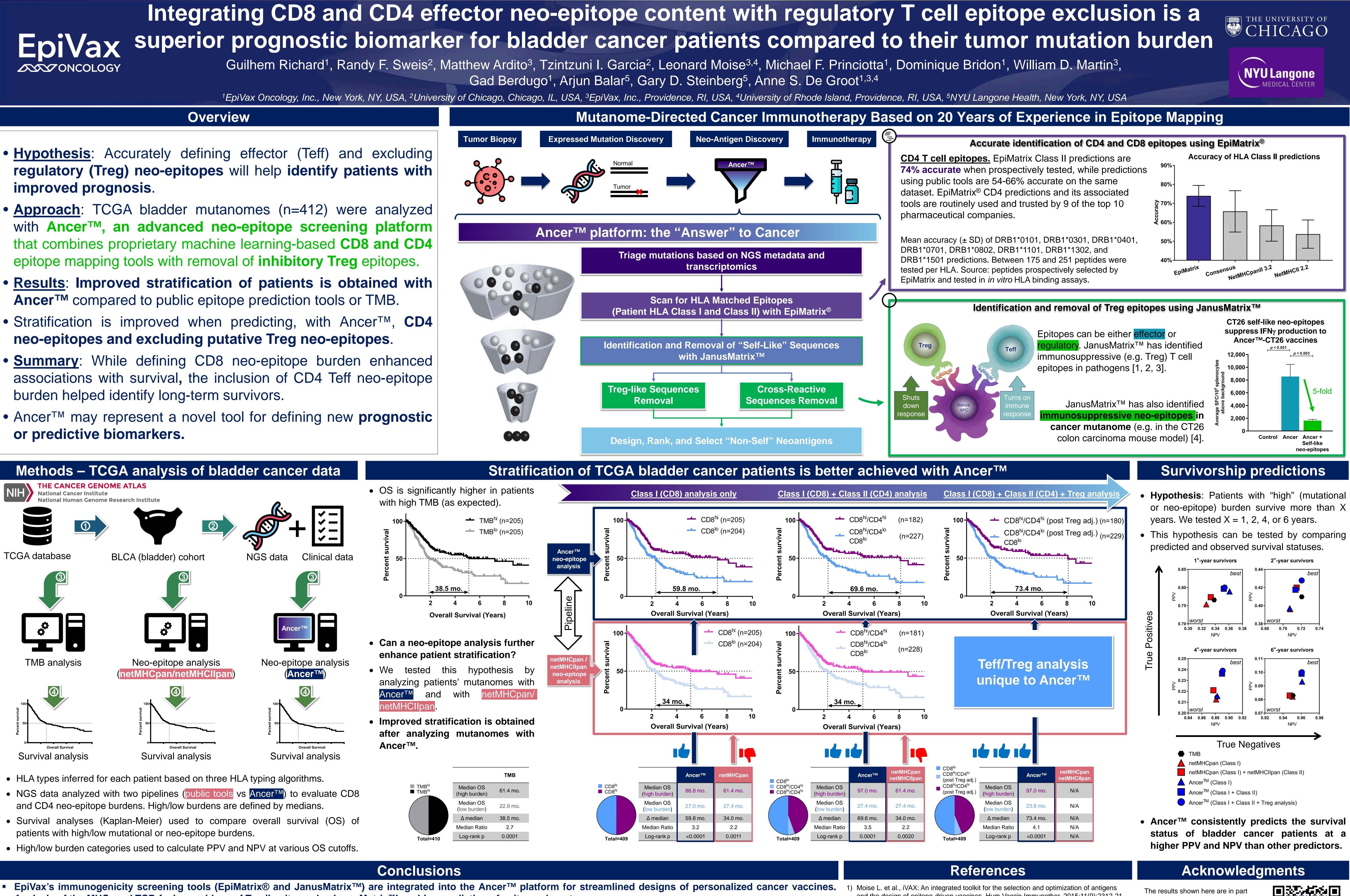


- improved prognosis.

- burden helped identify long-term survivors.
- or predictive biomarkers.



- Analysis of the MHC- and TCR-facing residues of T cell epitopes by JanusMatrix[™] enables prediction of epitope phenotype.

Improved stratification of TCGA bladder cancer patients was obtained with Ancer[™] compared to public *in silico* tools or traditional TMB analyses. These results highlight the importance of identifying neo-epitopes with high-quality epitope prediction tools and of evaluating their phenotype (effector or regulatory) using specialized homology tools. ■ Ancer[™] may help understand patients' survival based on an in-depth analysis of their mutanome, including an evaluation of their CD8 and CD4 effector neo-epitope contents. Follow-up studies include multivariate analyses of overall survivals including additional co-factors and extension of this analysis to other TCGA cohorts.

For questions regarding EpiVax Oncology, Inc., please contact Gad Berdugo at gberdugo@epivaxonco.com

and the design of epitope-driven vaccines. Hum Vaccin Immunother. 2015;11(9):2312-21.

2) Liu R. et al., H7N9 T-cell epitopes that mimic human sequences are less immunogenic and may induce Treg-mediated tolerance, Hum Vaccin Immunother. 2015 11:9, 2241-2252

3) Wada Y. et al., A humanized mouse model identifies key amino acids for low immunogenicity of H7N9 vaccines. Sci Rep. 2017 Apr 28;7(1):1283

4) Richard G. et al., Filtering out self-like neoantigens improves immune response to cancel vaccines. Proceedings: AACR Annual Meeting 2019; March 29-April 3, 2019; Atlanta, GA

- or neo-epitope) burden survive more than X
- This hypothesis can be tested by comparing

based upon data generated by the **TCGA Research Network:** http://cancergenome.nih.gov/.

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		netMHCIIpan
)	97.0 mo.	N/A
	23.6 mo.	N/A
	73.4 mo.	N/A
)	4.1	N/A
	<0.0001	N/A