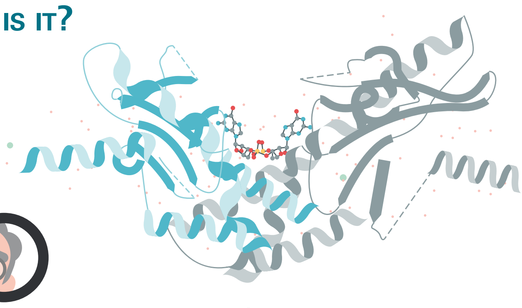
STING

THE NEXT CANDIDATE FOR CANCER IMMUNOTHERAPY

WHAT IS IT?



STING (Stimulation of Interferon Genes)

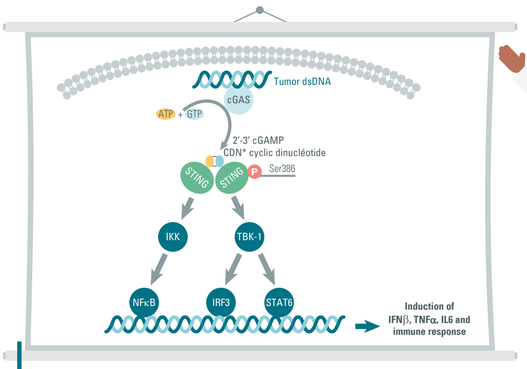
2008 : STING discovery (1)
2013 : CGAS discovery (2)

Innate immunity actor

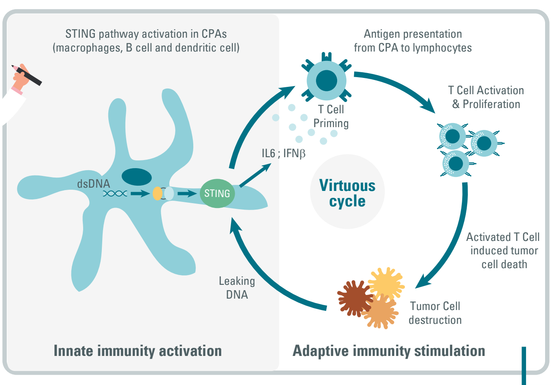
Induces IFNβ & IL1 production

May enhance anti-tumor response

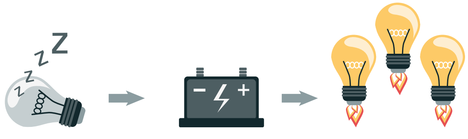
HOW DOES IT WORK?



WHICH CELLS ARE INVOLVED?



WHY TARGET STING?



STING	Synthetic agonist	Activated STING
Tumor cells have mechanisms to hide from patient's immune responses. STING pathway remains dormant.	To activate the STING pathway, an agonist which mimics STING's natural ligand is synthetized.	The agonist can be administrated directly into the tumor area. It will activate STING. Patient's immunity is stimulated.

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References

[1] Science 2013, DOI: 10.1126/*science*.1232458)

[2] Madej T, Lanczycki CJ, Zhang D, Thiessen PA, Geer RC, Marchler-Bauer A, Bryant SH. " MMDB and VAST+: tracking structural similarities between macromolecular complexes.*Nucleic Acids Res. 2014 Jan; 42(Database issue)*:D297-303