PRECISION ONCOLOGY: PTX-100 AND PTX-200

FROM ROBUST SCIENCE TO EVIDENCED-BASED CANCER TREATMENT

Professor Saïd Sebti
Chief Scientific Officer
Prescient Therapeutics Limited (ASX: PTX)

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INTRODUCING SAID SEBTI, CSO OF PRESCIENT

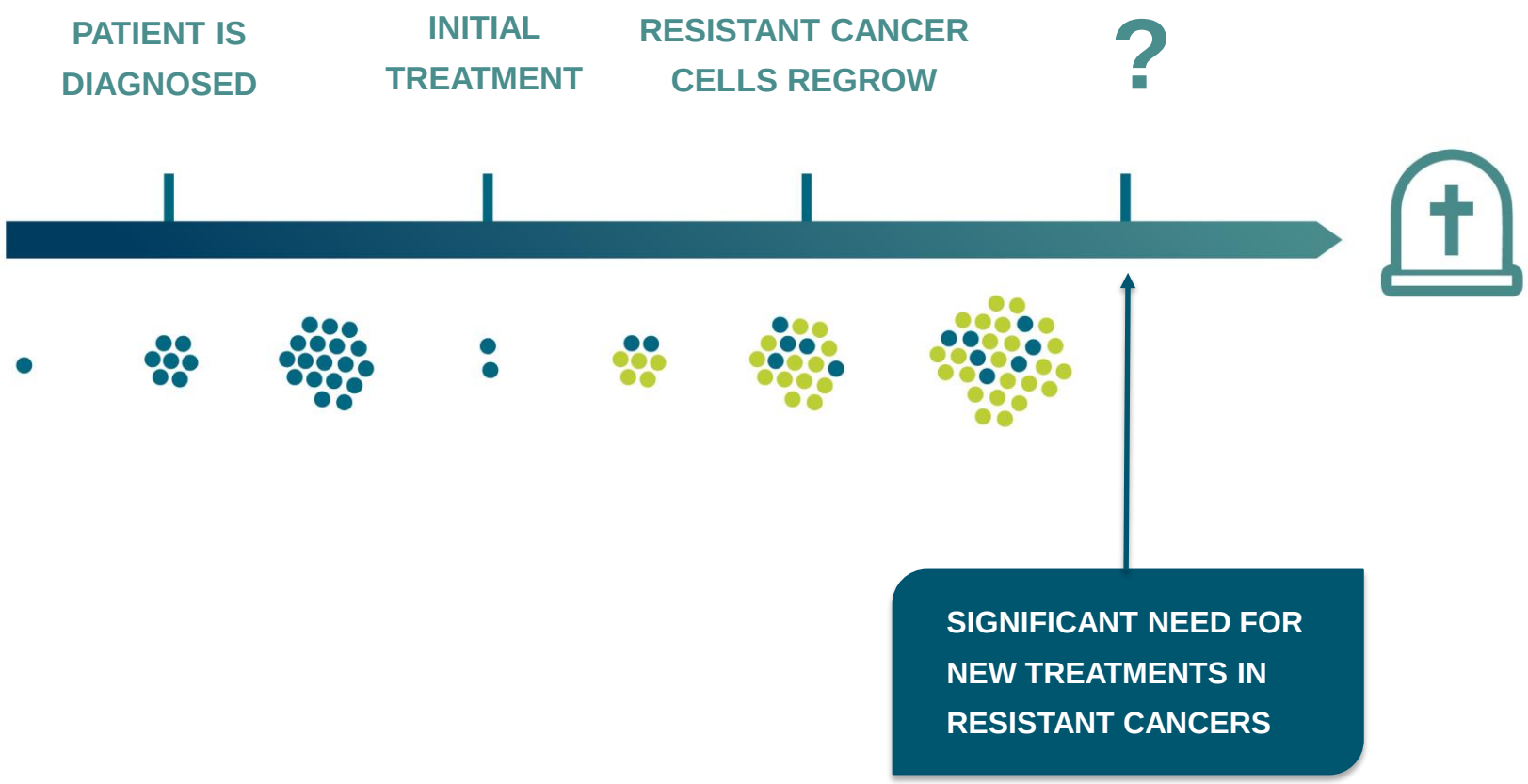
- Chief Scientific Officer, Prescient Therapeutics
- Professor and Chair, Drug Discovery Department, Moffitt Cancer Center in Tampa, FL
  - » 3rd largest cancer centre in the US
  - » 800 research scientists, postdocs, graduate students and support staff
- Co-inventor of PTX-100 & PTX-200
- Named among Top 20 Translational Researchers in the world by Nature Publishing Group

npg nature publishing group

Prescient Therapeutics

COMPANY OVERVIEW

WHAT DOES PRESCIENT DO?



Prescient Therapeutics

INVESTMENT HIGHLIGHTS

2 DRUGS » IMMINENT CATALYSTS » FUNDING IN PLACE » UNDISCOVERED VALUE

- **Multiple shots on goal** with novel targeted (personalized) cancer therapies
- One of **deepest clinical pipelines** on the ASX
- Funded through to value-accretive catalysts, with a fantastic share register
- Great scientific and clinical team with a **proven record of success**
- **Transformative opportunity** in Ras/Rho mutant cancers
- Following in the footsteps of US targeted therapy companies that have enjoyed spectacular success
- **Multiple catalysts** this year
- **Encouraging Ph1b breast cancer results**

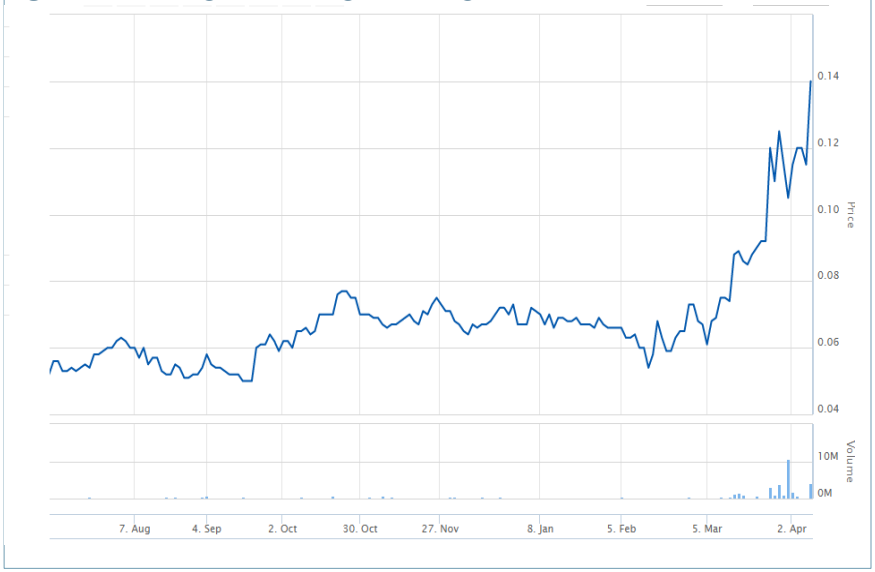
CORPORATE SNAPSHOT

KEY METRICS

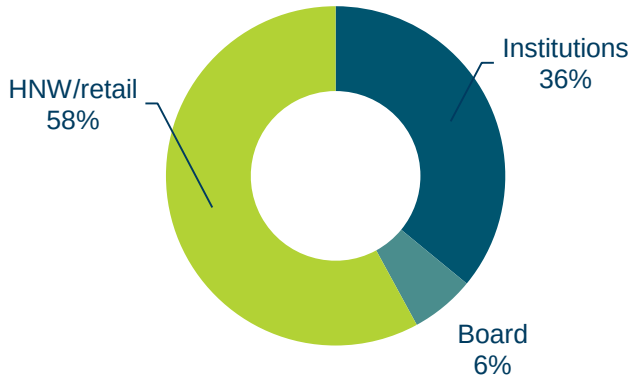
ASX Ticker	PTX
Total Issued Capital	211.3 M shares
Options	57.8 M
Share Price[1]	A$0.12 (US$0.09)

