

Hello Kidney

### Autoimmune Clues to Kidney Cancer

Rheumatoid Arthritis (RA) and Lupus (SLE)
=> 2x kidney cancer risk

FRANKS AL, SLANSKY JE. Multiple Associations Between a Broad Spectrum of Autoimmune Diseases, Chronic Inflammatory Diseases and Cancer. *Anticancer Research*. 2012;32(4):1119-1136.



#### Genetic Load in SLE

~100 genetic markers for Lupus

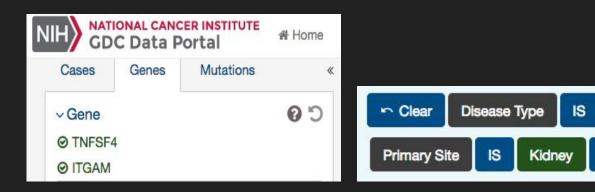
LANGEFELD CD, AINSWORTH HC, VYSE TJ. Transancestral mapping and genetic load in systemic lupus erythematosus. *Nature Communications*. 2017.

### Lupus Markers Associated with Kidney Cancer

TNFSF4 ITGAM

LANGEFELD CD, AINSWORTH HC, VYSE TJ. Transancestral mapping and genetic load in systemic lupus erythematosus. *Nature Communications*. 2017.

# TCGA Data Portal Exploration



□ Case ID	Project	Primary Site	Gender	Files	Available Files per Data Category							# Mutations	# Genes
					Seq	Exp	SNV	CNV	Meth	Clinical	Bio	# Widtations	# delles
□ TCGA-GL-7773	TCGA-KIRP	Kidney	Male	32	4	<u>5</u>	16	4	1	1	1	1	<u>1</u>
☐ TCGA-IA-A83S	TCGA-KIRP	Kidney	Male	32	4	<u>5</u>	16	4	1	1	1	1	1
☐ <u>TCGA-B1-A657</u>	TCGA-KIRP	Kidney	Male	32	4	<u>5</u>	<u>16</u>	4	1	1	1	1	1
□ TCGA-SX-A7SS	TCGA-KIRP	Kidney	Male	32	4	5	16	4	1	1	1	1	1

Kidney Renal Papillary Cell Carcinoma

TNFSF4

AND

Gene

AND

**ITGAM** 

## Reduce Cancer Risk by Taming Autoimmune

Key to Longevity and Healthspan