

Medical Therapies Limited

Midkine Portfolio Acquisition
9 May 2008

Forward looking statements

This presentation contains forward-looking statements.

These statements are not guarantees of Medical Therapies Limited's future performance and involve a number of risks and uncertainties that may cause actual results to differ materially from the results discussed in these statements.

Factors that might cause the Company's results to differ materially from those expressed or implied by such forward-looking statements include, but are not limited to, development and commercialisation of the Company's product portfolio, development or acquisition of additional products and other risks and uncertainties.

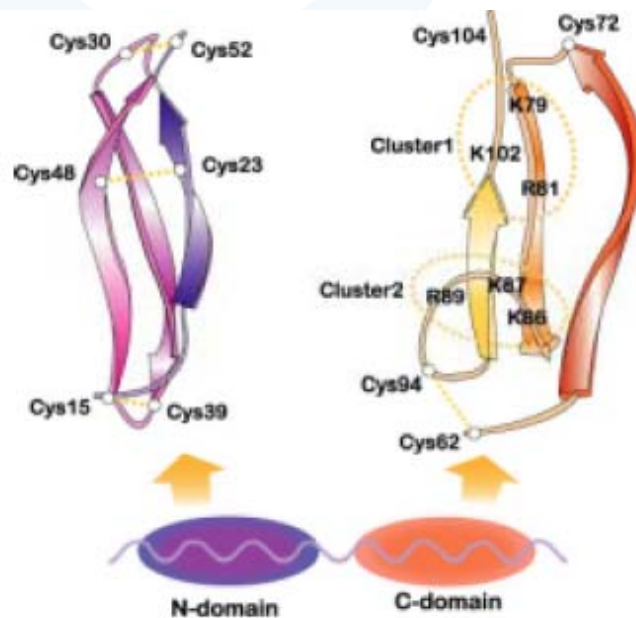
Midkine portfolio acquisition

- ⦿ Rationale for the acquisition of the midkine portfolio
- ⦿ What is midkine?
- ⦿ Details of the IP Agreement
- ⦿ Midkine therapeutics portfolio
- ⦿ Midkine diagnostics portfolio
- ⦿ MTY post acquisition
- ⦿ Timetable of key events

Rationale for midkine (MK) acquisition

MTY acquisition criteria	Midkine portfolio
<p>Sound scientific principles underlying the technology with clear regulatory path and strong commercial potential</p>	<ul style="list-style-type: none"> ⊙ Known composition and mechanism of action ⊙ Extensive in vitro and preclinical data (strong regulatory position) with a range of commercialisation opportunities ⊙ Interest in MK from major pharma/biotech companies ⊙ \$10M spent on midkine since 2001
<p>Therapeutic areas of cancer and inflammation</p>	<ul style="list-style-type: none"> ⊙ MK for heart tissue damage ⊙ MK inhibitors for cancer, RA and auto-immune disease
<p>Late stage technology or technology platform with development potential</p>	<ul style="list-style-type: none"> ⊙ Rich technology platform ⊙ Potential for delivering early revenue via diagnostics ⊙ High value therapeutic product development programs
<p>Mostly share based acquisition</p>	<ul style="list-style-type: none"> ⊙ 20 million shares ⊙ \$1.5M cash
<p>PLUS ➔</p>	<ul style="list-style-type: none"> ⊙ Outstanding scientists, including discoverer of midkine ⊙ Strong IP position with clear FTO in key areas of interest ⊙ Diagnostic platform with early revenue potential ⊙ Therapeutic collaboration potential in a number of indications

Midkine



- Discovered in 1988 by professors Muramatsu and Kadomatsu at Nagoya University
- Low molecular weight growth factor like protein (13kD) with two domains
- Highly expressed in oncogenesis, autoimmune and inflammatory diseases
- Midkine has a role in **anti-apoptosis, cell migration, angiogenesis** and **cell growth**

MIDKINE MEDIATES:

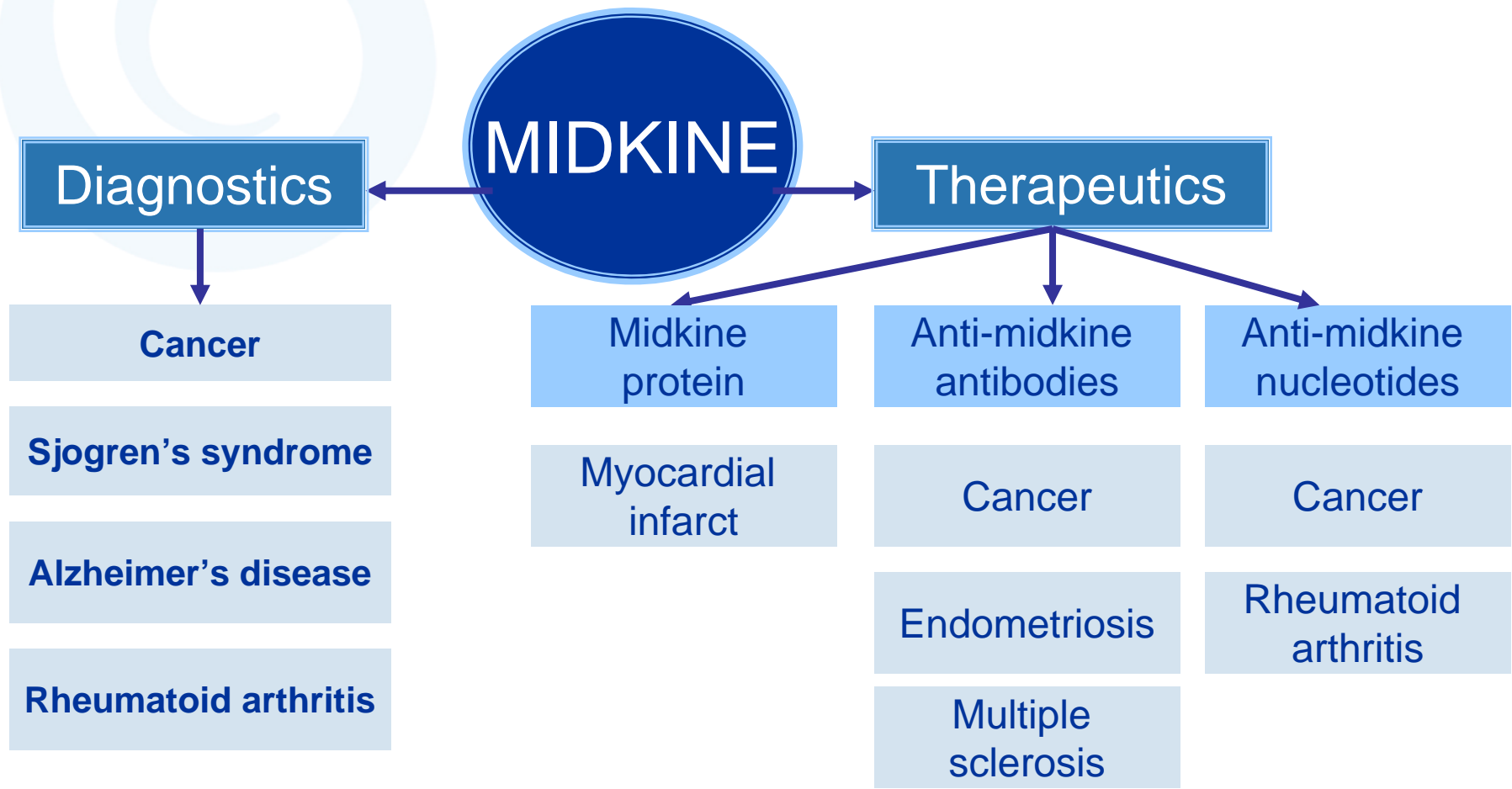
Cancer progression
Onset of inflammatory diseases
Preservation and repair of injured tissue

↓
Midkine is strong therapeutic and diagnostic target

Intellectual Property Agreement

- © **MTY will acquire from Cell Signals (CS)**
 - Therapeutic applications for midkine the protein
 - 120+ anti-midkine antibodies with their therapeutic applications and anti-midkine nucleotides (cancer and autoimmune diseases such as MS)
 - Diagnostic applications of midkine and anti-midkine antibodies owned by CS
- © **Consideration**
 - \$1.5M cash
 - 20 million MTY shares
- © **Conditions**
 - Due diligence on the midkine intellectual property portfolio
 - Approval of the transaction by a general meeting of MTY shareholders
 - Private placement of shares to the value of \$2M

