





Polly Matzinger offered a new definition of immunology by postulating that immune system is not there to discriminate between self and non-self but to recognize and respond to danger signals
(Annu. Rev. Immun. 1994).

She postulated that any insult to healthy tissues generate alarm signals that initiate the activation of the immune response. She conceived the concept of danger as an internal signal and pathogens are recognized by the tissue damage they generate.

"the 4 Ds of the danger model :
distress, damage, destruction, and death"