

Contents



02 Pipeline

Review of FY2022 and Future Plans

O4 Summary of FY2023 plans and business results forecasts

Appendix



FY2022 Business Results

FY2022 business results Profit & Loss highlights



(million yen)

					(**************************************	
	FY2021	FY2022		FY2022		
	Results	Forecasts	Results	vs FY2021	vs forecasts	
Sales	71	77	94	31.0%	21.9%	Ab/reagent sales
Gross profit	67	72	86	27.7%	19.3%	Ab research support
SG & A	539	776	784	45.3%	1.0%	PPMX-T003 P1 cost
R&D cost	308	522	494	60.3%	-5.4%	Adjustment of SG&A and non-operating
Other	231	253	289	25.2%	14.3%	expenses
Operating income	(472)	(703)	(697)	-	-	
Ordinary income	(481)	(736)	(689)	_	_	Foreign exchange gain
Extraordinary loss	117	116	95	-19.0%	-17.7%	Impairment loss due restoration and capes
Net income	(599)	(854)	(786)	-	-	increase

• Sales: JPY 13 million increase Y on Y. Recovered to the pre COVID-19 level.





(million yen)

Assets							
	2022/3/31	2023/3/31					
Cash & deposits	3,214	2,444					
Total current assets	3,290	2,514					
Non-current assets	9	51					
Total assets	3,300	2,566					

		, , ,					
Liabilities							
2022/3/31 2023/3/31							
Current liabilities	148	111					
Non-current liabilities	-	58					
Total liabilities	148	170					
Total net assets	3,152	2,396					
Total liabilities and net assets	3,300	2,566					

- Cash & deposits: decrease mainly due to R&D costs and capex
- Non-current liabilities: long-term deposits due to adoption of PPMX-T003 (ANKL therapeutic drug development) as AMED program
- Capital ratio: 92.1%



Pipeline

Pipeline progress



Code	Indication	Region	Drug discovery/ Research	Preclinical	P1	P2	P3	Notes
	PV*1	Japan						P1 ongoing in-house
PPMX-T003	ANKL*2	Japan						 Adopted as AMED program Investigator-led clinical trial will start after patient registry
PPMX-T002 → New code	Solid tumor	USA	RI labelled Ab (Y) RI labelled Ab (Lu or Ac)				 Accumulation of Ab confirmed in P1 expansion Lead development (agreed w/PDRadiopharma) Change of RI to Lu or Ac under study
PPMX-T004 → New code	Solid tumor		ADC ADC					Study of optimization of therapeutic drugs and linkers

^{*1} PV: polycythemia vera *2 ANKL: aggressive NK-cell leukemia



Review of FY2022 and Future Plans

Achievements of FY2022 plans and FY2023 plans



FY2022 Initial Plans/ Achievements

- PPMX-T003
 Start and finish administration in P1 among PV patients
 ⇒ ×: Extended P1 period
- PPMX-T003
 Develop medical drug for ANKL finish preparation for investigator-led clinical trial
 - ⇒ ✓: Submitted clinical trial notification, PMDA examination finished
- PPMX-T002
 Determine new partner
 ⇒△: Determined partner candidates
- PPMX-T004
 Plan re-development

 ⇒ ✓: Finished re-development plan. Verifying optimization of drug/linker with animal models

Plans of FY2023

Finish P1 in FY2023 Licensing out in FY2024

Promote investigator-led clinical trial

Formulate development plans for licensing out in FY2024

Narrowing down linker/drug. Start preliminary toxicity tests



Mar. 2024

Finish

Administer to 3

Addition of a clinical

trial location: total 8

Measurements for finishing P1 clinical trial among polycythemia vera patients

< Phase I Clinical Trial > Mar. 2021

Safety (efficacy) confirmed among healthy volunteers

Preparation Safety (efficacy) to be confirmed among PV patients

Administered to 3

Mar. 2023

- < Reasons for delay >
 - Extremely few patients who do not use existing drugs
- < Measurements against solutions for delay >
- 1) Protocol amendment (expansion of subjects)

Before	After		
Exclude patients w/high EPO *	Increase in EPO * due to phlebotomy ⇒ Include patients w/high EPO		
PV judgment: Prioritize WHO standards	PV judgment: Prioritize clinicians' judgment		

* EPO (Erythropoietin):

Hormone to create RBC. EPO increases in case of anemia and functions to increase RBC. •

