

Personalized Immunomonitoring Uncovers Molecular Networks that Stratify Lupus Patients

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- ❖ Personalized SLE transcriptional immunomonitoring (to identify modules of longitudinally co-expressed transcripts for individual patients and uncover associated clinical traits)



SLE Cohort

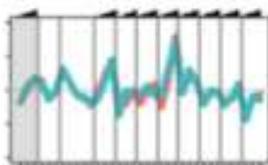
Supervised Analyses Linear Mixed Models

Disease



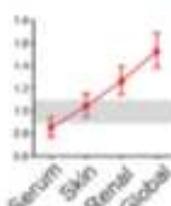
IFN Response

Disease Activity



Plasmablasts

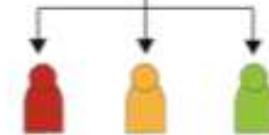
Nephritis



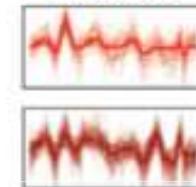
Neutrophils

Personalized Immunomonitoring

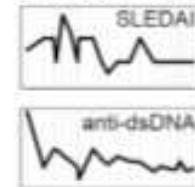
Personalized Immunomonitoring



Modules

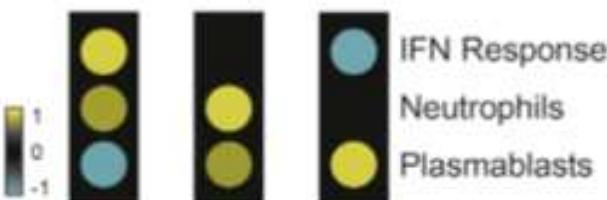


Clinical Traits

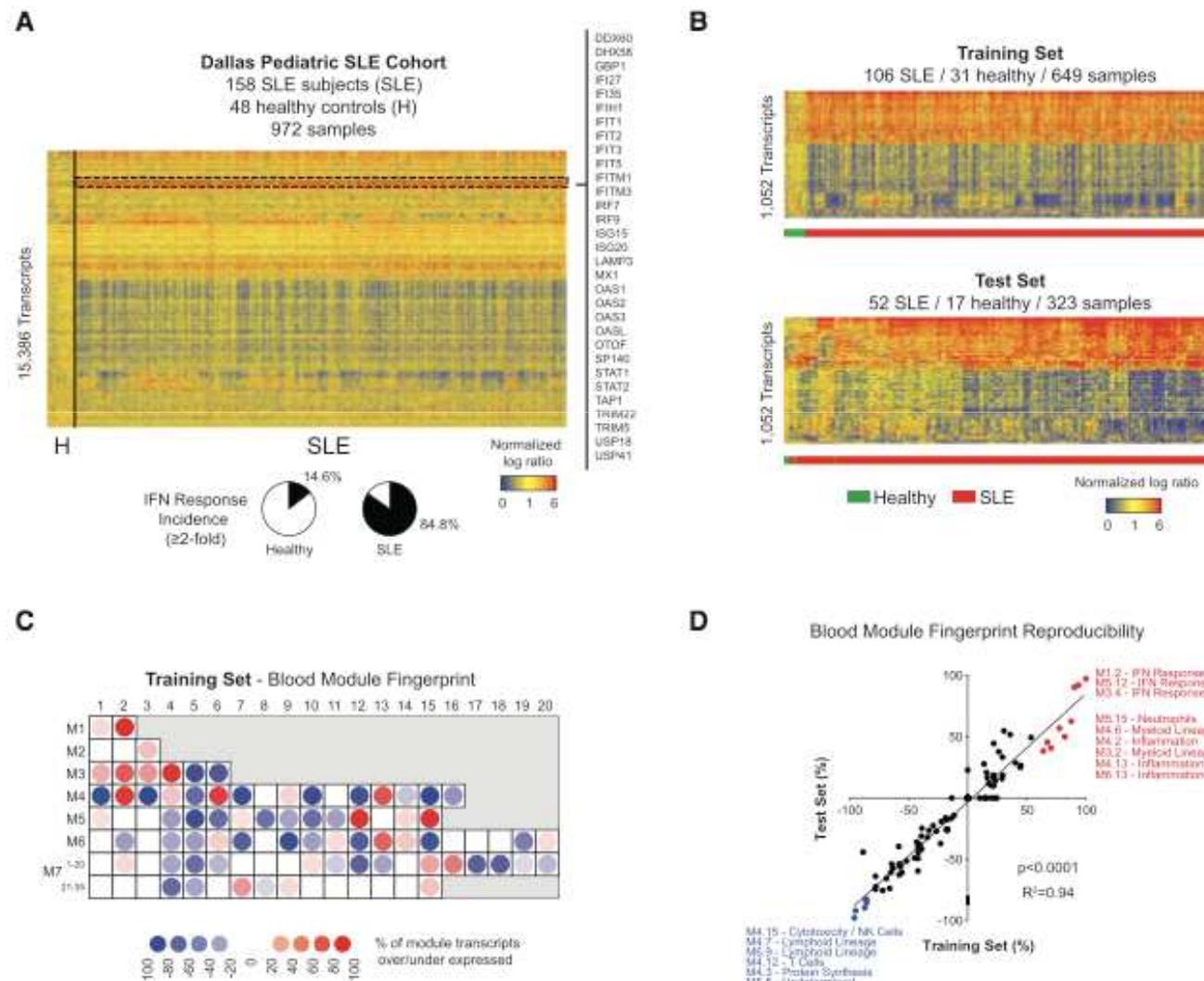


→ Time

Individual SLEDAI Correlate Aggregation

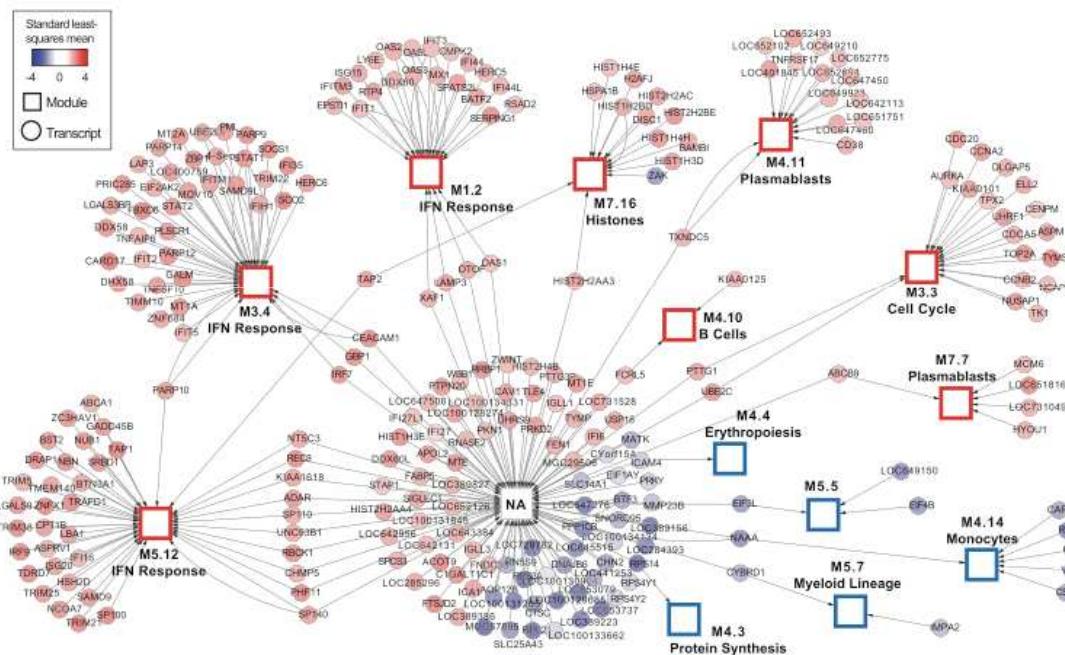
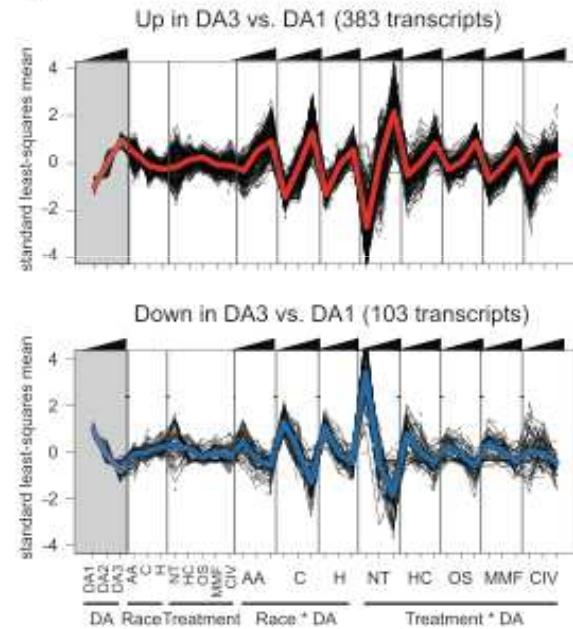


The SLE blood transcriptional fingerprint



Transcriptional Correlates of Disease Activity

B



A Neutrophil Signature Associates with Lupus Nephritis