Market Capitalisation[1]	A$25 M (US$19.5 M)
Cash Position[2]	A$6.0 M (US$4.7 M)
Top 20 Own	52%
6 month turnover[3]	22.7 M shares; A$1.6 M (US$1.3 M)

SHARE PRICE PERFORMANCE



SHAREHOLDER BASE



1 - AS AT 10 APRIL 2018
2 – AS AT 31 DECEMBER 2017, NOT INCLUDING $1.0M R&D TAX REBATE RECEIVED JANUARY 2018
3 – AS AT 13 MARCH 2018

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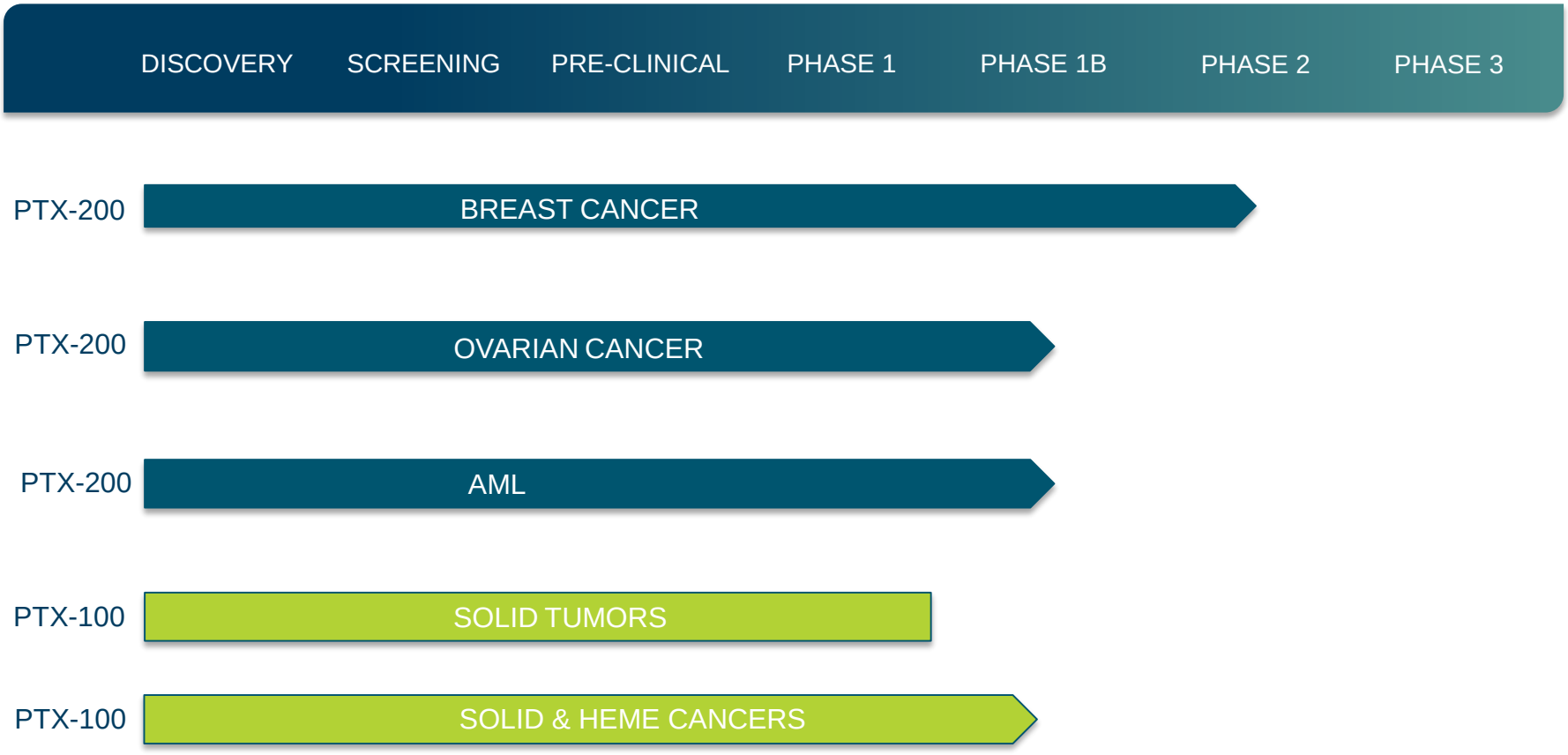
DEEP, CLINICAL STAGE PRODUCT PIPELINE

- PTX-200 currently in three clinical trials
- Advancing PTX-100 in basket studies of Ras and Rho mutant cancers - a transformative opportunity



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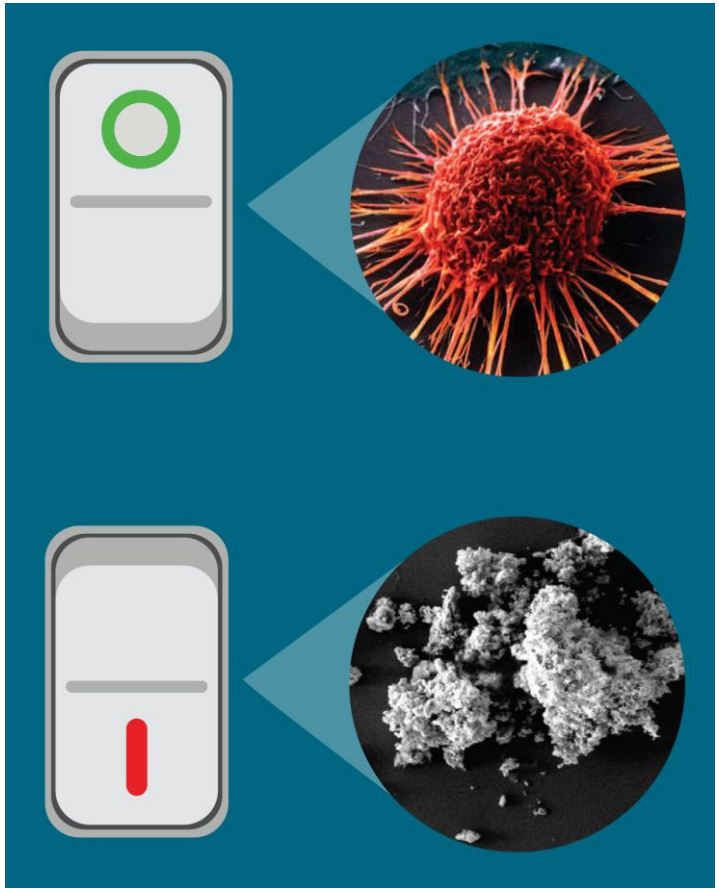
HOW OUR DRUGS WORK: “MOLECULAR SWITCHES”

