

# Metformin-induced reversion of exhausted T cells in tumor microenvironment

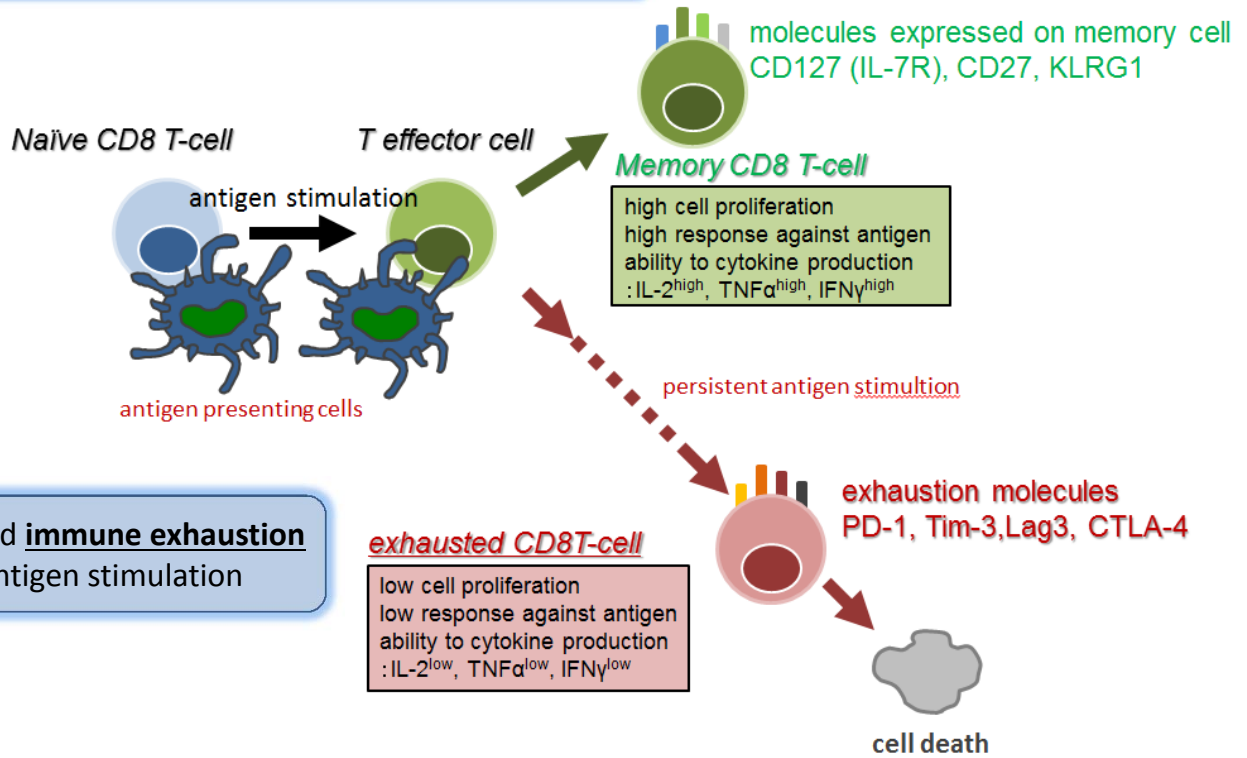
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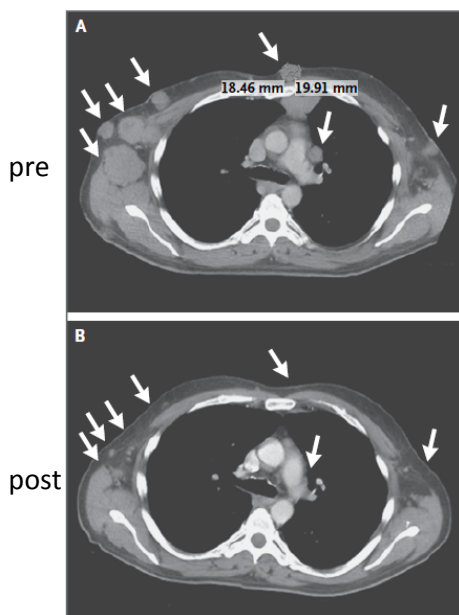
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## The mechanism of T-cell immune exhaustion



T-cells were induced **immune exhaustion** during persistent antigen stimulation

The chest showing tumor regression in a patient received the concurrent regimen of anti-CTLA-4 and anti-PD-1 (CT Scans)



Wolchok JD et al. N Engl J Med. 2013 Jul 11;369(2):122-33

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