

Immunoresist project

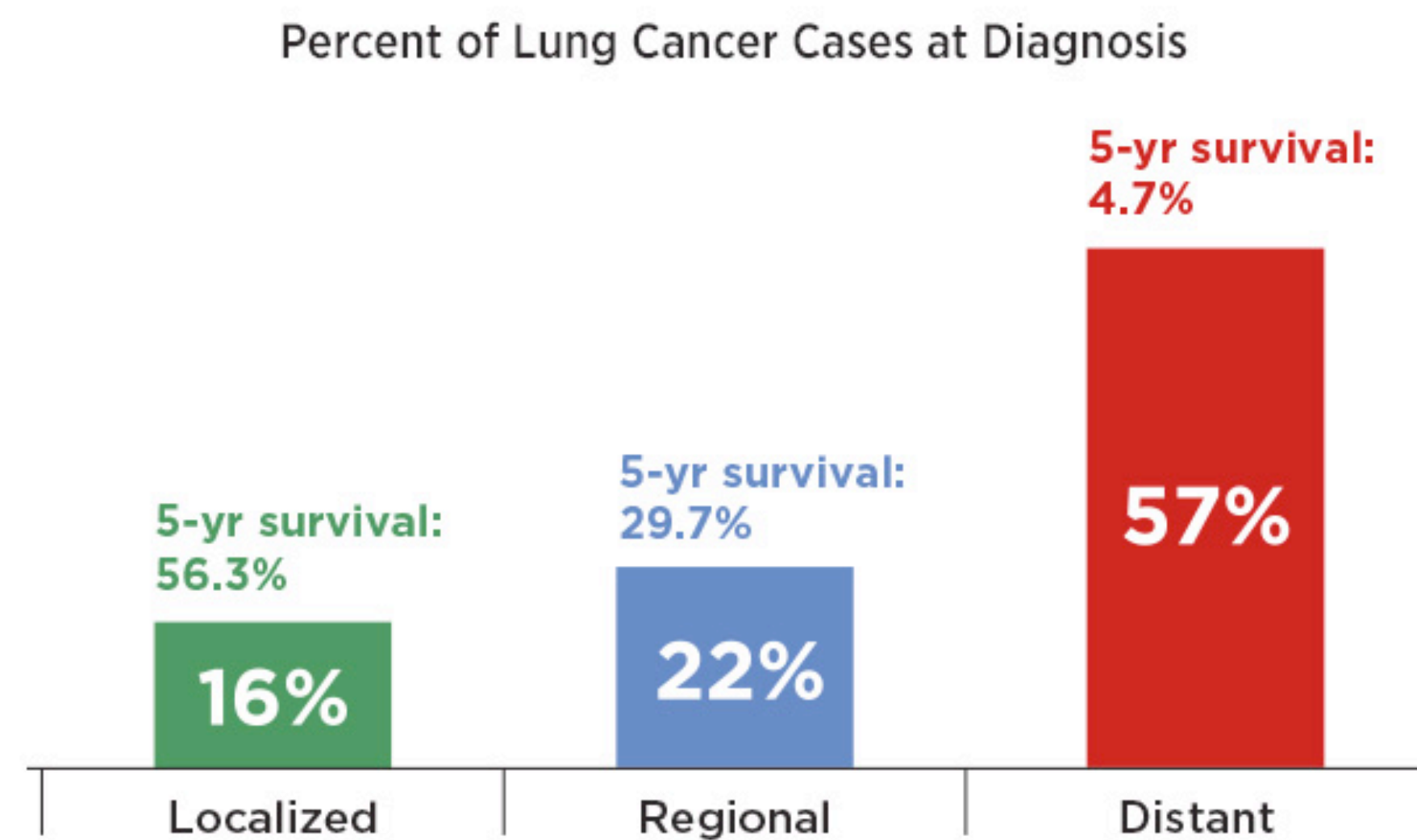
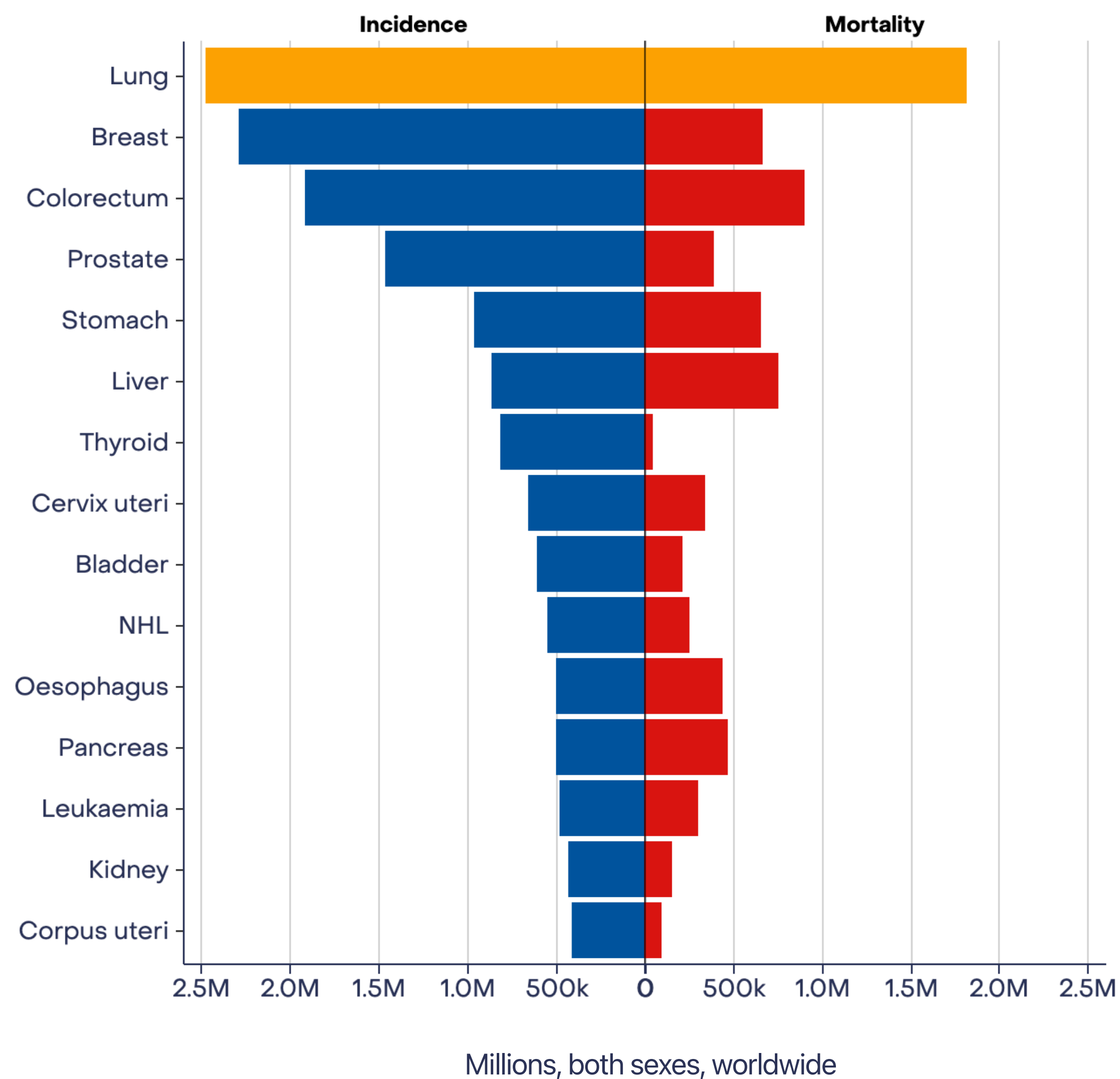
Better prediction of **sensitivity** to immune checkpoints inhibitors in **non-small cell lung cancer**, through the combination of immune markers

