

MaaT Pharma

Key Leader Opinion Discussion around ASH 2023

December 23



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Our speakers today



Herve Affagard MaaT Pharma CEO & Co-founder



Mohamad Mohty, MD, PhD

Professor of Hematology Head of Hematology and Cellular Therapy Dpt. Saint-Antoine Hospital Paris, France



Florent Malard, MD, PhD

Professor of Hematology Sorbonne University, INSERM Hematology and Cellular Therapy Dpt. Saint-Antoine Hospital Paris, France



MaaT Pharma

Introduction & Strategy



December 23

Herve Affagard MaaT Pharma CEO & Co-founder

MaaT Pharma: A late-stage clinical biotech, leading the way in Microbiome therapies in oncology

Ma	>	LEADER	>	Listed on Euronext (MAAT.PA) global leader in the development of Microbiome Ecosystem Therapies in oncology to enhance patient survival
	>	EXCELLENCE	>	Founded in 2014 First Patient Treated in 2016 Pooling Pioneers First FDA-Approved Pooled Microbiota Trial 7 Years Seed to Phase 3 Factory Built in Record 12 Months
	>	AI ENGINE	>	Proprietary gutPrint® metagenomics research engine driving product candidate generation by leveraging the data generated from MET-N products, to develop full synthetic microbiome MET-C programs using AI tools
	>	MET-N	>	Lead asset MaaT013 in Phase 3, available through Early Access Program in aGvHD with results in 2024 and expected commercial launch in 2026 Second generation asset MaaT033 pooled capsule currently in Phase 2b
	>	MET-C	>	Ground-breaking co-culture donor independent MET-C platform with first asset MaaT034, a full synthetic microbiome capsule progressing towards IND in IO
	>	cGMP	>	Largest European cGMP production facilities for microbiome supporting our development endeavor
	>	FINANCE	>	Revenue from EAP of MaaT013 in aGVHD of 1.8m€ for the first three quarters of 2023 Cash position of 31,7m€ with a horizon into second quarter of 2024

Host – Microbiota Interactions are Critical for a Functional Immune System

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% Cellular host defense localized in the gut



Cross-section of a healthy gut

Liquid Tumors

Higher gut microbiome diversity is associated with better outcome in oncology

Higher survival rate in patients Lower incidence and lower mortality from aGvHD *2 receiving allo-HSCT *1 Overall Survival – Cohort 2 Proportion Inverse Simpson diversity index Cumulative surviving and GVHD-related mortality incidence 701 1.00 (%) 60-Higher diversity 0.75 50 Lower diversity (n=32)
Higher diversity (n=32) 40 0.50-30-Lower diversity -30% 20 mortality p=0.005 a vHD 0.25-10 Hazard ratio for death, 0.46 (95% CI, 0.26-0.82) 2 0.00-Years after BMT 12 18 0 24 6 MaaT Pharma MET Months after Day 21 Inverse Simpson (mean): 24

Higher response rate to ICI* in patients with metastatic melanoma ³

Solid Tumors



* allo-HSCT: allogeneic hematopoietic stem cell transplantation; aGvHD: acute Graft-vs-host-Disease; ICI: Immune Checkpoint Inhibitors

¹ Peled, J.U. & al N Engl J Med 2020;382:822-34; ² Ghani, 2021; Jenq RR. et al, Biol Blood Marrow Transplant 21 (2015) 1373e1383; Pamer, Blood, 2014; ³ Gopalakrishnan et al., Science, 2017, see also Routy et al, Science, 2018; Vetizou et al Science 2015;

A Step-by-Step Increasing Value Creation Strategy Backed by Leading Capabilities in Microbiome Drug Candidate Production



Cutting-edge Research Engine Powered by Metagenomics and Al-driven Candidate Selections



A robust pipeline of late and early assets



aGvHD: acute Graft versus Host Disease; IO: Immuno-Oncology; PoC: Proof of Concept; HSCT: Hematopoietic Stem Cell Transplantation; ALS: Amyotrophic Lateral Sclerosis; IST: Investigator Sponsored Trial

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A robust pipeline of late and early assets Platform Program Indication Preclinical Phase I Phase II Phase III \rightarrow Upcoming milestone \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow aGvHD ODD EMA/FDA ARES GI-ORR mid-24 \rightarrow ί. MaaT013 \prec IO PoC Melanoma PICASSO (IST) \rightarrow **—** Results H2.24/H1.25 \prec MET-N HSCT ODD EMA PHOEBUS \rightarrow Safety Interim H2.24 \prec MaaT033 ALS IASO \rightarrow ί, **Results H1.24** 10 MaaT034 PrClin (→ **Targeting FIH 2025** \rightarrow MET-C \neg \square MaaT03X Multiple R&D **Candidates selection** \rightarrow

aGvHD: acute Graft versus Host Disease; IO: Immuno-Oncology; PoC: Proof of Concept; HSCT: Hematopoietic Stem Cell Transplantation; ALS: Amyotrophic Lateral Sclerosis; IST: Investigator Sponsored Trial



