— mAbs Therapeutics, Inc.

SADA Technology Platform

Liquid Radiation™

Brian H. Santich, PhD

Disclaimer

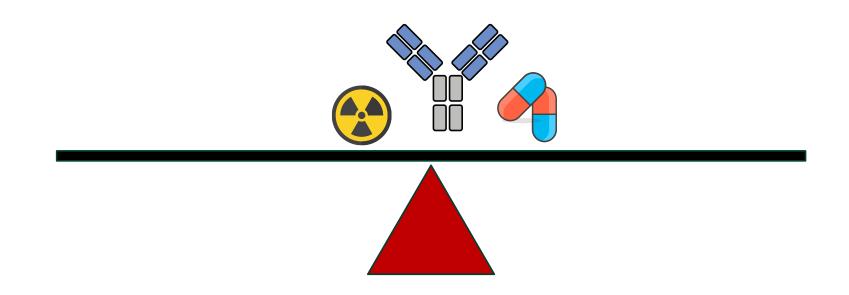
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Medicine seeks to maximize effectiveness while minimizing side effects

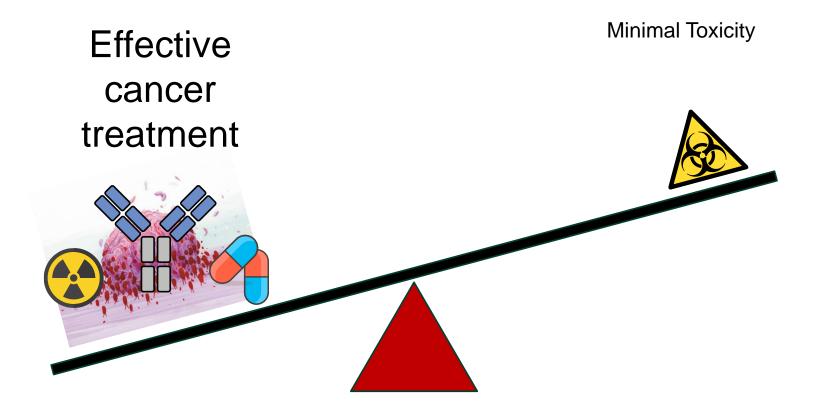
Drugs should kill cancer, but not healthy tissues





Medicine seeks to maximize effectiveness while minimizing side effects

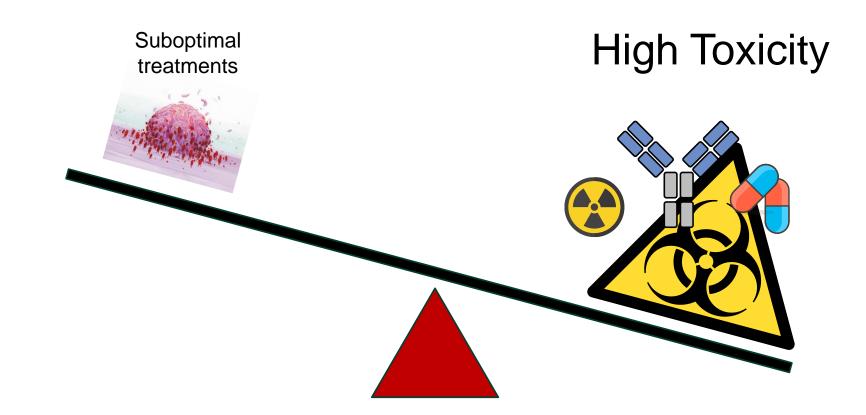
Drugs should kill cancer, but not healthy tissues





Medicine seeks to maximize effectiveness while minimizing side effects

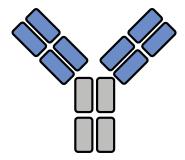
Drugs should kill cancer, but not healthy tissues





Too little at the tumor, too much exposure to healthy tissues

Conventional Monoclonal Antibody

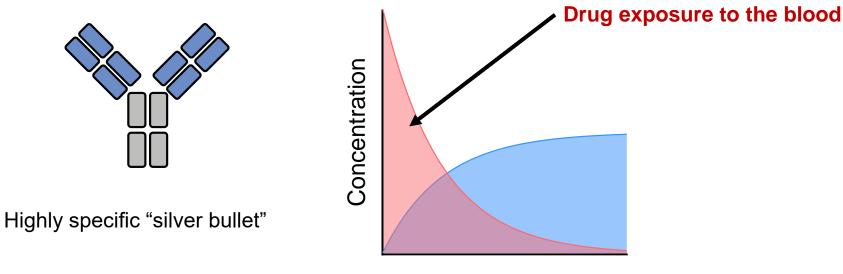


Highly specific "silver bullet"



