





Forward-Looking Statements

This presentation contains forward-looking statements. Actual events or results may differ materially from those projected in any of such statements. Additional information concerning factors that may cause actual events or results to differ from those projected is contained in the Company's most recent 20-F and 6-K filings, as well as other subsequent filings with the SEC and Nasdaq.

Novogen: the bare facts

Dual listing: ASX ('NRT') & Nasdaq ('NVGN')

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    ↑ 1994 ASX
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♦ 1998 Nasdaq

♦ 2001 IPO subsidiary MEI Pharma Inc.

♦ 2012 Reverse takeover by Triaxial;

separation from MEI Pharma

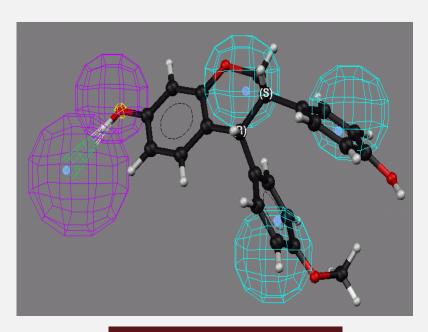
Offices: Sydney, Australia and New Haven CT.

Drug discovery company:

- Oncology
- Regenerative medicine
- Degenerative diseases
- Autoimmune diseases

What does an investment in Novogen give me?

Two first-in-class drug technologies Two new drug targets



Super-Benzopyrans

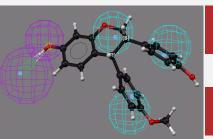


Anti-Tropomyosins



What does an investment in Novogen give me?

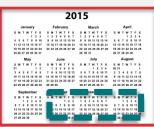
....and a pipeline of 3 'clinic ready' oncology drugs



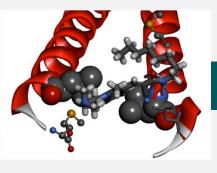
Cantrixil

TRXE-009

- Malignant ascites
- Malignant melanoma
- Paediatric brain cancers



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Anisina

- Prostate cancer
- Neuroblastoma



What distinguishes Novogen?

Taking the path less travelled Two important new drug targets Broad, not limited, cancer spectrum

Cytotoxic chemotherapy

Pros:

- It works
- It's a validated means of treating cancer

Cons:

- Many cancers are insensitive
- Low response rate in many cancers
- Development of drug-resistance
- Highly off-target → toxic
- No effect on cancer stem cells
 - → tumor recurrence

Why we need to do something

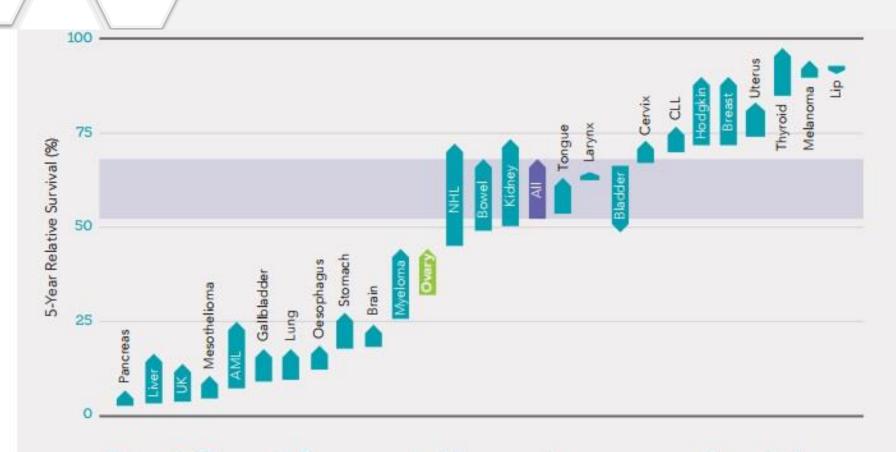
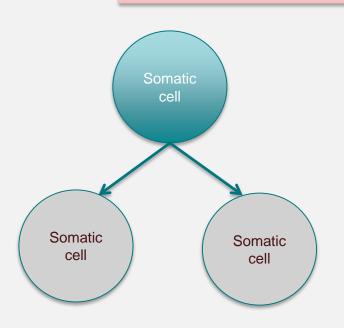
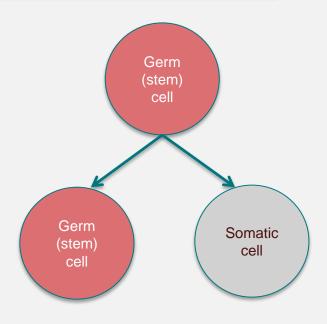