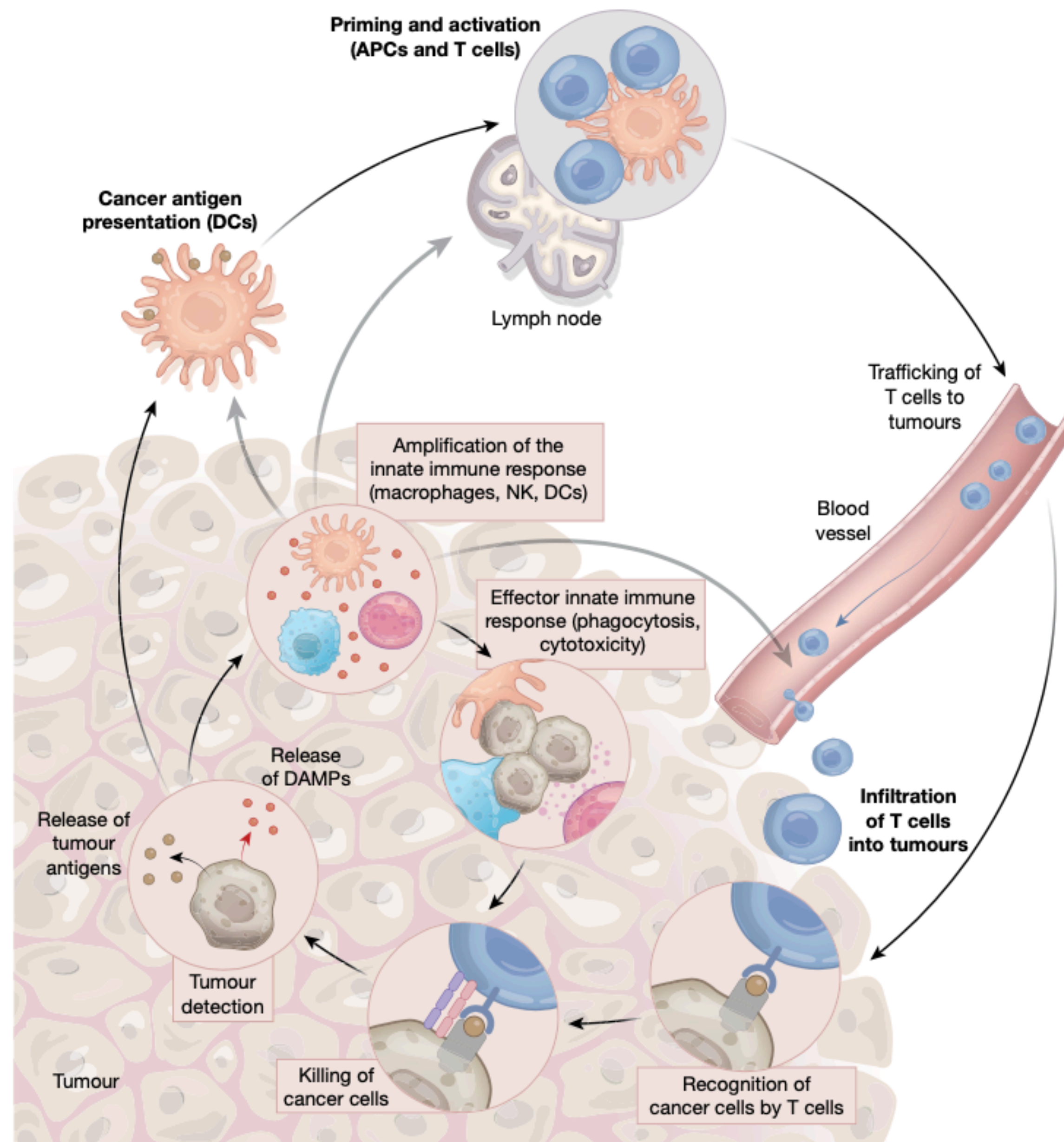
Basil Bertrand
Thibaut Wolf
Clément Tondon
Lucile Pabst