Too little at the tumor, too much exposure to healthy tissues

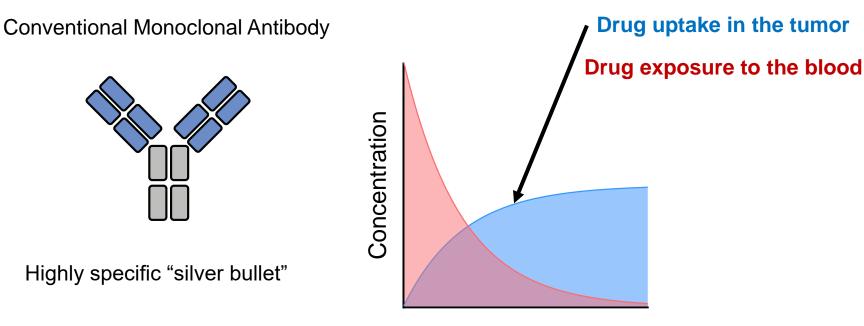
Conventional Monoclonal Antibody







Too little at the tumor, too much exposure to healthy tissues



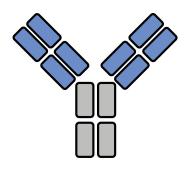
Time



Concentration

Too little at the tumor, too much exposure to healthy tissues

Conventional Monoclonal Antibody



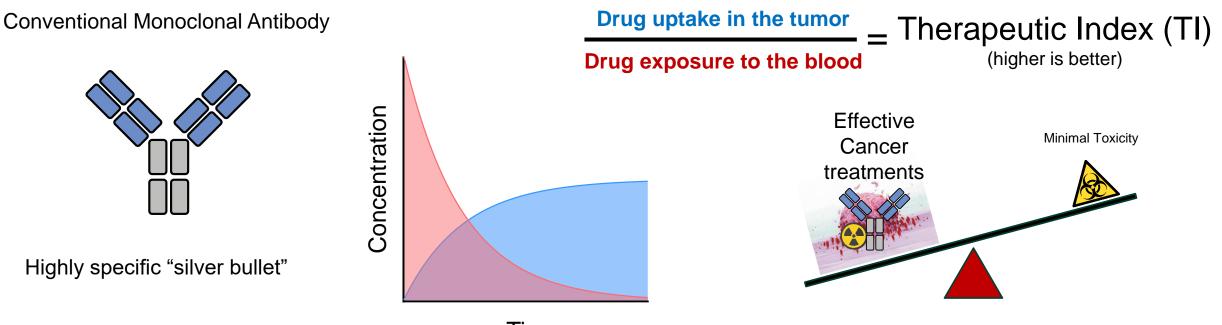
Highly specific "silver bullet"

Drug uptake in the tumor Drug exposure to the blood = Therapeutic Index (TI) (higher is better)

Time



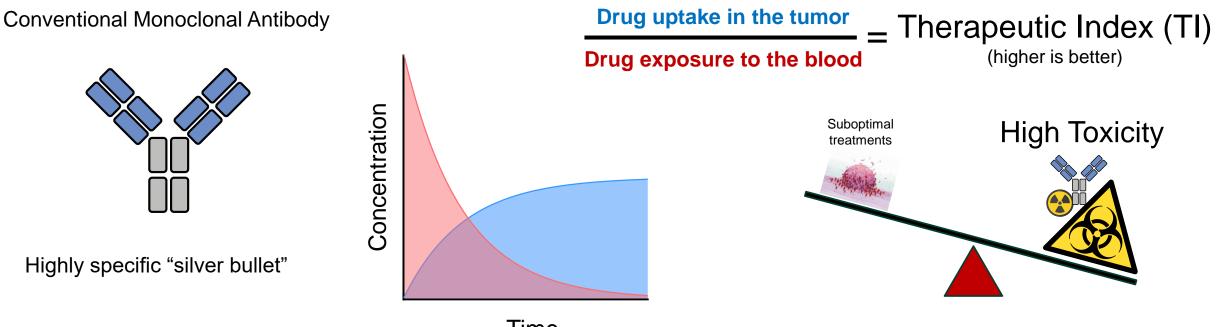
Too little at the tumor, too much exposure to healthy tissues



Time



Too little at the tumor, too much exposure to healthy tissues

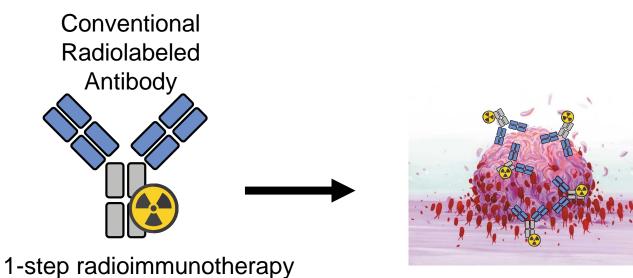


Time



Radioimmunotherapy: a powerful tool that requires precision

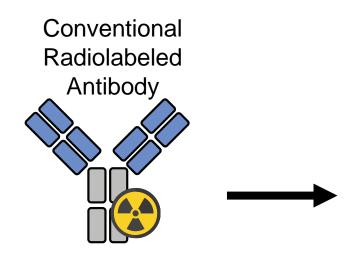
Highly effective against tumors, but also potentially damaging to blood and bone marrow



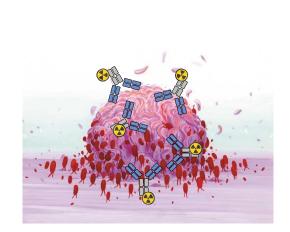
Therapeutics, Inc.

