

# **Tumor Immune Escape: Clinical Observations**

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# Tumor Immunotherapy:

## Immune Escape

'Manipulated' vs 'Endogenous'

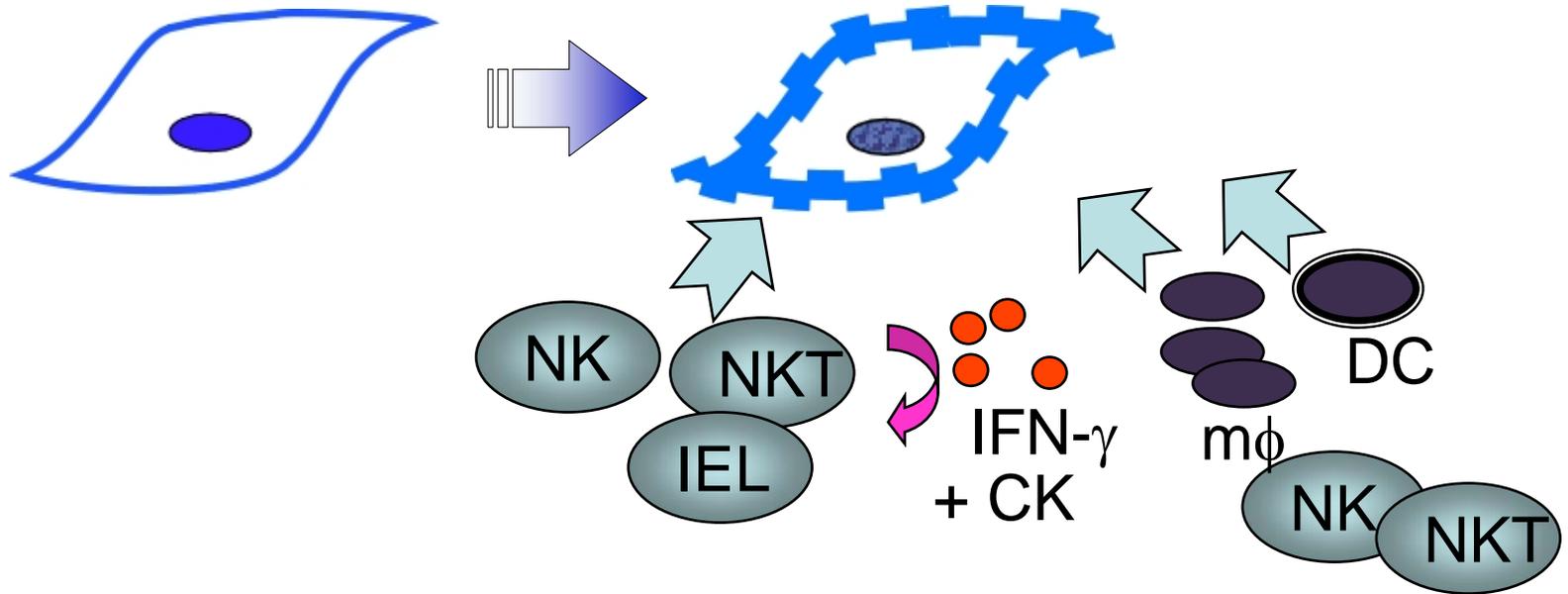


# Tumor Immune Surveillance

## *Innate Immunity*

Normal

Tumor

