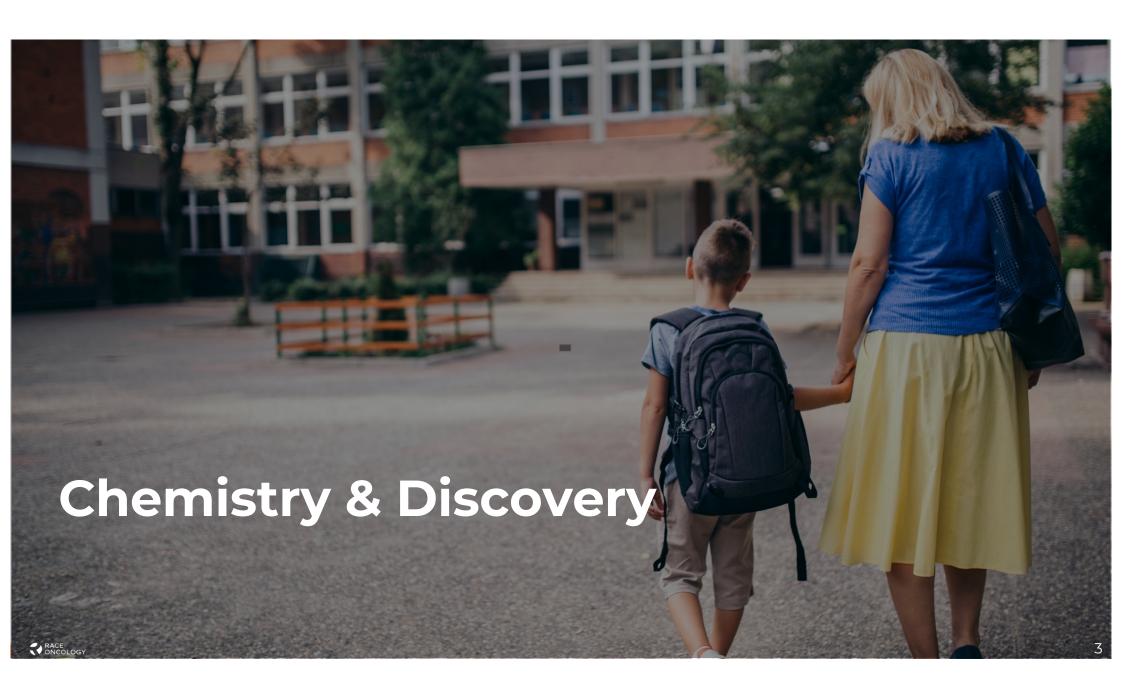


Overview

- Bisantrene found to consist of three photoisomers with different biological and anticancer activities, which rapidly interconvert upon exposure to visible light.
- Race has created a range of manufacturing and physical processes to only infuse the pure active (E,E)-bisantrene isomer into patients.
- Three patent applications filed.
- Granting of a composition of matter patent would protect (E,E)-bisantrene for 20 years.
- Composition of matter patents the most valuable IP in the pharma industry as they cover the chemical structure of the active drug in any formulation or dosage form.

(E,E)-Bisantrene



Bisantrene - Chemical Structure

Bisantrene Chemical Structure

All atoms and bonds showing

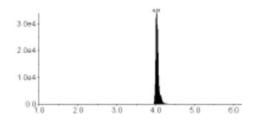
Chemist's Representation

Bisantrene – Possible Isomers

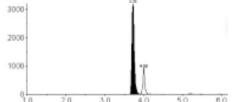
(Z,Z)-Bisantrene

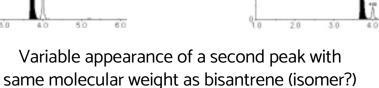
Bisantrene Isomerism - First observations

- Results from a toxicology study in animals
 - Measured bisantrene in the blood by liquid chromatography/mass spectrometry (LCMS)



Bisantrene = 1 peak (expected)



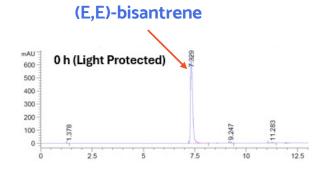


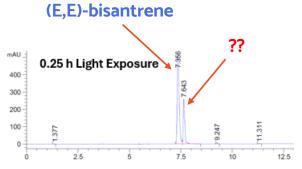
Hypothesis: Metabolism? No.