2) Addition of clinical trial locations

- Kansai Medical Univ. Hospital
- Osaka Metropolitan Univ. Hospital
- Shimane Univ. Hospital
- TOKAI Univ. Hospital
- Hayama Heart Center
- Miyazaki University Hospital (Apr)
- Shonan Kamakura General Hospital (Apr)
- Iwate Prefectural Central Hospital (Jul: planned)

Finish P1 in FY2023





Phase 1 3 patients after administration progressing smoothly

Progress report of P1

May 27, 2023
Prof. Ito, chief investigator, will present progress report at JSH Kinki Association (Osaka)

Abstract

- Administration to 3 patients
- Safety and efficacy confirmed in all the 3 patients
- Side effects were fever and decrease in lymphocytes; same level as HV
- Abstract (Japanese only)

http://www.jshem.or.jp/uploads/files/local%20branch/%E7%AC%AC118%E5%9B%9E%E8%BF%91%E7%95%BF%E8%A1%80%E6%B6%B2%E5%AD%A6%E4%BC%9A%E3%83%897%E3%83%AD%E3%82%B0%E3%83%A9%E3%83%A0_0502.pdf





Development of Aggressive NK-cell Leukemia (ANKL) drug

What's ANKL?

Poor prognosis

50% survival period = 58 days (about 2 months)

- Ultra rare disease
 - 13 cases in Japan in 2020
 - Many cases in east Asia and Latin America
 - Cases may increase when advances in medical technology will enable easier diagnosis
- Many cases in AYA generation (age 15 to 39) and 40s
- No effective medical drug available

Fulminant and poor prognosis.

Discovery of causes and establishment of treatment required.



Research of Tokai University and adoption as AMED program*

Title: "Development of Therapeutic Drug for Aggressive NK Cell Leukemia" (Patent application filed in Apr. 2022)





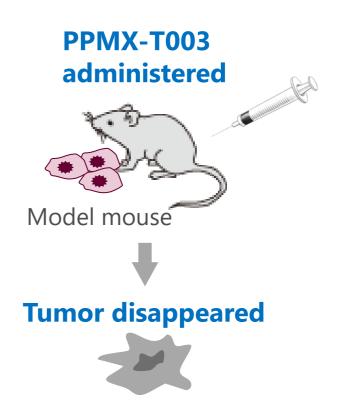


Found that transferring is related to proliferation and treatment of tumor

Anti-TfR Ab PPMX-T003 obtained by PPMX

Found that cancer cells exist not in bone marrow but in lever

> FY2022: 50M yen Received FY2023: 100M yen FY2024: 100M ven Subsidy (max) total: 250M yen