Quentin Creusot
Arthur Bénédic
Louis Vallois
Erwan Pencreach

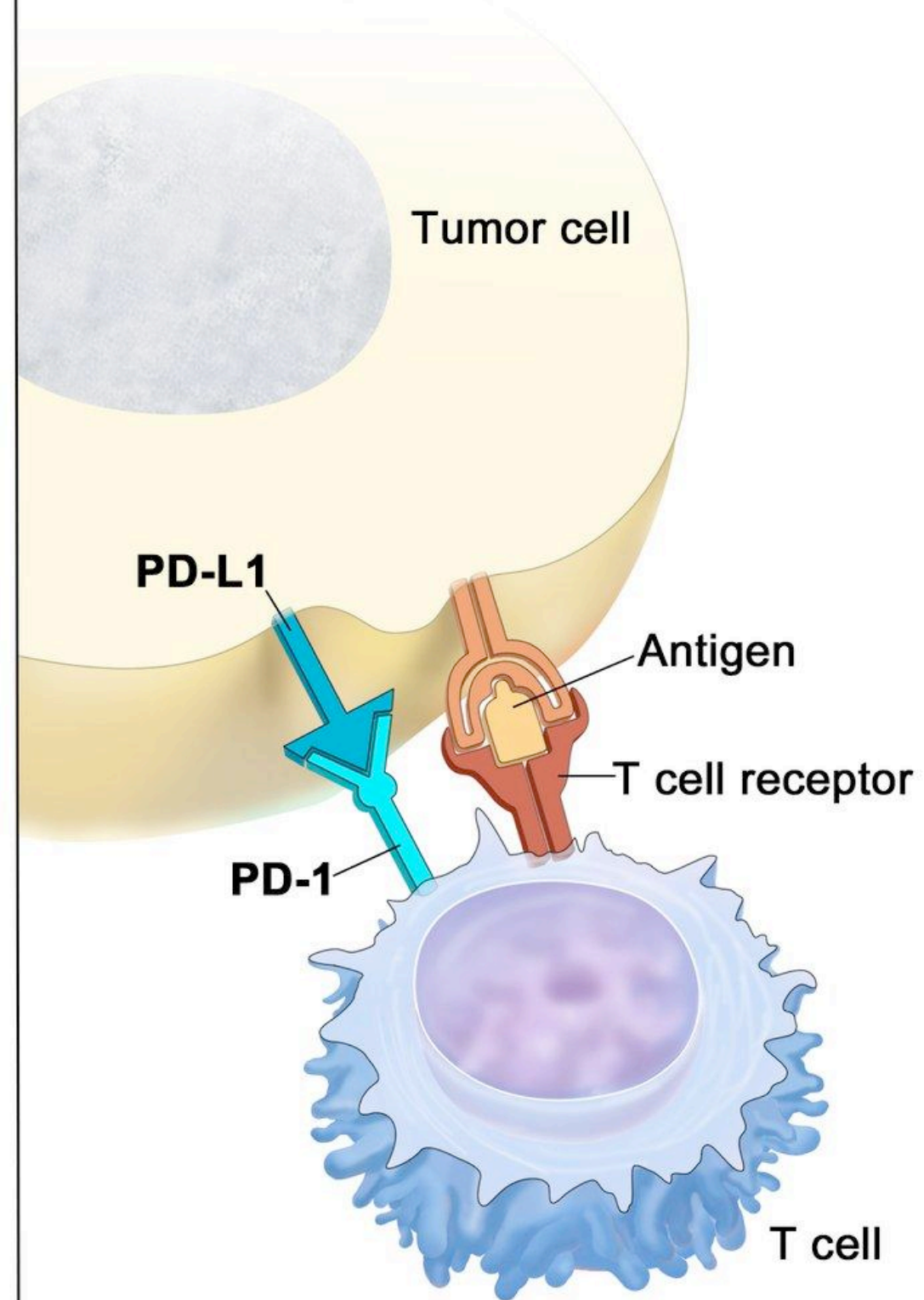
Michèle Beau-Faller
Véronique Lindner
Marie-Pierre Chenard
Céline Mascaux