Radioimmunotherapy: a powerful tool that requires precision

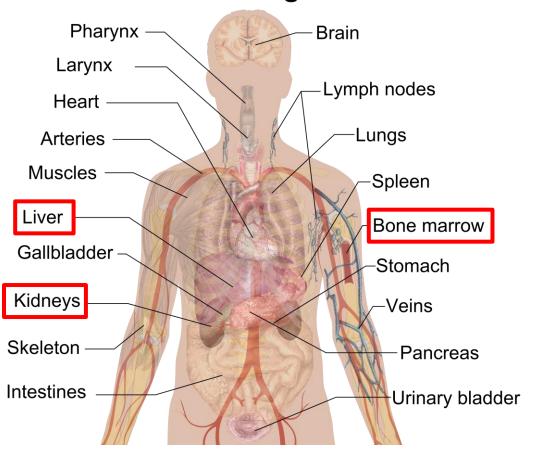
Highly effective against tumors, but also potentially damaging to blood and bone marrow



1-step radioimmunotherapy



Internal organs





Conventional Radioimmunotherapy suboptimal for solid tumors

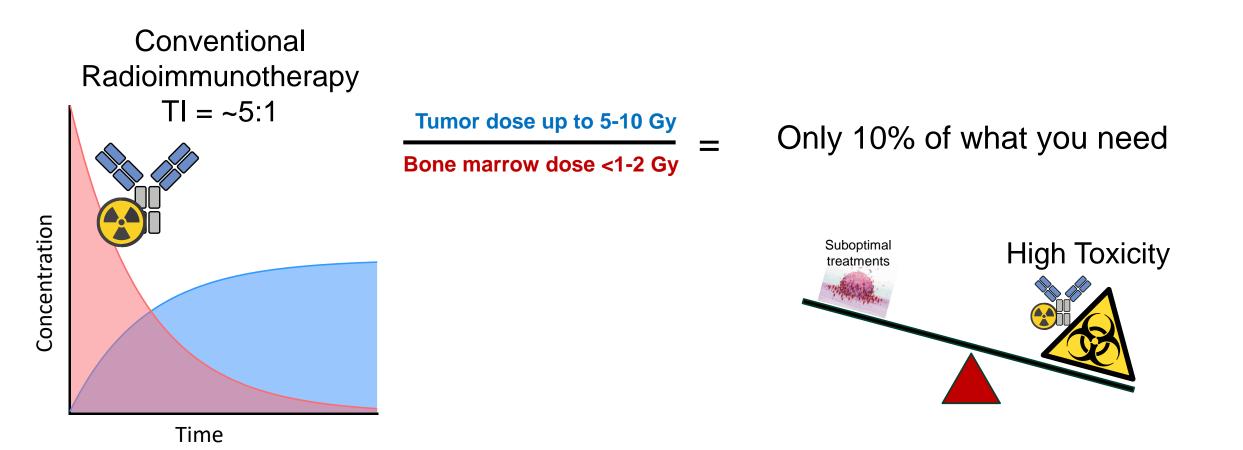
Therapeutic index is too low to be effective

Conventional Radioimmunotherapy Tumor dose up to 100 Gy Therapeutic Index (TI) >50-100:1 Bone marrow dose <1-2 Gy Effective Concentration Cancer Minimal Toxicity treatments Time



Conventional Radioimmunotherapy suboptimal for solid tumors

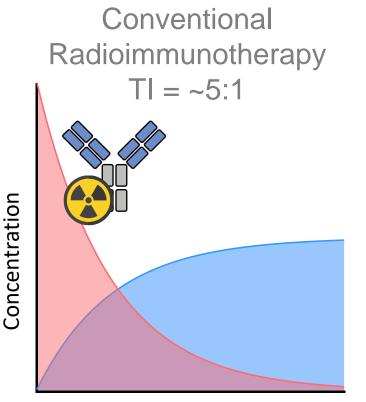
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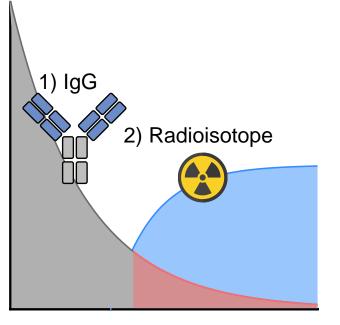
Pretargeted Radioimmunotherapy can improve selectivity

