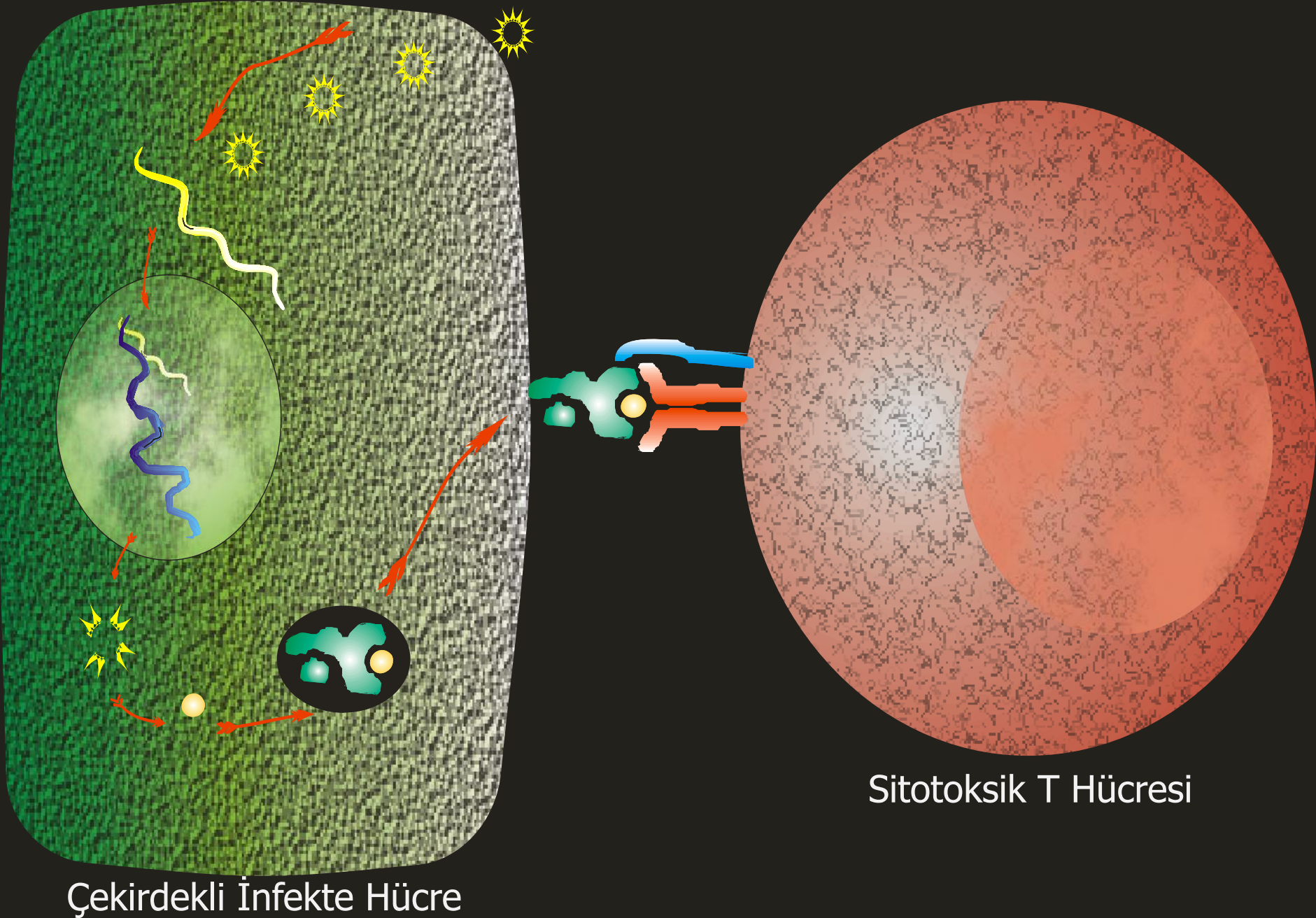


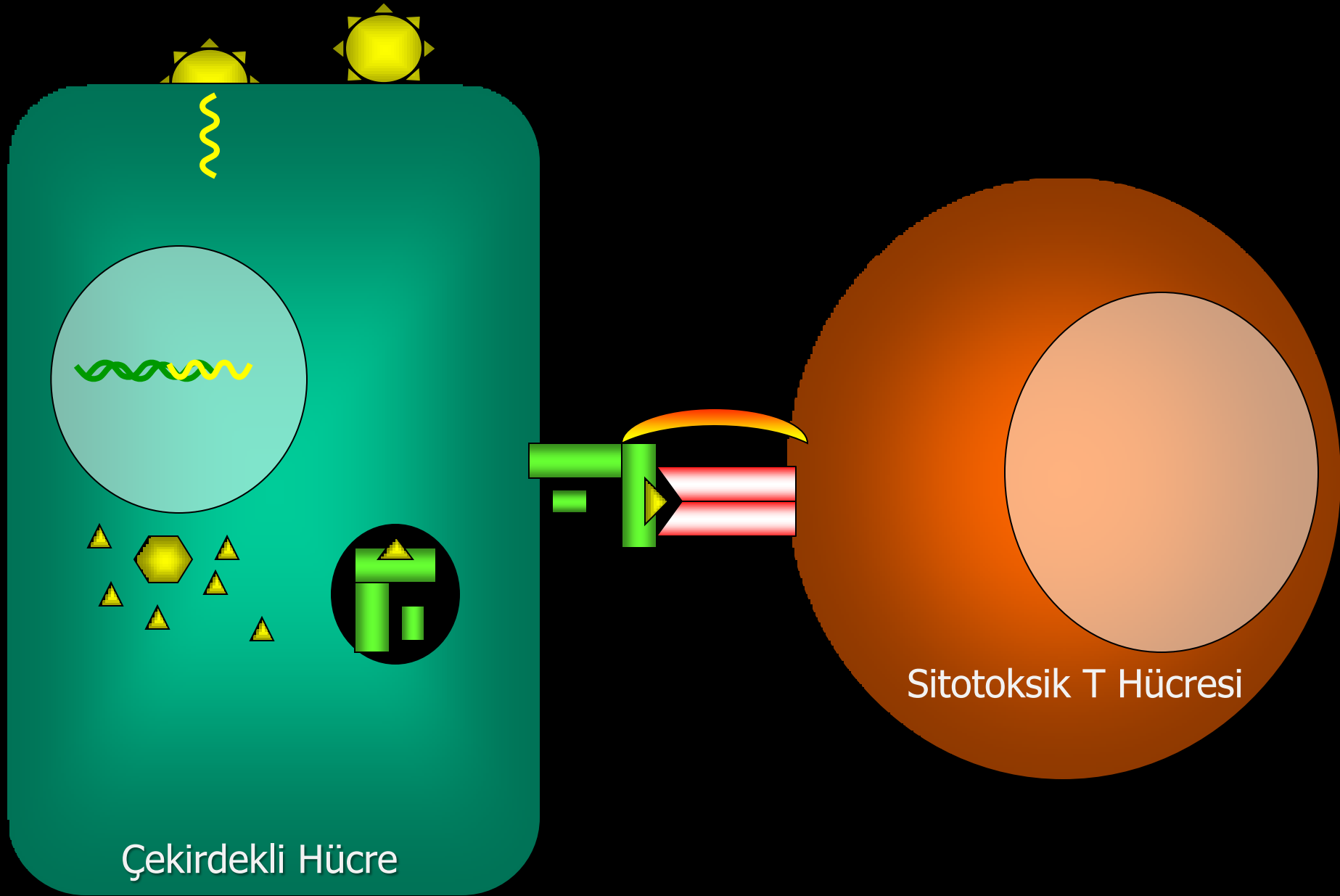
HÜCRESEL SİTOTOKSİTE YOLLARI

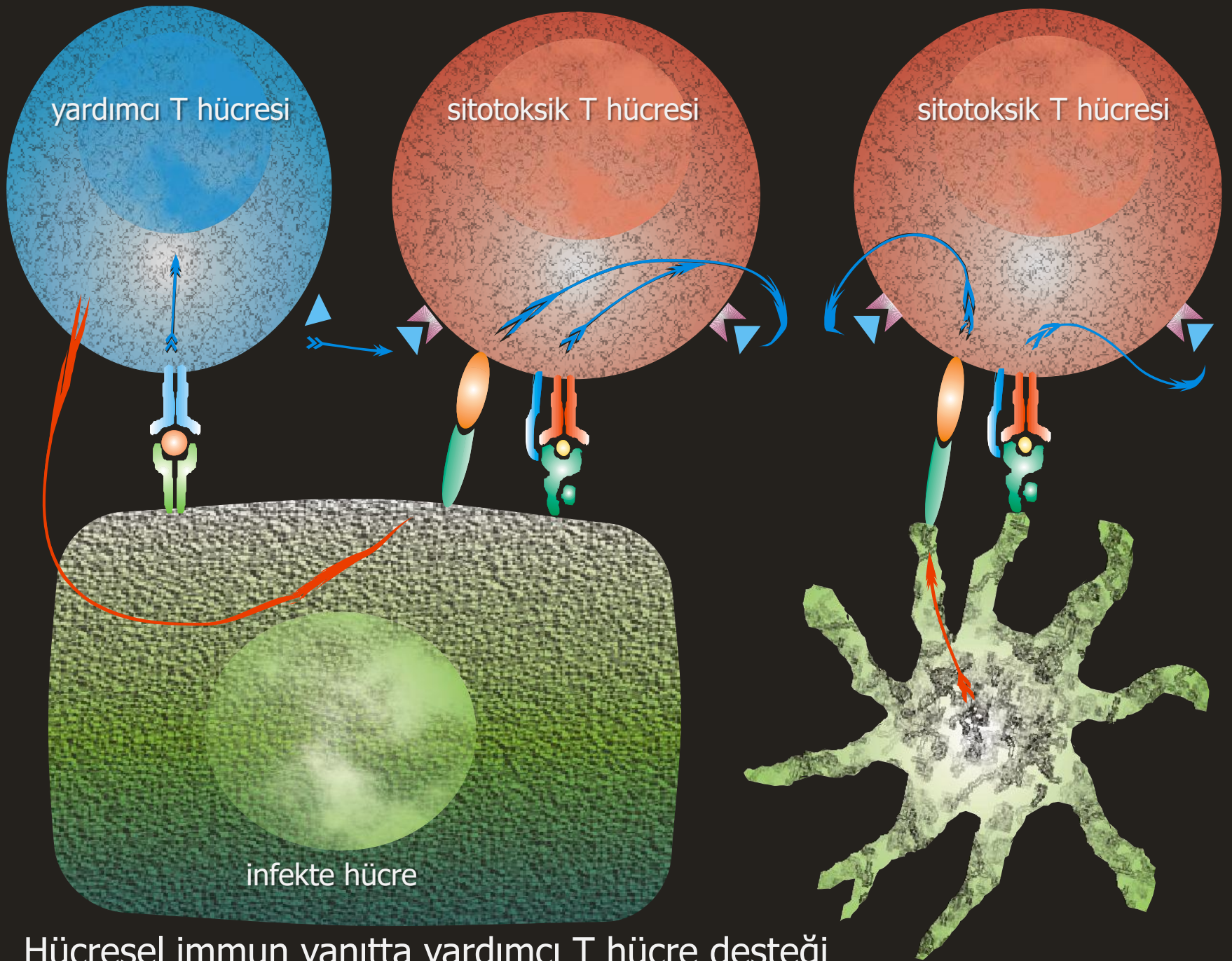
Hücre	Mekanizma	MHC kısıtlaması	Antijen özgüllük	Antikor gereksinimi
Sitotoksik T	T sitotoksite	VAR	VAR	YOK
NK	ADCC	YOK	YOK	VAR
	Direkt	YOK	YOK	YOK
Diğer hücreler	ADCC	YOK	YOK	VAR