Figure 1: Change in 5-year survival from ovarian cancer over the period 1982-87 to 2006-2010: comparison with other cancers in women.¹

Abbreviations: AML = Acute myeloid leukaemia, NHL = Non-Hodgkin lymphoma, CLL = Chronic lymphocytic leukaemia, Melanoma = melanoma of the skin,

Tumors are heterogeneous

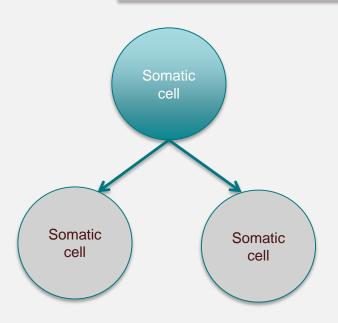




Symmetric Division

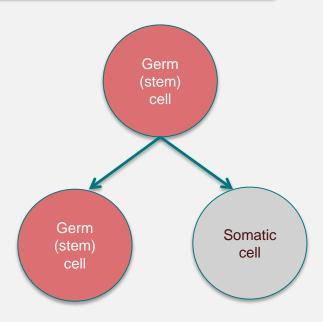
Asymmetric Division

Tumors are heterogeneous



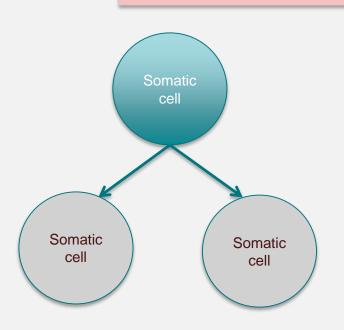


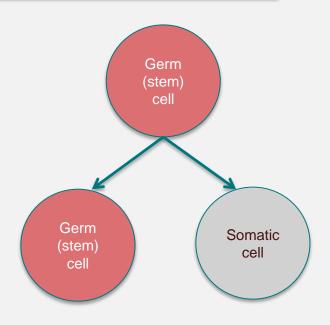
- Finite lifespan
- Bulk of tumors



- Slowly dividing
- Indefinite lifespan
- Self-replicate

Tumors are heterogeneous

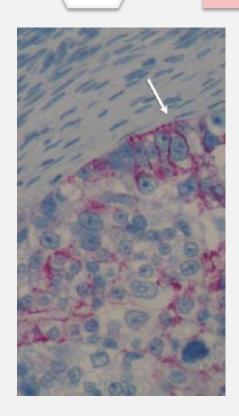




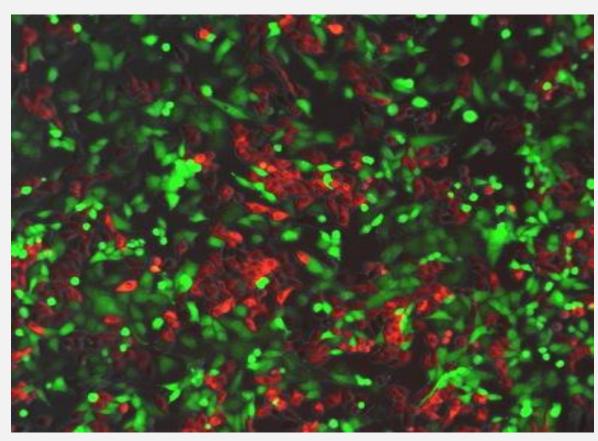
CAN RESPOND to chemotherapy and radiotherapy