Still suboptimal for many solid tumors





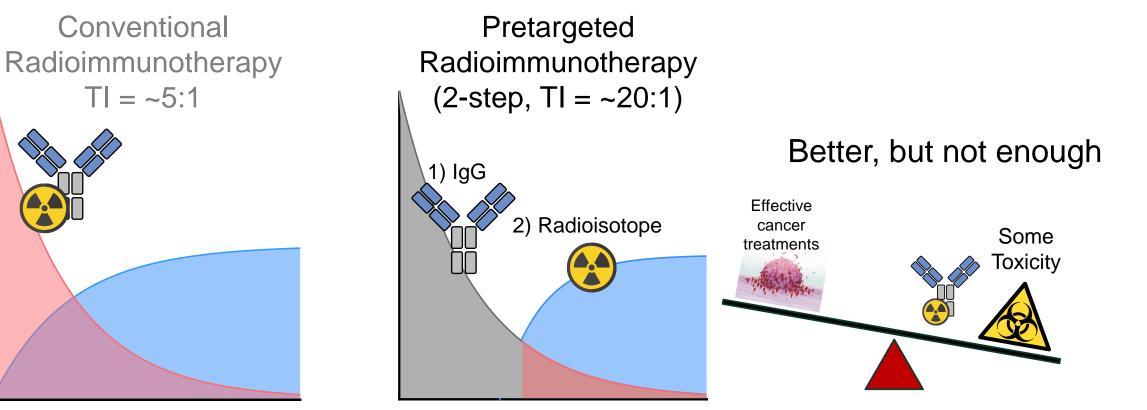
Pretargeted Radioimmunotherapy





Pretargeted Radioimmunotherapy can improve selectivity

Still suboptimal for many solid tumors



Time

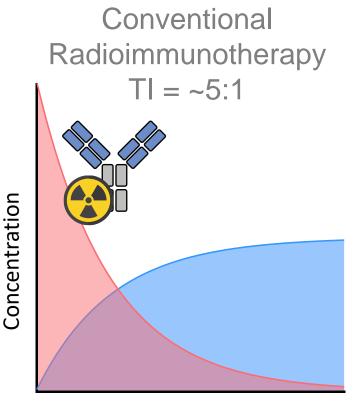
Adapted from Santich et al. Clin Canc Res 2020



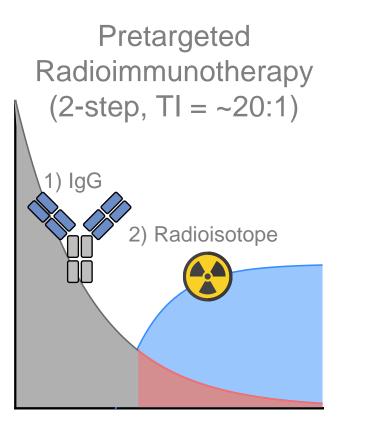
Concentration

Best solution requires a self-clearing pretargeted antibody

Elimination from the blood allows for high tumor doses without bone marrow damage





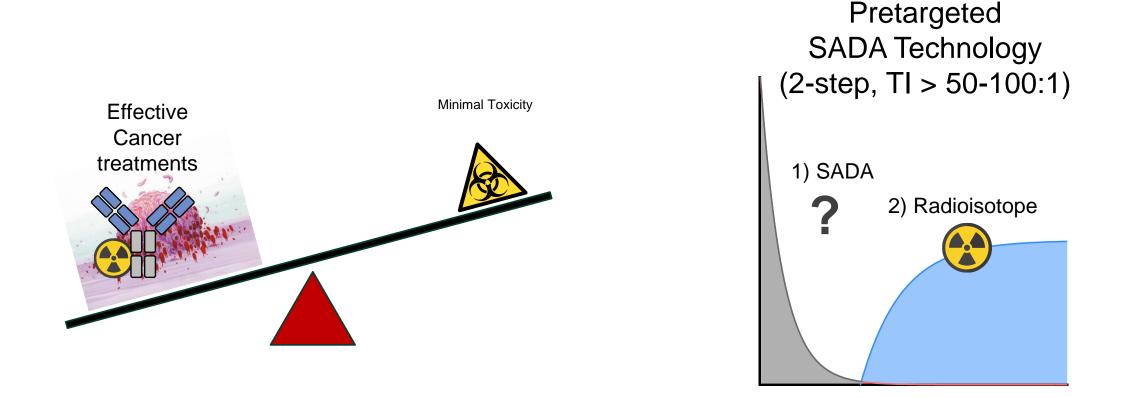


Pretargeted SADA Technology (2-step, TI > 50-100:1)1) SADA 2) Radioisotope



Best solution requires a self-clearing pretargeted antibody

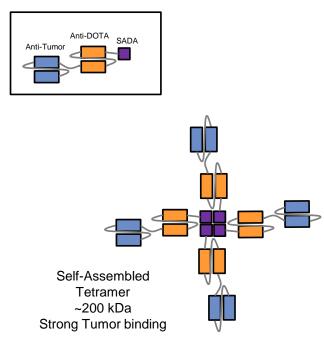
Elimination from the blood allows for high tumor doses without bone marrow damage





SADA Technology engineered to stably bind the tumor, but rapidly clear from the blood

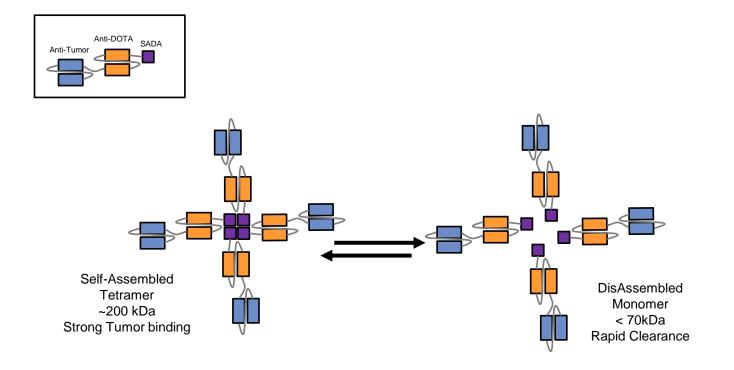
SADA domains uniquely selected to allow proteins to change size based on concentration





SADA Technology engineered to stably bind the tumor, but rapidly clear from the blood