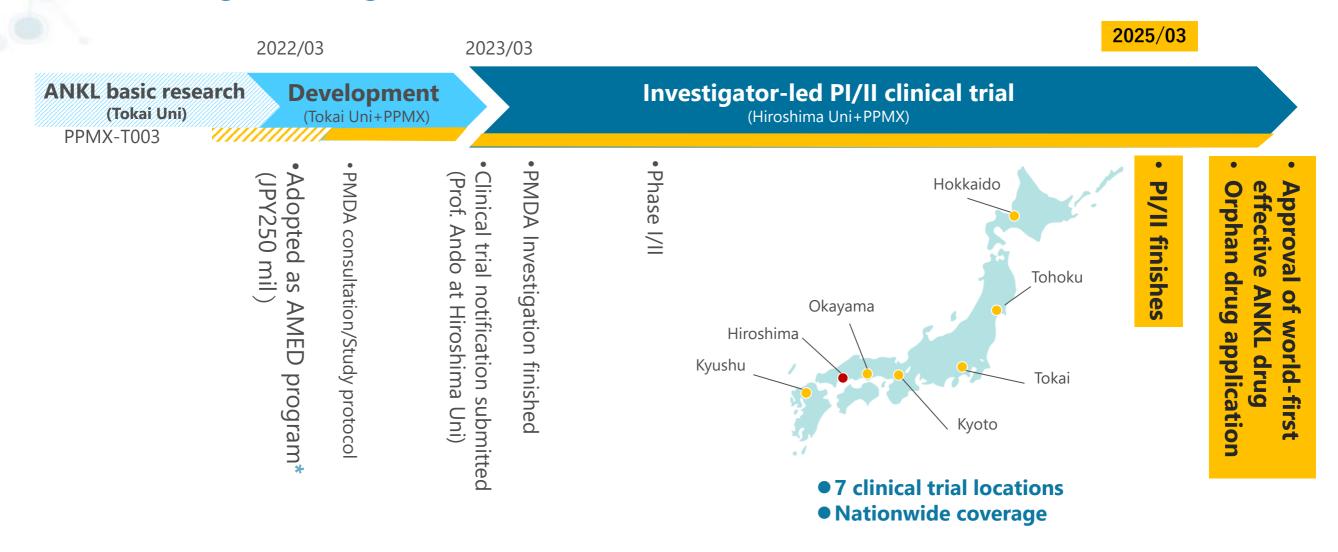


Aim at approval of world-first effective therapeutic drug for ANKL

2

PPMX-T003: ANKL drug investigator-led clinical trial started





Nationwide coverage of patients by 7 clinical trial locations





Overcame difficulty of drug development of ultra rare disease Favorable effects on entire T003 development plan

Hurdles for drug development of ultra rare disease



Measurements for success

High cost

Utilize T003 investigational drug (no CMC cost)

Slow recruitment

JPY 250 Mil subsidy from AMED

Long time

Establish nationwide core hospital network for smooth clinical trial

Apply for orphan drug, possibly apply for approval in house (high drug price)

Promote PPMX-T003 entire development plan through ANKL drug approval

3 P

PPMX-T002:

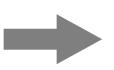
PPINK PERSEUS PROTEOMICS

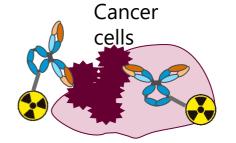
Function of RI labelled Ab and structure of new PPMX-T002

1 Function of RI labelled Ab



Dose PPMX-T002 to a patient



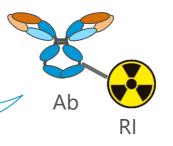


PPMX-T002 Ab accumulates on CDH3 on cancer cells and RI kills cancer cells

2 Structure of new PPMX-T002

Confirmed accumulation on cancer cells

Use it as is



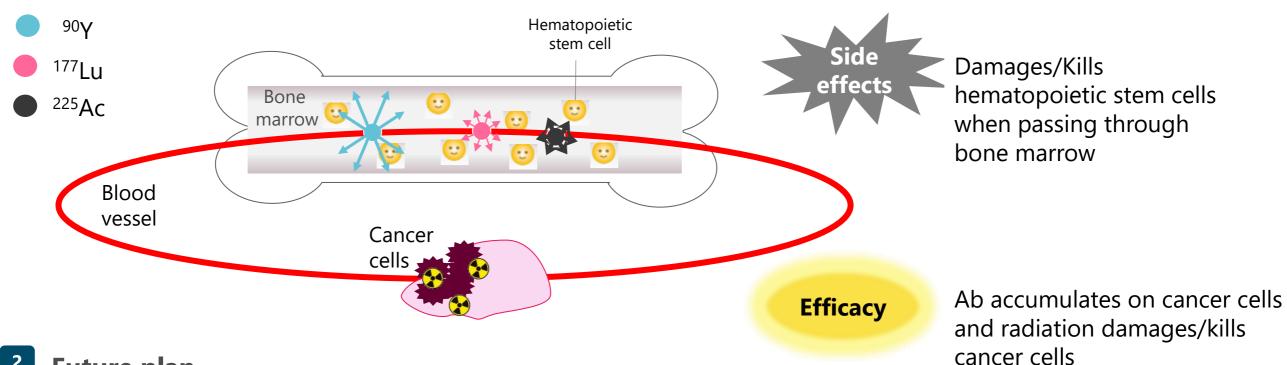


Utilize Ab as is and change RI to that w/higher effectiveness

PPMX-T002:

Formulate development plan for licensing out in FY2024

Determine RI: consider impacts and efficacy on hematopoietic stem cells



2 Future plan

FY2022	FY2023	FY2024
Determine a licensing partner	Formulate development plan w/partner	Licensing out

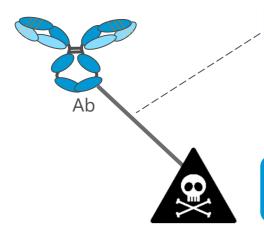


PPMX-T004:



Finished formulation of redevelopment plan, develop as a new ADC

1 Re-development plan



Linker

Small molecule

anti-cancer drug

- High stability in blood
- Separated at the intended timing to release anti-cancer drug



Small molecule anti-cancer drug that matches antibody characteristics

2 FY2023 Plan

Narrow down linker & drug

Q3

Q4

Start preliminary Toxicity test

Development of super neutralizing antibody UT27K



May 2022 Signed MoU on joint research w/Toyama University and Toyama Prefecture

"UT28K"

Treatment drug candidate for COVID-19

Ab effective for all variants

Toyama University

Generated UT28K

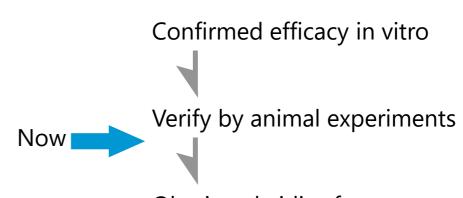


Toyama Pharmaceutical Valley Development Consortium Office





Business partner



Obtain subsidies from government, etc.