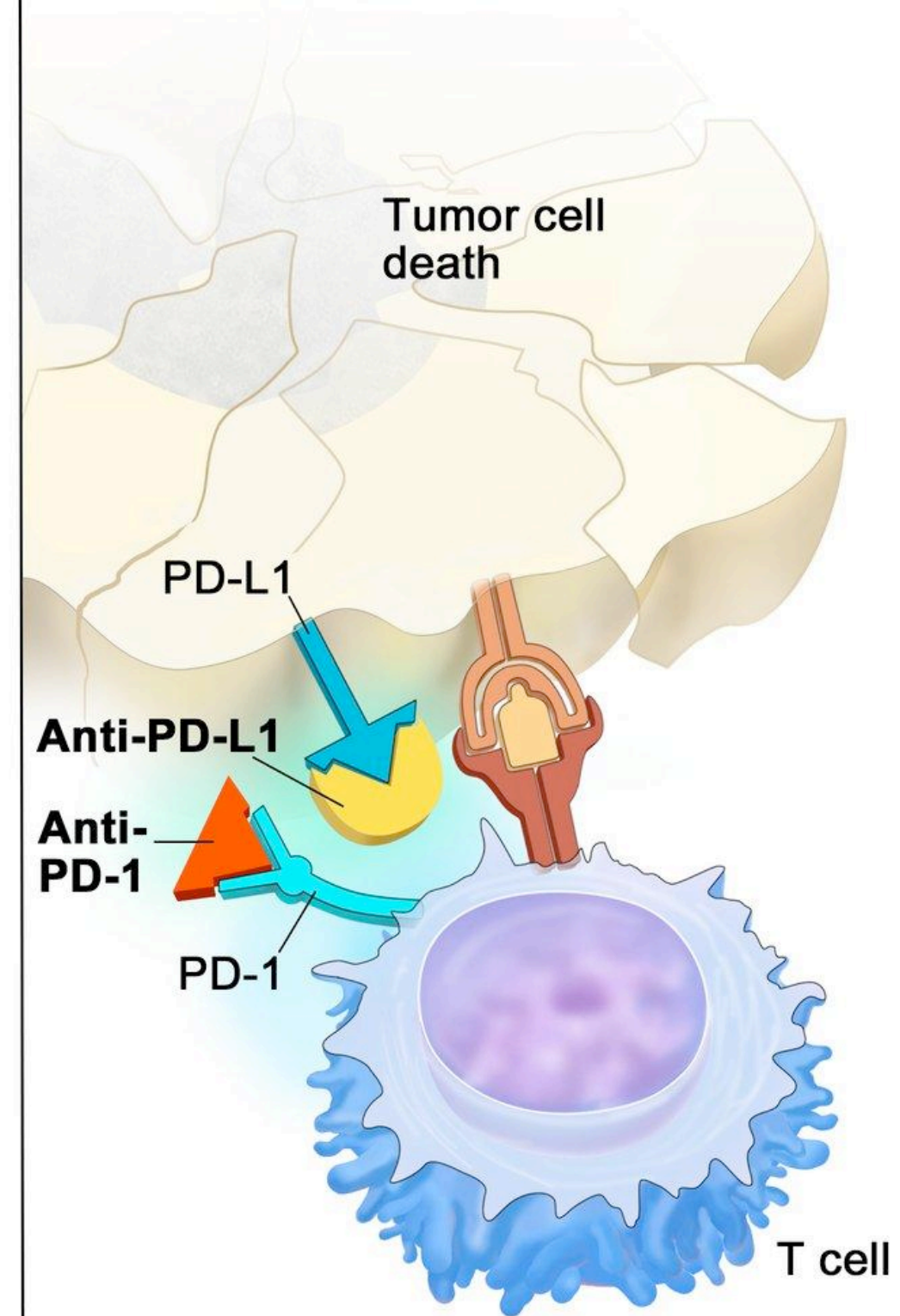




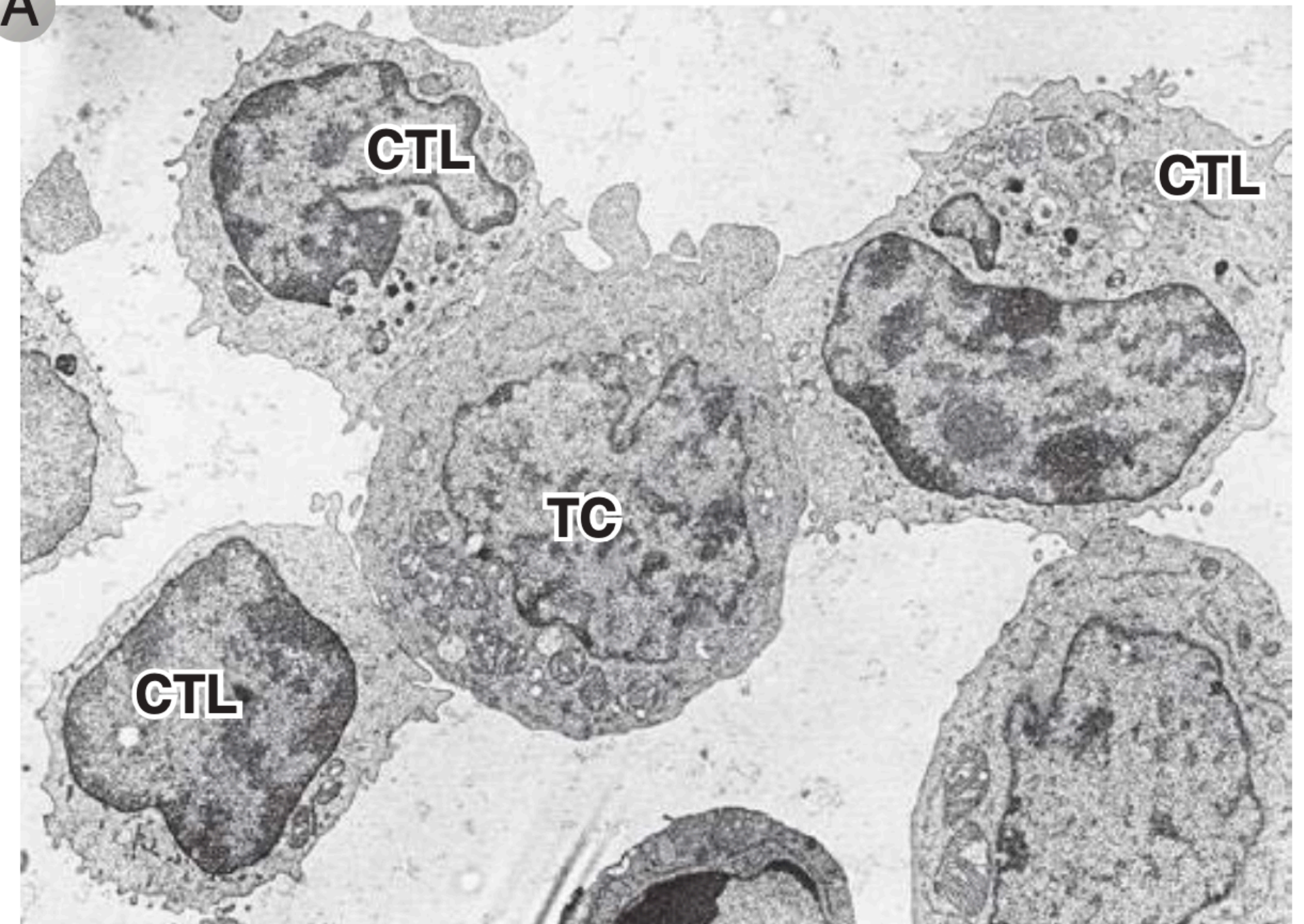
PD-L1 binds to PD-1 and inhibits T cell killing of tumor cell