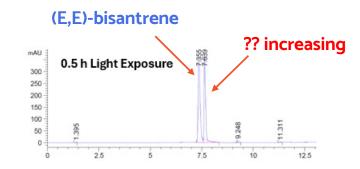
What about variable exposure to light?

Detective Work (Race Team)

• Dissolve pure (E,E)-bisantrene in water, expose it to light and monitor by HPLC



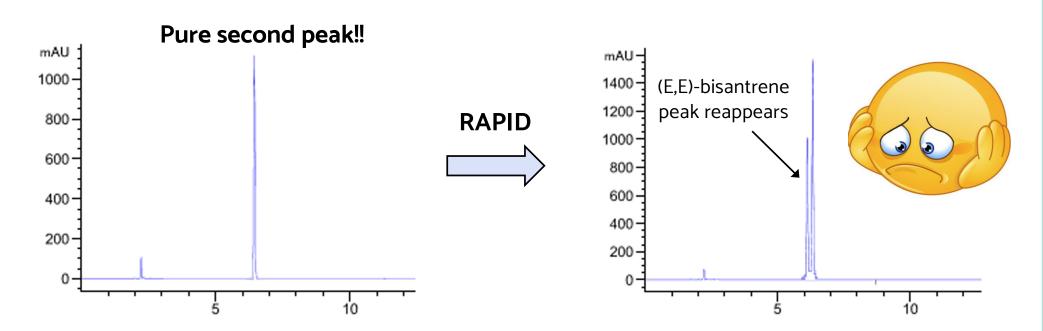




• **Observation:** Visible ambient light triggers rapid formation of the ?? second peak.

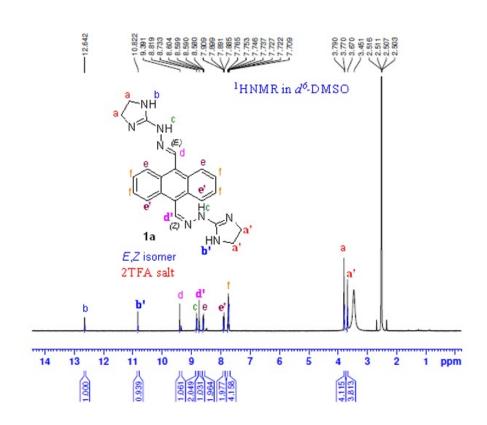
Detective Work - What is the Second Peak?

• To identify the second peak need to isolate a pure sample



Detective Work – Voila! It's (E,Z)-bisantrene

¹H Nuclear Magnetic Resonance (NMR) analysis unambiguously proved the second peak is (E,Z)-bisantrene



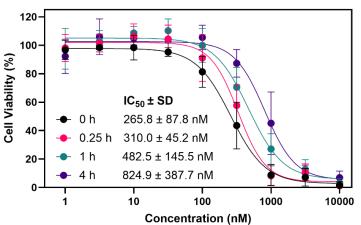
Bisantrene – Photoisomerism

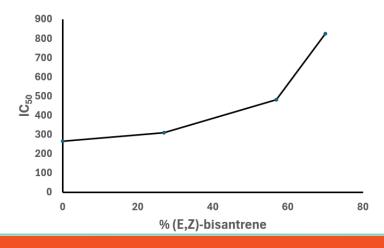
(E,Z)-Bisantrene has low anticancer activity

- Expose pure (E,E)-bisantrene solution to light for different amounts of time to make different isomer mixtures
- Test the different isomer mixtures for ability to kill MDA-MB-231 breast cancer cells

