

P044 Diverse Approaches to High-Throughput Screening of Pattern Recognition Receptors

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We describe the decision processes in the design and execution of two high throughput screens directed against pattern recognition receptors. Using TLR3 and TLR9 as examples, we show how the screening strategy for these similar targets was divergent for a number of parameters. These include the use of frozen cells vs. live cells, stable cell lines vs. transiently transfected cell lines, reporter plasmids with NF κ B promoters vs. ISRE promoters, automation vs. semi-automation, 1536-well vs. 384-well assay format and file integrity (near assay ready plates) vs. aqueous intermediates plates. Active compounds identified through these two screening strategies converge at a common triage point.