Blocking PD-L1 or PD-1 allows T cell killing of tumor cell



A





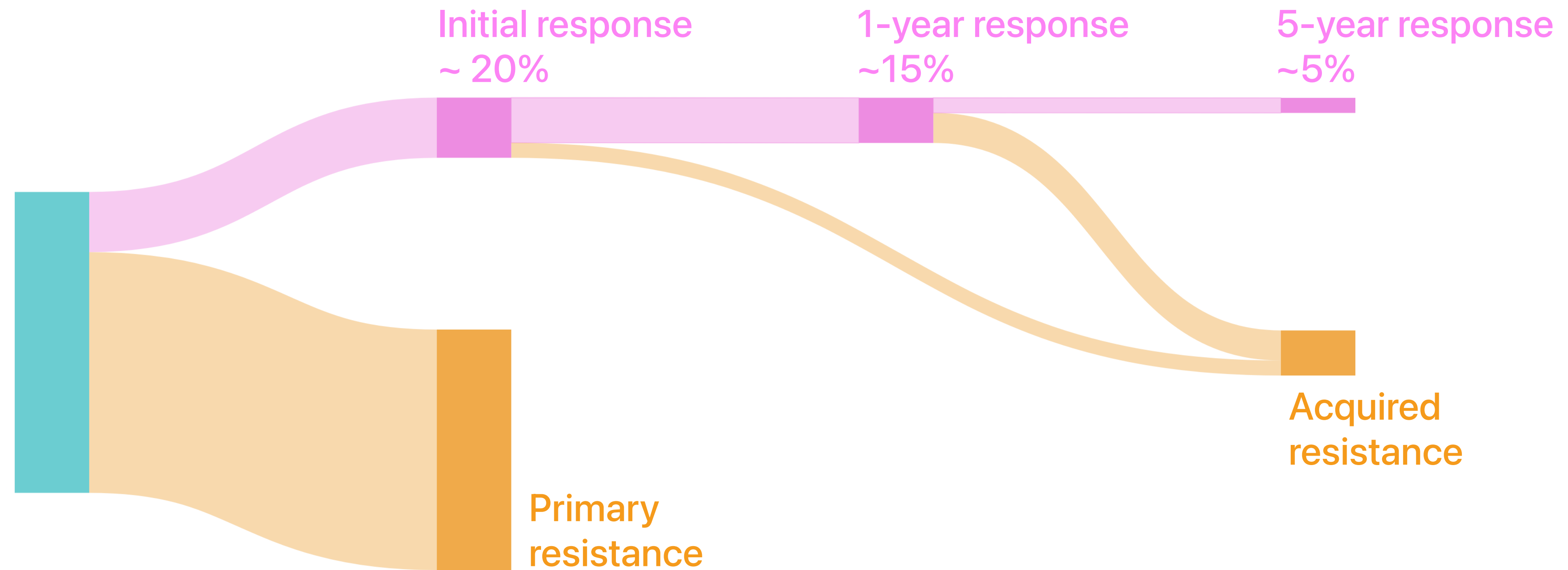
James Allison

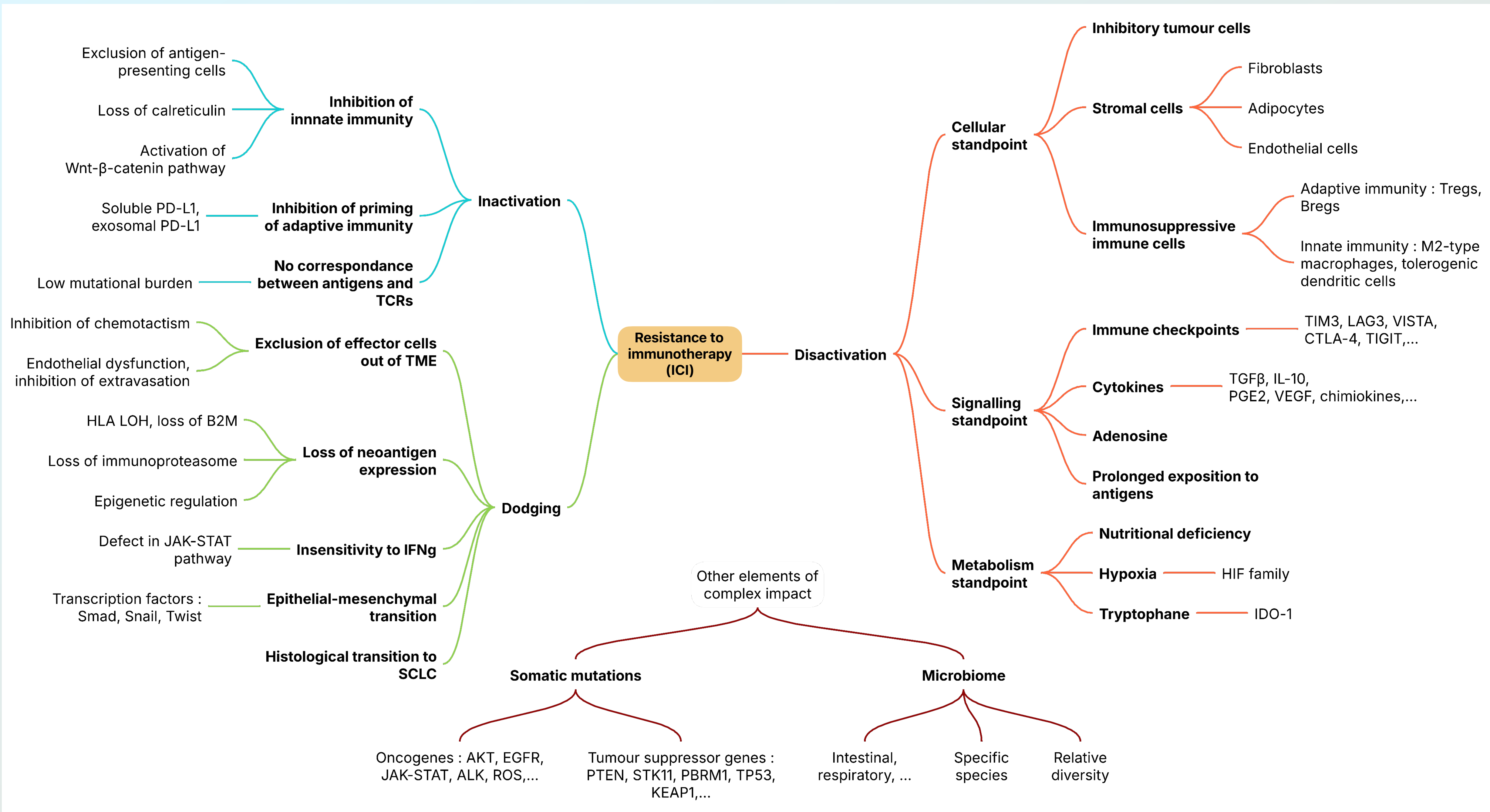
Tasuku Honjo

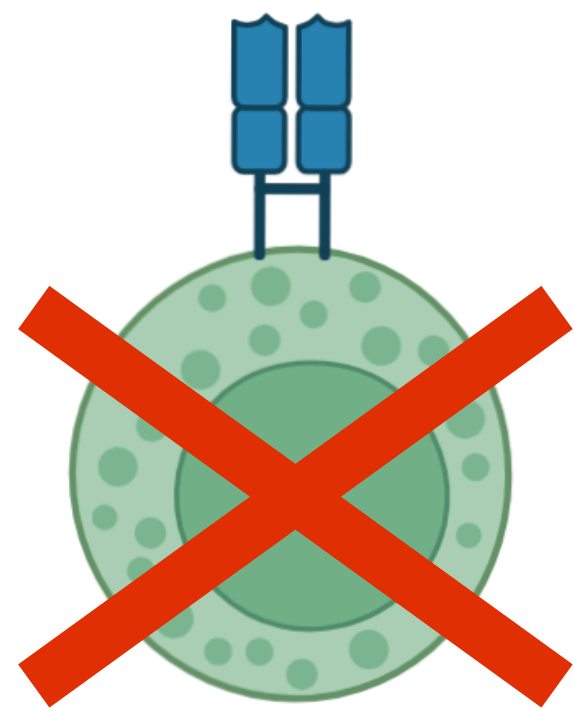
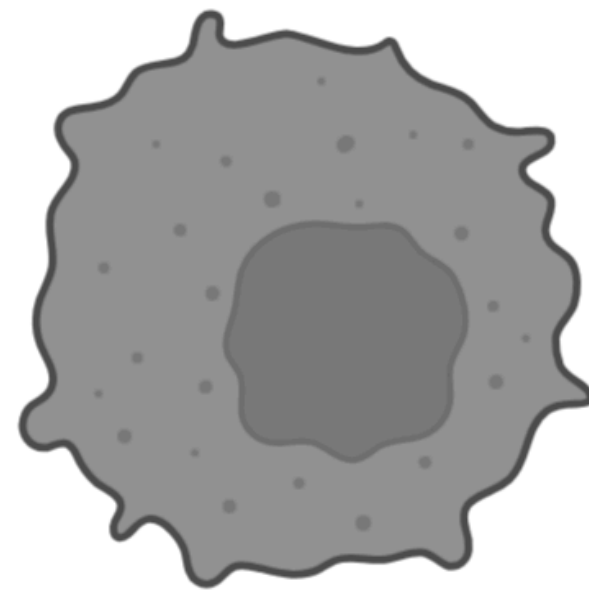
3 struggles (at least)

- | | |
|------------|--------------------------------------|
| Struggle 1 | Low response rate to ICI |
| Struggle 2 | Prediction of response to ICI |
| Struggle 3 | Overcome resistance to ICI |