Akt, Rho & Ras are growth molecules – when they are stuck “on”, they send **constant signals** to the cancer cell to **grow** and
cause resistance to treatment

PTX’s drugs block the
Akt, Rho & Ras growth pathways, switching the **growth signals off** and **causing the cancer cell to die**



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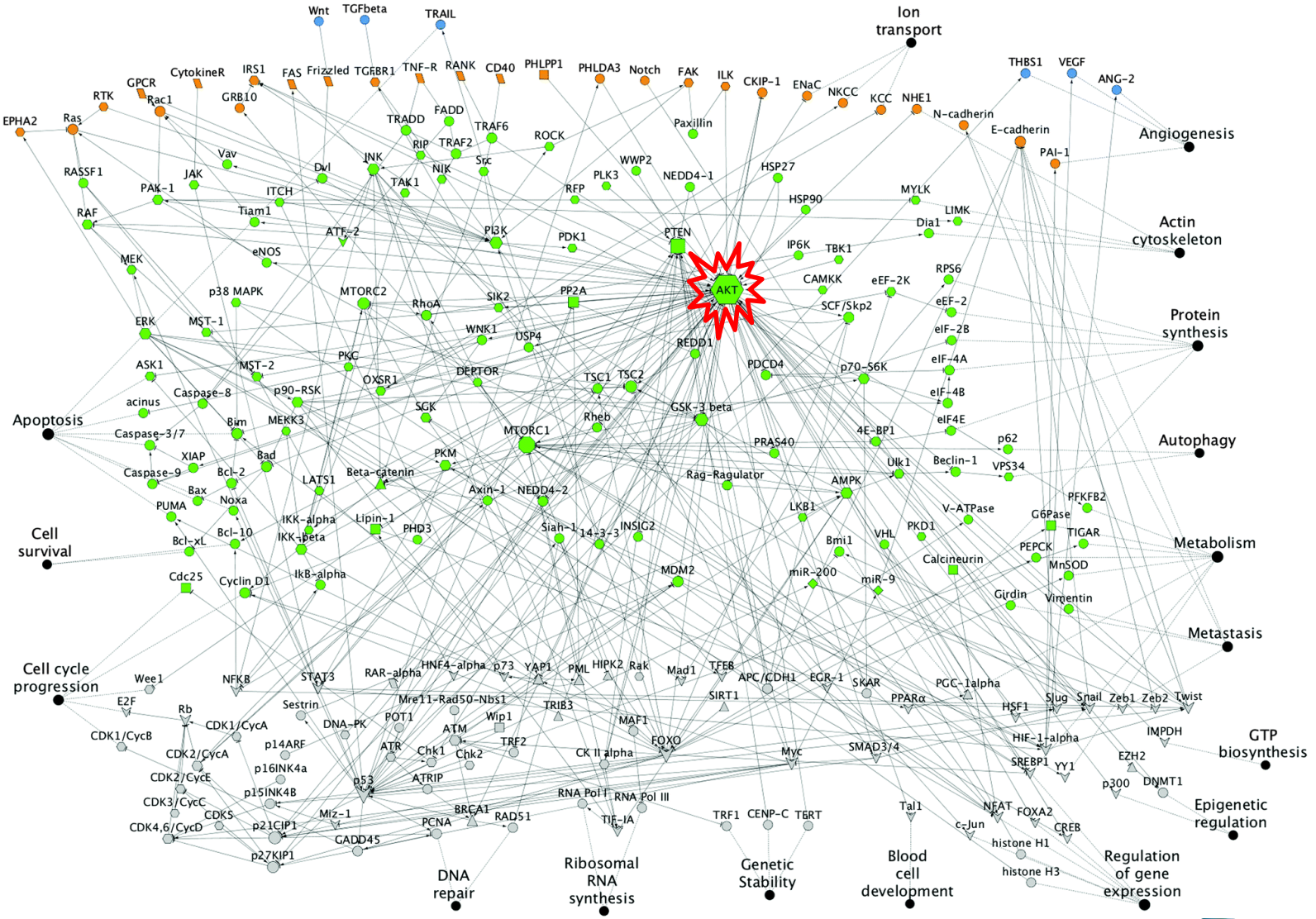
TURNING OFF TUMOUR MASTER SWITCHES



ERSAHIN, T. ET AL; MOL. BIOSYST., 2015,11, 1946-1954

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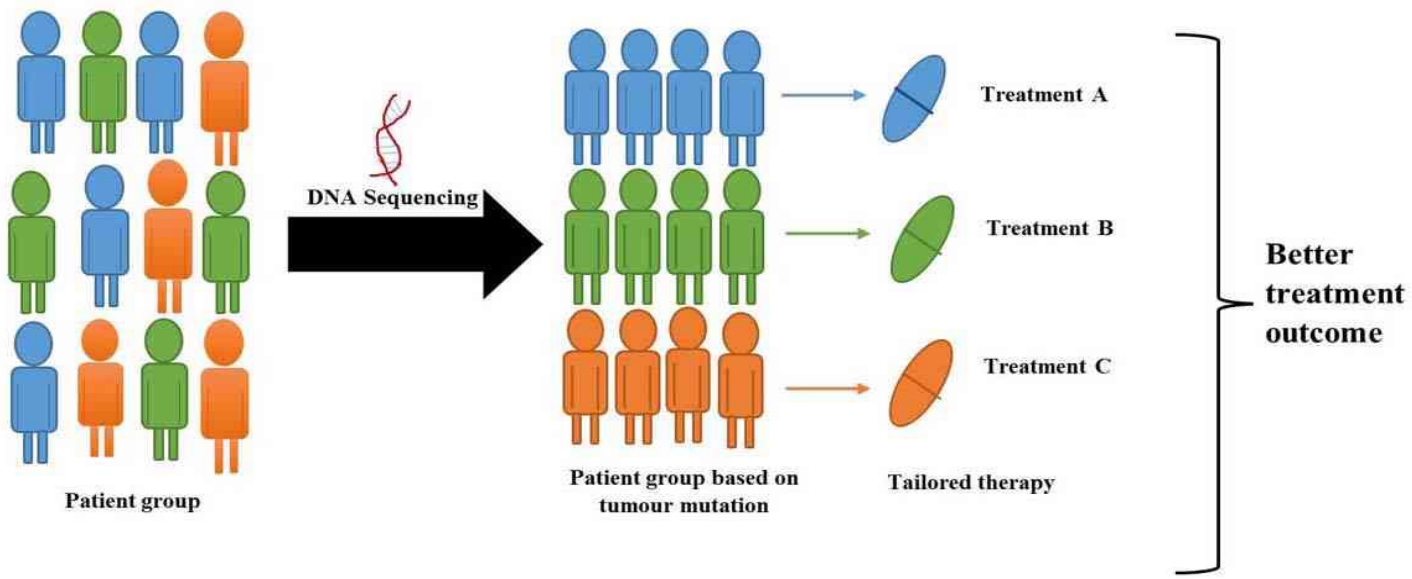
PRECISION ONCOLOGY EXPLAINED

PRECISION ONCOLOGY INTRODUCTION

- Treatment takes into account **individual tumor variability**
- Doctors predict more accurately **which anti-cancer drug will work** in which groups of people
- N**ot a one-size-fits-all approach** where treatment is for all patients, with no attention to differences between individuals
- This practice has precedent: For example, in blood transfusion the donor's blood type is matched to the recipient (no one is given blood from a randomly selected donor).