Manufacture investigational drug

Confirm safety in healthy volunteers



Summary of FY2023 plans and business results forecasts

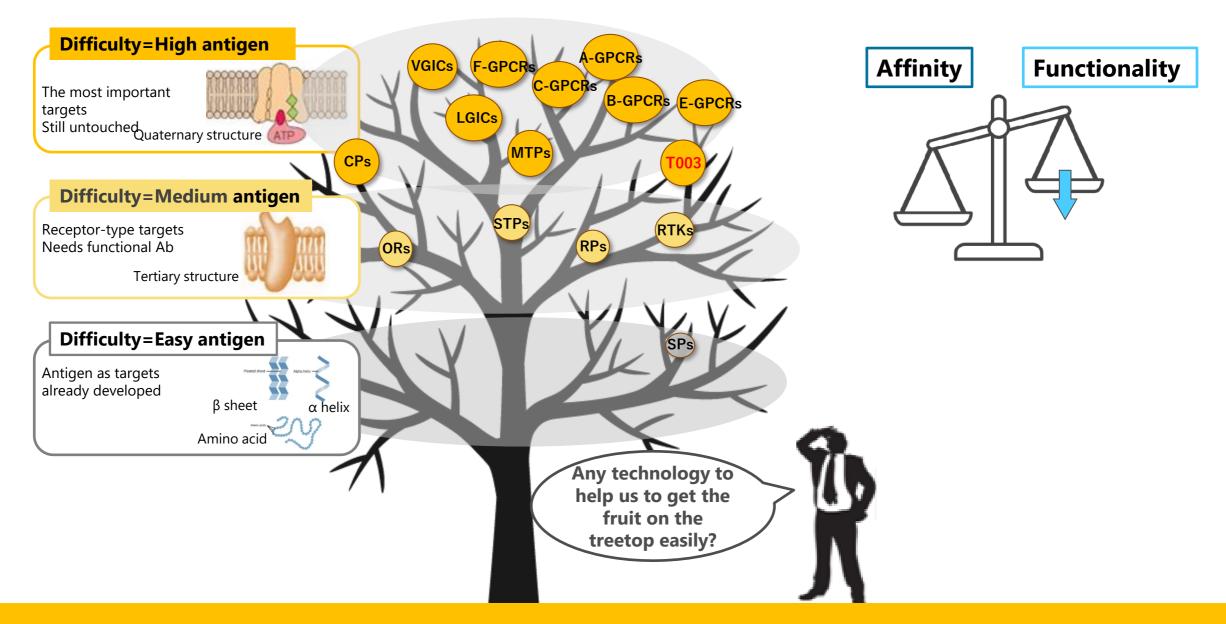
Summary of FY2023 plans



- PPMX-T003:
 Finish P1, licensing out in FY2024
- PPMX-T003:
 Promote ANKL investigator-led P1/2
- PPMX-T002: Formulate development plan for licensing out in FY2024
- PPMX-T004:
 Narrowing down linker/drug. Start preliminary toxicity tests