Midkine portfolio

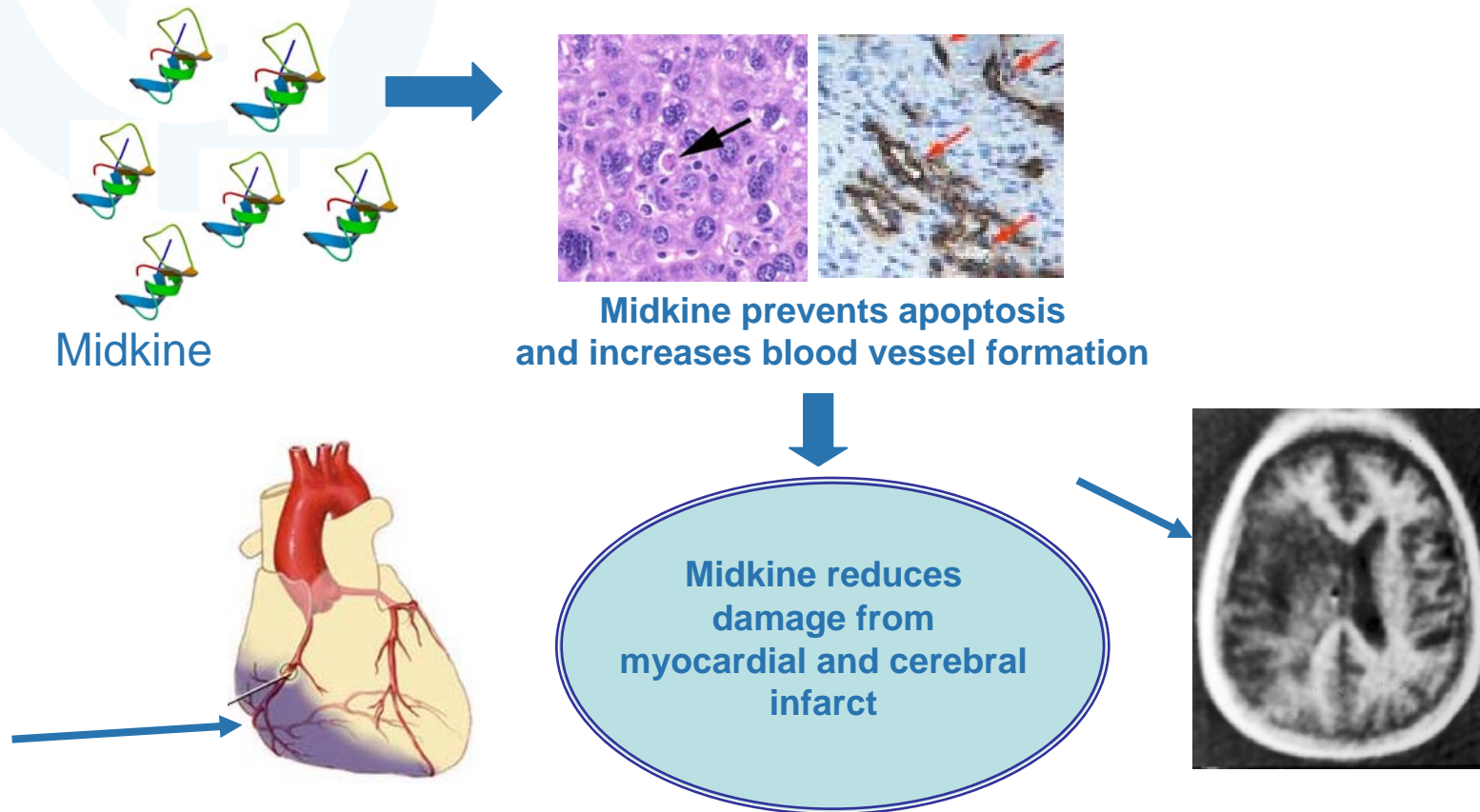


Intellectual Property Portfolio

- © 28 patents covering use and manufacture of midkine, anti-midkine antibodies and anti-midkine nucleotides for diagnostic and therapeutic applications:
 - 120+ anti-midkine antibodies and all reagents
 - ELISA tests for
 - Early detection of cancer
 - Diagnosis of rheumatoid arthritis
 - Diagnosis of Alzheimer's disease
 - Diagnosis of Sjogren's Syndrome
 - Therapeutics
 - Preclinical data supporting use of midkine for the prevention and treatment of heart damage during myocardial infarct
 - Anti-midkine antibodies for the treatment of inflammatory conditions and autoimmune diseases
 - Anti-midkine antibodies and nucleotides for the treatment of cancer

Therapeutics Portfolio: Midkine

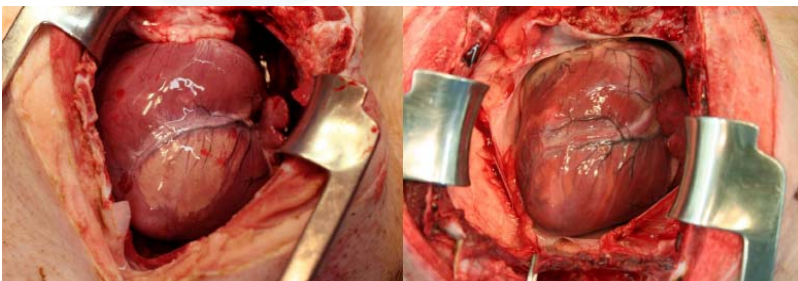
Using midkine and its protective function



Treatment for heart tissue damage

- © Addition of midkine reduces heart tissue injury in animal models by reducing apoptosis and increasing angiogenesis

Pig model



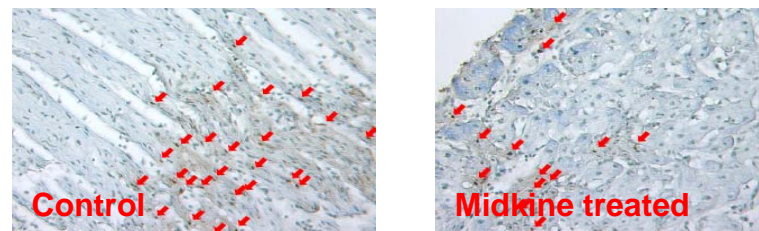
Control

Midkine treated

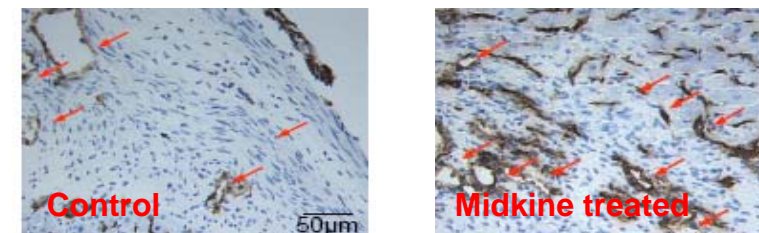
Mortality rate after 24h:

- Control: 4/12 (33.3%)
- MK-treated: 1/9 (11.1%)

Mouse model



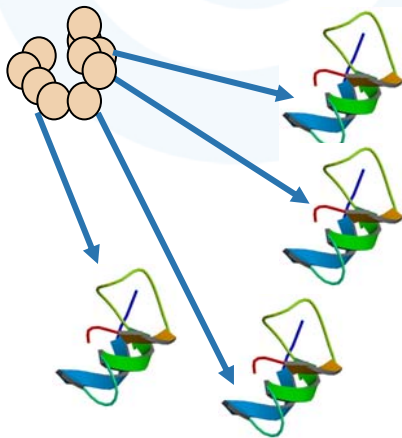
Apoptosis



Angiogenesis

Therapeutics portfolio: Midkine inhibitors

Inhibition of midkine using anti-midkine antibodies and nucleotides



Midkine is expressed during oncogenesis, inflammation and tissue repair

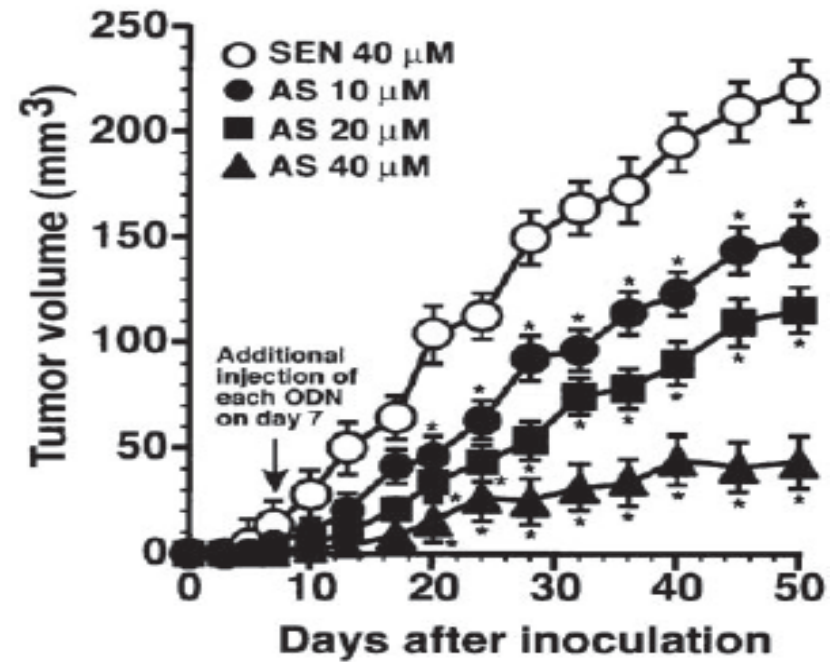
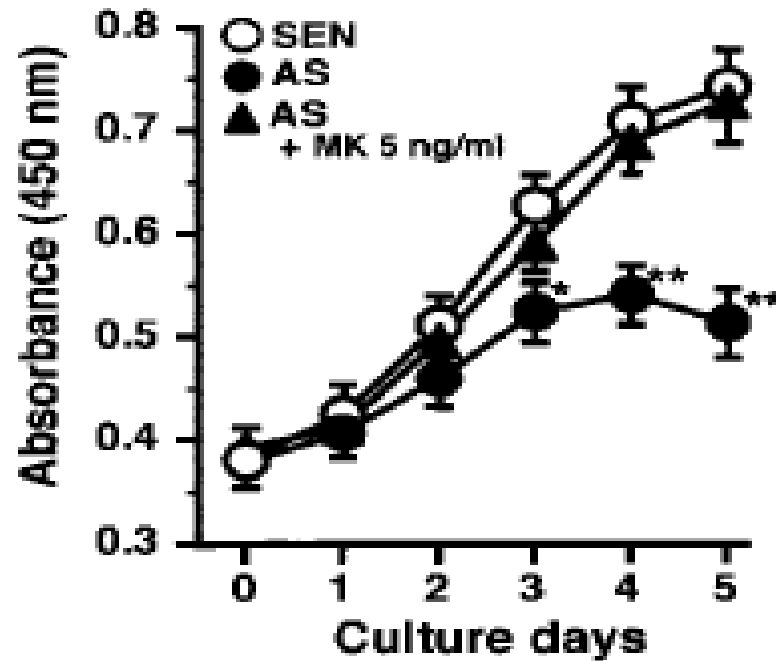
Inhibition of midkine is potential treatment



