

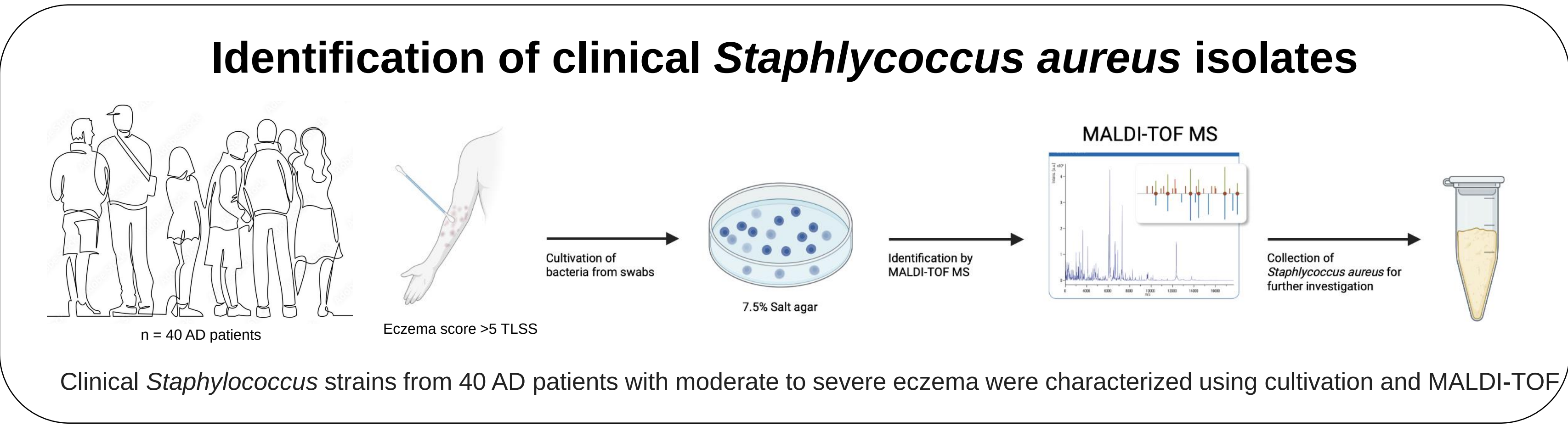
Staphylococcus strains' adaptation to atopic dermatitis lesional skin

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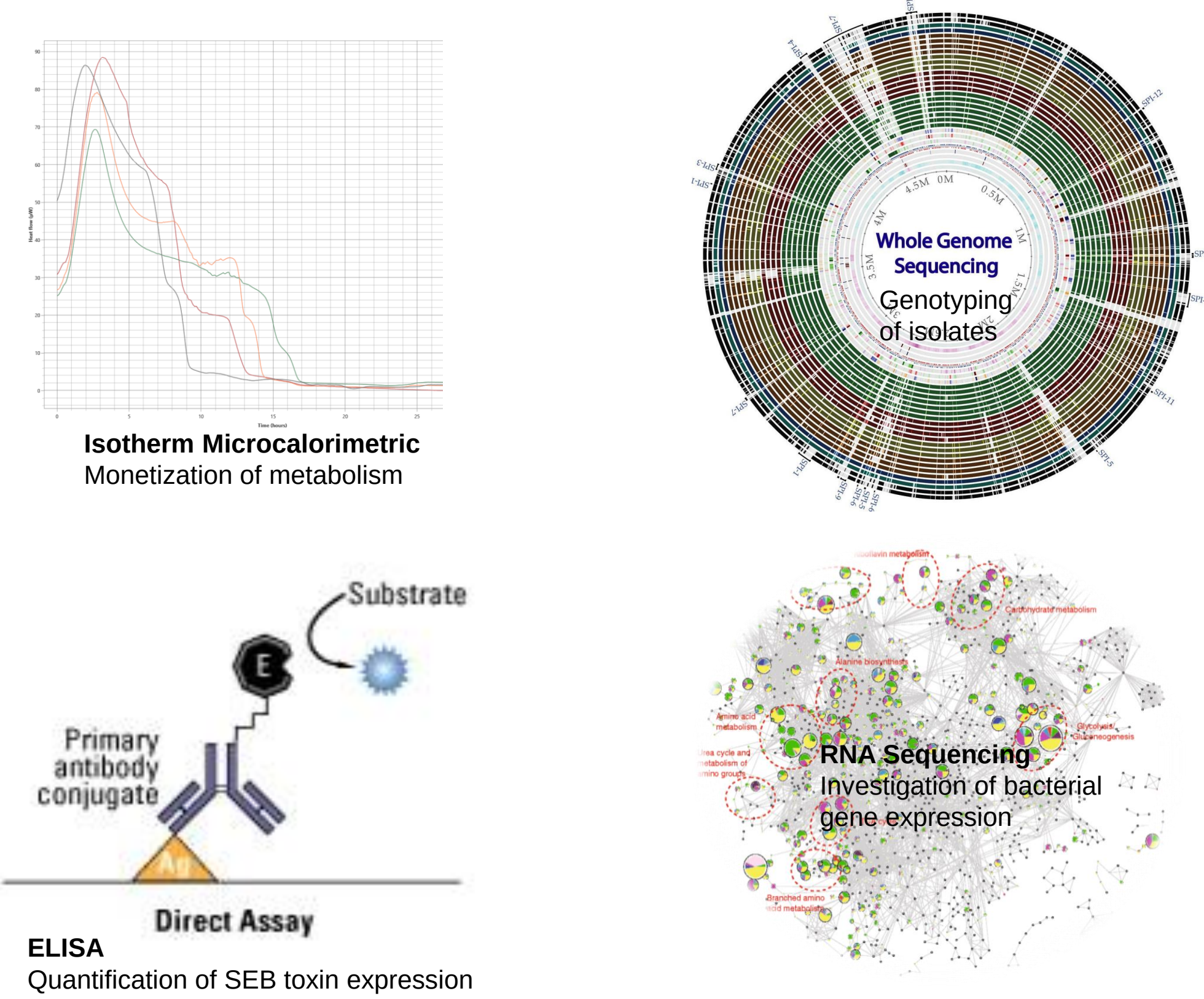
Hypothesis: Certain adapted abilities of *S. aureus* correlate with the severity of atopic dermatitis