HÜCRESEL İmmun Yanıt

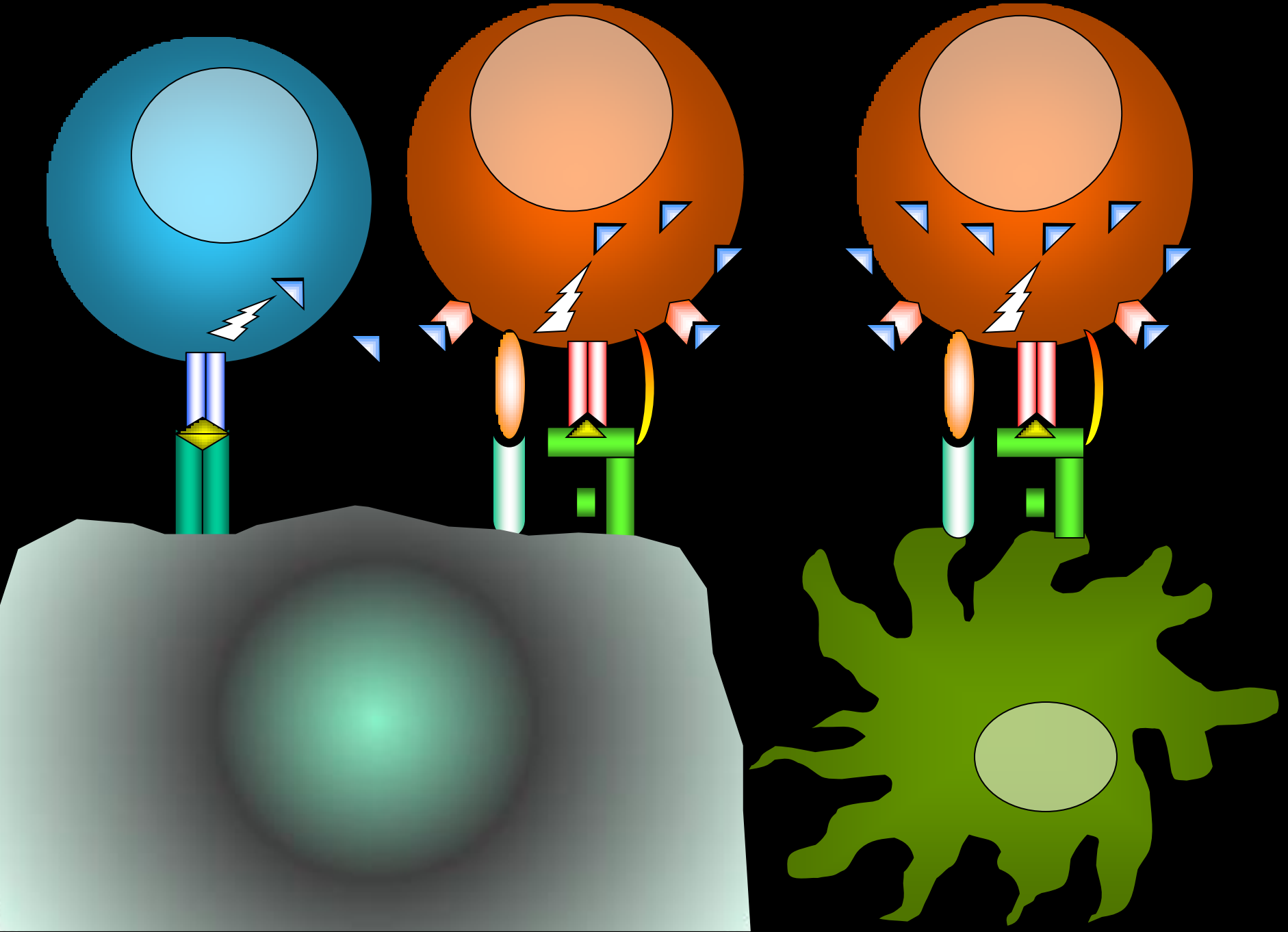


HÜCRESEL İmmun Yanıt

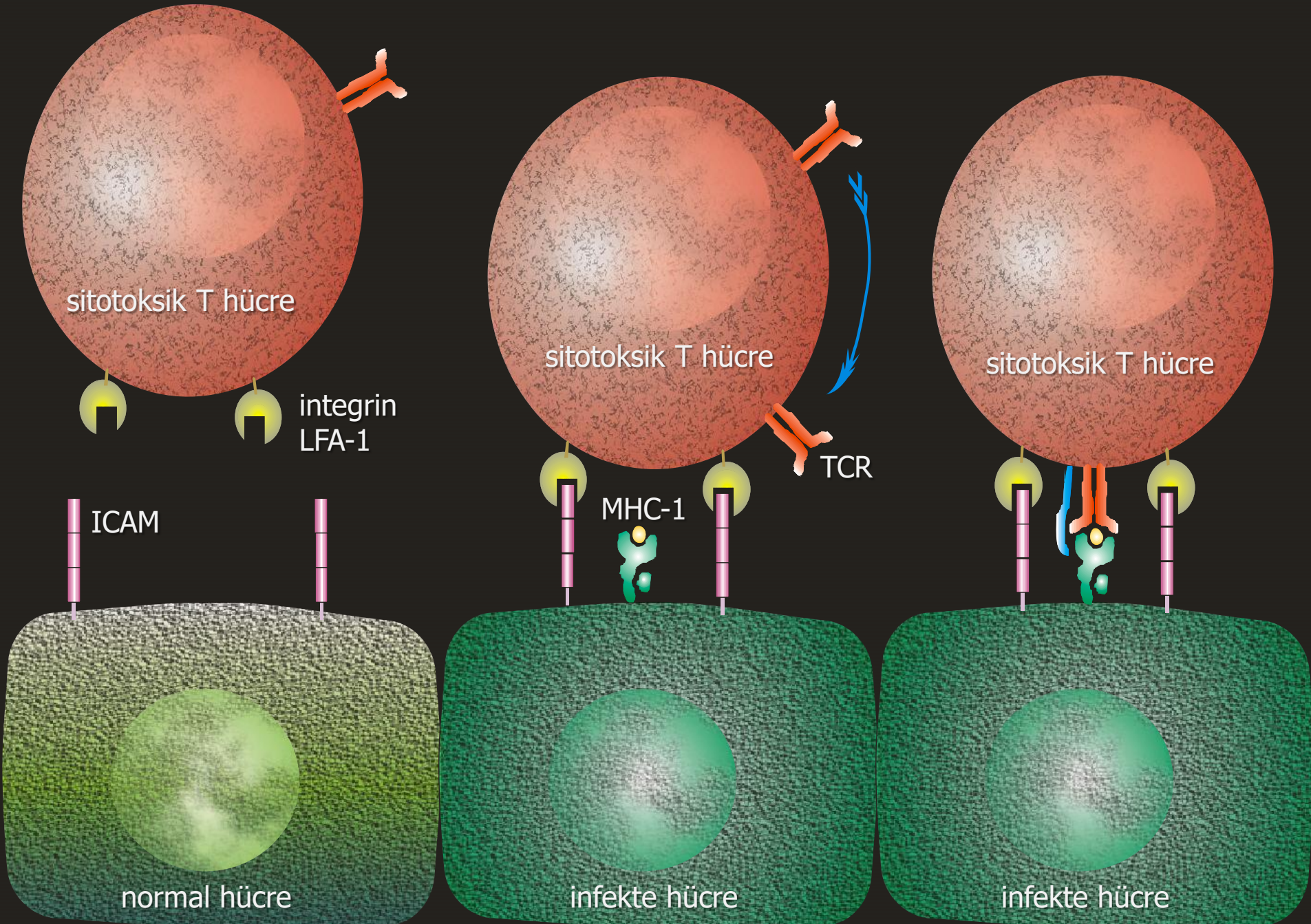




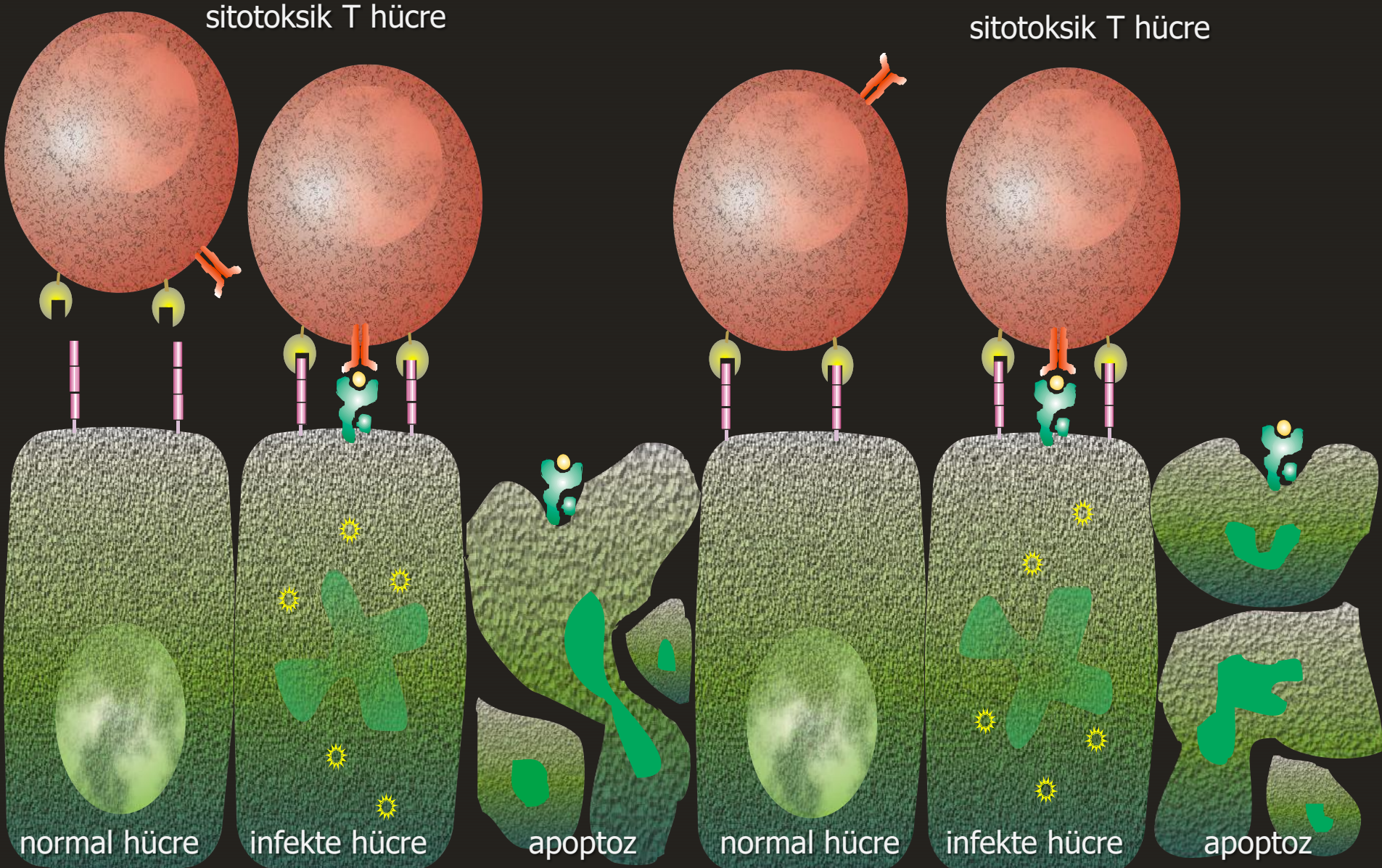
Hücresel immün yanıtta yardımcı T hücre desteği



