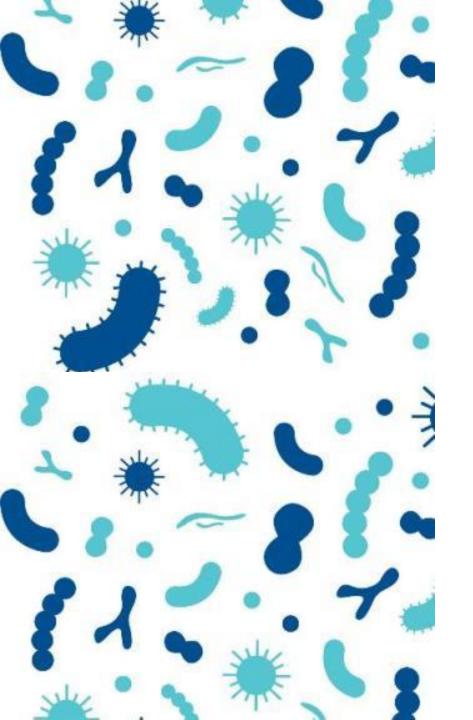
Manufacturing versatility

cGMP manufacturing scalability for both native and co-cultured products and building of a new plant

Established proof of concept

First company to reach Phase 3 testing for a microbiome product in oncology globally





THANK YOU