Methods

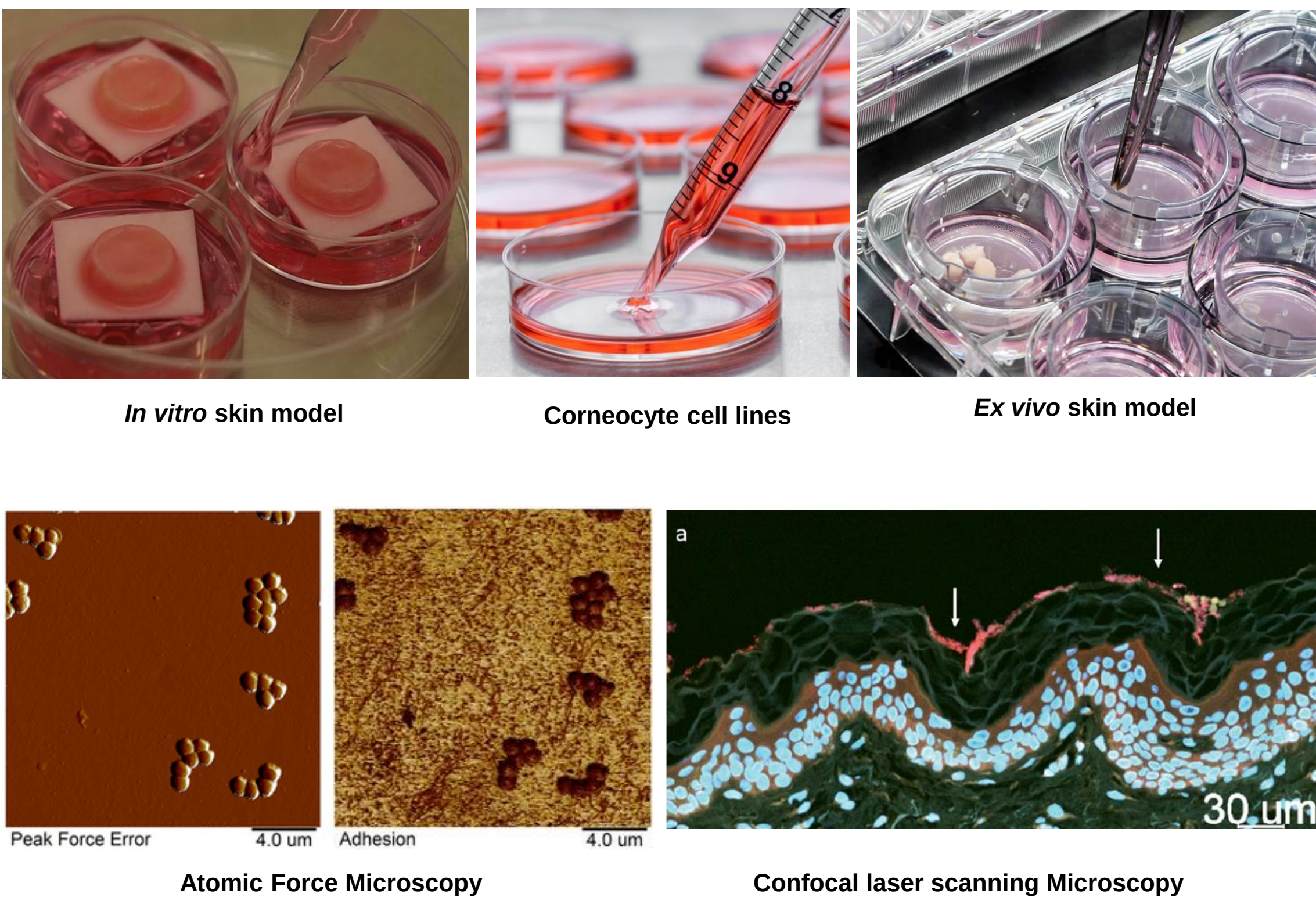


Objectives: Monitor the frequency and characterize the pathogenicity of *S. aureus* in atopic dermatitis