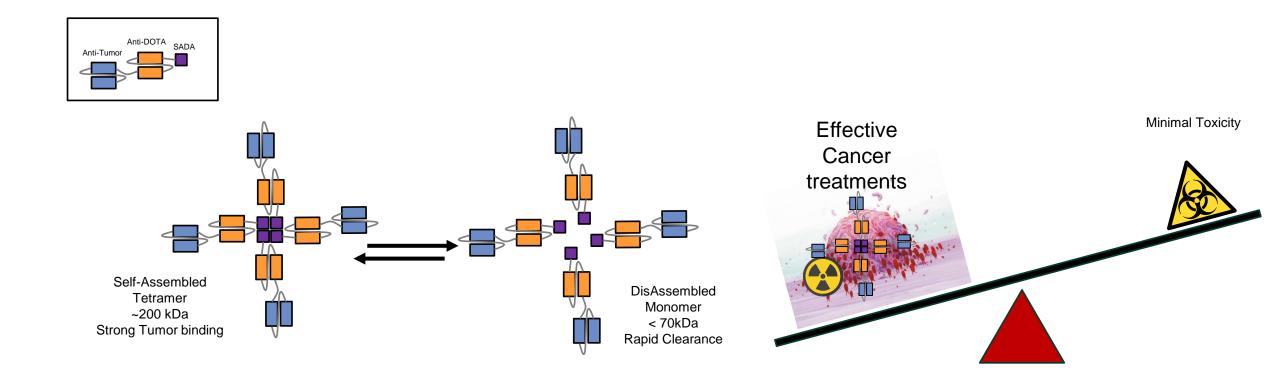
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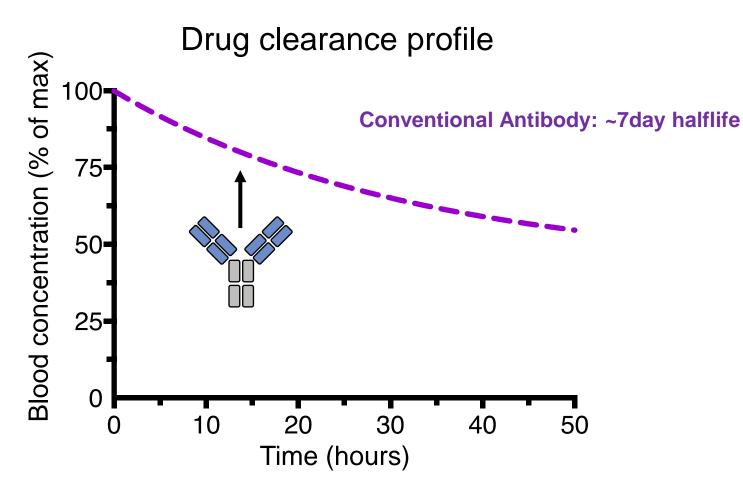
SADA domains uniquely selected to allow proteins to change size based on concentration





SADA Technology demonstrates a unique clearance profile

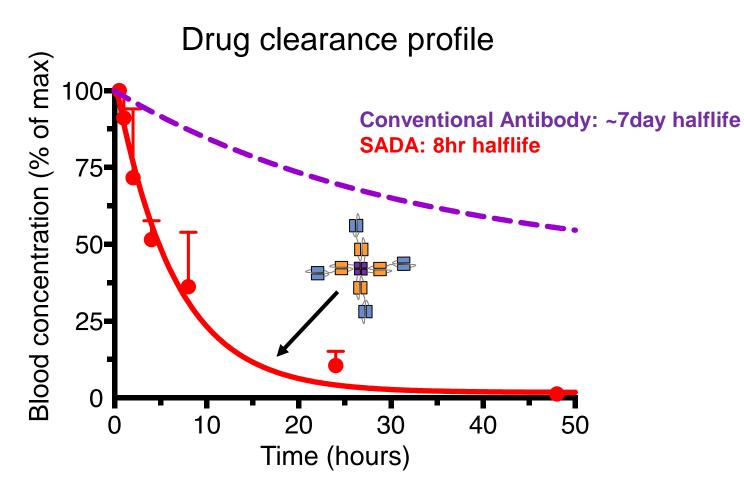
Faster and more complete elimination than conventional antibodies





SADA Technology demonstrates a unique clearance profile

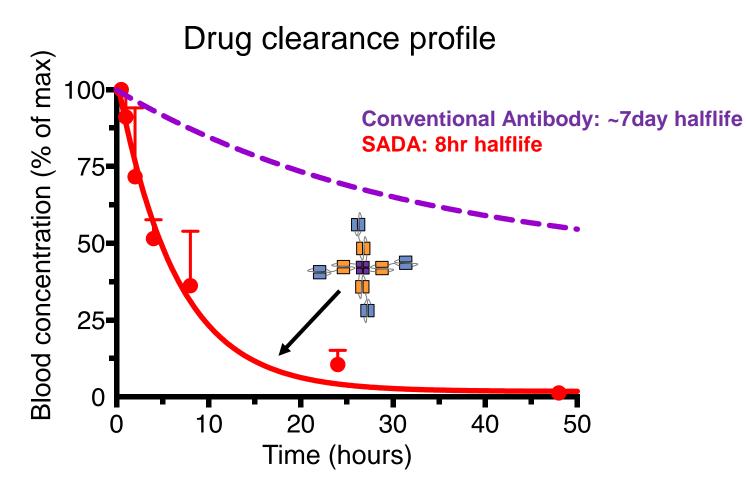
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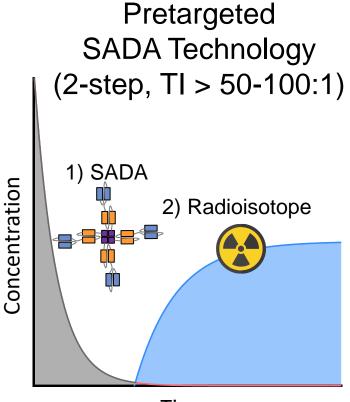