Solid Tumours
Rheumatoid arthritis
Multiple sclerosis
Endometriosis

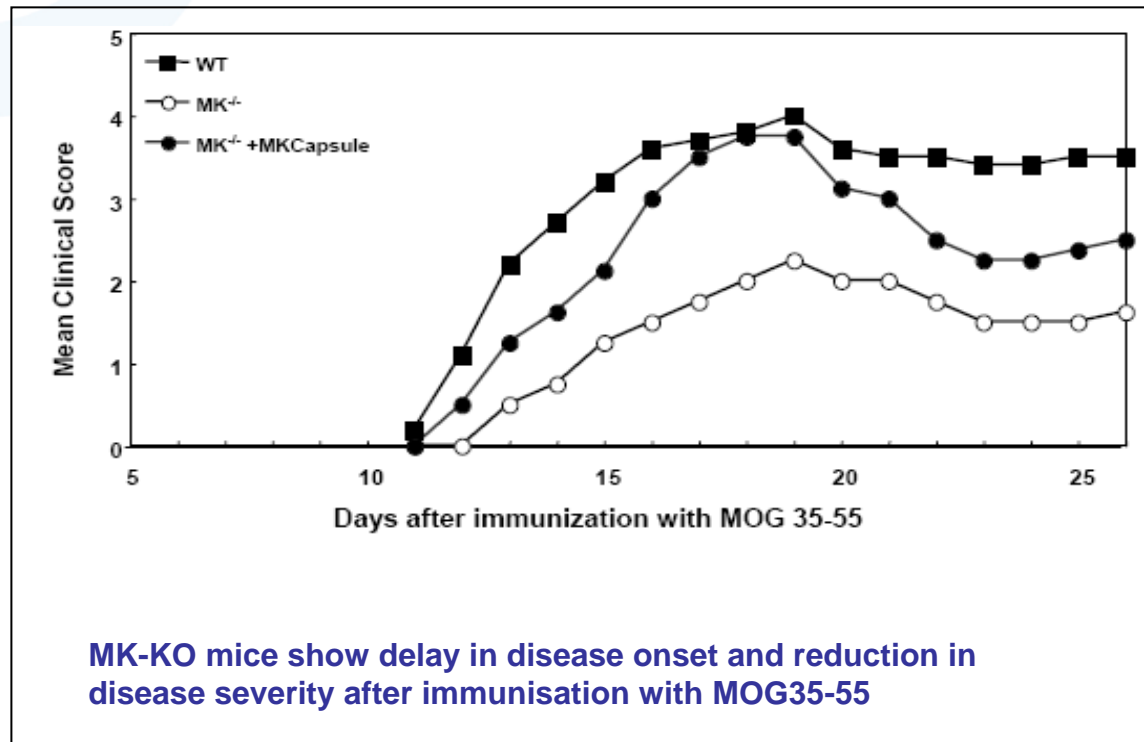
Treatment for rectal carcinoma

- Anti-midkine antisense DNA directed to suppress growth of mouse rectal carcinoma cells (CMT-93) (Takei et al, 2001)



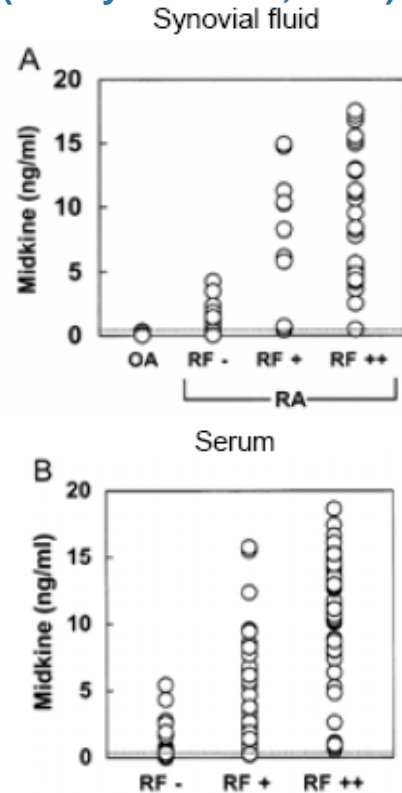
Treatment for multiple sclerosis

- MS symptoms are reduced when MOG35-55 is administered to mice with no midkine genes (Wang et al, 2008)



Treatment for rheumatoid arthritis

○ MK as a new target for treating RA (Maruyama et al, 2004)



