Bicycles as precision guided therapeutics

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Bicycle°

Bicycle[®] - a unique and disruptive therapeutic modality



Advancing Drug Discovery for Oncology 2023

Bicycles have 5 dimensions of variation



Bicycle

Advancing Drug Discovery for Oncology 2023

Bicycle® platform delivers a toolkit of building blocks to create novel medicines



Bicycle

What are Bicycles and why are they different from biologics?



.....and why are they different from small molecules?



large molecular footprint drives affinity and selectivity between close homologues

Bicycle°

BTC[™] preclinical data – effective delivery of toxin payload to tumors



Bicycle

The properties that make *Bicycles* ideal for toxin delivery also make them ideal for immune agonism, but for different reasons

- In the body, activating signals (agonists) are <u>local</u>, <u>rapid</u>, and then <u>stop</u>
 - Cytokines, neurotransmitters, stress hormones
- Sustained (pathologic) signaling can lead to desensitization and dysregulation

Bicycles match the biology

precision-guided (local) distribute quickly (rapid) cleared rapidly (stop)

Localize action to the tumor

We choose targets that are present in solid tumors not well-served by current therapies



Cause activation of immune cells

We choose targets where knowledge of <u>human</u> biology says that activation is likely to help, <u>and</u> where other drug technologies, like antibodies, aren't working

Bicycle[®]

Bicycle TICA[™]– tumor-targeted immune cell agonists deliver immune agonism to tumors



Bicycle[®]

Preclinical in vitro proof of concept with the first EphA2/CD137 molecule



▶ 11

Bicycles have demonstrated preliminary clinical antitumor activity delivering cytotoxic payloads and appear ideally suited to delivering radionuclide payloads



Bicycle

MT1-MMP targeting BRC shows far superior tumor uptake and contrast versus mAb in mouse model



 MT1-MMP overexpressed in variety of cancers (non-small cell lung, gastric and breast)







Summary and looking to the future



Bicycle[®]

Thank you



Bicycle®