- The Precision Medicine industry was valued at **US$39B in 2015**, and is expected to reach **US$98B by 2023**, expanding at a rate of 12.3%

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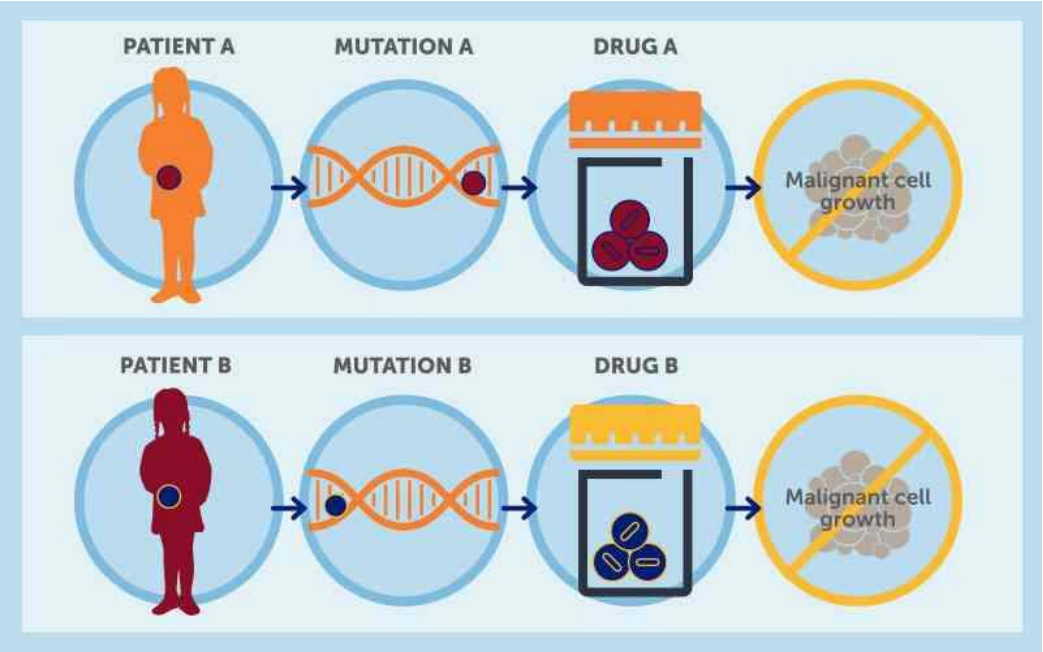
WHY PRECISION ONCOLOGY?

- Many types of cancers (breast, ovarian, lung, colon etc); within same cancer type, cancer patients' tumors can differ from one another: Tumors arise from different cancer-causing mutations and proteins.



- Precision Oncology tailors the treatment of a cancer patient with specific drugs that target the specific cancer-causing mutations or proteins that define the blueprint of that patients' individual tumor.

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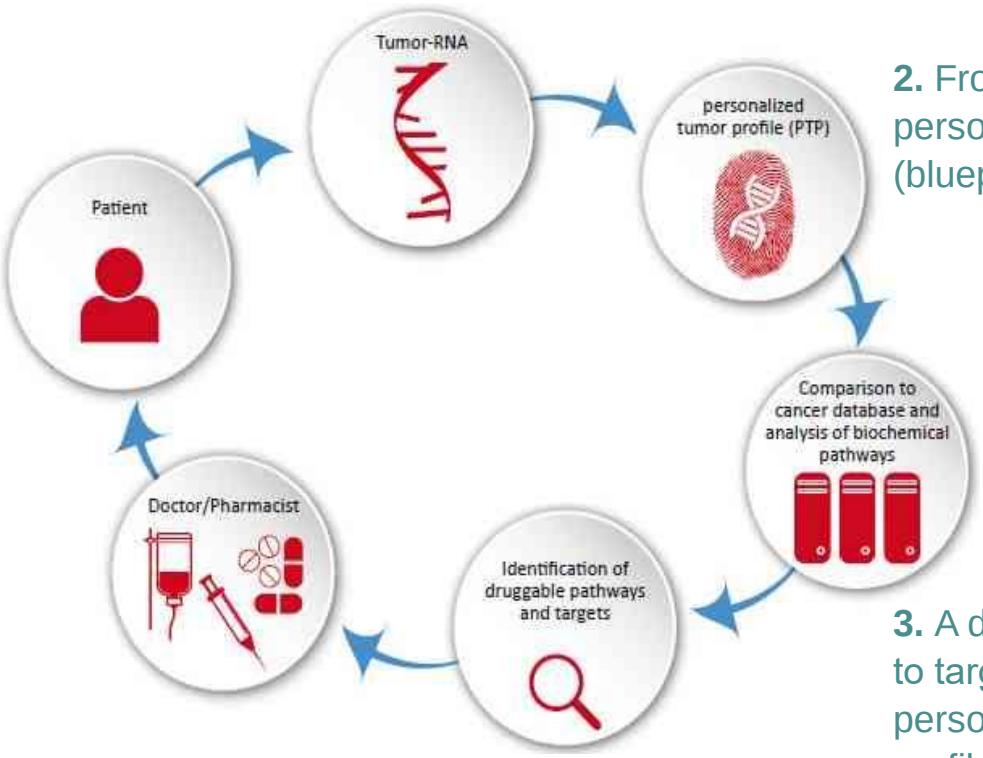
STEPS INVOLVED IN PRECISION ONCOLOGY

1. Each cancer patient tumor is first analyzed for mutations & other molecular biomarkers (i.e. DNA/RNA sequencing; Phosphorylation)



2. From this analyses a personalized tumor profile (blueprint) is obtained

3. A drug is then selected to target the tumor's personalized tumor profile

This way, only patients that are more likely to respond are treated with the **right drug** for the **right patient** with the **right tumor profile**