Increased levels of MK in patients with RA

	No. of mice arthritis		Incidence (%)
	+	-	
WT	6	1	86
KO-MK	1	9	10
MK pump	9	3	75



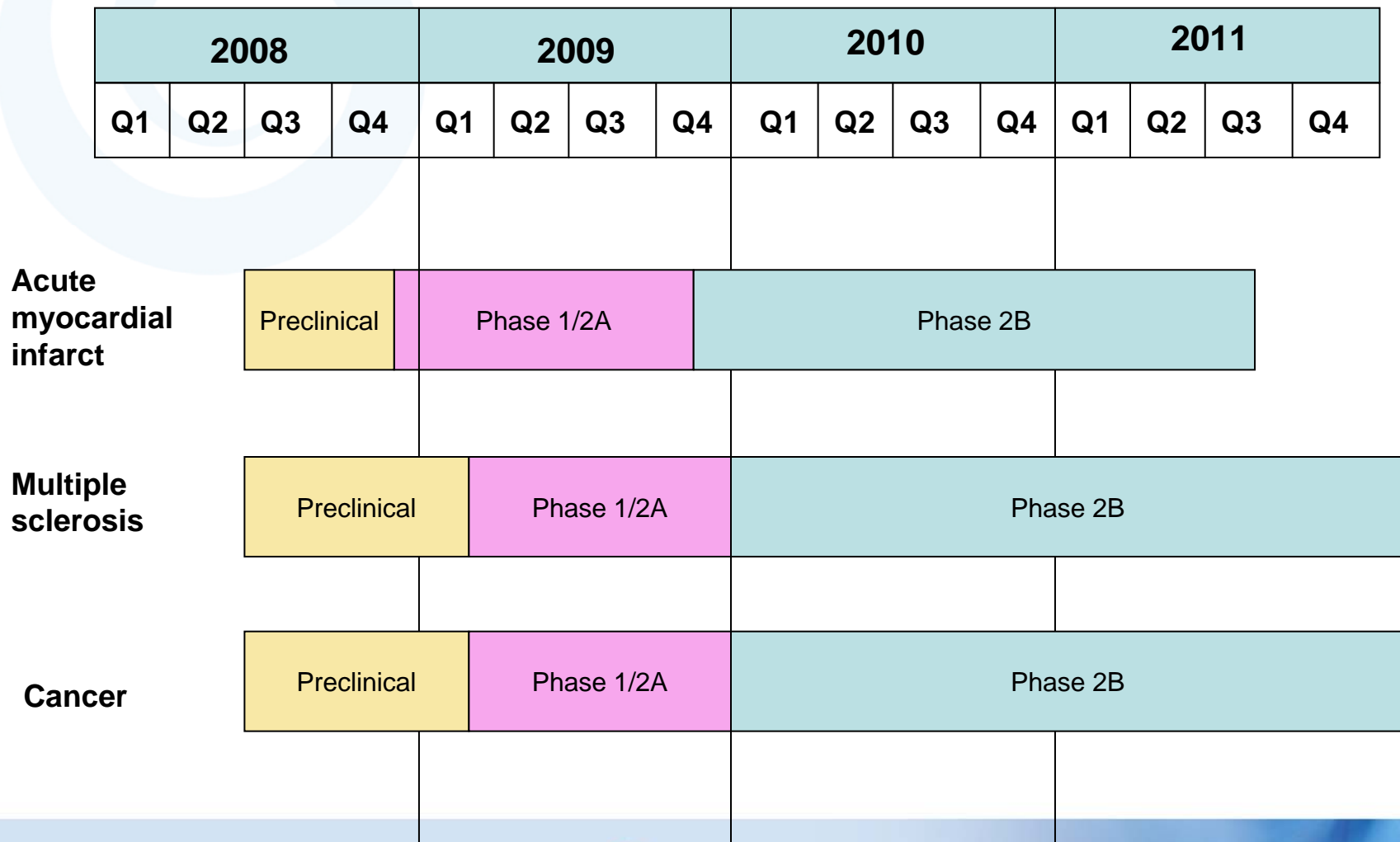
- 6/7 (86%) WT mice show symptoms from antibody-induced arthritis

- 1/10 of MK-KO (10%) mice show symptoms

Global markets for key indications

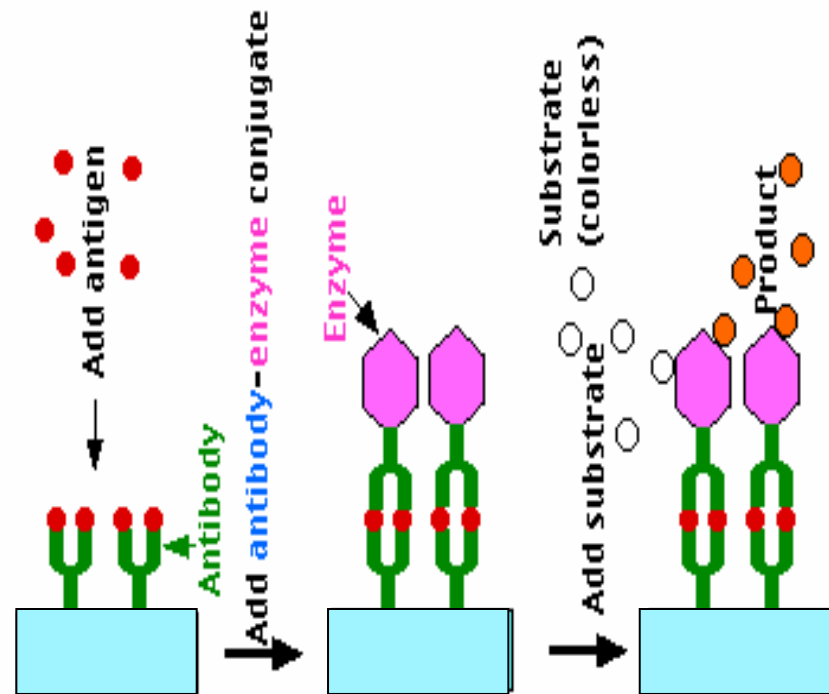
INDICATION	GLOBAL PREVALENCE	TREATMENT	GLOBAL MARKET (US\$)
Acute myocardial infarct	~ 32 million heart attacks / year	<ul style="list-style-type: none"> • Surgery • ACE inhibitors • Beta blockers • Fibrinolysis 	<ul style="list-style-type: none"> • Cardiovascular drugs worth ~ \$82.4 billion in 2007
Cancer	~ 25 million	Chemotherapy Radiotherapy Targeted therapies	<ul style="list-style-type: none"> • \$4 billion in 2007 for Herceptin alone • Estimated \$45 billion in 2012 for global cancer drug market
Multiple sclerosis	~ 3 million	Disease-modifying agents	\$4.9 billion in 2006
Rheumatoid arthritis	~ 5 million	NSAIDs Corticosteroids Biologicals	\$16 billion in 2006
Endometriosis	~ 89 million	NSAIDs Surgery Hormonal therapy	\$2.2 billion by 2014 for pharmaceutical treatments alone