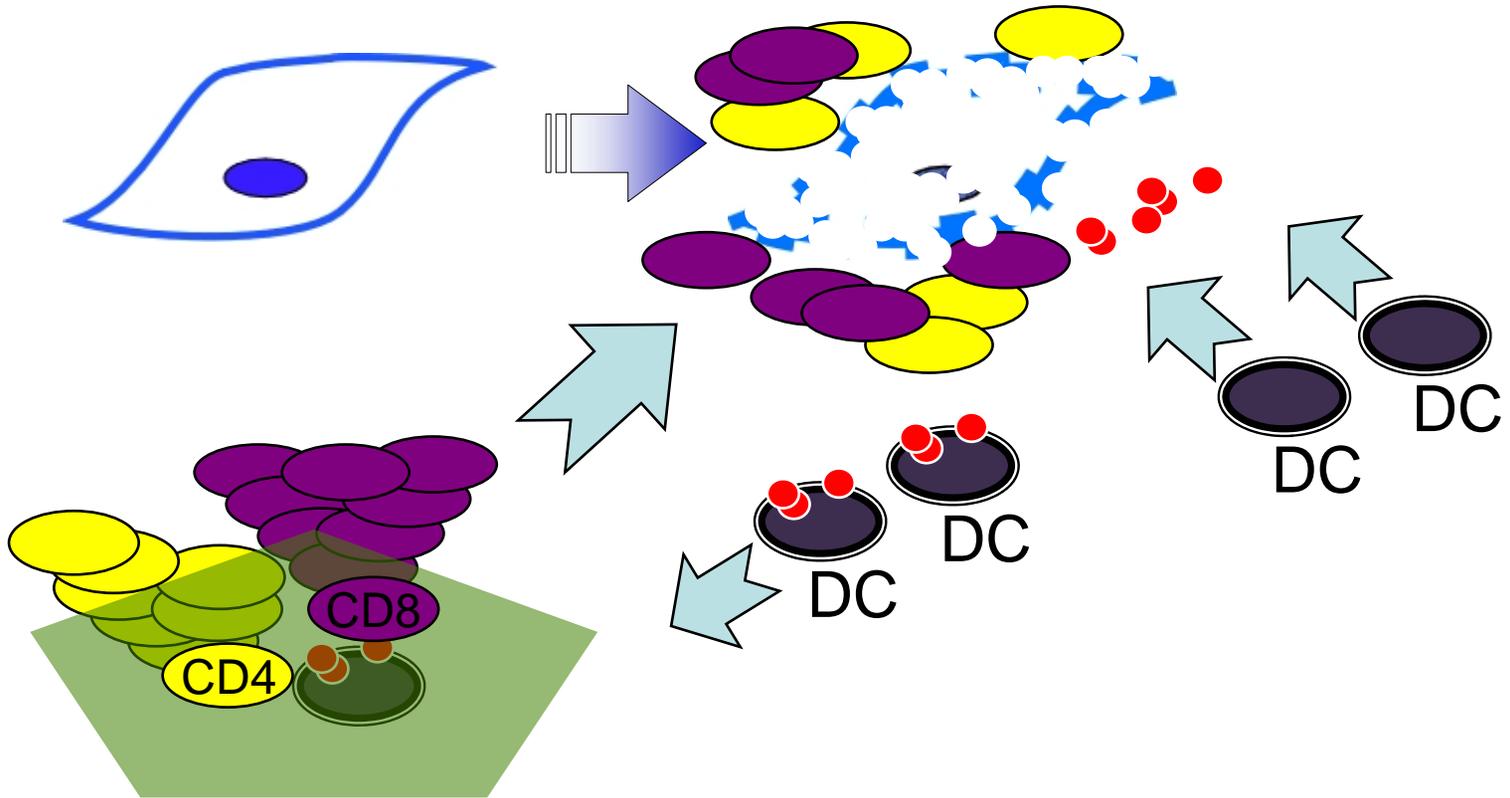


# Tumor Immune Surveillance

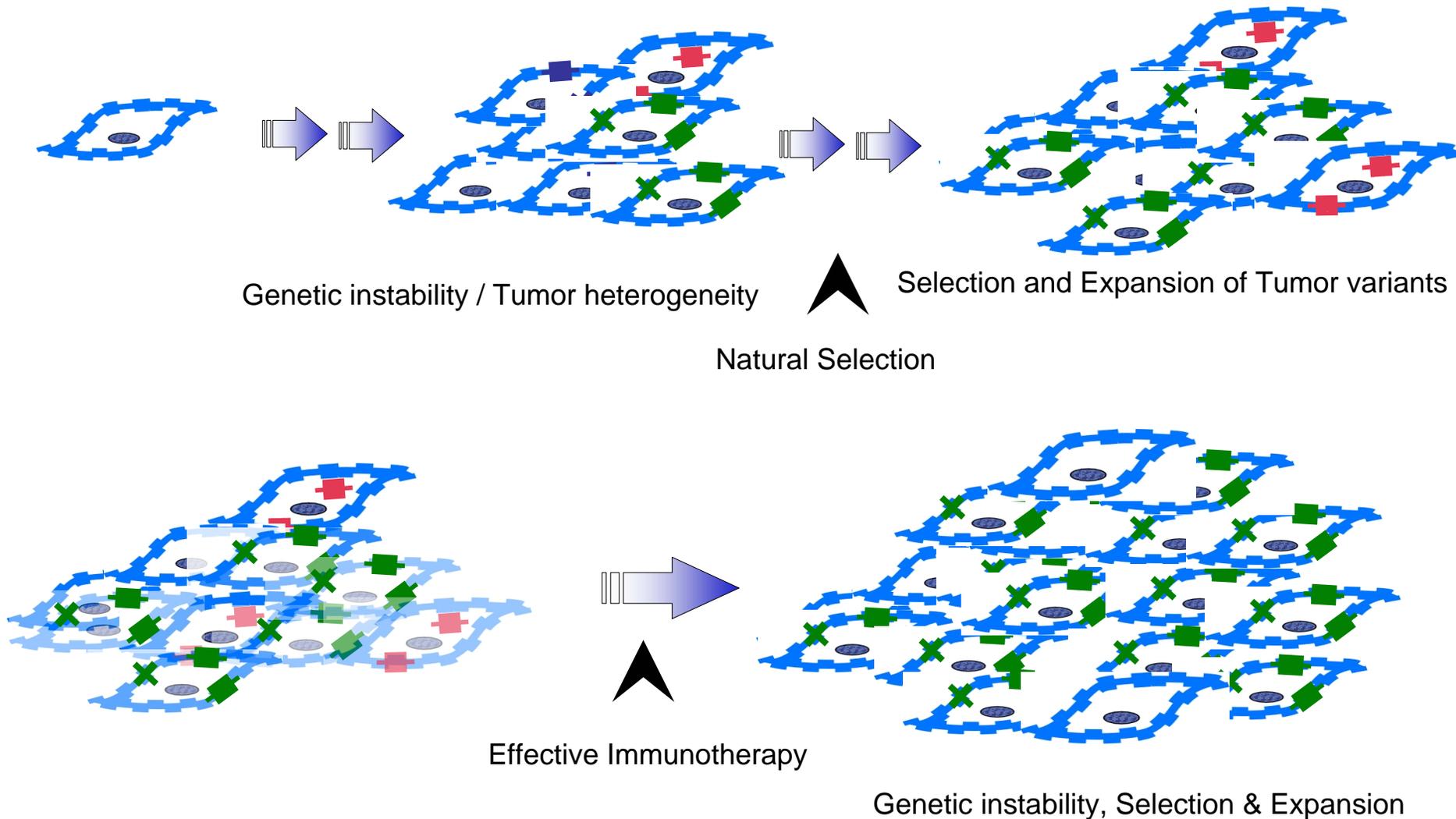
## *Adaptive Immunity*

Normal

Tumor



# Immunoediting and Immunoselection

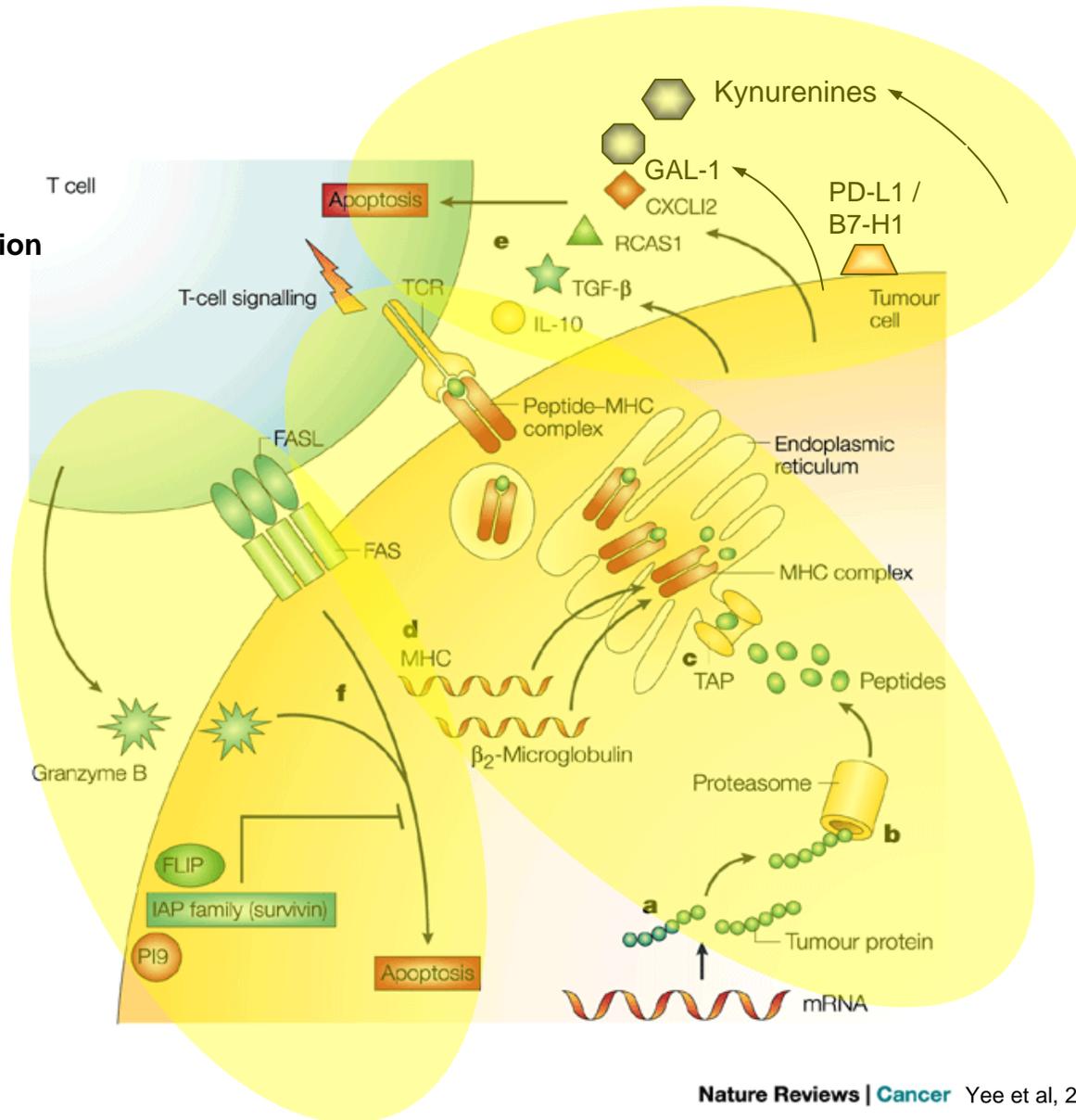


# TUMOR CELL - ASSOCIATED

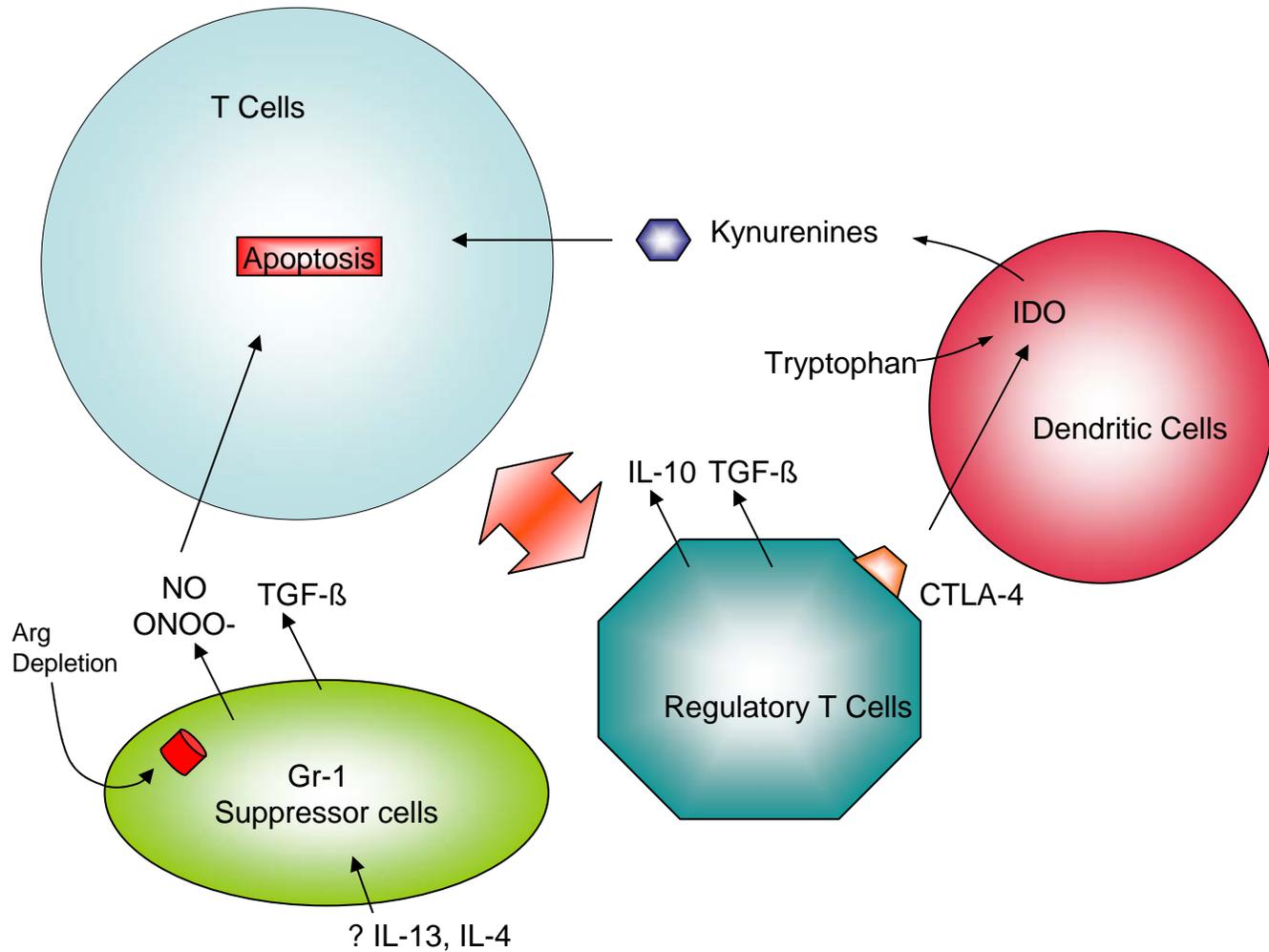