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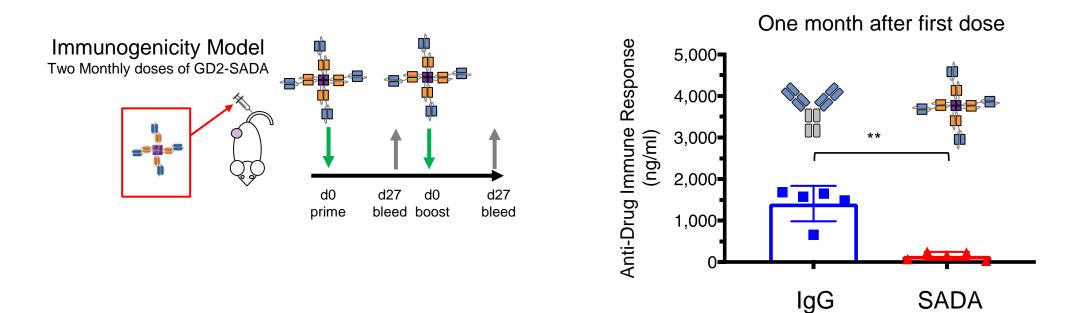


Time



SADA Technology's unique uptake and elimination profile reduces its immunogenicity

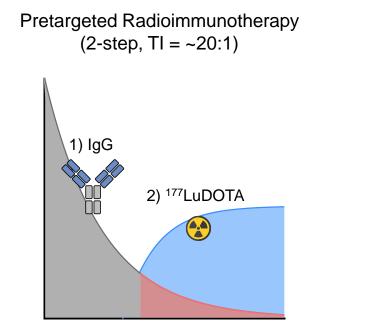
Reduced immunogenicity allows for more flexible treatment schedules



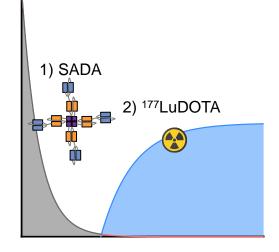


SADA demonstrates high tumor uptake with minimal exposure to all other tissues

Conventional antibody's persistence in blood stream leads to substantial unwanted exposure



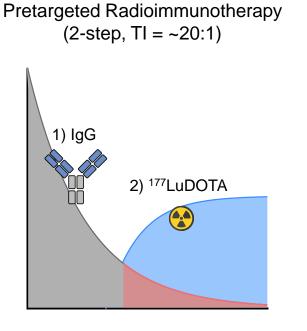
Pretargeted SADA Technology (2-step, TI > 50:1)

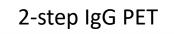


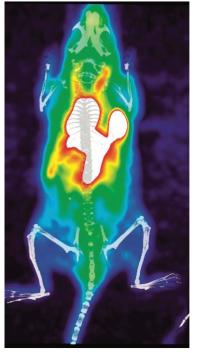


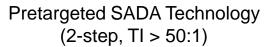
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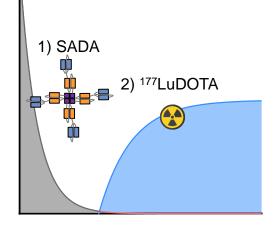
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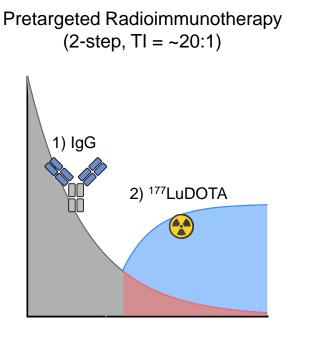


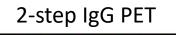


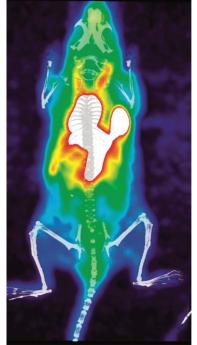


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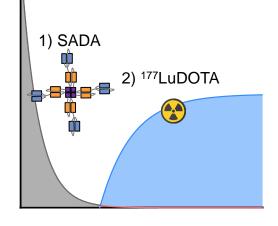
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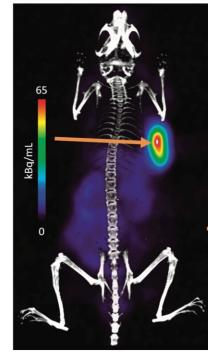




Pretargeted SADA Technology (2-step, TI > 50:1)