Results from Early Access Program in Europe MaaT013 for Refractory GI-aGvHD



Mohamad Mohty, MD, PhD

Professor of Hematology Head of Hematology and Cellular Therapy Dpt. Saint-Antoine Hospital Paris, France

Microbiome Restoration with MaaT013: A Maximum-Density Product for Fast Engraftment in Acute Situations



Curative approach

Characteristics	Pooled microbiota : high-richness, high-diversity, full ecosystem, Microbiome Ecosystem Therapy containing Butycore ®
Administration	3 doses (enema bag)
Current indication	Gastrointestinal acute Graft-versus-Host Disease (GI-aGvHD)
	HERACLES Phase 2 Clinical Trial, N=24, 2L
Available Clinical Data	Early Access Program (EAP), data from N=111, 3L-6L, program still ongoing
	> 200 patients treated to date

MaaT013 Aims to Enhance Survival in Patients with Steroid & Ruxolitinib Resistant/Refractory aGvHD through Gut Microbiota Restoration



Early Access Program (n=111) Ongoing in Europe

Main inclusion criteria

- Steroid refractory / dependent
- Acute GVHD with gut involvement, grade II to IV
- Any line of treatment
- MaaT013 used as a monotherapy and/or combination therapy
- ≥ 12 hours discontinuation of systemic antibiotics surrounding MaaT013 administration
- Patient not eligible to ongoing clinical trial (ARES NCT04769895)

Patients Characteristics

Gender, n (%)	Male	60 (54%)
	Female	51 (46%)
Age at first MaaT013 administration (years)	Median [range]	57 [15;74]
Number of previous lines of treatment, n	Median [range]	3 [1;6]
Steroid status	Steroid refractory-aGvHD	94 (85%)
	Steroid dependent-aGvHD	17 (15%)
Type of aGvHD	Classical	70 (63%)
	Late onset	12 (11%)
	Hyper-acute	13 (12%)
	Overlap syndrome	16 (14%)
GvHD grading (MAGIC), n	I	0
(%)	II	10 (9%)
	III	54 (49%)
	IV	47 (42%)

Global EAP Population (n=111, +30 vs 2022)

Response Rate



> n=111, GI-aGVHD : 49% grade III, 42% grade IV, up to 6 lines of prior treatments (median 3) 94/111 received ruxolitinib **Overall Survival**



Clinical response to MaaTO13 translates to an increased overall survival

Focus on steroid 1L and ruxolitinib-refractory 2L patients (n=38): « ARES-like patients »

Response Rate



> n=38 – ARES like population ruxolitinib-refractory in 2nd line, MaaT013 given in 3rd line

GI-response strongly correlates with survival, especially in this subgroup of patients

Overall Survival



Good tolerability and safety profile in aGVHD population

- 16% of EAP patients presented adverse events possibly related to MaaT013: GI symptoms in 3 patients, infectious complications in 15 patients
- No pathogen transmission reported.
- No death was attributed to MaaT013 administration with 55 patients alive at last follow-up.

High response rate in refractory GI-aGVHD

- MaaT013 is safe and translates into a high response rate in refractory aGvHD patients
- The benefit on GI-response positively and significantly **impacted OS in responder patients**
- Ongoing Phase 3 clinical trial in 75 patients with steroid- and ruxolitinib-refractory aGvHD patients (NCT04769895)



PHOEBUS trial: Multicenter randomized, double blinded phase 2b trial evaluating MaaTO33 to improve outcomes in patients receiving allo-HSCT



Florent Malard, MD, PhD

Professor of Hematology Sorbonne University, INSERM Hematology and Cellular Therapy Dpt. Saint-Antoine Hospital Paris, France

Scientific rationale for the development of MaaT033 in allo-HSCT



- Higher diversity of the gut microbiota before allo-HSCT and at neutrophil engraftment is associated with higher survival and lower risk of death post transplantation (Peled, 2020).
- Without intervention, the gut microbiota composition after intensive chemotherapy and antibiotics remains altered (Rashidi, 2022).

MaaT033 - The oral ecosystem microbiome capsule for adjunctive and maintenance therapy



Adjunctive and Maintenance therapy, on top of standard of care, for allo-HSCT patients Characteristics

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

Administration Oral (a l

Oral (a lyophilized capsule)

Treatment schedule

Pre allo-HSCT

MaaT033 (3 capsules per day) for 1 week, between Day-21 (D-21) and D-7 before allo-HSCT (Day 0, D0).