Antigen Processing/Presentation

Inhibitors of Apoptosis

Counterattack



# ACCESSORY CELL - ASSOCIATED



# Mechanistic Considerations of Tumor Immune Escape

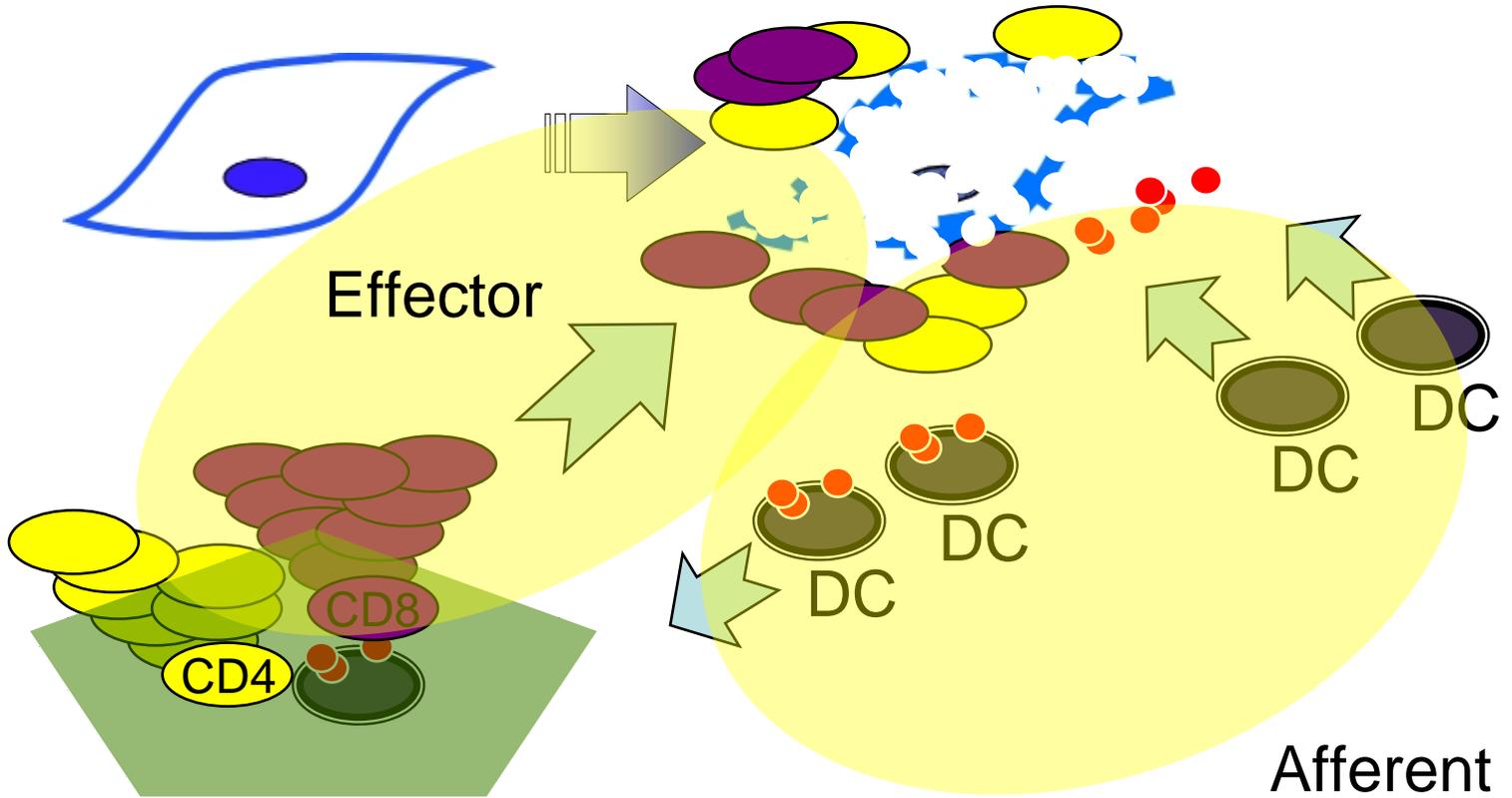
- ❖ What makes a tumor site uniquely immunosuppressive?
- ❖ Interplay among different regulatory mechanisms and immune cells

# Tumor Immune Surveillance

## *Adaptive Immunity*

Normal

Tumor



# Mechanistic Considerations of Tumor Immune Escape

- ❖ What makes a tumor site uniquely immunosuppressive?
- ❖ Interplay among different regulatory mechanisms and immune cells
- ❖ Models to identify novel mechanisms of immune escape and evaluate potential solutions?

# Translational Considerations for Evaluating and Overcoming Tumor Immune Escape

- ❖ Do these mechanisms exist in vivo?
- ❖ Relevance in subverting a clinical response?
- ❖ Availability of tools to monitor immune escape ?
- ❖ Design of clinical trials to monitor and evaluate these factors?
- ❖ Interventions - reagents or strategies ?

Tumor Immune Escape  
Workshop Participants

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Hung Khong

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