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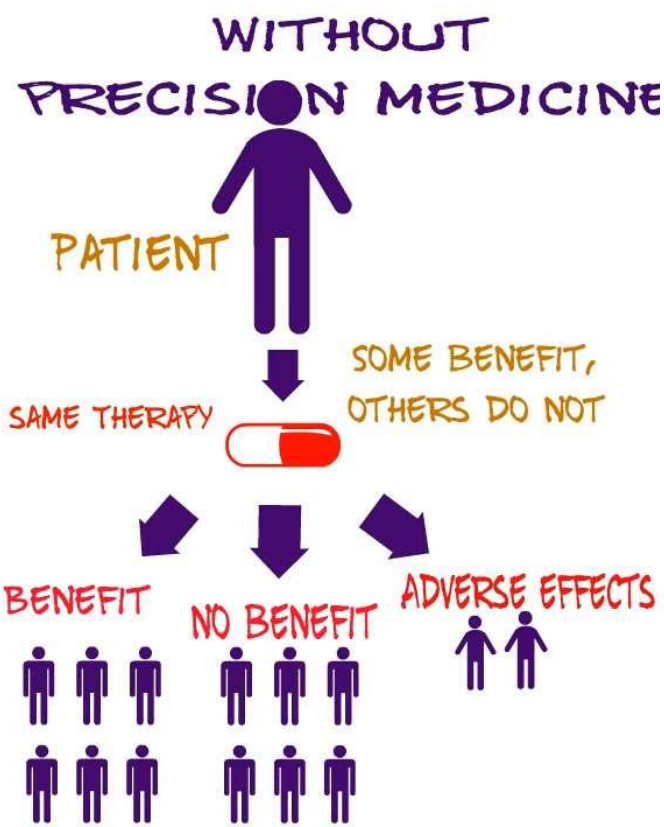
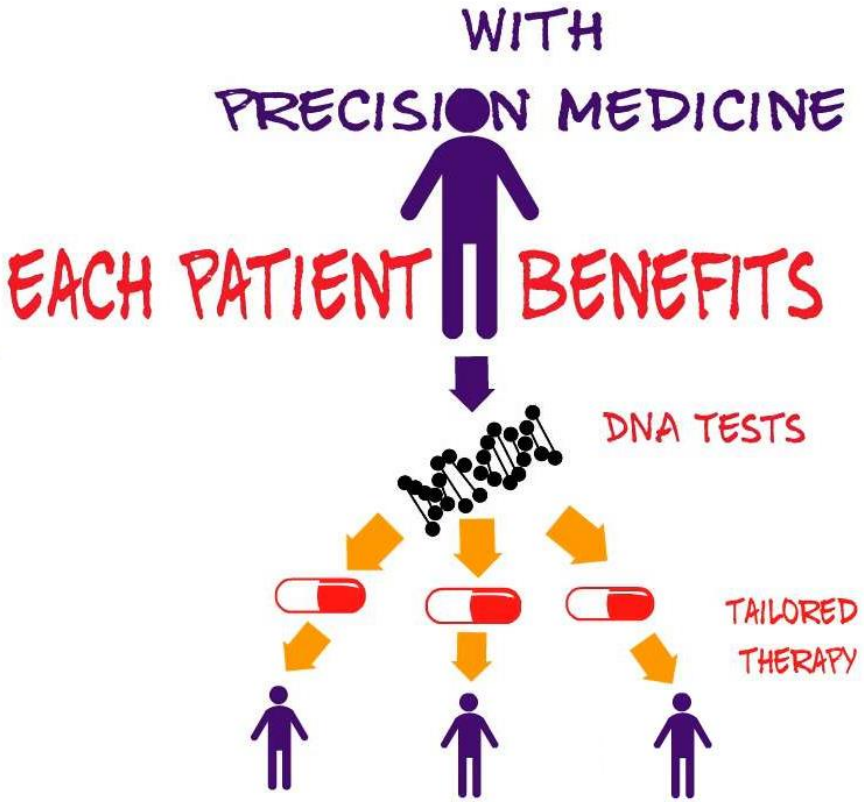
BENEFITS VS STANDARD TREATMENTS

This **precise, targeted** personalized therapy is a **more effective** way of treating cancer patients.





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SUCCESS STORIES IN PRECISION ONCOLOGY

EXAMPLES OF PRECISION ONCOLOGY APPROACHES

Disease	Target	Drug	Status
Chronic Myeloid Leukemia	**Bcr-Abl** (95% of patients)	Gleevec NOVARTIS	Gleevec has increased 5-year survival rate for CML from 31% to 90% (1990s-2012)
Acute Myeloid Leukemia	**FLT3** (25% of AML patients)	Gilteritinib astellas	NDA filed for R/R FLT3-positive AML
Acute Myeloid Leukemia	**IDH2** (8% of AML patients)	Enasidenib Celgene agios	Received FDA approval in 2017 for R/R AML with IDH2 mutations
Many cancer types	**TRK fusions** (various %s)	LOXO-101 LOXO ONCOLOGY	NDA filed for cancers with TRK fusion
Many cancer types	High **p-Akt** (various %s)	PTX-200 Prescient Therapeutics	**In development** for cancers with **high p-Akt** levels (regardless of the genetic defect that causes high p-Akt)
Various Lymphomas	**RhoA** mutations (up to 70%)	PTX-100 Prescient Therapeutics	**In development** for cancers with **RhoA mutations**
Gastric and pancreatic cancers	**KRas** mutations (up to 95%)	PTX-100 Prescient Therapeutics	**In development** for cancers with **KRas mutations**

TARGETED THERAPIES CASE STUDY #1: LOXO

Bayer agrees cancer drug deal with Loxo worth up to $1.55 bln

November 14, 2017, 10:08:00 AM EDT By Reuters

- Loxo Oncology (NASDAQ: LOXO); US$3.9B market cap
- TRK inhibitor targeting cancers with TRK fusions
- Deal for LOXO-101 and LOXO-195
- In mid-stage clinical trials ORR 75%
- Bayer deal - US$400m upfront
- Loxo could earn up to US$1.55 Billion
- Bayer and Loxo co-promote in US; Bayer solo RoW
- **923% return** in 4 years

REUTERS; FIERCE BIOTECH 14 NOV 2017; GOOGLE FINANCE 25 APRIL 2018

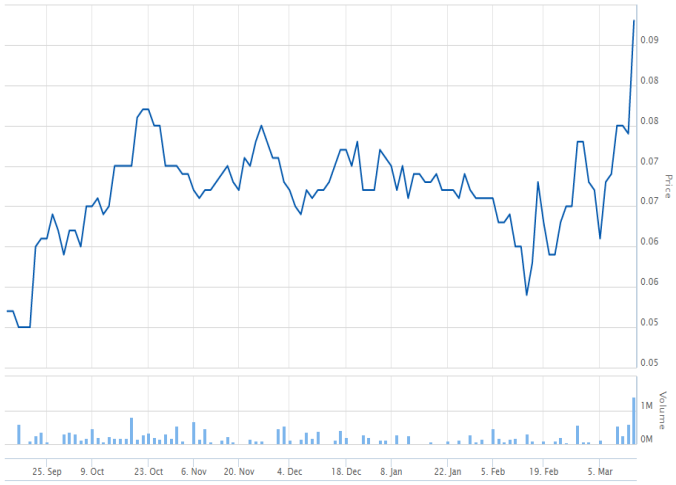
TARGETED THERAPIES CASE STUDY #2: BLUEPRINT

- Blueprint Medicines (NASDAQ: BPMC)
- Target therapies for cancer based on genomically defined diseases (abnormal kinase activation)
- 4x Phase 1 drugs
- 3 x discovery programs
- IPO April 2015: Valuation: US$398M; $16/share
- Today: Valuation: US$3.8 B; $78/share
- **342% return** in <3 years