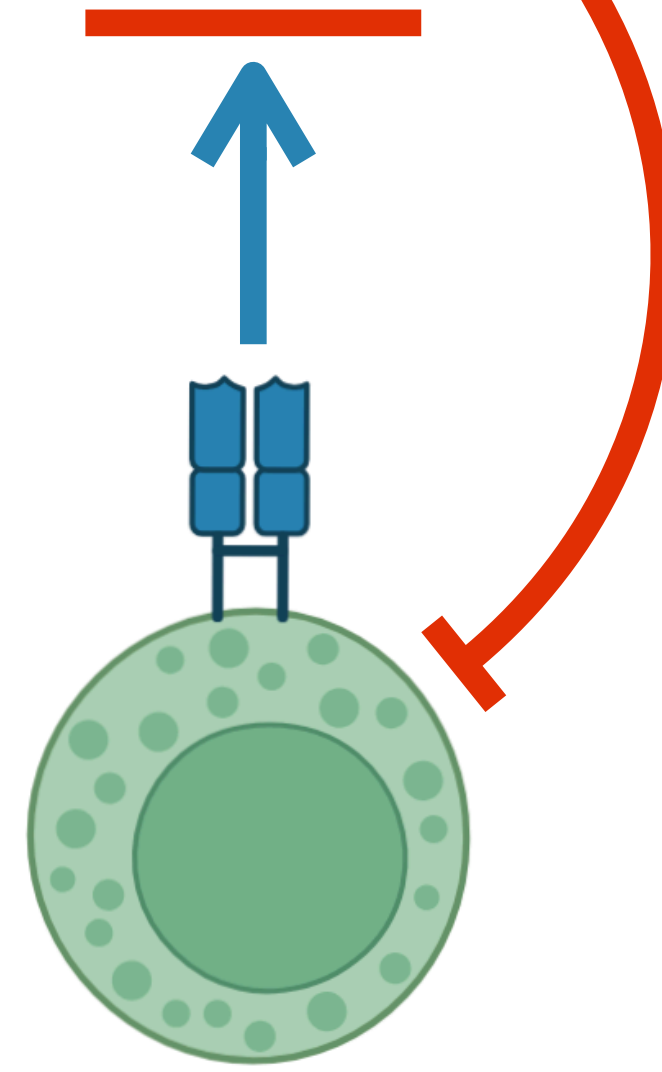
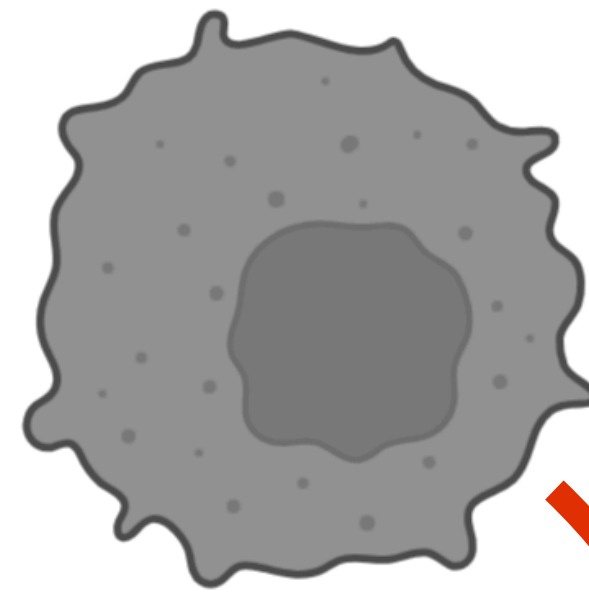
Struggle 1 : low response rate



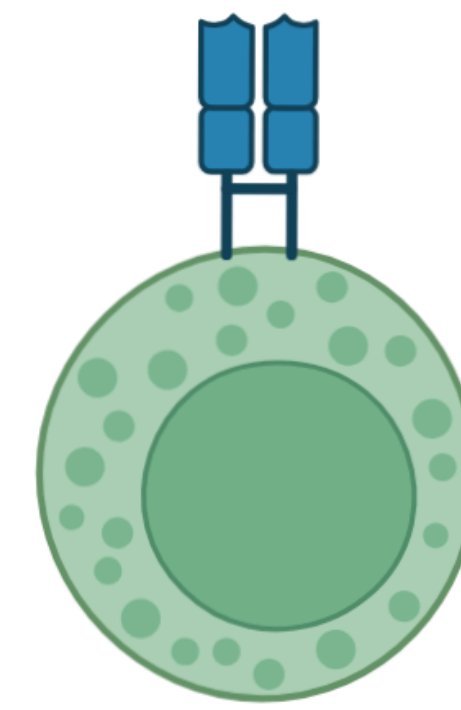
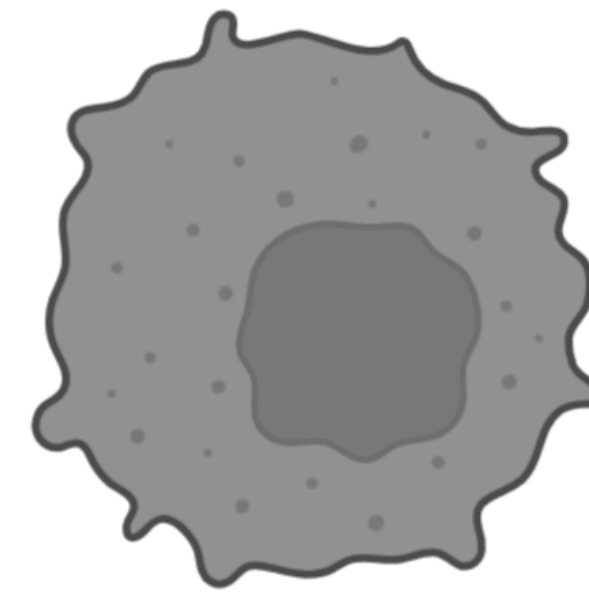