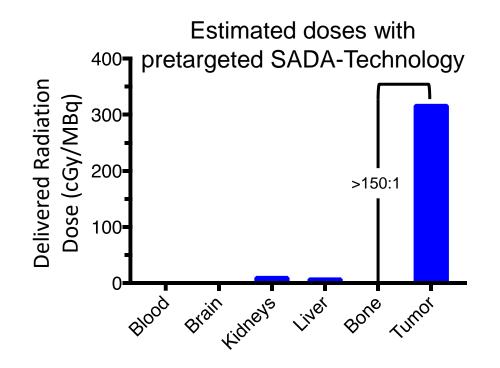
2-step SADA PET

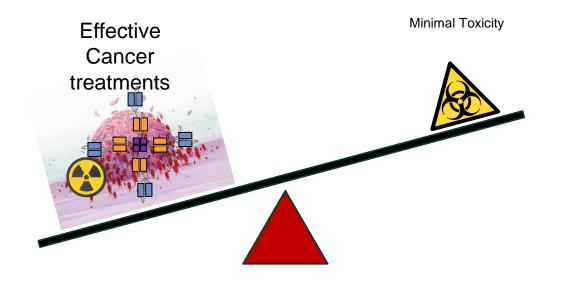




SADA Technology has a therapeutic index of >150 between tumor and bone marrow

Therapeutic index >50 is enough to treat most solid tumors



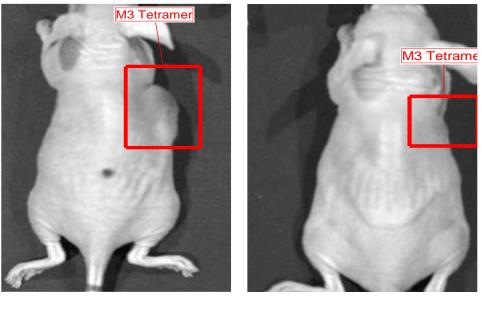




SADA Technology can rapidly shrink large tumors in pre-clinical disease models

Precision drug delivery combined with high potency radiation results in effective treatments

Tumor response after GD2-SADA treatment



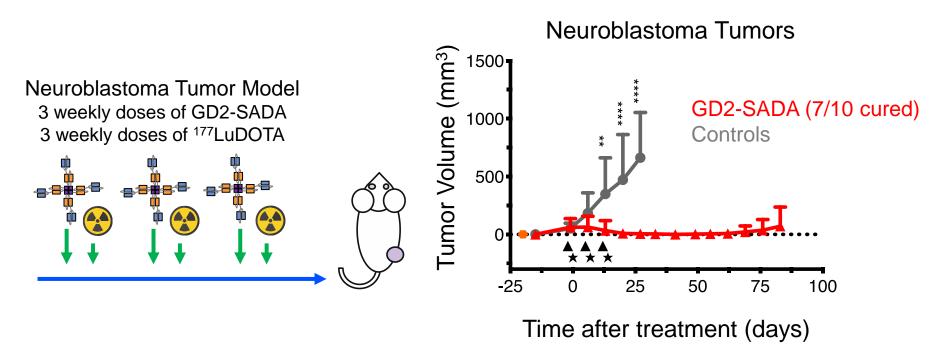
Day 1

Day 10



GD2 targeted SADA can shrink neuroblastoma tumors

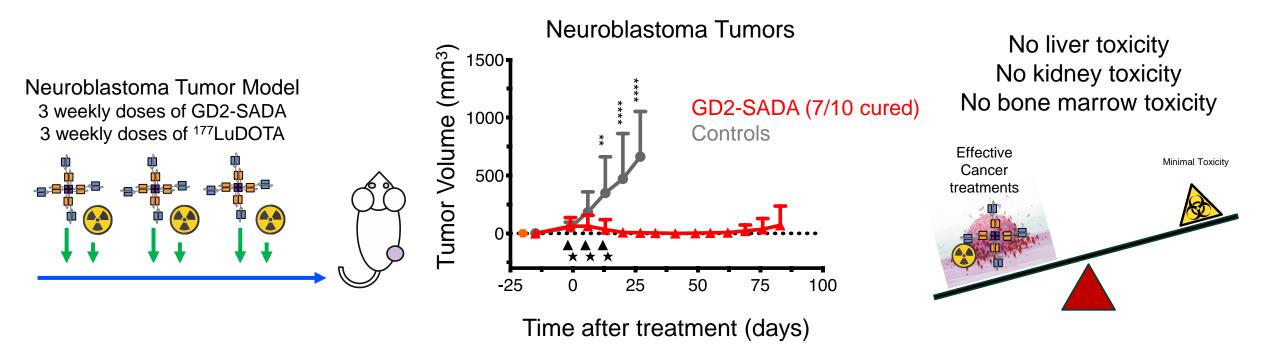
GD2-SADA demonstrated potency without liver, kidney or bone marrow toxicity





GD2 targeted SADA can shrink neuroblastoma tumors

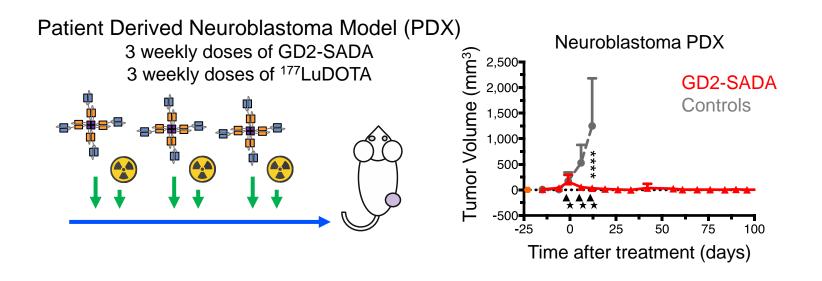
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SADA Technology can treat patient-derived neuroblastoma tumors