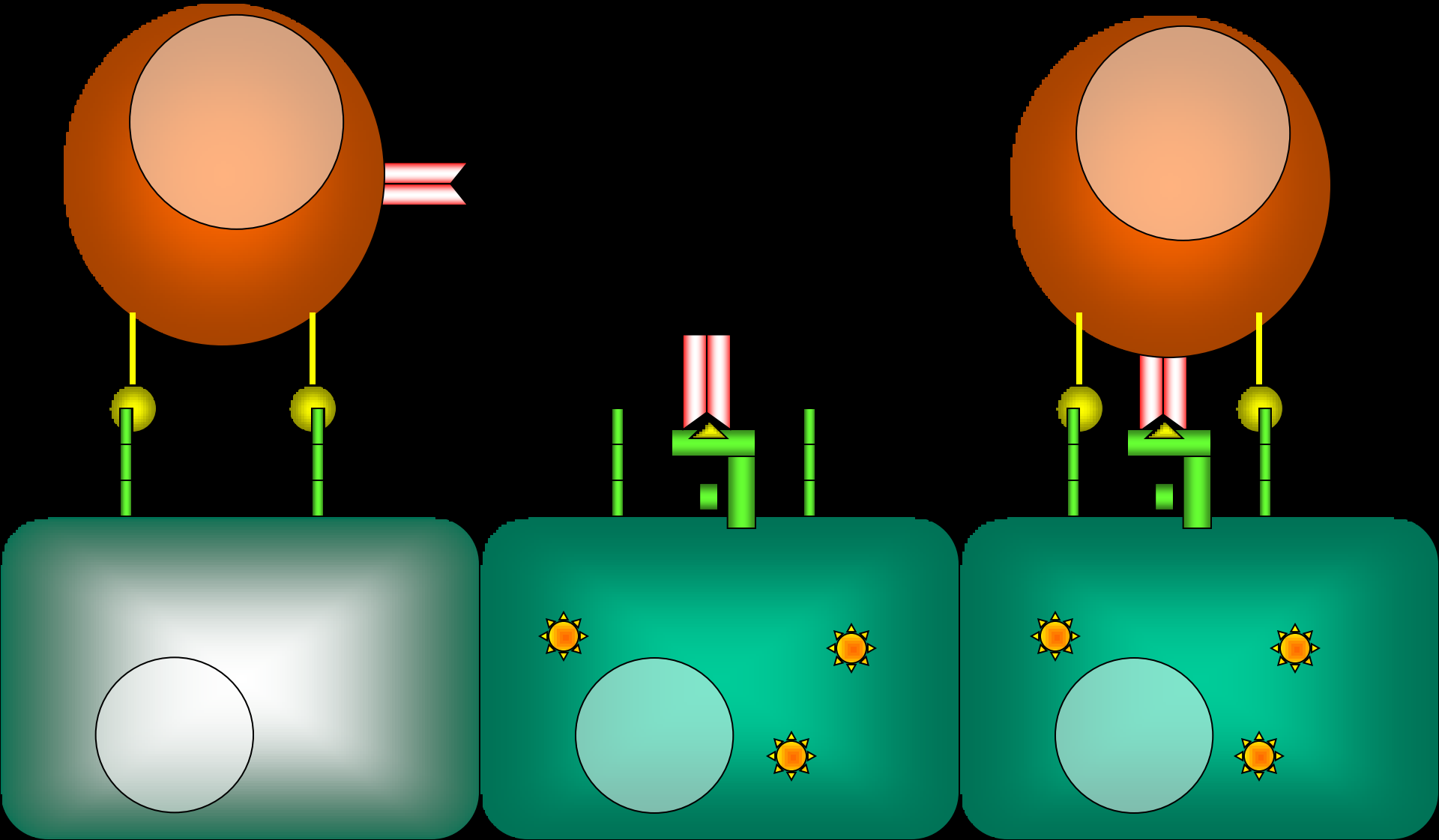
Hücresel İmmün Yanıt: Aktivasyon-Adhezyon



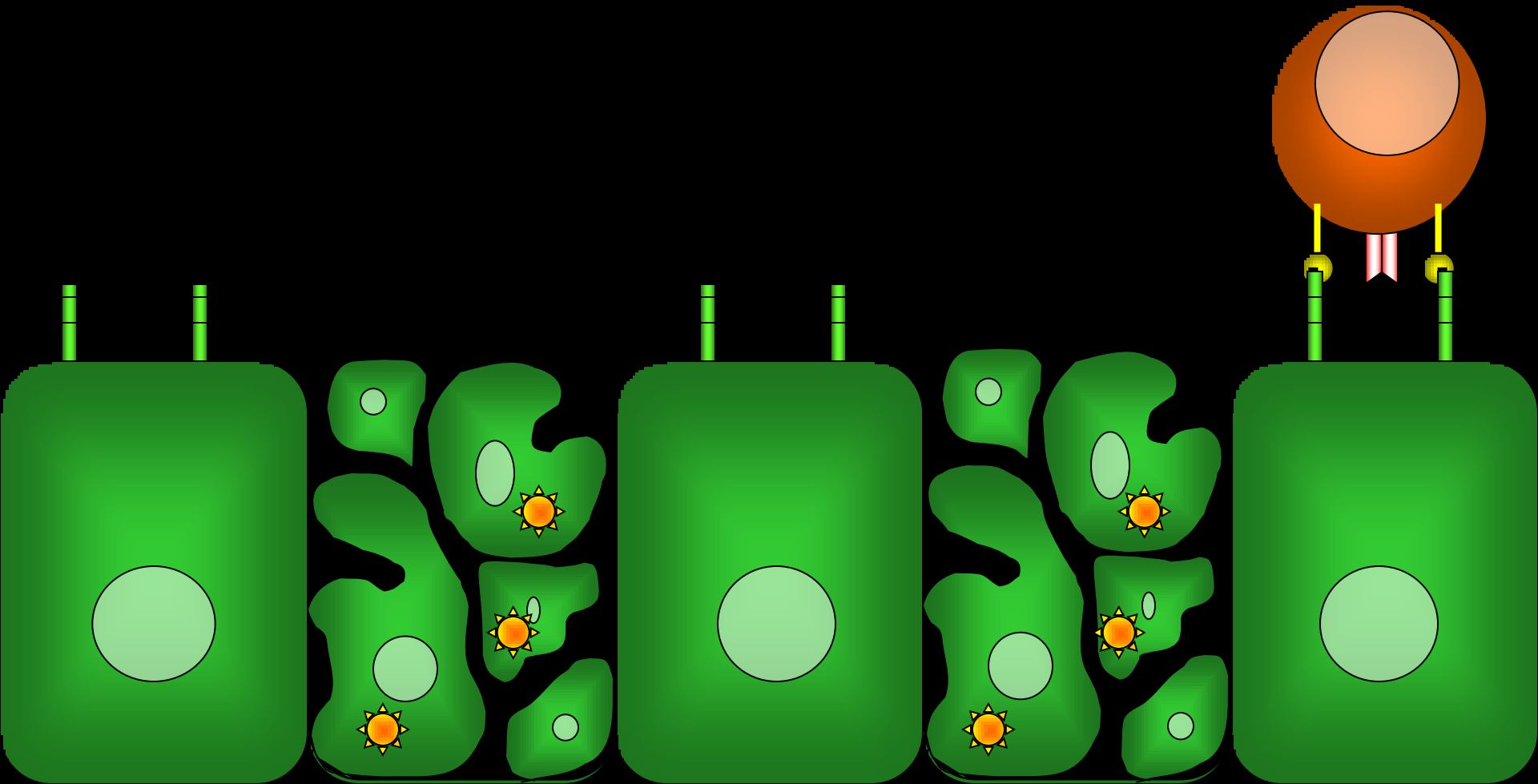
Hüresel İmmün Yanıt: İmmün Denetim-Öldürme



Hücresel İmmün Yanıt: Aktivasyon-Adhezyon



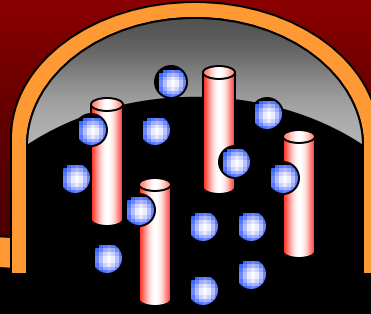
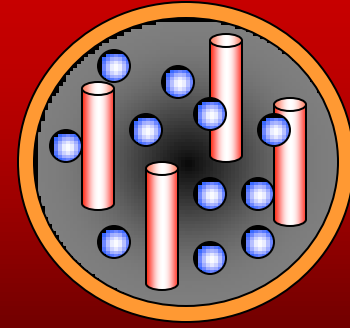
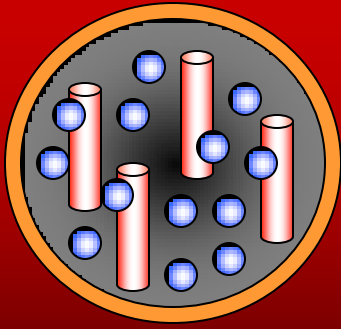
Hücresel İmmün Yanıt: İmmün Denetim-Öldürme



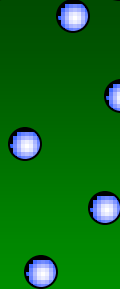
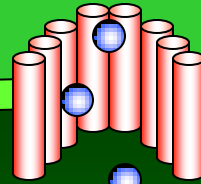