DO NOT RESPOND to chemotherapy and radiotherapy

Tumors are heterogeneous



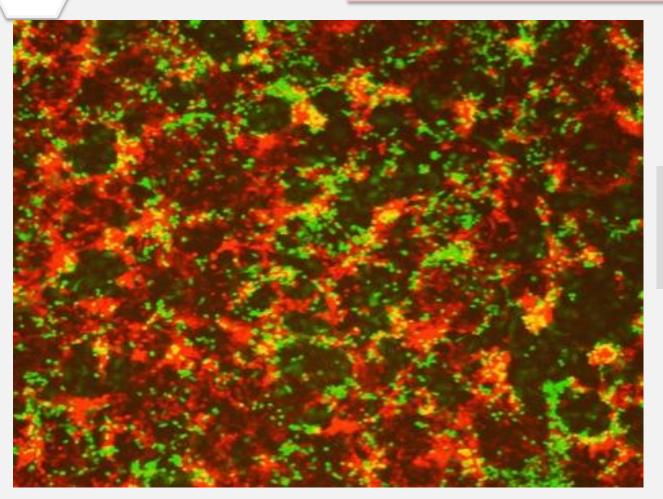
Human ovarian cancer biopsy. Red stain = cancer stem cells



Fresh co-culture of ovarian cancer stem cells (GREEN) and daughter (somatic) cancer cells (RED)

Photos courtesy of Prof G Mor Yale Medical School

Tumor heterogeneity

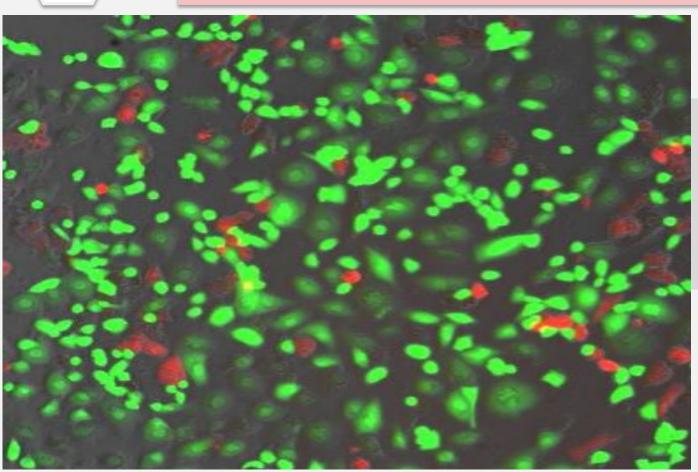


Co-culture after 3 days

Daughter cancer cells dominate due to more rapid expansion.

Photos courtesy of Prof G Mor Yale Medical School

Cancer stem cells insensitive



Co-culture after addition of Paclitaxel.

Daughter cancer cells largely have died.

Cancer stem cells continue to proliferate.

Photos courtesy of Prof G Mor Yale Medical School

The challenge

Meaningful improvements in cancer patient survival and conversion of malignant cancer into a chronic manageable disease requires:

eradication of the cancer stem cell population to prevent tumor propagation and tumor recurrence

more effective debulking of the somatic cancer cell population in more cancer types and in more patients





- > In more cancer phenotypes
- > In more individuals
- > In a more effective way

Cytotoxic to the FULL HIERARCHY of cells within a tumor

BUT

with a preferential ability to kill CANCER STEM CELLS.

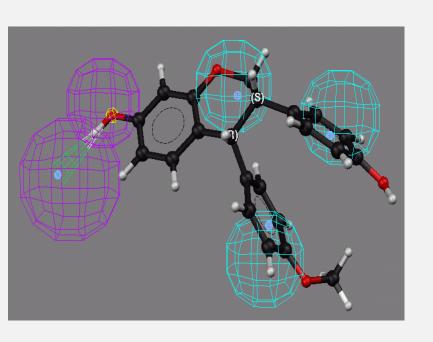
Super-Benzopyrans

First-in-class drug targeting the cancer cell's skeleton.