Inactivation



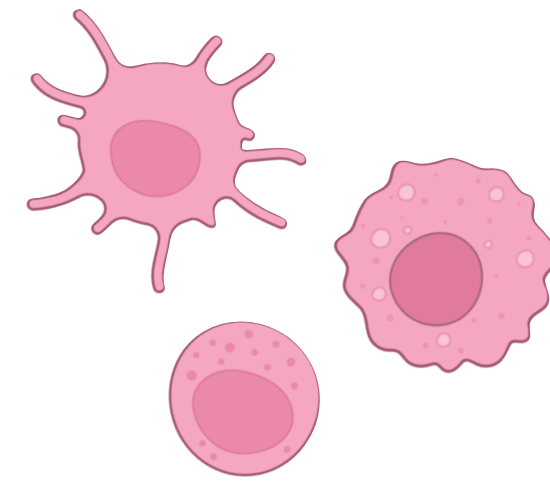
Disactivation



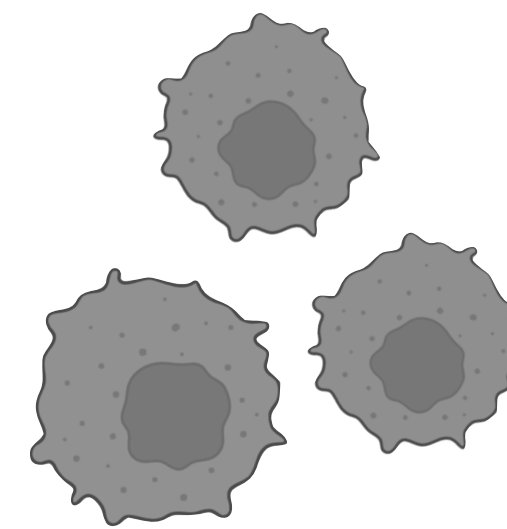
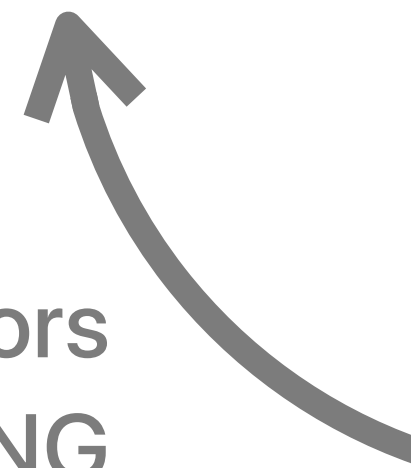
Dodging

Innate immunity

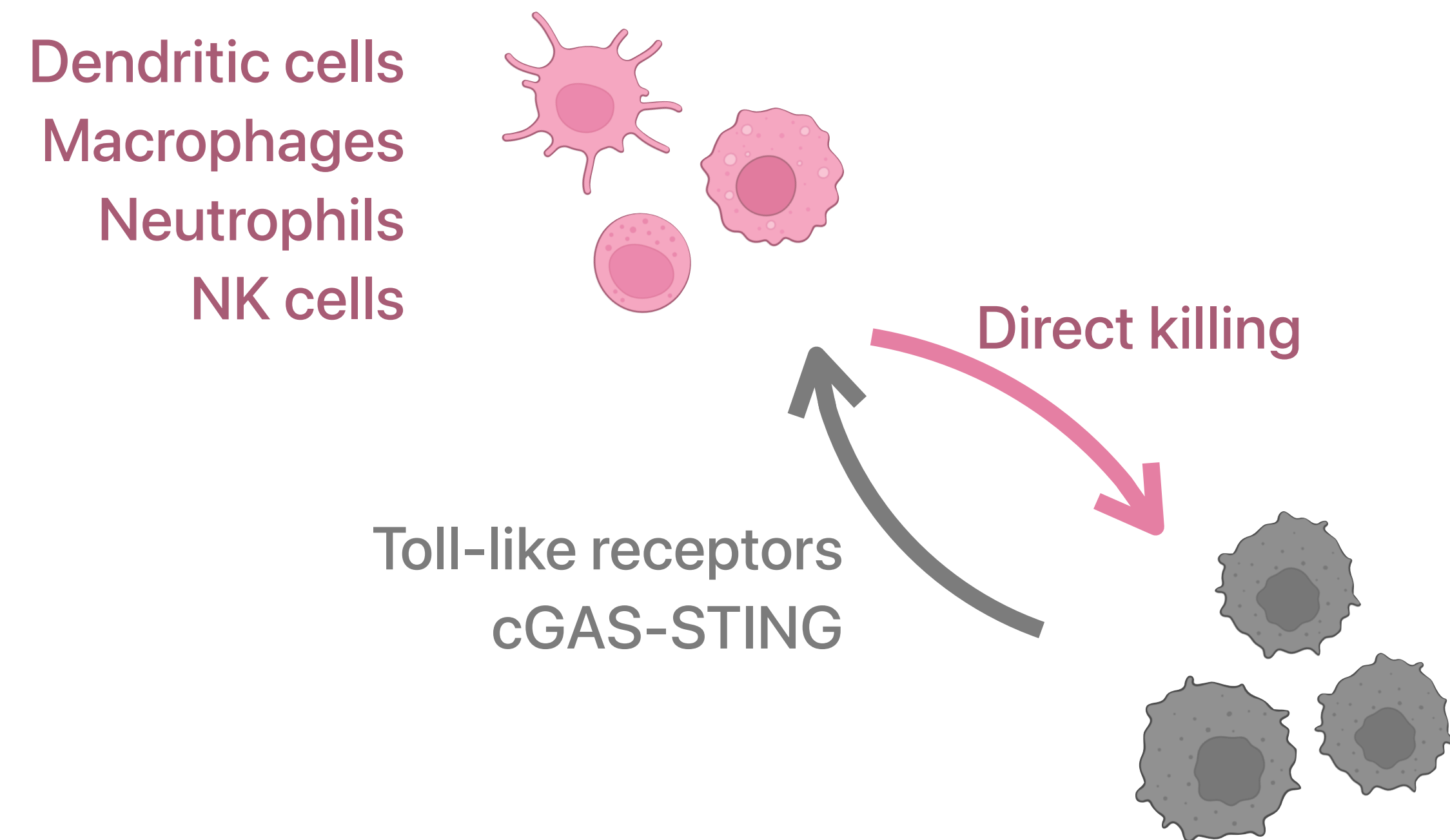
Dendritic cells
Macrophages
Neutrophils
NK cells