Ab creation technology now required

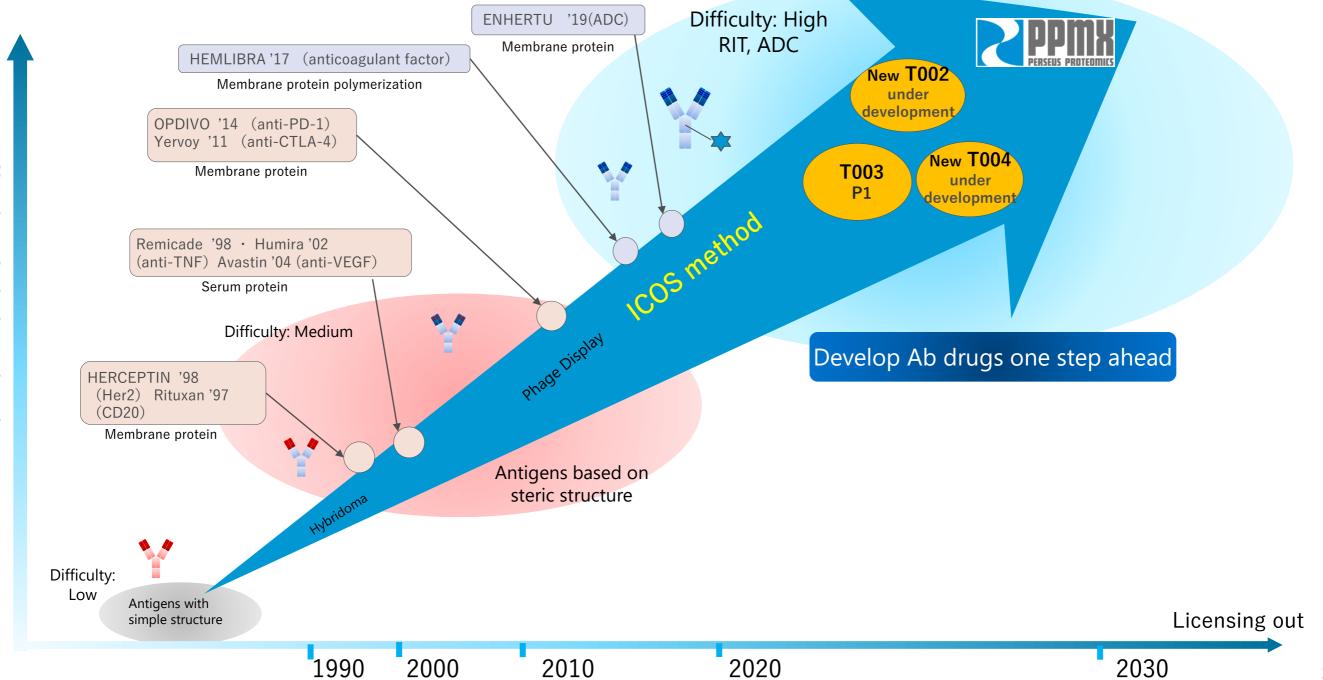




Technology required for obtaining Abs efficiently against medium to high level antigens

Bring more Ab drugs to patients





FY2023 business results forecast



		n)		
	FY2022 results	FY2023 (forecast)	Vs. FY2022 Incr/decr rate	
Sales	94	100	6.5%	
Gross profit	86	91	5.8%	
SG & A	784	1,082	38.1%	PPMX-T003 PV P1
R&D cost	494	752	52.2%	ANKL P1/2 PPMX-T004 development
Other	289	330	14.0%	PPMX-T002 development
Operating income	-697	-991	-	
Ordinary income	-689	-991	-	
Extraordinary loss	95	192	101.6%	
Net income	-786	-1,185	-	Impairment loss of capex Relocation fee

- Sales: JPY 100M expected
- R&D cost: P1 among PV patients, development cost of PPMX-T004 and PPMX-T002
- Extraordinary loss: JPY 192M expected due to impairment loss of capex and relocation fee



Appendix

Company outline



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- Develop Ab drugs
- Support research on Ab
- Sales of Abs/reagents

Company name

Perseus Proteomics Inc.

Established

February 2001

Office

HQ/Laboratory: 4-7-6 Komaba, Meguro-ku, Tokyo, Japan Nagoya Laboratory: 2-22-8 Chikusa-ku, Nagoya-shi, Aichi, Japan

Capital

1,939 million yen*

Employee

24

(R&D, Business Development: 19, Administration: 5) *

*as of Mar. 31, 2023

2001.2 Established

2005.9 Sales of Ab against 48 nuclear receptors starts

2006.9 PPMX-T001 licensed out to Chugai Pharmaceuticals

2011.1 PPMX-T002 licensed out to FUJIFILM (2022.3 returned)

2014.12 **PPMX-T003**

selected as JST drug discovery project (940 M yen)

2015.9 PPMX-T004 licensed out to FUJIFILM (2022.3 returned)

2019.1 Nagoya Laboratory opens

2019.11 PPMX-T003 PV in-house P1 starts

2021.6 Listed on Mothers (Growth) TSE

2022.3 **PPMX-T003** adopted as AMED project on ANKL (250 M yen)

2022.9 **FUJIFILM** no longer "other associated company"

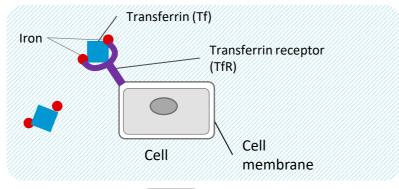
2023.3 **PPMX-T003 ANKL** investigator-led P1/2 starts