Therapeutic portfolio



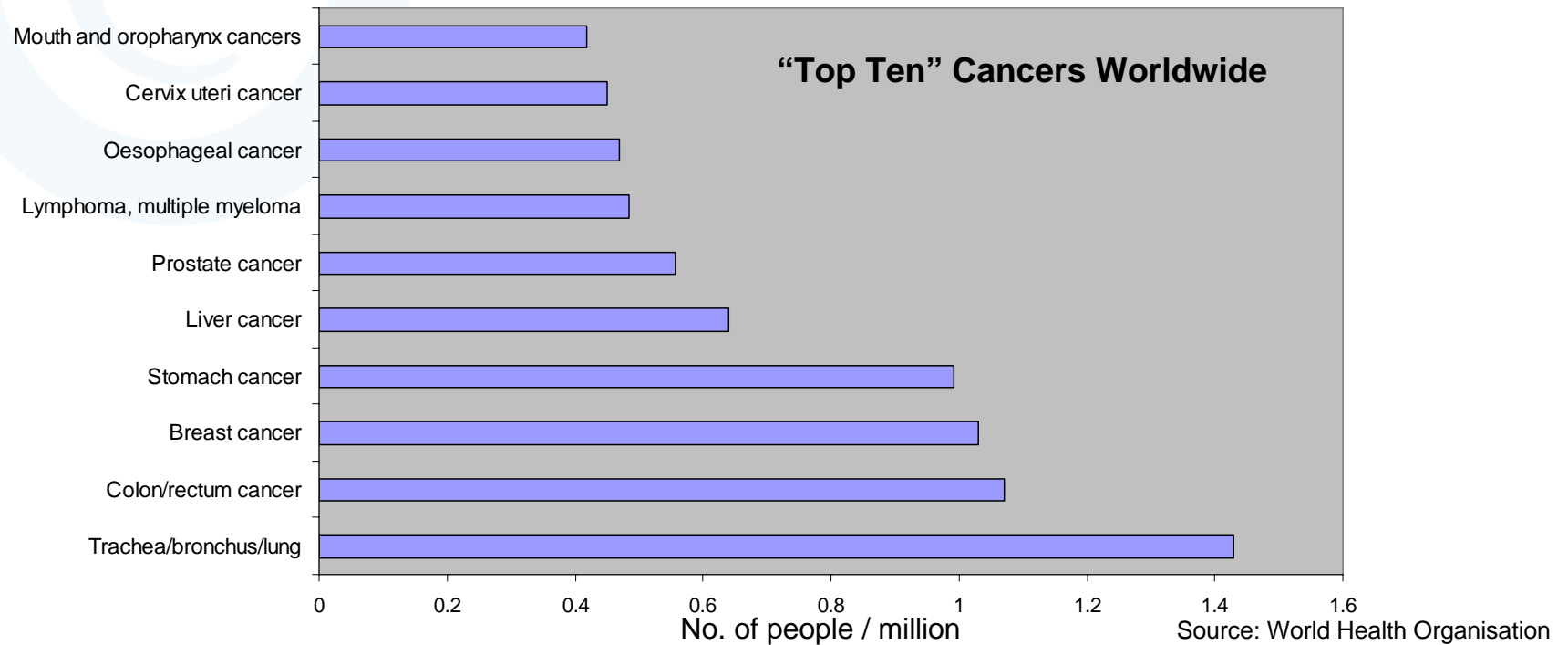
Diagnostic Products

- Detection of midkine using Enzyme-linked Immunoassay (ELISA)