Synergizing the action of antimitotics (taxanes/vinca alkaloids) to provide greater somatic cancer cell killing

ANISINA



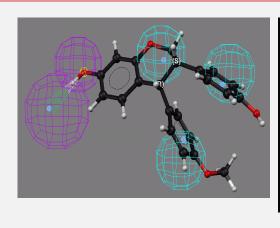


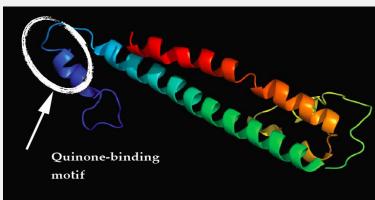
Super-benzopyrans

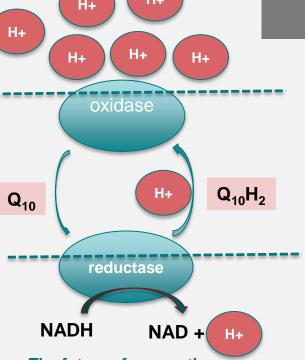
Small molecule cytotoxic

Platform #1: SUPER-BENZOPYRANS

Inhibiting H⁺ transfer within a cancer cell







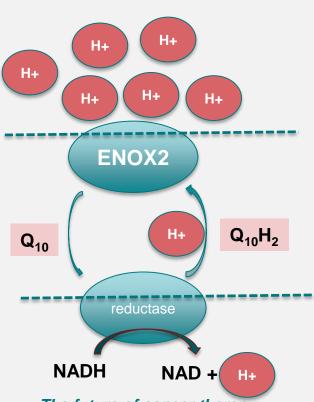
- Constitutive NADH oxidase known as ENOX1
- Splice variant of NADH oxidase located on chromosome Xq25
- > Known as ENOX2.
- > Universal oncogene.



Platform #1: SUPER-BENZOPYRANS

TRXE-002

Introducing a new concept of secondary (or enabling) mutations



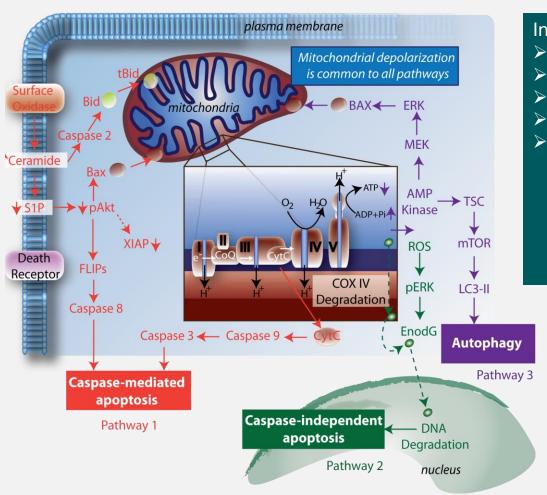
Enabling mutations:

- Common to all tumor phenotypes
- Common to both cancer stem cells and their daughter cells
- Multiple isoforms
- Highly on-target effect



Platform #1: SUPER-BENZOPYRANS

Multi-pathway cytotoxicity



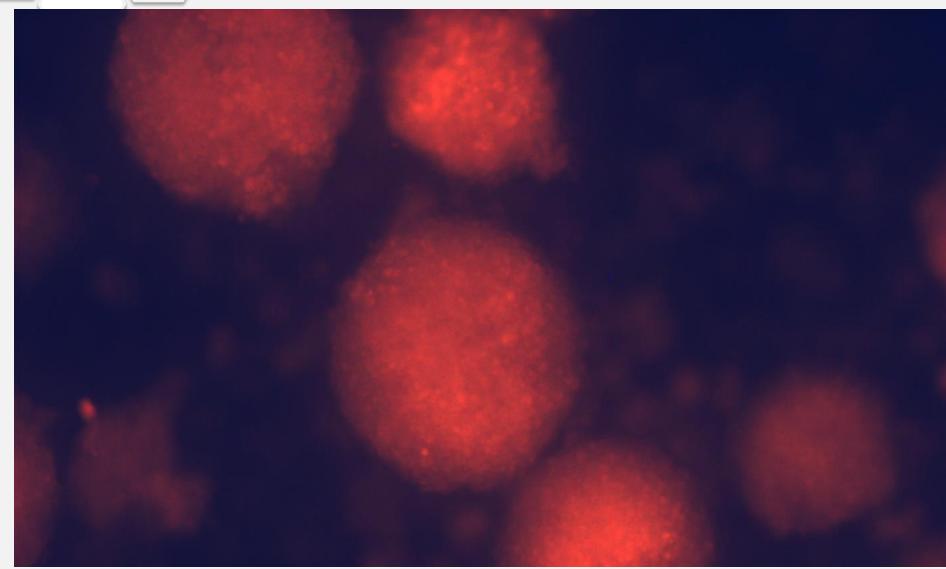
Inhibition of proton pump:

- Loss of trans-membrane electron potential
- > Depolarization of mitochondrial membrane
- Respiratory distress
- Shut-down of ATP production
- Caspase activation

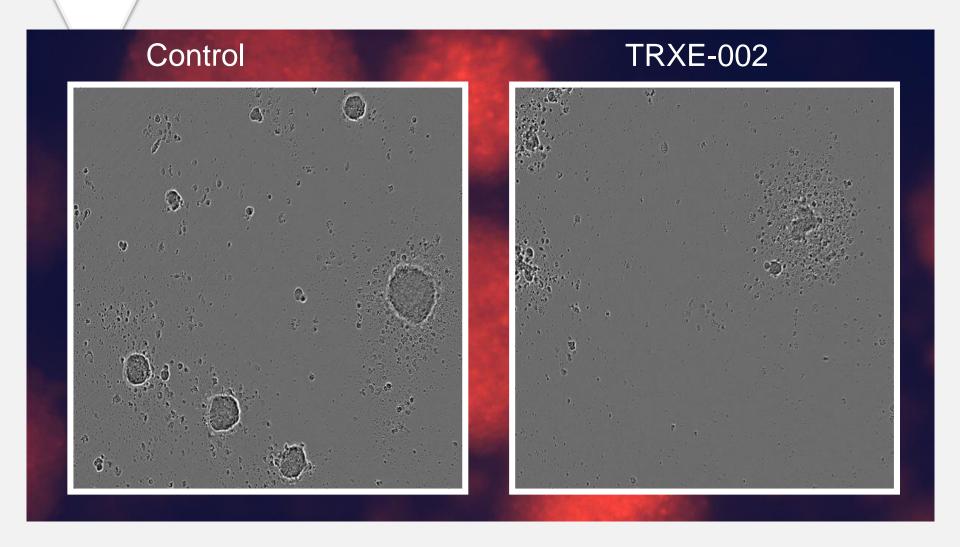


Cell death

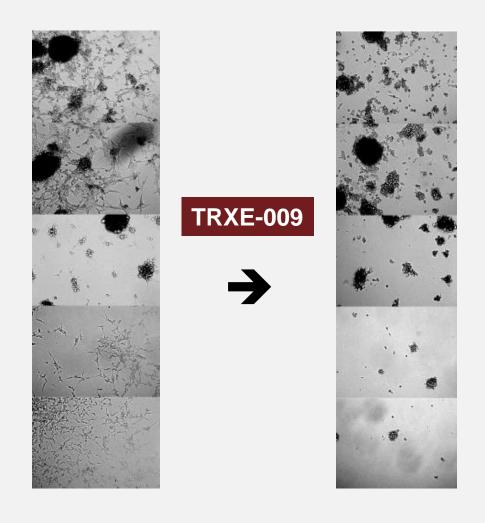
SBPs – efficient killers of ovarian cancer stem cells



SBPs – efficient killers of ovarian cancer stem cells



SBPs – efficient killers of GBM cancer stem cells



SBPs: structure = phenotype preference

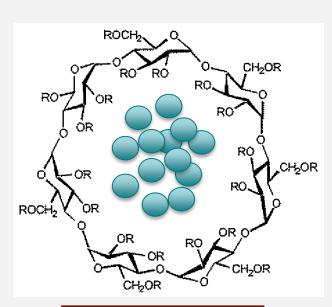
TRXE-002

- Ovarian cancer
- Colo-rectal cancer

TRXE-009

- > Glioblastoma
- > Medulloblastoma
- Diffuse intrinsic pontine glioma
- Neuroblastoma
- ➤ Melanoma (B-Raf positive and negative)
- ? Neural tube/neural crest cancers

