Graphical Abstract

Predicting development of "sustained unresponsiveness" (SU) to milk oral immunotherapy using epitope-specific antibody binding profiles

RCT Cohort

Baseline
Month 4
Start OIT
Month 28
OFC
Outcome
DS
Month 30
Stop OIT
Month 32
OFC

Epitope-Specific IgE and IgG4 Binding

Are these baseline binding profiles informative of the OIT outcome at the end of the trial?

Machine Learning

AUC - Area Under the Curve
DS - Desensitization
OFC - Oral Food Challenge

Probability of developing SU for individual patients

Patients

OIT Outcome
DS or SU

0.25 0.50 0.75

SCP - Serum Component Proteins
SU - "Sustained Unresponsiveness"