Sitotoksite: Perforin Yolu

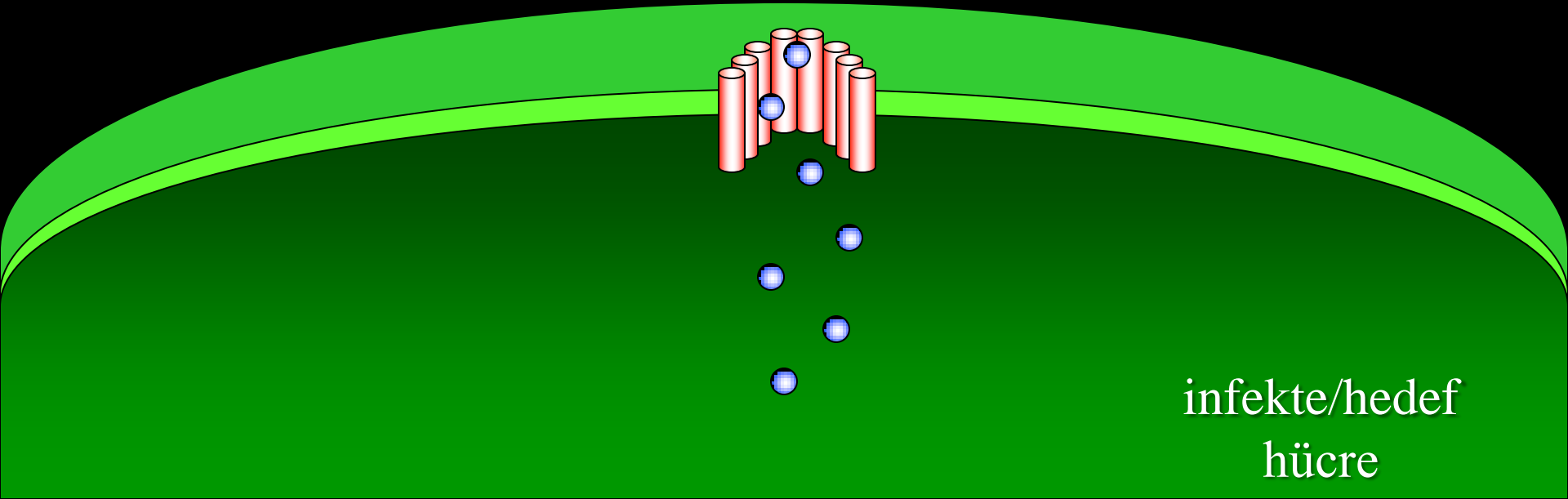
sitotoksik hücre

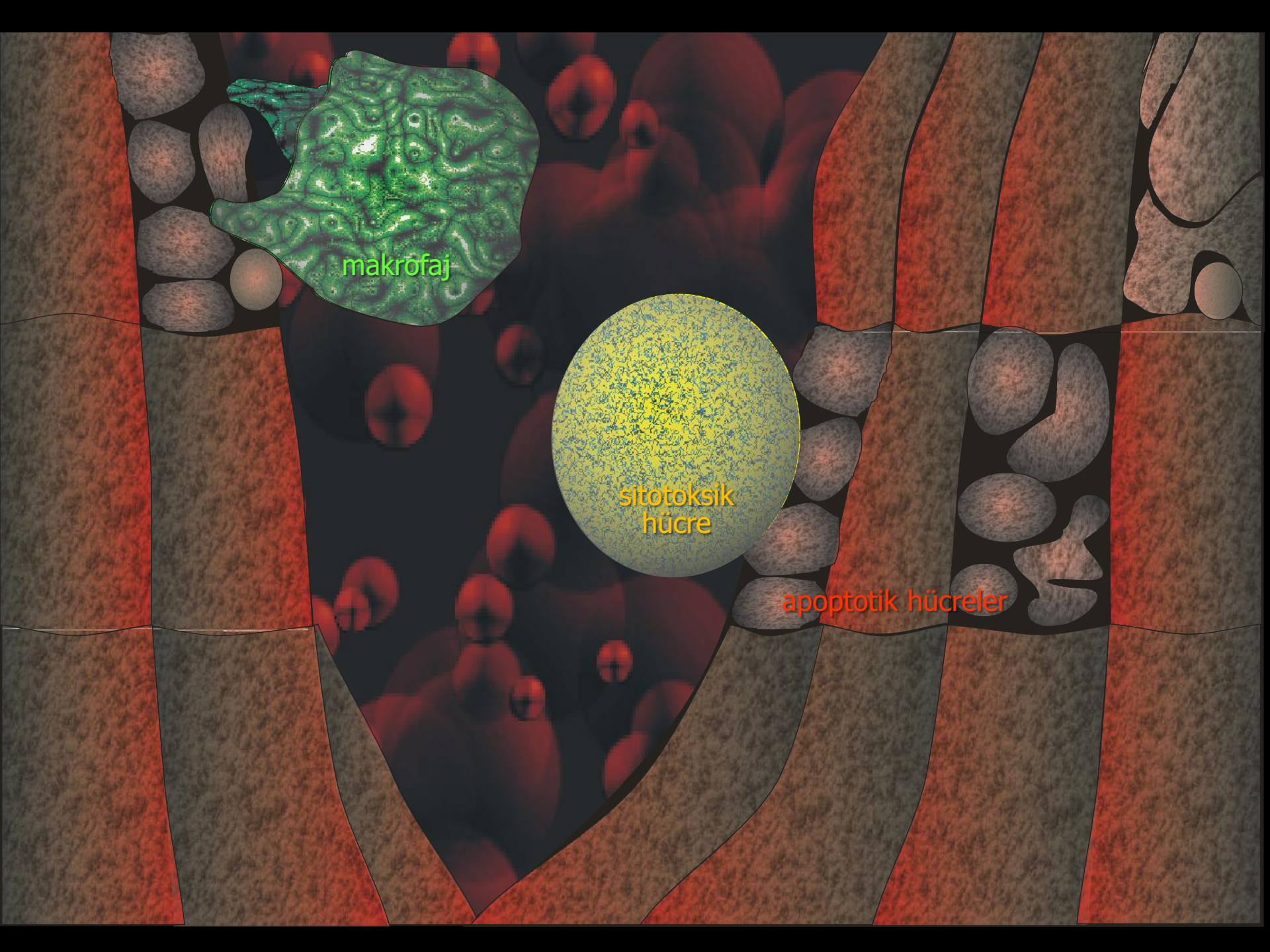


Perforin Yolu



infekte/hedef
hücre



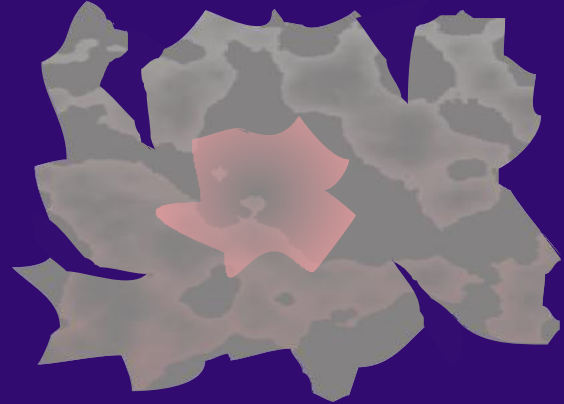
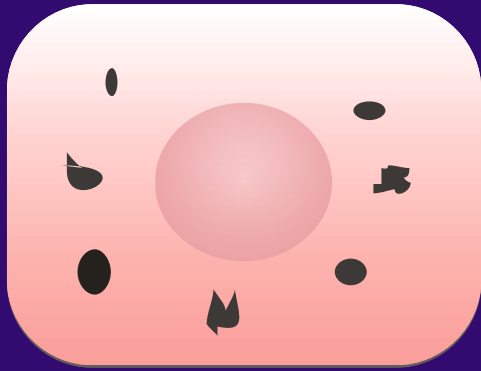


