



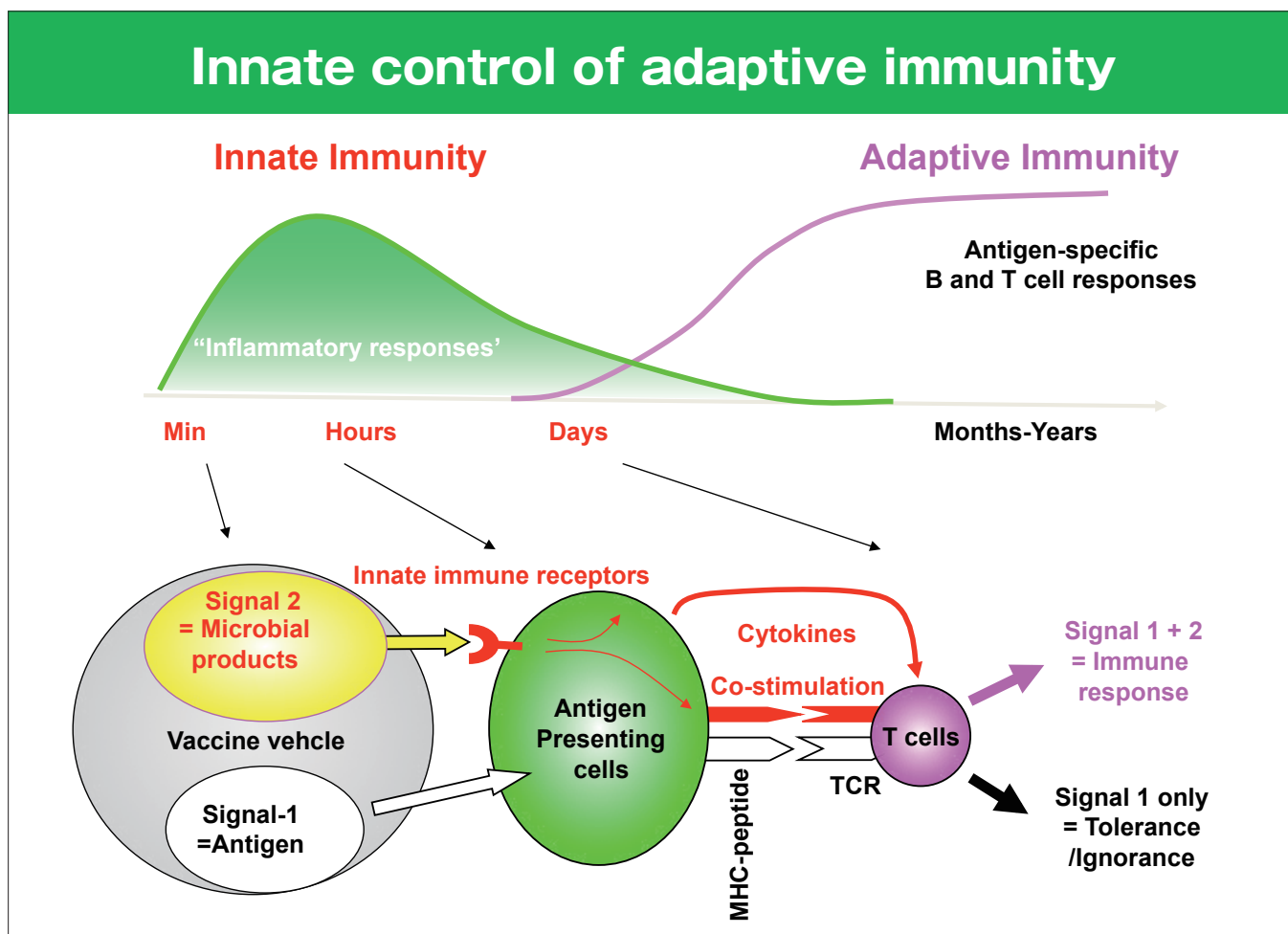
# Adjuvant innovation by manipulation of innate immune system

