

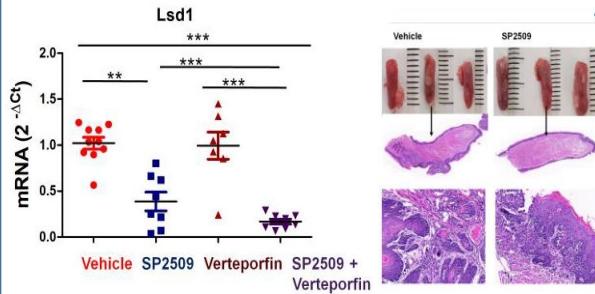
The Role of LSD1 in OSCC and Its Application in Chemo and Immunotherapy

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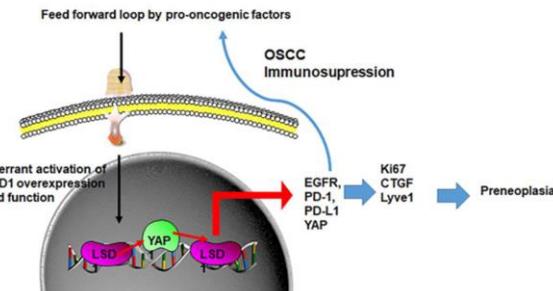
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Introduction

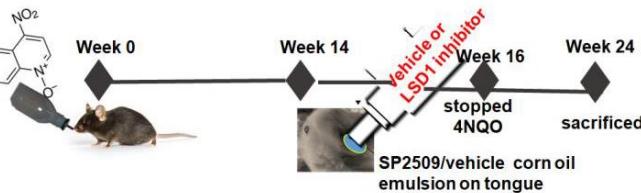


- Findings have shown that genetic alterations, including upregulation of LSD1, are seen in OSCC.
- This study aims to evaluate mechanism of LSD1 and determine if inhibition of LSD1 has preventative and/or therapeutic applications for OSCC.

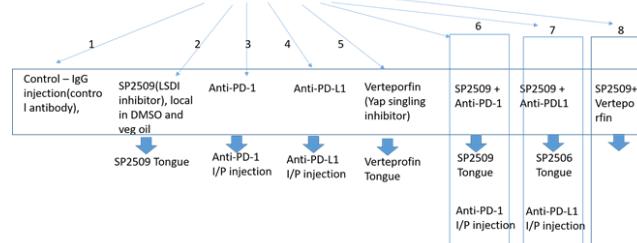
Proposed model from study



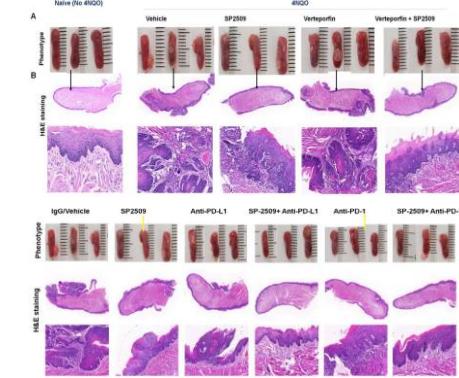
Materials / Methods



- 8 Groups of mice were given 4NQO in their drinking water to cause dysplasia / OSCC
- At **Week 14**, mice were treated with various immunotherapy treatments (SP2509, Verteporfin, Anti PD-1, Anti PD-L1) alone and in combination. At **Week 24**, mice were sacrificed and tongue harvested for histology, immunostaining and qPCR.



Conclusion



- SP2509 does not inhibit OSCC alone but in combination with YAP inhibitor, shows efficient OSCC inhibition
- LSD1 regulates tumor immune microenvironment and sensitizes to anti-PD-1 and anti-Pd-L1 antibody immunotherapy