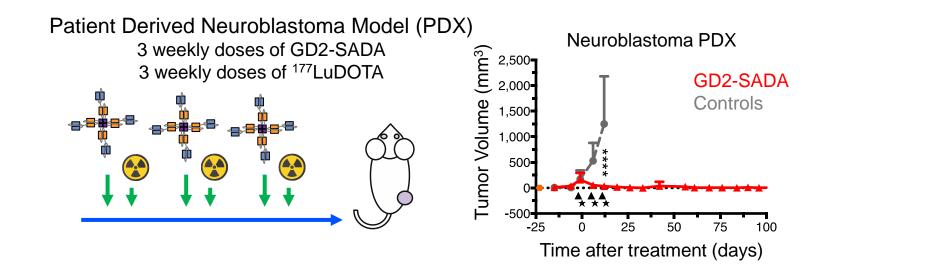
Tumor cures without toxicity to the liver, kidneys or bone marrow



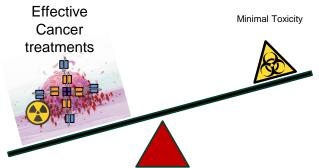


SADA Technology can treat patient-derived neuroblastoma tumors

Tumor cures without toxicity to the liver, kidneys or bone marrow



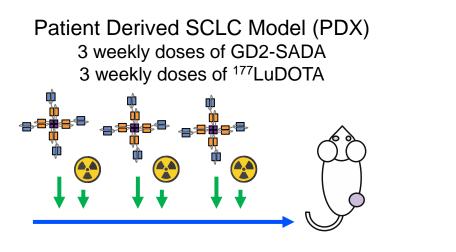
No liver toxicity No kidney toxicity No bone marrow toxicity

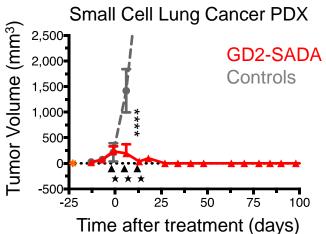




SADA Technology can treat patient-derived small cell lung cancer

SCLC has less than 10% survival over 5 years, but responds to SADA Technology



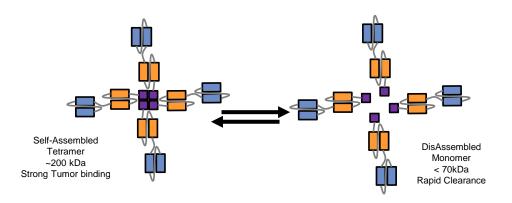




SADA Technology can be used as a theranostic

Therapeutic + Diagnostic

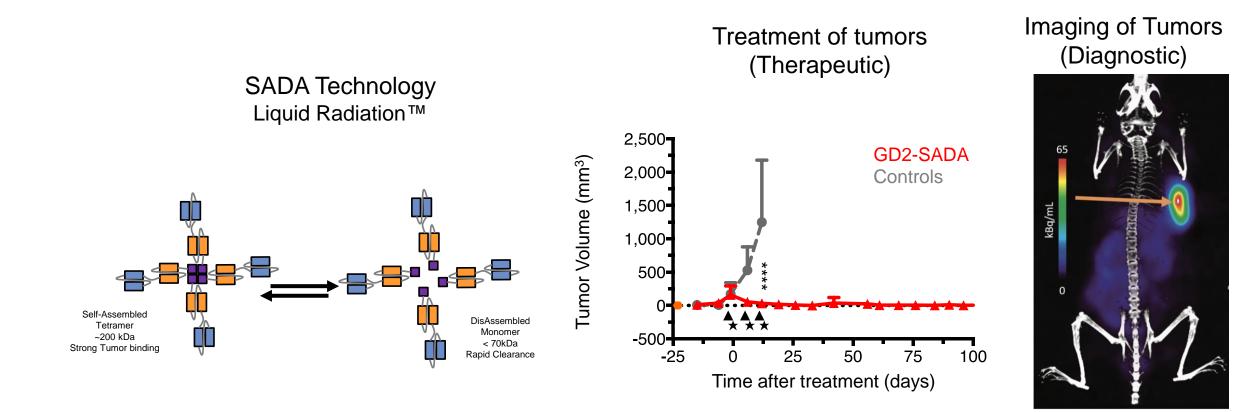






SADA Technology can be used as a theranostic

Therapeutic + Diagnostic





SADA Technology is a highly modular approach to treating cancer

Safe and Effective

- Targets tumors with high precision and spares normal tissues, especially blood/bone marrow
- Demonstrates substantially higher therapeutic indices than to conventional approaches (TI = >150:1 for bone marrow)

Highly Modular

- Can be adapted to use antibody and target wide variety of tumor markers (solid + hematological malignancies)
- Can be used to deliver a wide array of different isotopes: imaging, therapy, gamma, alpha

Theranostic

- Can deliver radiation both as a therapeutic and a diagnostic tool
- Tumors can be imaged by PET or SPECT to identify tumor masses or measure their responses



Laboratory of Dr. Nai-Kong Cheung

- Nai-Kong Cheung
- Mahiuddin Ahmed
- Hong Xu
- Hong-Fen Guo
- Irene Cheung

Laboratory of Dr. Steven Larson

- Steven Larson
- Sarah Cheal
- Darren Veach
- Mitesh Patel

Charles Rudin (SCLC PDXs) Elisa De Stanchina (NB PDXs) Ouathek Ouerfelli (Organic Synthesis)

Laboratory of Comparative Pathology

- Sebastien Monette
- Adam Michel