Post allo-HSCT

MaaT033 (3 capsules per day) will be resume at neutrophil recovery (around D+18) and pursued up to 90 days after allo-HSCT.

Study sponsored by MaaT Pharma

Phase 1b CIMON study: Positive dose ranging study with promising engraftment and safety data



First clinical POC of MaaT033 oral formulation

Robust and persistent engraftment

Engraftment following MaaT033 treatment correlated with increased anti-inflammatory markers.



MaaT033 induces an increased

MaaT033 bacterial engraftment is inversely correlated with patients' baseline microbiota richness

MaaT033 engraftment (mean, SD) Specific to MaaT033 i.e., excl. shared OTUs between MaaT033 and patients at baseline



Good safety profile:

21 patients exposed, 20 completed

100% drug compliance

4/4 positive DSMB meetings

Main Objectives of the Phase 2b PHOEBUS

- Primary: Overall survival at 12 months after randomization
- Secondary: Evaluation of
 - o Safety
 - GvHD-free survival at 12 months after allo-HSCT
 - \circ Incidence of grade 2-4 and grade 3-4 aGvHD within 6 months after allo-HSCT
 - \circ Cumulative incidence of cGvHD
 - Cumulative incidence of non-relapse mortality, of infectious-related mortality and GvHD-related mortality within the first 12 months after allo-HSCT
 - Relapse-free survival (RFS) and GvHD- Relapse-free survival (GRFS) at 12 months
 - \circ Proportion of patients with severe infections within 12 months after allo-HSCT
 - Quality of life (QoL)
 - Microbiome composition and evolution

Study Flow Chart

PH®EBUS

→ 387 patients in a **randomized, double-blind, placebo-controlled, international** study



Stratification

•Donor-host crossmatch: HLA-identical (geno-identical and pheno-identical 10/10) versus HLAmismatch (8/10, 9/10 and haplo-identical)

•Disease risk index (low-intermediate versus high-very high).

Main inclusion criteria

- Patients aged \geq 50 years old
- Presence of a hematologic malignancy for which an allo-HSCT is indicated with a reduced toxicity or reduced intensity conditioning regimen
- Patients with polynuclear neutrophils >0,5 x G/L
- Patients having received wide spectrum antibiotics within the last 90 days prior to inclusion
- Use of wide spectrum antibiotics is defined as use of at least 3 days of antibiotics within the last 90 days prior start of allo-HSCT conditioning.
- Refer to the current study protocol re the list of wide spectrum antibiotics.
- Karnofsky index \geq 70%
- Availability of a sibling donor, an unrelated stem-cell donor or a familial haploidentical donor
- Written informed consent

Main exclusion criteria

- Patients planned to receive a **non myeloablative conditioning regimen** (2 Gray Total Body Irradiation +/- purine analog, fludarabine & cyclophosphamide or equivalent)
- Patients planned to receive a **conventional myeloablative conditioning regimen** (e.g. high dose cyclophosphamide and high dose TBI (≥10Gy); high dose busulfan (12.8 mg/kg IV) + high dose cyclophosphamide)
- Patients receiving a manipulated graft (in-vitro T-cell depletion)
- Patients planned to receive a conditioning regimen with **alemtuzumab** (CAMPATH®)
- Patients planned to receive alloHCT with cord blood cells
- Patients planned to receive alloHCT from unrelated donor **with ≥ 3/10 HLA-mismatches**
- Patients receiving a large spectrum antibiotic at time of randomization for a serious infection or active uncontrolled infection
- Patients planned to receive **vedolizumab or abatacept** for GvHD prophylaxis
- Contra-indication to allo-HSCT (creatinine clearance <30 mL/min, bilirubin or amino-transferases abnormalities, cardiac ejection fraction less than 40%, pulmonary impairment with <50% lung carbon monoxide diffusing capacity (DLCO))
- Documented confirmed or suspected intestinal ischemia, toxic megacolon, bowel obstruction or gastrointestinal perforation, history of gastro-intestinal surgery in the past 3 months
- Any documented history of chronic digestive disease
- Patients with EBV-IgG negative serology
- Pregnancy and breastfeeding (urine or serum pregnancy test within 72 hours prior to randomization).

Study status



First patient dosed in November 2023

Active countries







Conclusion



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Herve Affagard

MaaT Pharma CEO & Co-founder

Future milestones for MaaT013 in GvHD and MaaT033 in allo-HSCT



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Q&A



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