First-in-class anti-cancer drug candidate targeting transferrin receptor

Transferrin receptor (TfR):

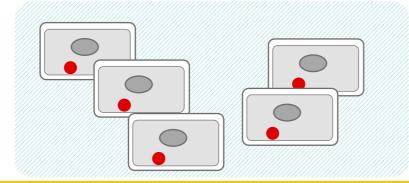
- Strong target molecule for anti-cancer drug
- Expressed on cell membrane. Binds to transferrin (Tf) carrying iron for cellular iron uptake
 - 1 TfR binds to Tf



[Cells where TfR is highly expressed]

- Erythroblast (normal cell, RBC producing cell)
- Cancer cell (especially acute cancer which is actively proliferating)

2 Cell proliferation



Well-known concept

Blocking iron

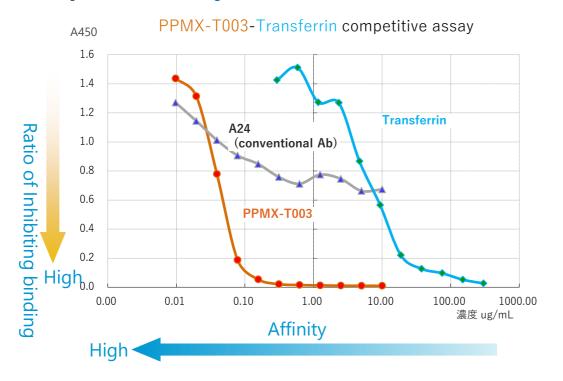
⇒ Death or inhibition of cell proliferation

Inhibiting cellular iron uptake leads to death/proliferation inhibition of cancer cells

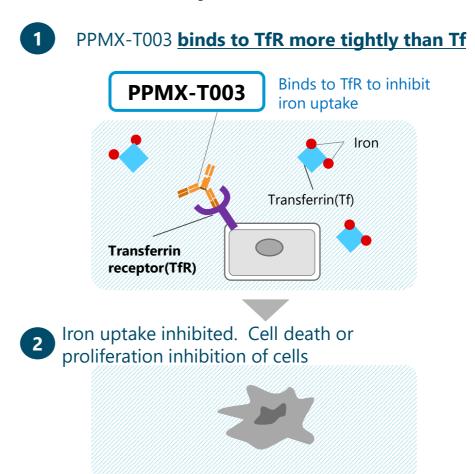
PPMK PERSEUS PROTEOMICS

Highly functional Ab obtained by our phage display technology

Shows unprecedented result in inhibiting ratio of binding Tf to TfR Inhibits iron uptake into erythroblast and cancer cells and leads to cell death/proliferation inhibition



Inhibition of iron uptake has been difficult, however, PPMX-T003 is expected to bring it to reality as the first therapeutic drug for cancer and PV.



Anti-Transferrin receptor Ab with incomparable function of inhibiting binding



Indication: Polycythemia vera (PV)

- RBC increases to an abnormal level.
- Thrombosis is easily formed due to thick and slow blood flow. Various organs are affected by thrombosis.
- 2 out of 100,000 people develop this disease. Number of patients in Japan: 30,000 (estimated by PPMX. Average life expectancy: 16 yrs)

Current therapeutics

Anti-cancer drug, etc.

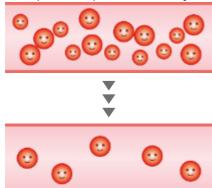
New candidate



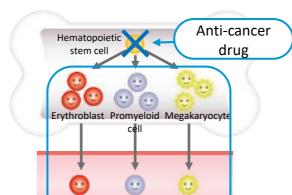
PPMX - T003

Therapeutic phlebotomy

Half of patients are treated by therapeutic phlebotomy only.



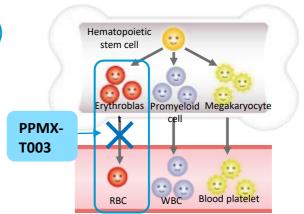
- Anemia
- Lassitude
- Depression
- Restless hands and legs
- Other diseases by iron deficiency



Entire hematopoietic stem cell affected

Blood platelet

- Secondary cancer risk
- Many side effects



- **Acts only on erythroblast**
- **Few side effects**
- Safe to use

PPMX-T003: effects on inhibiting abnormal proliferation of RBC expected



[Inquiry]

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