

2nd WORLD OBESITY CONGRESS

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International Conference on

DIABETES AND ENDOCRINOLOGY

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2nd WORLD VACCINES AND IMMUNOLOGY CONGRESS

October 15-16, 2018 | Tokyo, Japan

Biomed Res 2018, Volume 29 | DOI: 10.4066/biomedicalresearch-C5-014

USING RADIATION TO TURN THE TUMOR INTO AN “IN SITU” VACCINE FOR LUNG CANCER

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For the last 100 years radiation has been used solely for location control, but now with the advent of immunotherapy, we have the potential to expand the benefit of radiation to systemic disease. Our laboratory has generated the model of PD1 resistant to lung cancer and using this model we are testing several new immunotherapies to produce abscopal systemic responses in combination with radiation. We have recently completed three trials with 100 patients each of testing the safety and efficacy of combining immunotherapy with radiation for lung cancer. This talk will educate the audience about the biological rationale of using immunotherapy with antigen release from radiation along with the most up to date data on where the field is at, along with new approaches for the future.

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