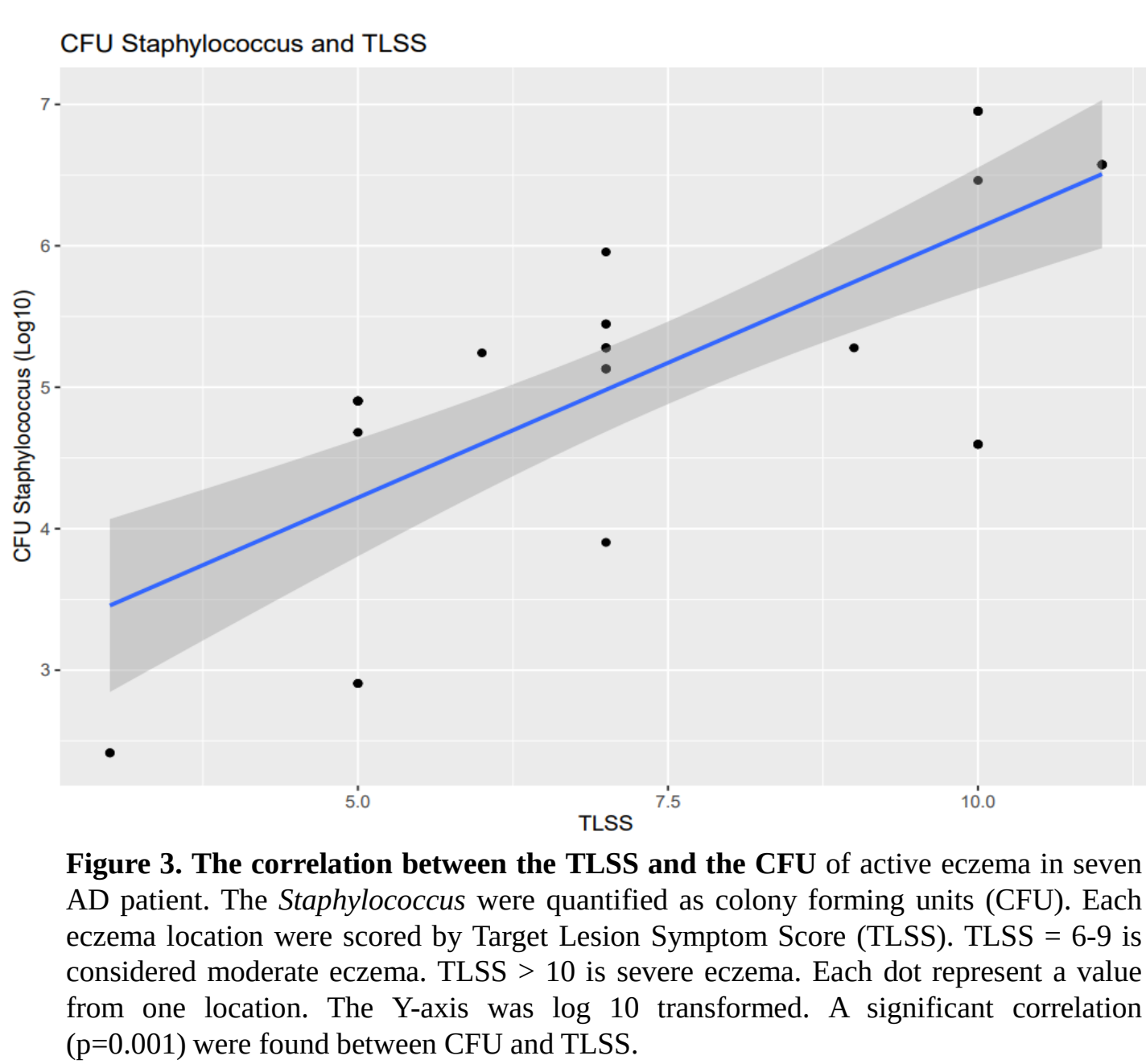
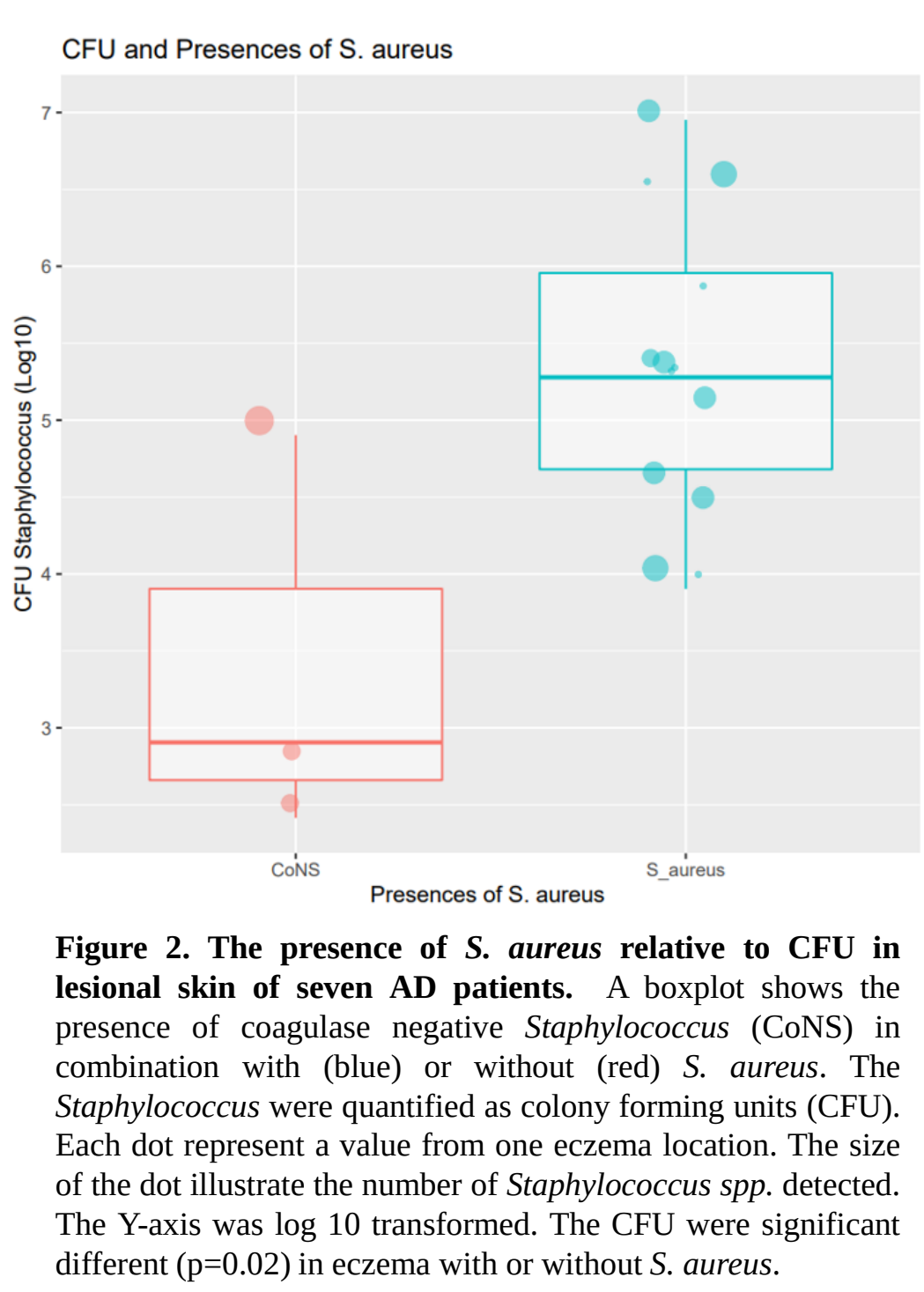
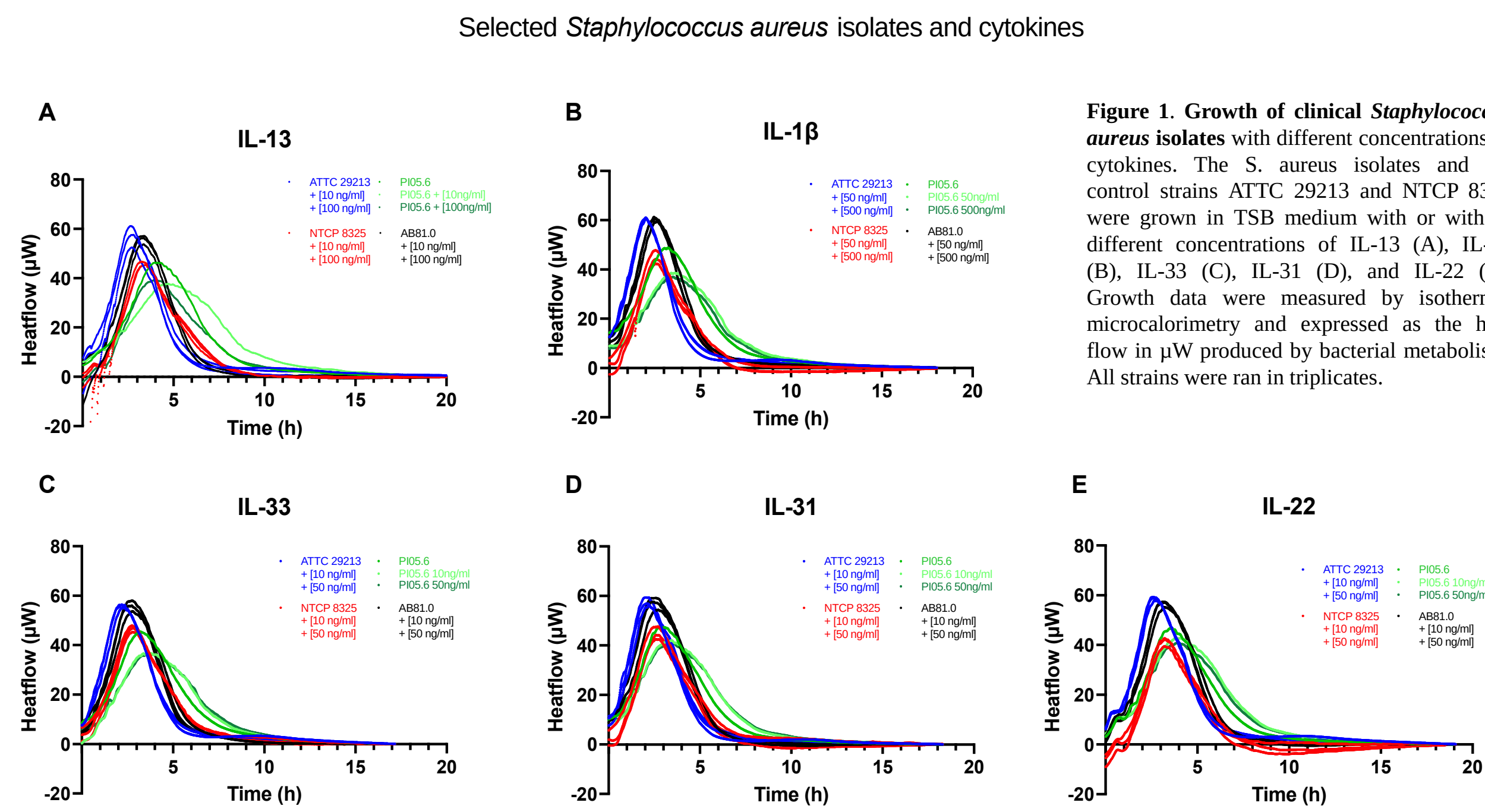
Genotypic and phenotypic characterization of clinical *Staphylococcus aureus* isolates



Effect of cytokines and adhesion of *S. aureus* strains in *in vitro* and *ex vivo* skin models



Preliminary Results



Direct effect of specific cytokines on *S. aureus* metabolism and a correlation between *S. aureus* abundance and eczema score

Adaptation of *S. aureus* to eczema skin demonstrate the host-microbial interrelation in AD pathogenesis