Incidence and cost of cancer

- Almost 11 million new cases of cancer diagnosed each year globally



Breast cancer diagnostic

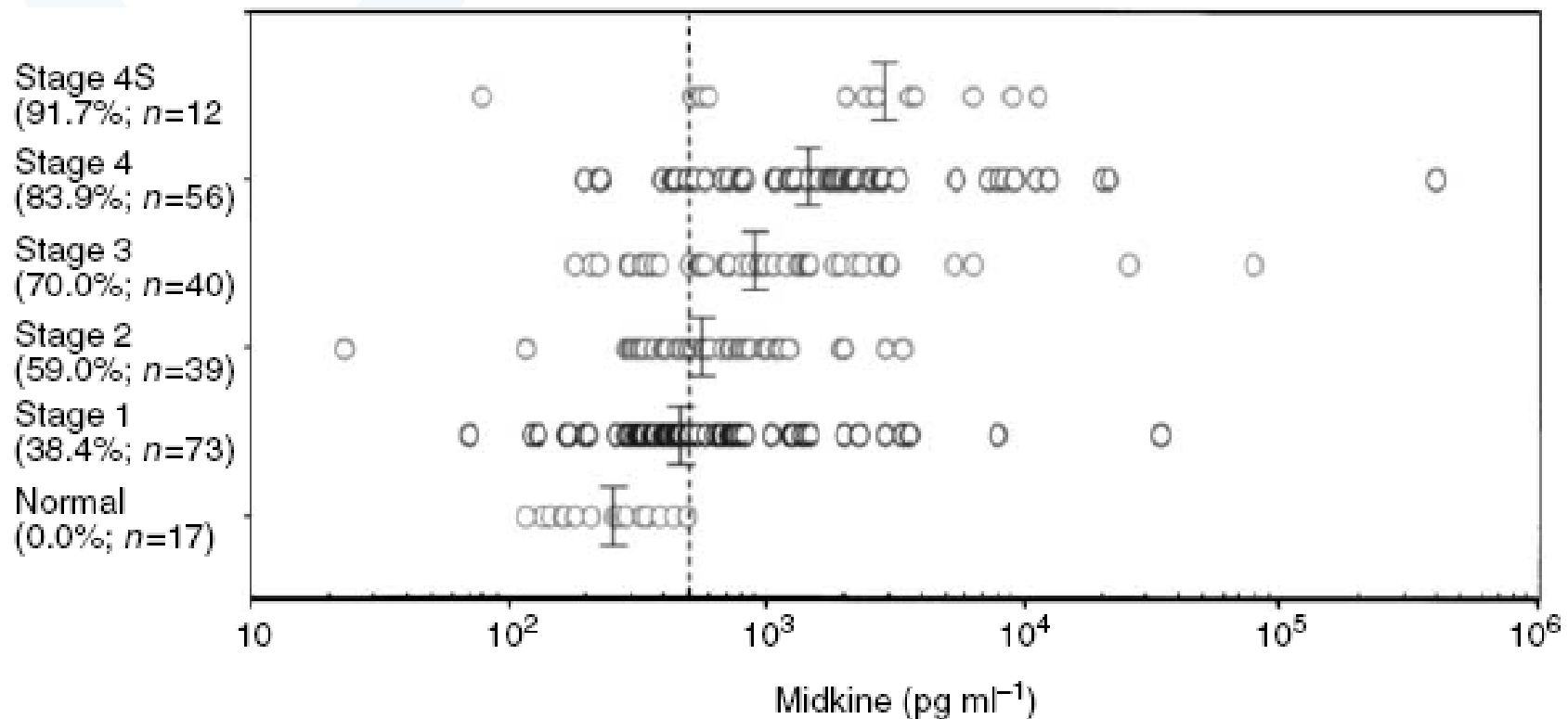
Breast cancer Stage	Other Biomarkers**			Midkine*
	CA15-3	BCA225	CEA	
0	0%	0%	0%	45.5%
I	4%	8%	6%	27.9%
IIA	8%	22%	11%	50.0%
IIB				
IIIA	19%	39%	18%	33.3%
IIIB				
IV	38%	100%	56%	100%

Source: *Cell Signals, **The Journal of The Japan Medical Association 2004

- Midkine detected in 45.5% of stage 0 breast cancers

Neuroblastoma Diagnostic

Correlation of elevated level of blood midkine with poor prognostic factor of human neuroblastomas (Ikematsu et al, 2003)



Diagnostic Portfolio

		2008				2009				2010				2011			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Cancer	Research use	[Yellow bar spanning all quarters from 2008 Q1 to 2011 Q4]															
	Clinical validation (AUS, EU)					[Star icon]											
	Clinical validation (JP, US)					[Yellow bar]				[Star icon]							
Rheumatoid Arthritis Alzheimer's disease	Research use	[Brown bar spanning all quarters from 2008 Q1 to 2011 Q4]															
	Clinical validation (AUS, EU)					[Star icon]											
	Clinical validation (JP, US)					[Brown bar]				[Star icon]							
Sjogren's syndrome	Research use	[Pink bar spanning all quarters from 2008 Q1 to 2011 Q4]															
	Clinical validation (AUS, EU)					[Star icon]								[Star icon]			
	Clinical validation (JP, US)					[Pink bar]				[Star icon]				[Star icon] Launch			

MTY – Post Acquisition

Capital structure

Shares	74,085,624
New Shares (NS Capital Co)	23,500,000
New Shares (Cell Signals)	20,000,000
<u>Total shares on issue</u>	117,585,624
Options (Employee)	7,505,000
Convertible notes	9,381,096

Operations

- Sydney will remain the pre-clinical/clinical and administrative centre
- Therapeutic R&D will be conducted in Tokyo and in Australia under collaborative arrangements
- Diagnostic portfolio will be clinically validated via collaborations

Proposed timetable of key events*

EGM Notice	15 May 2008
Shareholder briefings	16 May – 10 June 2008
EGM	16 June 2008
Issuing of shares under the IP Agreement	18 June 2008
Settlement of IP Agreement	19 June 2008

*This timetable is subject to change

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