makrofaj

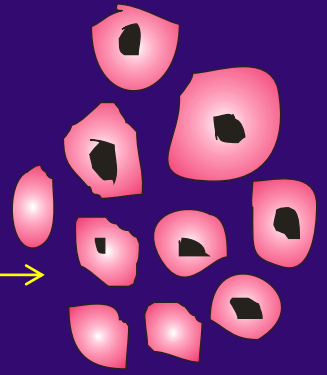
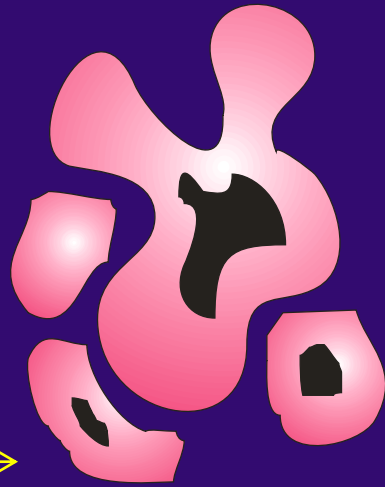
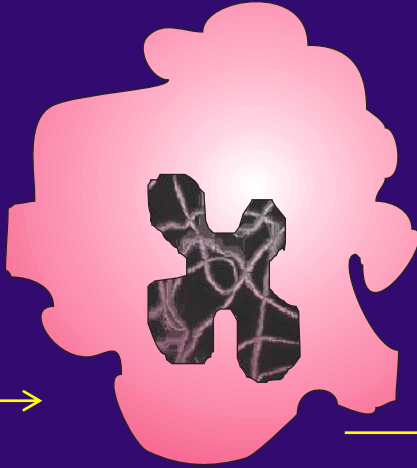
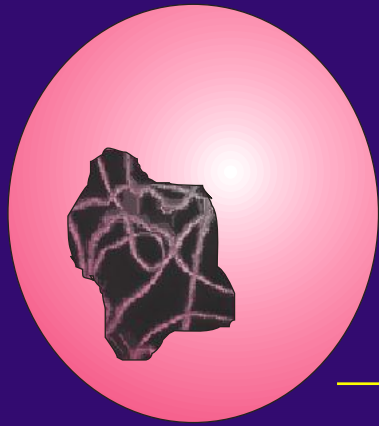
sitotoksik
hücre

apoptotik hücreler

Apoptozis

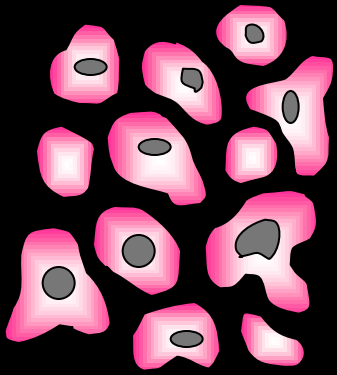
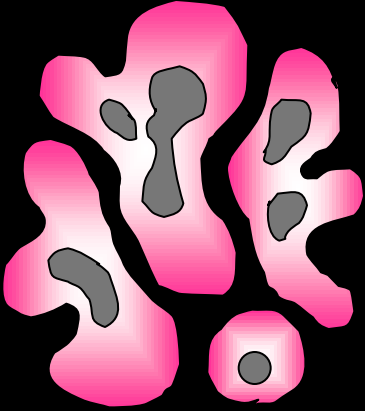
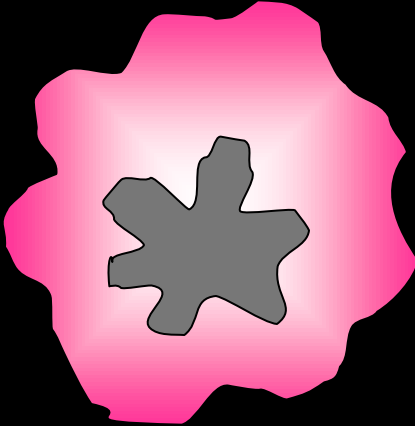
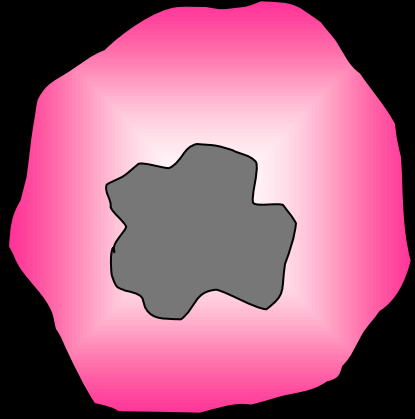
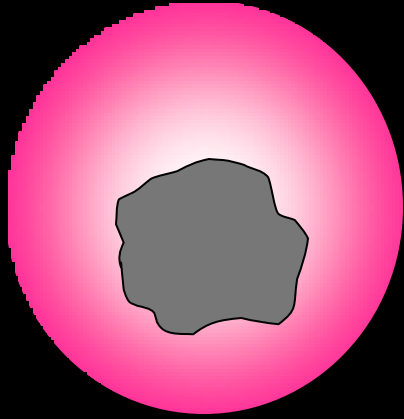
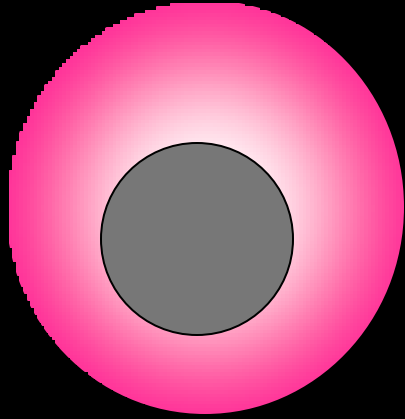