O h
 100% (E,E), 0% (E,Z)
 O.25 h
 73% (E,E), 27% (E,Z)
 43% (E,E), 57% (E,Z)
 4h
 ~30% (E,E), ~70% (E,Z)

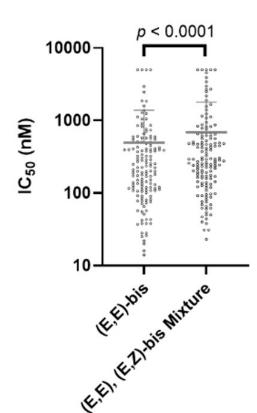
Cytotoxicity Testing





(E,Z)-bisantrene has low anticancer activity

 Measure how well an (E,E), (E,Z)-bisantrene mixture kills 143 individual cancer cell lines from 23 different tissue types compared to pure (E,E)-bisantrene



(E,E)-bisantrene: 100% (E,E), 0% (E,Z)

(E,E), (E,Z)-bisantrene mixture: 58% (E,E), 42% (E,Z)



Composition of Matter IP

- Composition of matter patent claims protect the chemical structure of the active drug
- Strongest IP possible in the pharmaceutical industry
- Composition of Matter IP drives significant value uplift for any drug. Why?
 - No generic competition until end of Composition of Matter patent
 - Possibility of additional 5-year patent extension
 - Can't be worked around by changing the formulation
- Patent life critical
 - Longer the better increases net present value of drug



What is Required for a Patent?

Novelty Non-Obviousness Utility Only discovered through careful scientific observations and follow-up R&D Non-Obviousness Utility Only (E,E)-isomer active

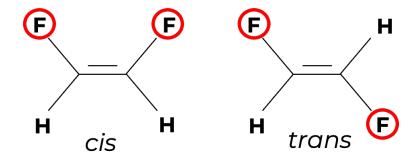
Race Oncology has filed three isomer patents:

- (i) Isomeric Forms of Bisantrene
- (ii) Pharmaceutical Compositions Suitable for Intravenous Administration
- (iii) Process for Manufacturing High Purity (E,E)-Bisantrene



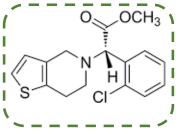
Isomer Mixture Drugs

- European Medicines Agency (EMA) no longer approving drugs consisting of isomer mixtures – none since 2016
- FDA demands you provide strong evidence for why your API is not a single isomer
- Why single-isomer drugs are better than mixtures?
 - Reduced dosing requirements
 - Reduced toxicity and side effects
 - Reduced drug-drug interactions
 - Simpler, better-defined pharmacodynamics and pharmacokinetics
- Examples



Plavix® (Clopidogrel)

- Antithrombotic and antiplatelet drug
- Original patent (1983) was an isomers mixture
- Later patent (1988) only claimed (S)-isomer
- Approved by FDA as a pure (S)-isomer
- Over its 1988 patent life, Plavix® generated US\$42.8B in revenue



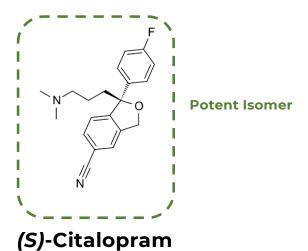
Pharmacologically active isomer

(S)-Clopidogrel

(R)-Clopidogrel

Lexapro® (Escitalopram)

- Used for the treatment of depression
- Citalopram was approved in 1998 as isomer mixture
- (S)-isomer later found to be 100 times more potent than the (R)-isomer and patented
- (S)-Citalopram (Escitalopram) was approved in 2002
- Over its patent life, Lexapro generated US\$13.8B in revenue