CRUNCHBASE; GOOGLE FINANCE 25 APRIL 2018

PRESCIENT FOLLOWING THE SAME DEVELOPMENT PATH

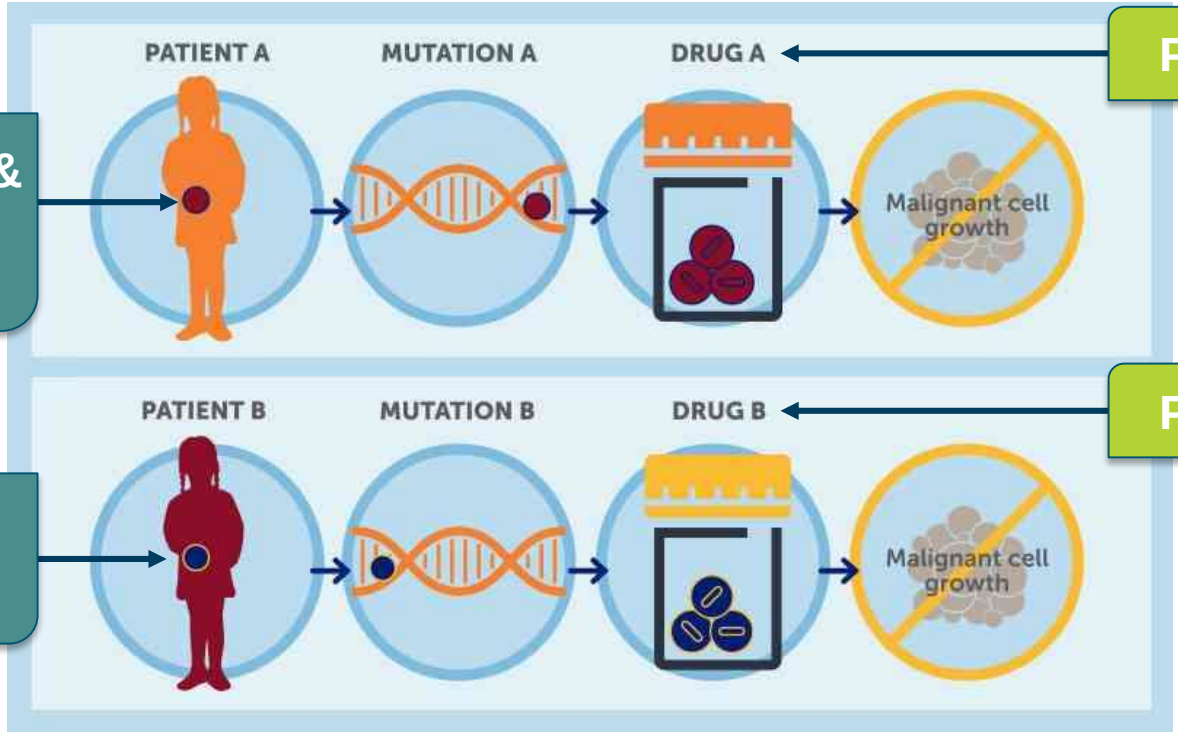
- Prescient Therapeutics (ASX: PTX); market cap $22M
- Target therapies for cancer
- Hyper pAkt – PTX-200
  - » Orphan drug designation in AML
- Ras/Rho mutations – PTX-100
  - » Including ultra-orphan RhoA mutant lymphomas
- **A step behind some US peers, but treading the same path!**



PTX-100 AND PTX-200 PRECISION ONCOLOGY

Mutant RhoA & Mutant KRas Cancers

High p-Akt Cancers



PTX-100

PTX-200

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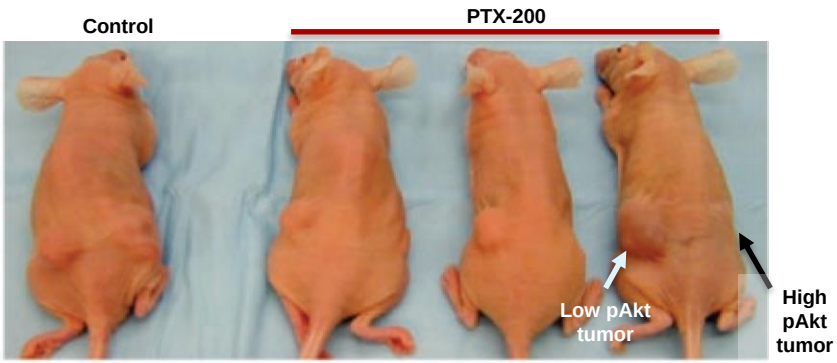
PTX-200

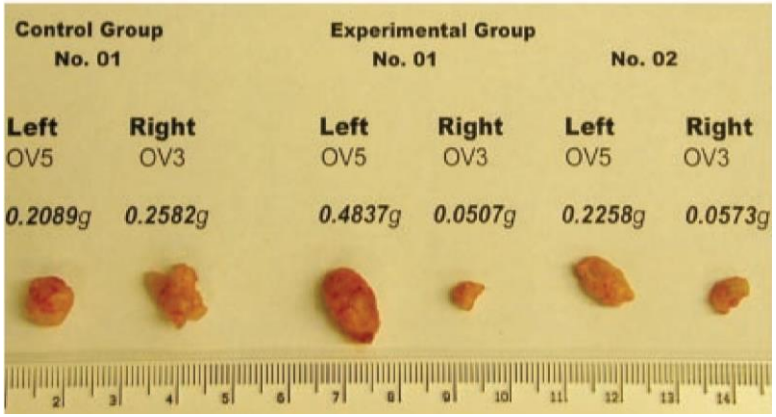
NOVEL AKT INHIBITION

AML
Breast cancer
Ovarian cancer

PTX-200 PRECISION ONCOLOGY VALIDATION

- PTX-200 stops the growth of **only tumors that harbor high p-Akt levels**
  - » PTX-200: Inhibitor of AKT hyper-activation- common in 50-70% of breast, ovarian, colorectal, prostate, pancreatic and Leukemia.
  - » Activated AKT causes chemotherapy resistance
  - » PTX-200 “switches off” pathway overcomes chemotherapy resistance and causes cancer cells to die





- In addition to high P-Akt levels, other biomarkers that may predict response to PTX-200 are:
  - » Akt mutation (E17K)
  - » High levels of the ZNF217

YANG, ET AL. CANCER RESEARCH 2004; 64, 4394-4399
LANCET, ET AL. LEUK RES 2013; 37:1461

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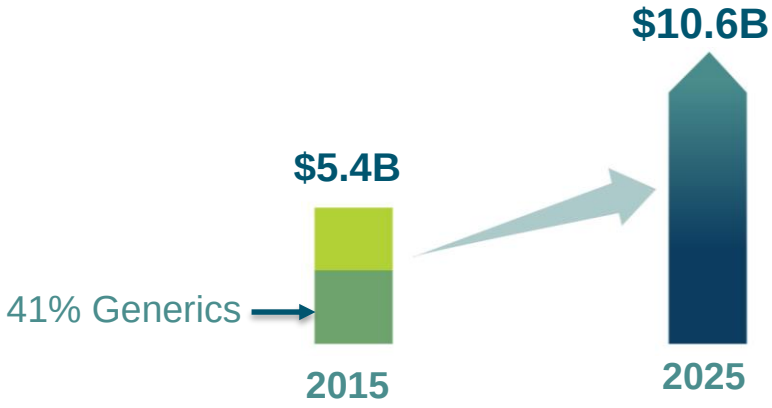
HER2 - BREAST CANCER OVERVIEW

80% OF BREAST CANCERS ARE **HER2-**

BUT THIS IS **STILL UNDERSERVED** BY NEW DRUGS



MARKET NEED:

LACK OF PIPELINE AGENTS ADDRESSING

- **RESISTANT ER+ DISEASE**
- **NEOADJUVANT THERAPY**

- **AKT IS ADVERSE PROGNOSTIC** FACTOR
- CORRELATED WITH **WORSE DISEASE-FREE SURVIVAL**
- **DRIVES RESISTANCE** TO ENDOCRINE THERAPY

PTX'S NICHE:

NEOADJUVANT

TARGETED THERAPY

FOR HER2- DISEASE

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PHASE 1B BREAST CANCER TRIAL SUCCESSFULLY COMPLETED; NOW IN PHASE 2

- PTX-200 in combination with paclitaxel, followed by AC (doxorubicin & cyclophosphamide)
- Patients with metastatic and locally advanced HER2- breast cancer
- 28 patients dosed; 12 in expansion cohort at 35 mg/m^2
- 5 patients from Phase 1b qualifying for Phase 2 analysis
- **Phase 2 trial currently underway in locally advanced breast cancer**

Joseph Sparano, M.D.
Principal Investigator

EINSTEIN
Albert Einstein College of Medicine
OF YESHIVA UNIVERSITY

Heather Han, M.D.