Nekroz



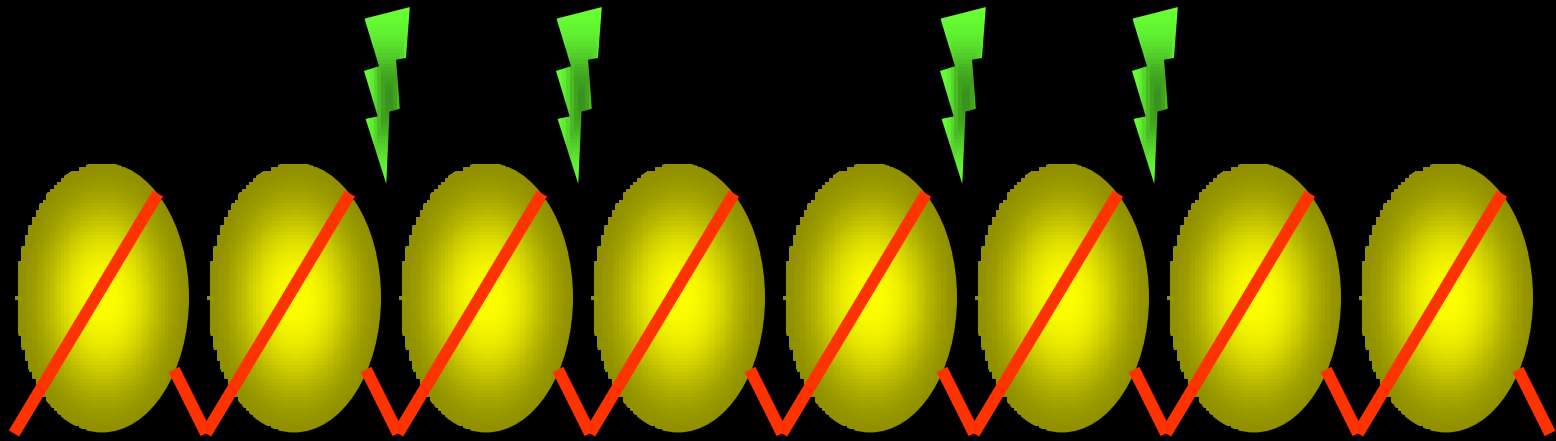
Apoptoz

Apoptozis Aşamaları

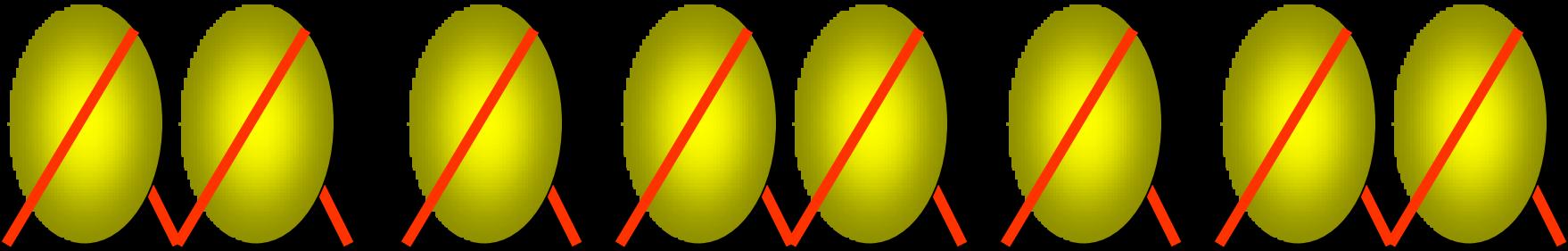


Apoptoz Mekanizması

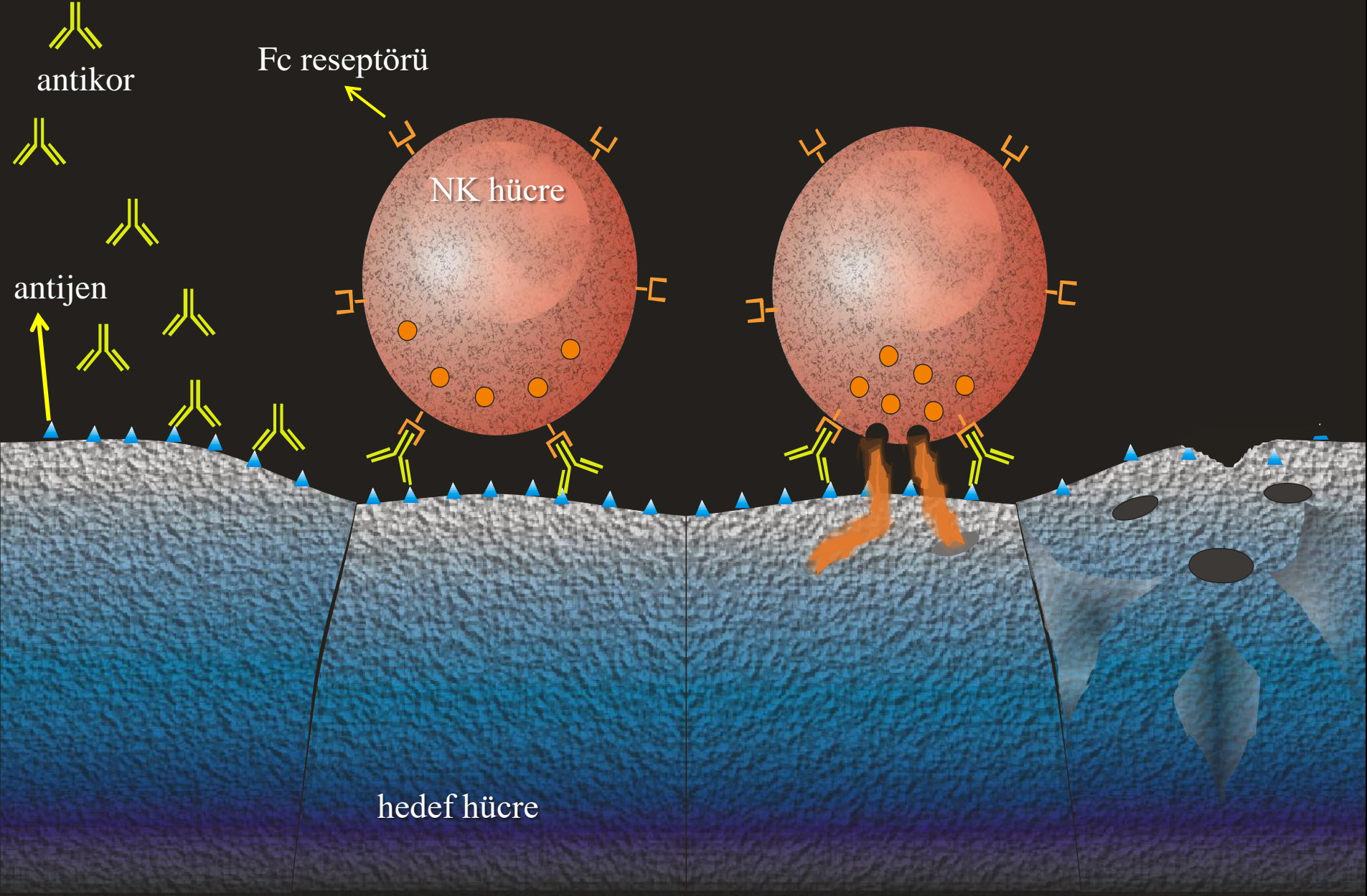
histon



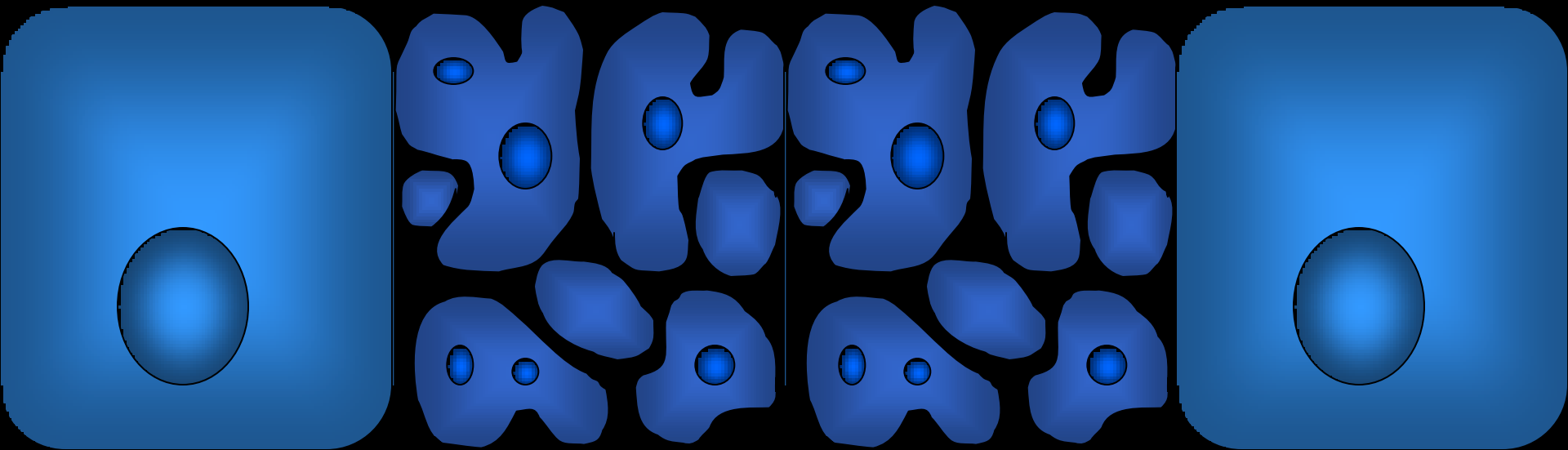
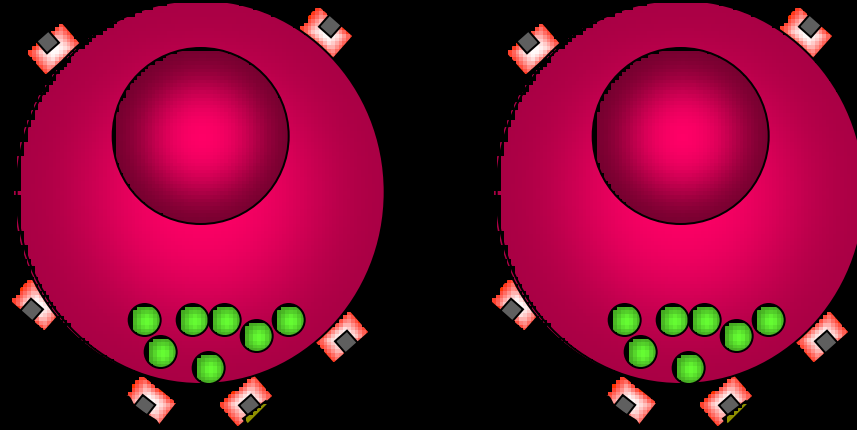
DNA



NK Hücreler: ADCC (antikora bağımlı hücresel sitotoksite)



NK Hücreler: ADCC (antikora bağımlı hücresel sitotoksite)