(R)-Citalopram

Commercial significance



RC220

- From a partnering point of view, composition of matter patent claims are very valuable
 - Ensure that no other formulation can enter the market even if clinical studies are conducted
 - Any other (E,E)-bisantrene containing formulation would infringe Race patents
 - Other bisantrene formulation would be unapprovable or be captured by our IP
- Provides a unique position of having a broadly active cancer drug with solid IP protection if granted
- Adds to the building safety data with RC220
 - Efficacy and cardioprotection data to follow from RAC-010 study



RC110 in acute myeloid leukemia (r/rAML)

Phase II trials of (E,E)bisantrene RC110 in r/r AML

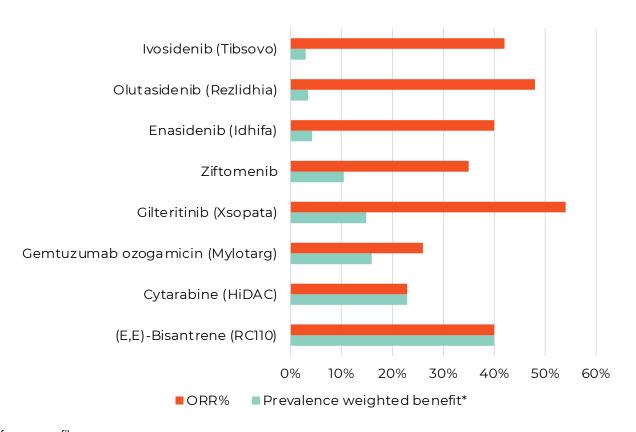
- RC110 as a mono agent: **40% overall response** rate.¹
- RC110 in combination with purine nucleoside antimetabolites: 40% overall response rate.²
- RC110 is an effective salvage agent in late-stage, very heavily pre-treated r/r AML patients.
- I. Canaani J. Danylesko I, Shemtov N, et al. Eur / Haematol. 2021;106(2):260-266
- 2. Danylesko I, Shimoni A, Avigdor A, et al. Br J Haematol. 2025;00:1-10

Composition of matter patent would provide strong IP protection of the RC110 formulation





Performance of Second Line Mono Agents in AML



RC110 offers the highest prevalence weighted benefit as a mono agent therapy for r/r AML patients

RC110 could readily enter a registrational Phase 3 trial in r/r AML[†]

References on file.

ORR, overall response rate. * Prevalence weighted benefit for ORR accounts for patient eligibility based on the prevalence of targeted gene mutations/rearrangements (eg, *IDH1, IDH2, FLT3, NPM1, KMT2*Ar) or overexpressed proteins (eq, CD33+) in r/r AML.

† The cost of such a trial exceeds current resources and would likely require financial support from a pharma partner.



Potential to Partner RC110

- RC110 has been very effective in recent studies in AML
- Bisantrene was not protected by strong intellectual property
 - Only orphan drug designation 7 years of exclusivity
 - Once orphan protection period expired generic RC110 competing with RC220
 - Limited the interest in future development of this formulation
- Composition of Matter IP covering (E,E)-bisantrene would provide strong protection of RC110
- Provides a potential path to a Phase 3 trial in AML
 - Both RC110 and RC220 can be marketed via careful positioning
 - Beyond the resources of Race and larger opportunity with RC220 (cardioprotection)
- RC110 may now be of interest to potential pharma partners with a focus in hematology or orphan diseases



Conclusion

- Bisantrene can exist in three isomeric forms (E,E), (E,Z) and (Z,Z)
 - Photoisomerisation not known prior to Race's discovery
- Only (E,E)-bisantrene (RCDS1) shown to have potent anticancer activity
- Race is using pure (E,E)-bisantrene in its RC110 and RC220 formulations
 - RAC-010 protocol includes protecting the drug from light
- Three patent applications filed on isomers, including one with composition of matter (CoM) claims
- Patent counsel advice is these patents meet the three requirements for allowance
 - Non-obviousness
 - Novelty
 - Utility
- Expedited review process for rapid assessment
- CoM claims are the strongest IP protection and if granted will add significantly to value any future licensing or partnering transactions



Questions

Race Oncology

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