MOFFITT CANCER CENTER

Prescient Therapeutics

WHAT DOES SUCCESS LOOK LIKE FOR THIS DISEASE?

- For women with locally advanced **ER+, HER2 negative breast cancer**, typical expectations are:
  - **Complete response (complete eradication) of 16%** (11-22%)
  - **Overall response rate of 25%**

- A meaningful improvement on these response rates would be seen as very encouraging

- Whilst Prescient is not measuring PFS in this study, pCR is recognised by the FDA as an endpoint to accelerated approval

HORTOBAGYI, G, ET AL; J CLIN ONCOL 23:5983-5992; 2005
SPARANO, J, ET AL ; BREAST CANCER RES TREAT; JUNE 2014
SPARANO, J, ET AL ; BREAST CANCER RES TREAT; JUNE 2013
US FDA, (CDER). GUIDANCE FOR INDUSTRY: PATHOLOGICAL COMPLETE RESPONSE IN NEOADJUVANT TREATMENT OF HIGH-RISK EARLY-STAGE BREAST CANCER: USE AS AN END POINT TO SUPPORT ACCELERATED APPROVAL. OCTOBER 2014.

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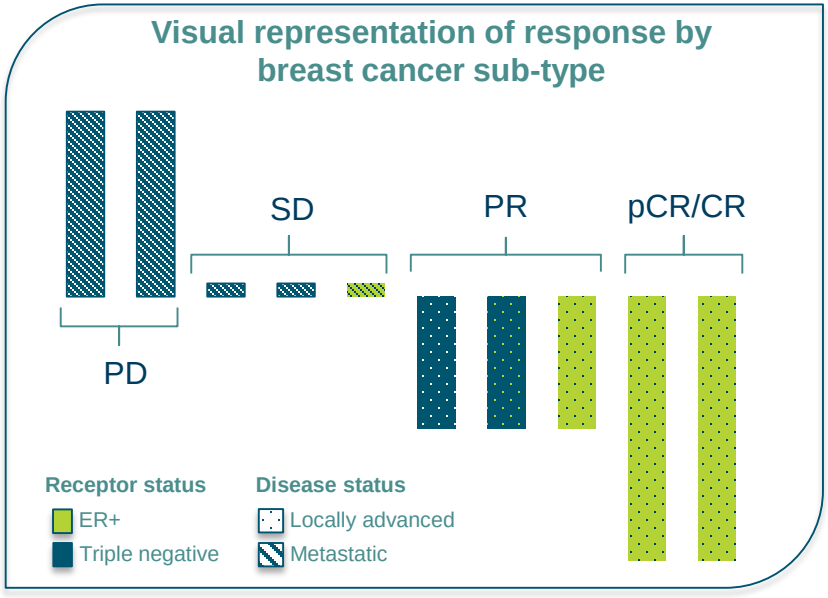
PHASE 1B EFFICACY RESULTS VERY ENCOURAGING

- 10 patients evaluable for efficacy:
  - 2 complete responses (both in ER+)
  - Overall response rate of 50%
  - In ER+ disease, ORR (pCR+ PR) was 75%
- **Small numbers, but very encouraging efficacy results, particularly in difficult to treat ER+ and locally advanced disease**
- 5 patients from Phase 1b qualifying for Phase 2 analysis



Metastatic & locally advanced patients			
	ER+	Triple negative	Total
pCR/CR	2	0	2
PR	1	2	3
SD	1	2	3
PD	0	2	2
ORR	**75%**	**33%**	**50%**

Locally advanced patients			
	ER+	Triple negative	Total
pCR/CR	2	0	2
PR	1	2	3
SD	0	0	0
PD	0	0	0
ORR	**60%**	**40%**	**100%**

PCR=PATHOLOGICAL COMPLETE RESPONSE; CR=COMPLETE RESPONSE; PR=PARTIAL RESPONSE;; SD=STABLE DISEASE; PD=PROGRESSIVE DISEASE; ORR=OVERALL RESPONSE RATE (=PCR/CR + PR)

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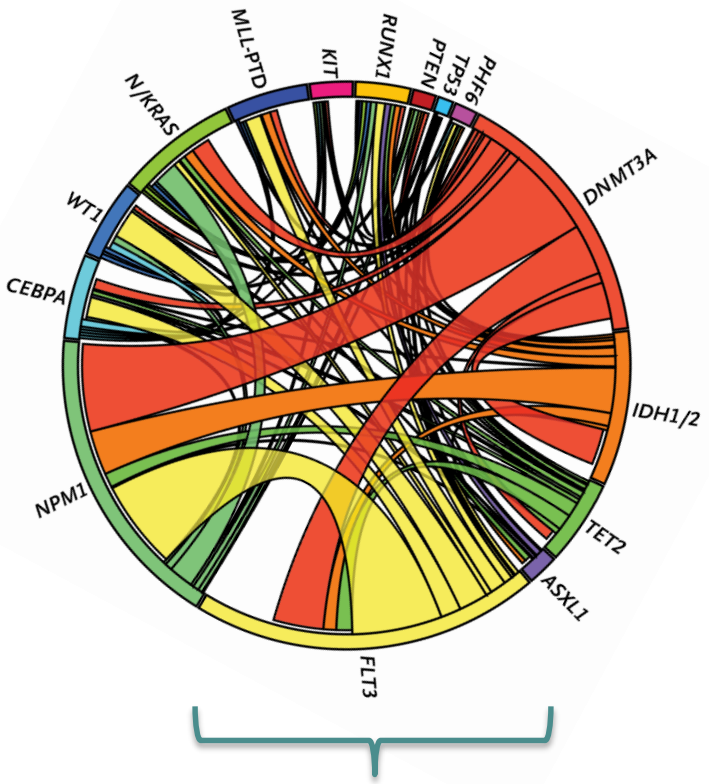
AML: MUTATIONAL COMPLEXITY NEEDS PRECISION APPROACH

- Regardless of the mutational complexity of AML, **72% of AML patients have high p-Akt**

- **PTX-200 has the potential to complement other targeted therapies, and capture what they cannot**



1 drug approved &
15 in development
just targeting FLT3

KRONKE, J; ET AL. BLOOD 2013; 122:100-108
DAVER N, ET AL. AM J HEMATOL. 2016; 91:131-145
PATEL, ET AL. NEJM 2012; 366:1079
BRANDTS, ET AL. CANCER RES 2005; 65:9643

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PHASE 1B AML TRIAL UNDERWAY

- Phase 1 results with PTX-200 (monotherapy) very encouraging
- Now PTX-200 + cytarabine in refractory or relapsed acute leukemia
- World renowned expert Professor Jeff Lancet at Moffitt Cancer Center leading the trial
- Yale Cancer Center and Kansas University Medical Center also participating in trial
- Due to complete Phase 1b around middle of 2018