NK Hücresel: Direkt Sitotoksikite

Ly49

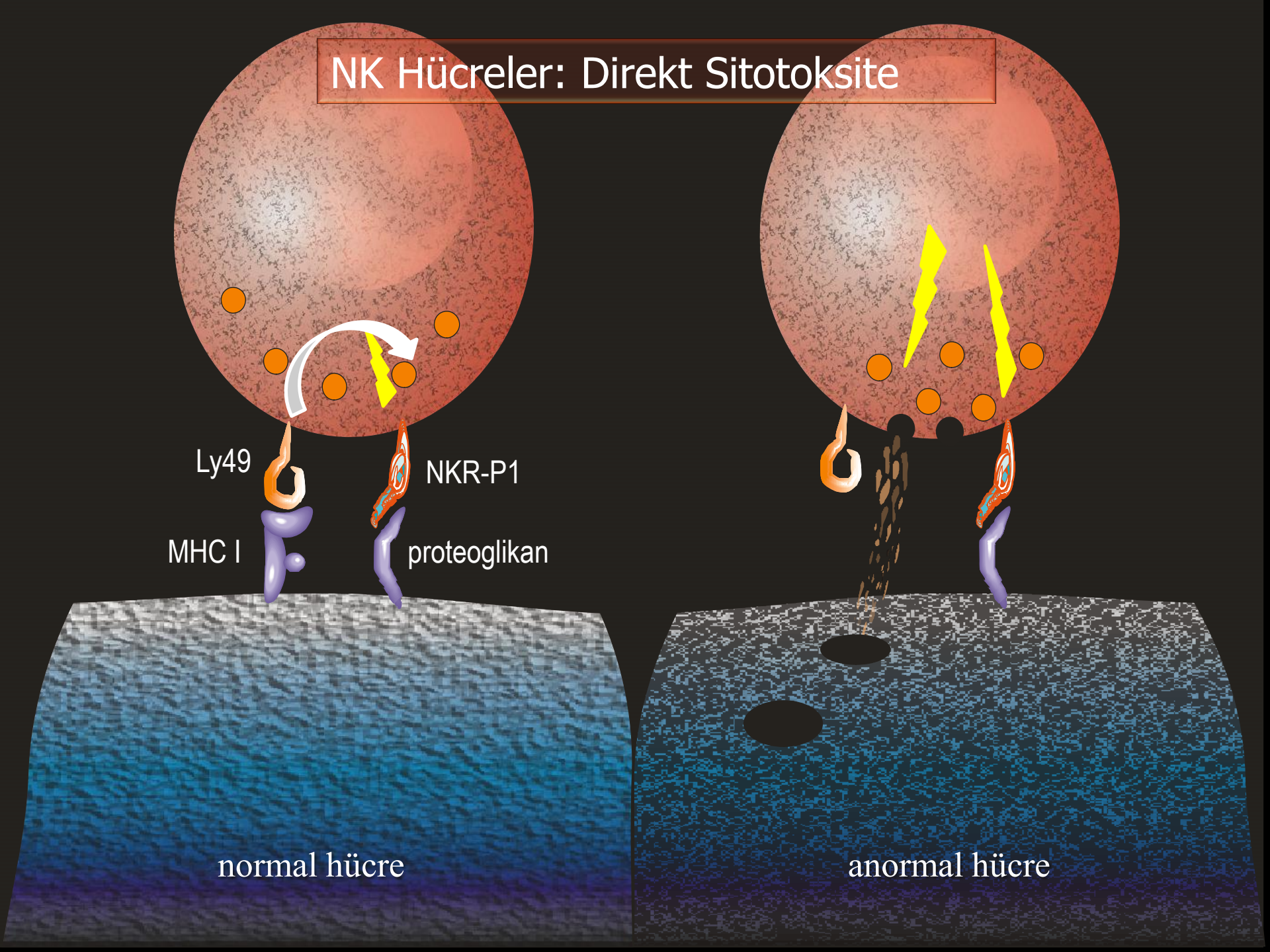
NKR-P1

MHC I

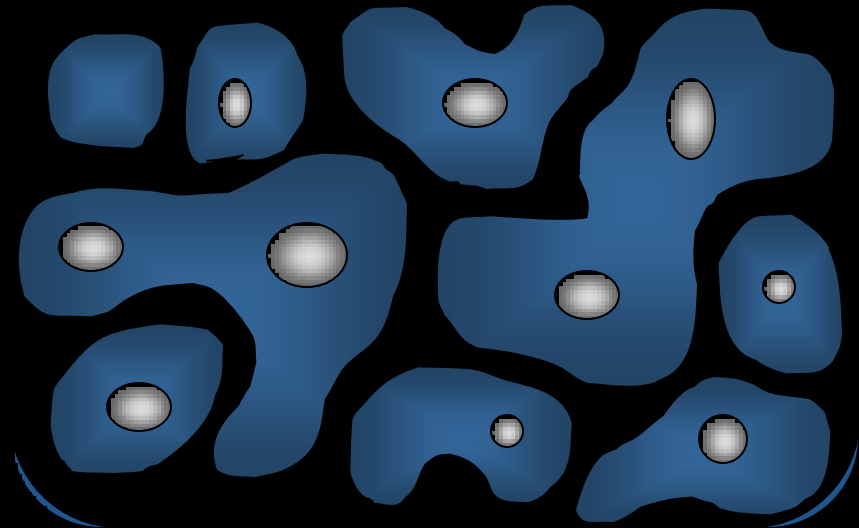
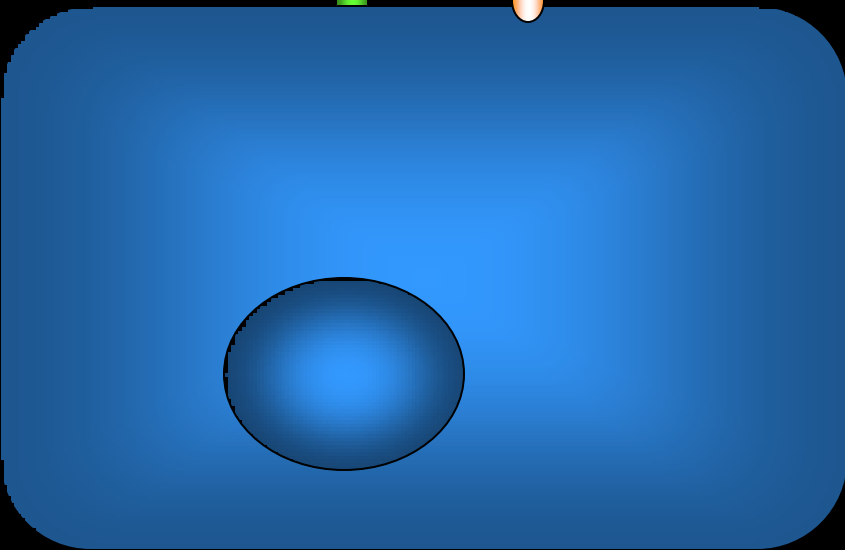
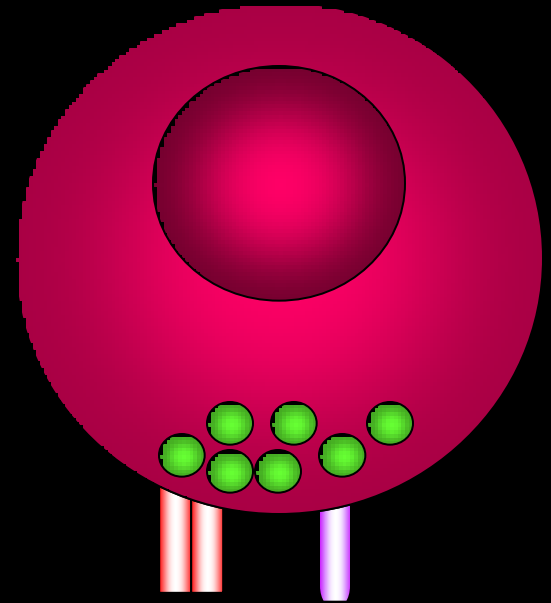
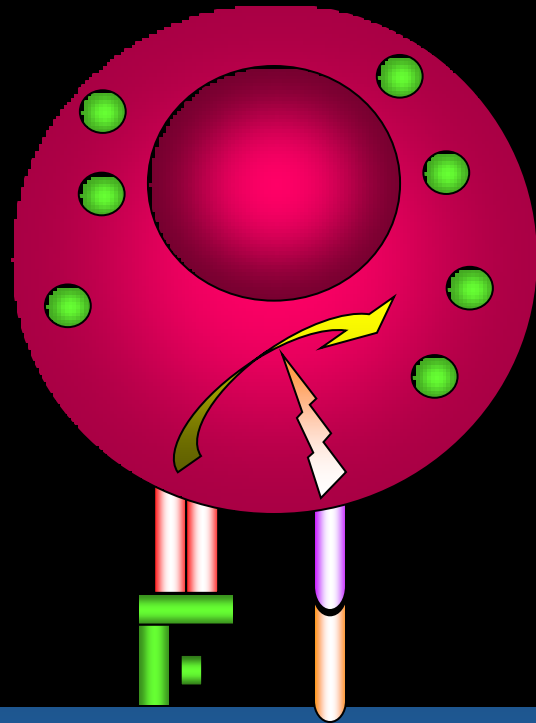
proteoglikan

normal hücre

anormal hücre



Direkt NK Hücre Sitotoksitesi



Makrofaj Aktivasyonu