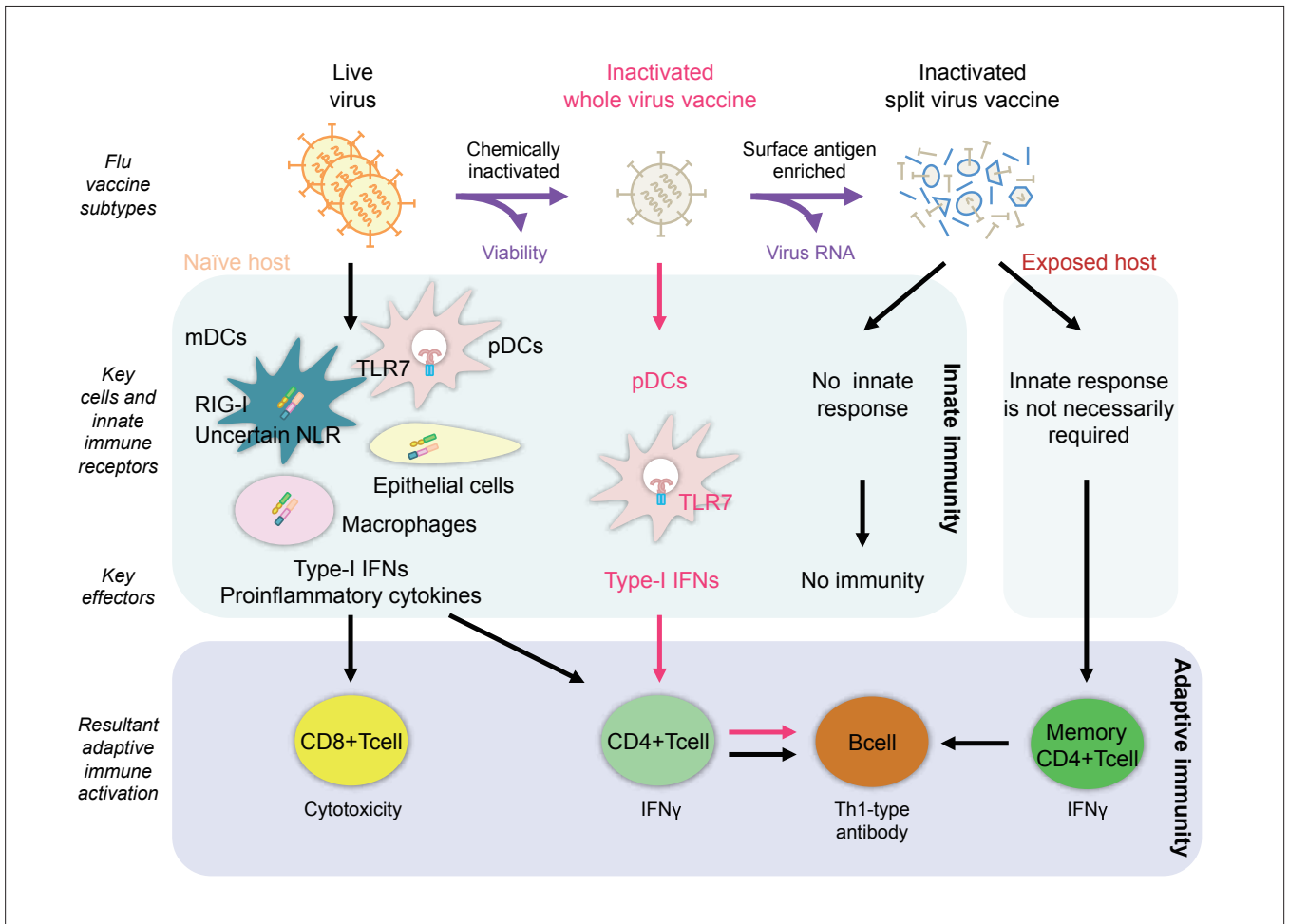
## Outline

Aim of this project is to invent a novel adjuvant targeting the right innate immune cell(s) and receptor(s) and combining novel vehicles, delivery molecules and innate immune activators. Our particular focus towards this goal is on delineating the adjuvant-mediated, intra- and inter-cellular signaling pathways that mediate the immunogenicity of vaccines. By doing so, we hope to gain some senses not only for developing more efficient technologies for vaccines and adjuvants, but also ensuring their safety to higher level.

## Expected Outcome

Most vaccines including those against infectious diseases, cancer, allergy will be benefitted to increase their efficacy as well as safety, if our researches successfully invent an adjuvant that specifically target and activate particular antigen presenting cells of interest, to decrease toxicity and to increase potency, respectively.





## Vaccine signaling pathways by nucleic acid-adjuvants