Cantrixil: proof of concept



Construct of TRXE-002 in Captisol



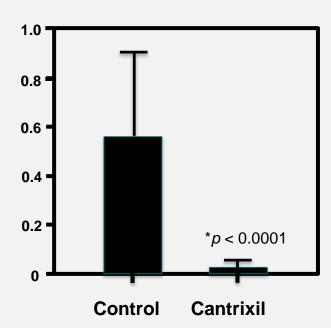




control

Cantrixil





Cantrixil







First purpose-built intra-cavity chemotherapy



Peritoneal cavity

Malignant ascites

Pleural cavity

Malignant pleural effusion



Cantrixil

Malignant ascites



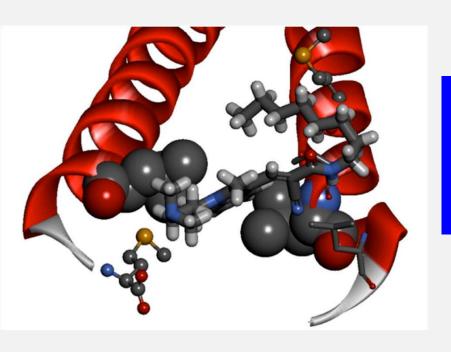
- > 20-50% of all cancer patients develop malignant ascites.
- > No standard of care; currently palliative treatment only.
- > 2-6 month median survival time.

Cancers arising within abdomen:
Ovary, uterine, colo-rectal, pancreatic, gastric

Cancers arising outside of abdomen:
Breast, melanoma, mesothelioma, lymphoma



Platform #2: ANTI-TROPOMYOSINS



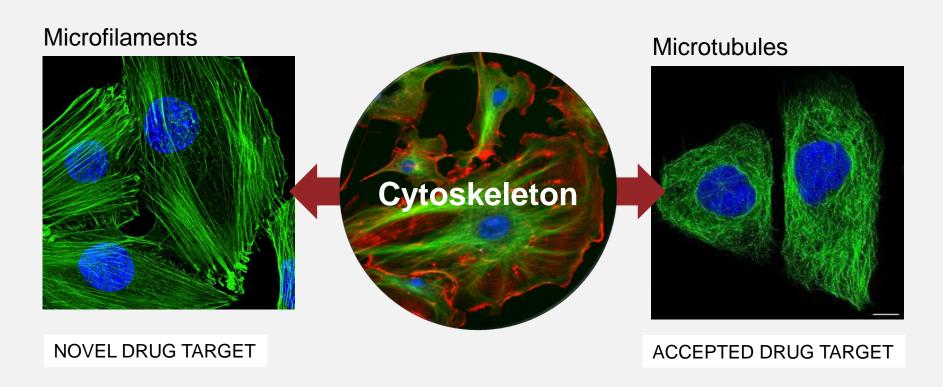
Anisina

Small molecule cytotoxic



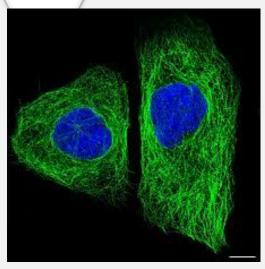
The cytoskeleton: a key drug target

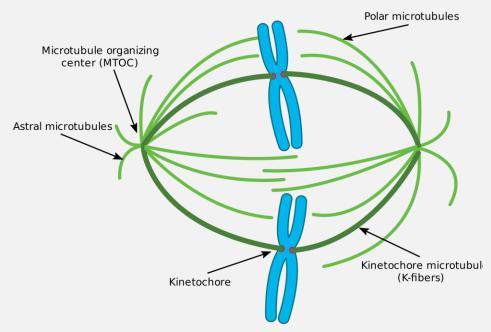
- > Cell shape, cell signaling, cell movement
- >Cell division



Microtubules: essential for mitosis

Microtubules





Anti-microtubule cancer drugs are a drug development success story despite:

- Limited sensitivity of cancer phenotypes
- Rapid development of drugresistance
- Significant toxicity

Taxanes:

- ◆ Paclitaxel
- Docetaxel
- **♦** Abraxane

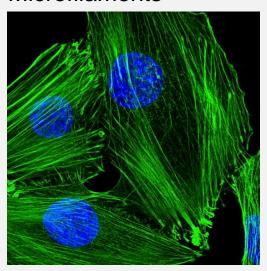
Vinca alkaloids:

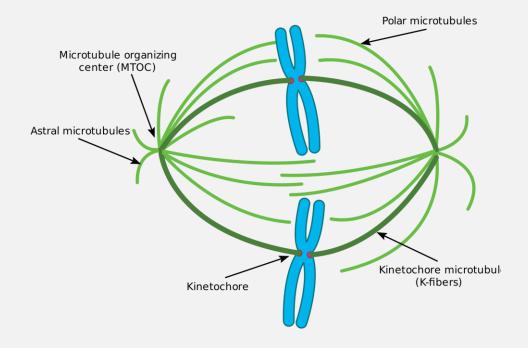
- **♦** Vincristine
- **♦** Vinblastine
- **♦** Vineralbine



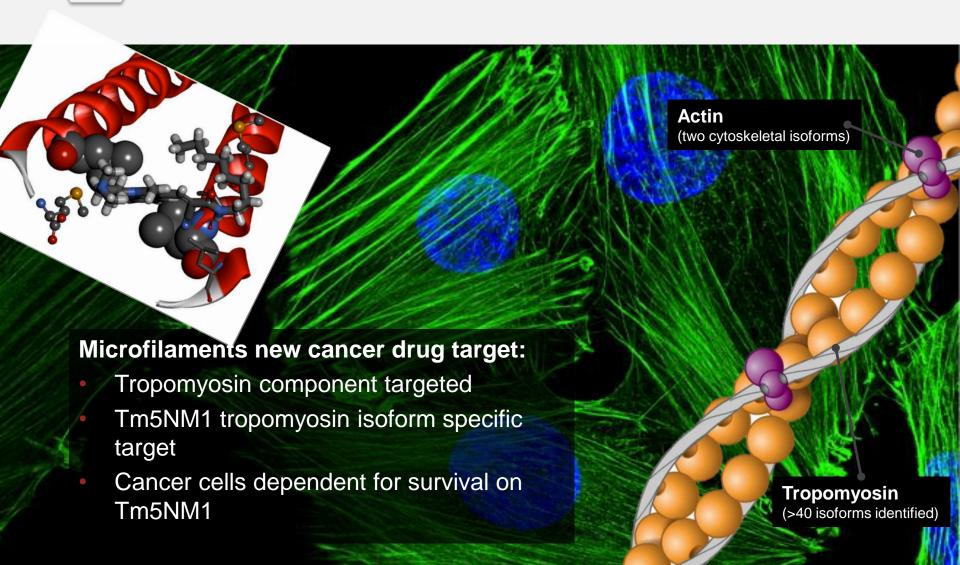
Microfilaments: also essential for mitosis

Microfilaments



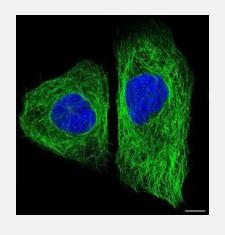


Microfilaments: also essential for mitosis



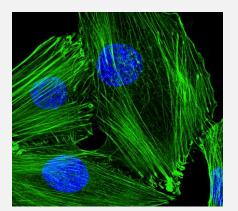
Inhibiting microtubules + microfilaments

Providing the first opportunity to comprehensively destroy the cancer cell's cytoskeleton



Anti-cancer potency of taxanes or vinca alkaloids = 1

Anti-cancer potency of anti-tropomyosins = 1



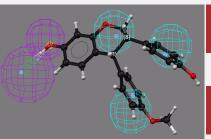
Synergy:

Anti-cancer potency of anti-tropomyosin + taxanes/vinca alkaloids = 100



What does an investment in Novogen give me?

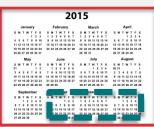
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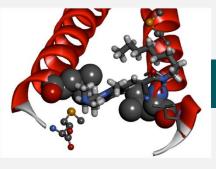
Cantrixil

TRXE-009

- Malignant ascites
- Malignant melanoma
- Paediatric brain cancers



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Anisina

- > Prostate cancer
- Neuroblastoma



www.novogen.com