Jeffrey E Lancet, M.D.
Principal Investigator

MOFFITT CANCER CENTER

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PHASE 1B OVARIAN CANCER TRIAL

- Significant need for new products to treat platinum-resistant ovarian cancer
- Testing PTX-200 plus carboplatin in patients with platinum resistant ovarian cancer
- PTX-200 already proven **overcome cisplatin resistance** and **synergize with cisplatin** in pre-clinical studies
- Phase 1b underway
- Currently recruiting at H. Lee Moffitt Cancer Center

Robert Wenham, M.D.
Principal Investigator

MOFFITT CANCER CENTER

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PTX-100

PHASE 1 IN SOLID TUMORS COMPLETED

NOW PURSUING A TRANSFORMATIVE OPPORTUNITY IN RAS AND RHO MUTANT CANCERS

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PTX-100 PRECISION ONCOLOGY

- PTX-100 is predicted to inhibit tumors that harbor **mutant RhoA** and **mutant KRas**
  - » PTX-100: 1st in class/man inhibitor of Ras (mutated in 30% of human cancers) and Rho (mutated in up to 70% of AITL) pathways
  - » PTX-100 “switches off” these pathways by targeting GGT-1, enzyme
  - » PTX-100 completed Phase 1: Safe and patients achieved stable disease
  - » Soon to enter Pilot and Phase II
- In addition to high mutant RhoA and mutant KRas, other biomarkers that may predict response to PTX-200 are:
  - » p27Kip
  - » PTEN
  - » RalA/B

YANG, ET AL. CANCER RESEARCH 2004; 64, 4394-4399
LANCET, ET AL. LEUK RES 2013; 37:1461

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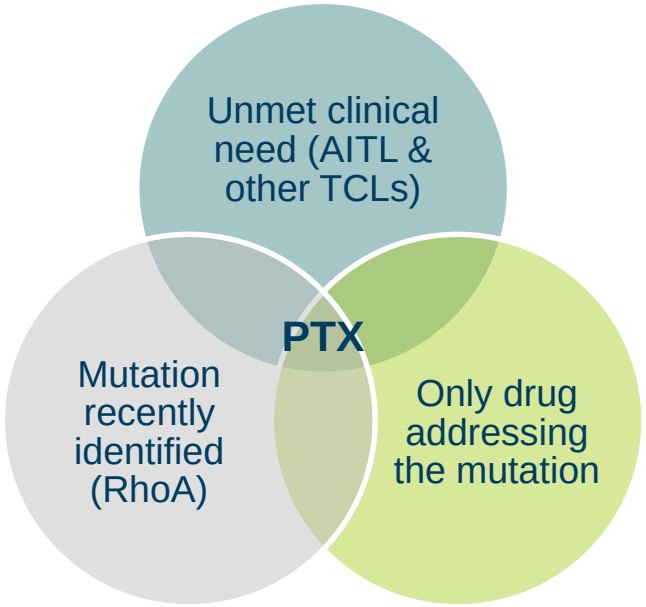
PTX-100 THE MOST ADVANCED DRUG TARGETING RHOA

- Only RhoA inhibitor in the clinic
- Phase 1 trial in solid tumours completed
- **PTX-100 has a unique position in RhoA mutant lymphomas**



RARE DISEASES CAN TRANSFORM SMALLER COMPANIES

RARE DISEASES

- TYPICALLY MUCH SMALLER TRIALS REQUIRED
- LOWER DEVELOPMENT COST
- FASTER DEVELOPMENT TIME
- SUPPORT FROM REGULATORS, INCLUDING POTENTIAL EXPEDITED REVIEW
- GUARANTEED MARKET EXCLUSIVITY POST APPROVAL (IRRESPECTIVE OF PATENT STATUS) 7 YEARS IN US; 10 YEARS IN EU
- TYPICALLY REQUIRE FEWER RESOURCES

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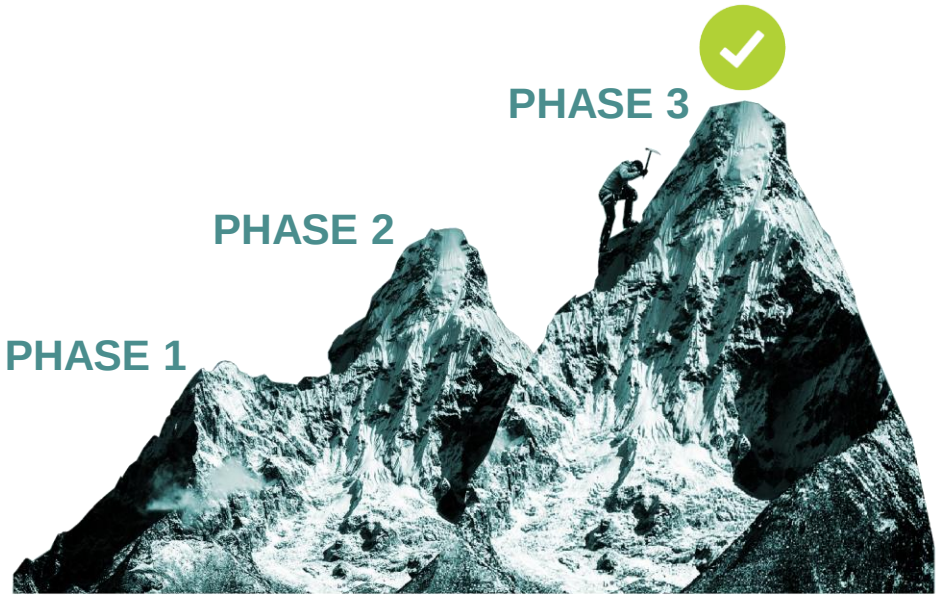
A QUICKER, CHEAPER ROUTE TO MARKET

TRADITIONAL TRIALS



TRUNCATED TRIALS

$

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CASE STUDY : FOLOTYN

- Developed by Allos, acquired by Spectrum Pharmaceuticals
- For relapsed & refractory Peripheral T-cell lymphoma
  - » 5,600 cases/year in US
- Approved on overall response rate of 27%
- Currently priced at US$450,540 per patient, per year

FOLOTYN (pralatrexate injection)

Prescient Therapeutics

12 MONTHS GOALS AS SET OUT AT 2017 AGM

- Removal of clinical hold on PTX-200 breast cancer trial
- Final data on the Phase 1b PTX-200 breast cancer trial
- Continuing Phase 2 PTX-200 breast cancer trial
- Manufacturing run of PTX-100 and additional inventory of PTX-200
- Pre-clinical work in PTX-100 in RhoA mutant cancers
- Completion of PTX-200 AML Phase 1b trial
- Completion of PTX-200 ovarian cancer Phase 1b trial
- Re-entering the clinic with PTX-100
- Continuing to build awareness among investors, clinicians and corporates

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INVESTMENT SUMMARY

- Multiple shots on goal with novel targeted (precision) cancer therapies
- Robust body of science underpinning programs
- Great scientific and clinical team with a proven record of success
- Transformative opportunity in Ras/Rho mutant cancers
- Following in the footsteps of US targeted therapy companies that have enjoyed spectacular success
- Multiple catalysts this year
- Encouraging efficacy signal in Ph1b breast cancer

Prescient Therapeutics

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