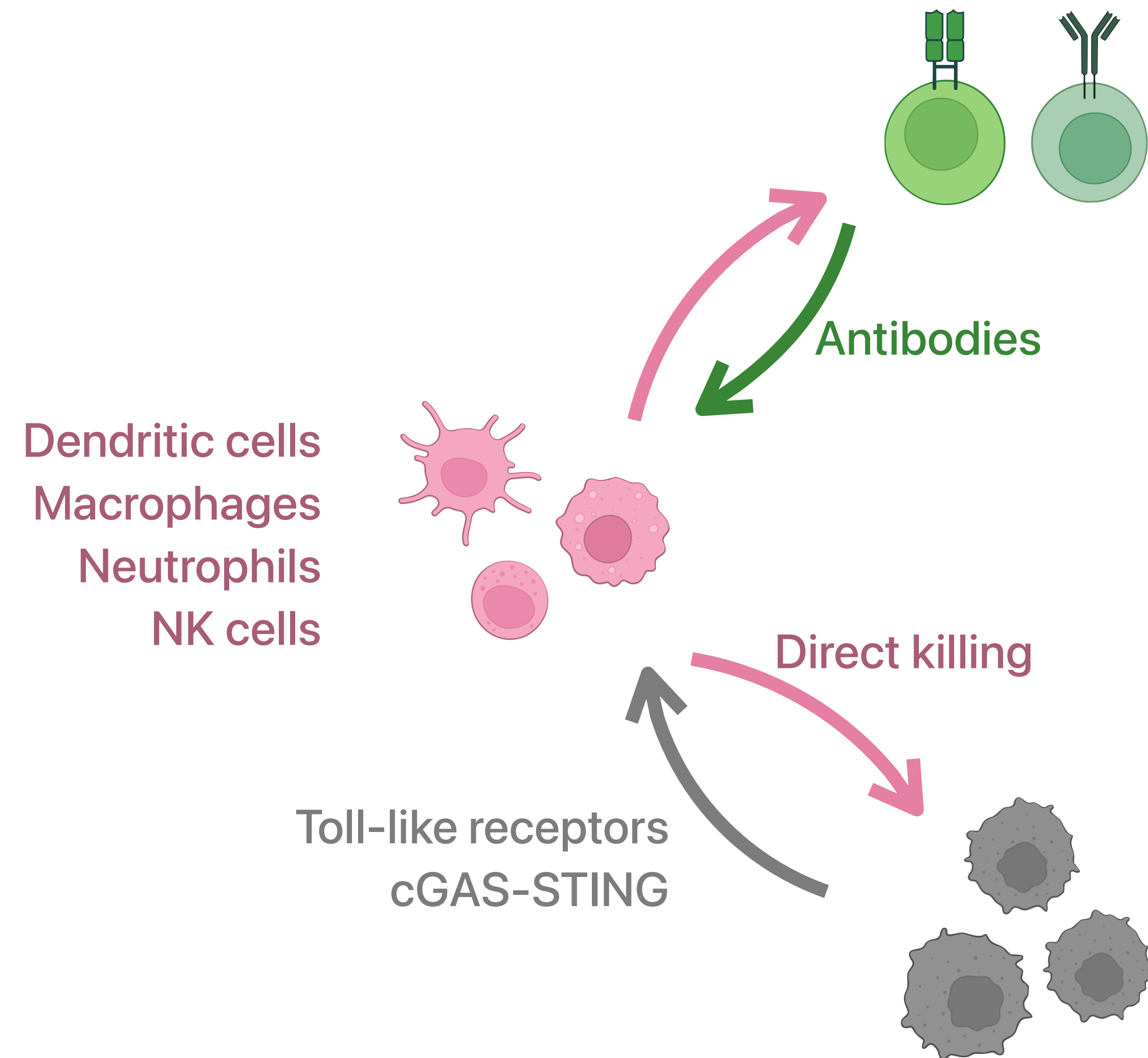
Toll-like receptors
cGAS-STING



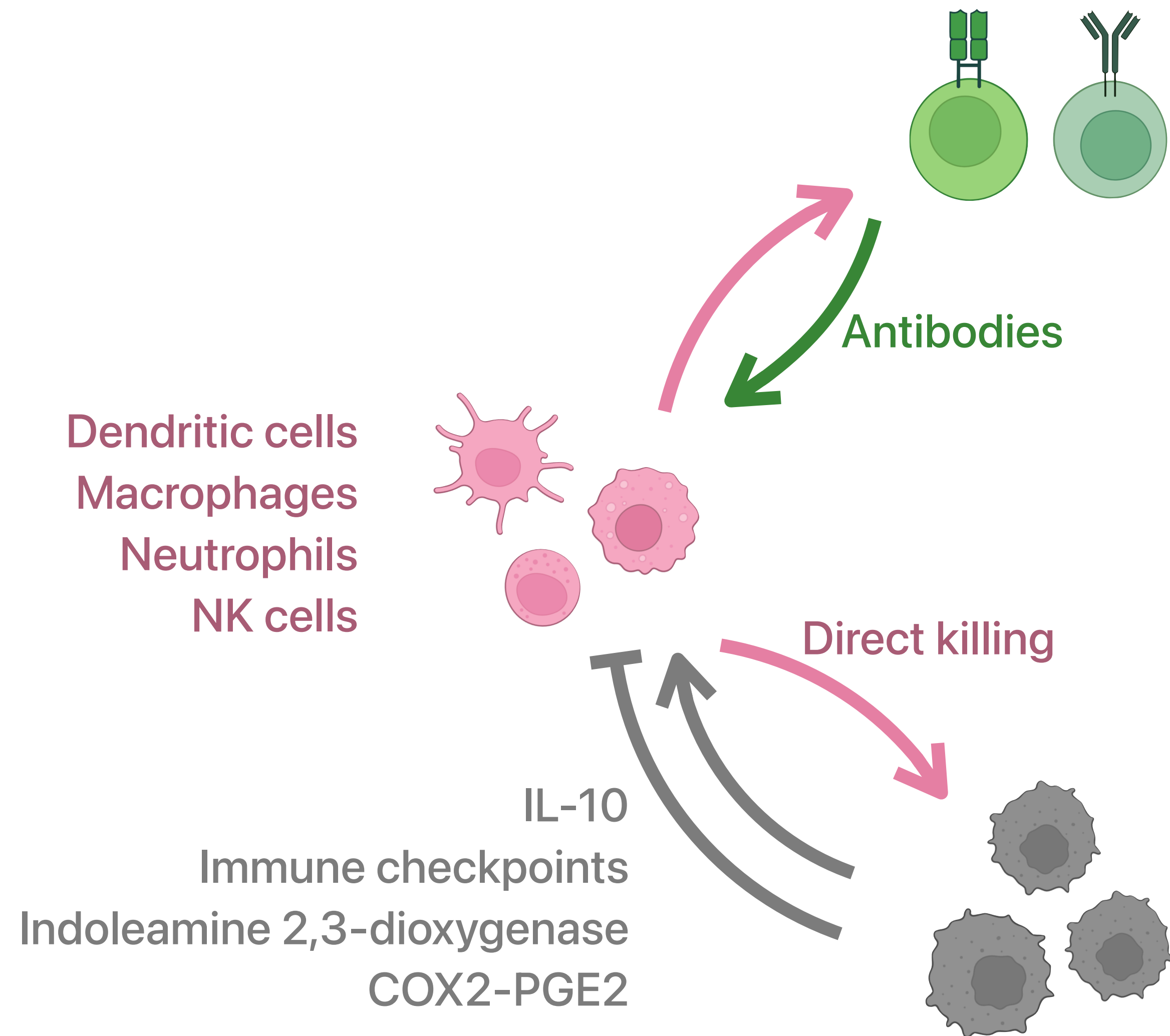
Innate immunity



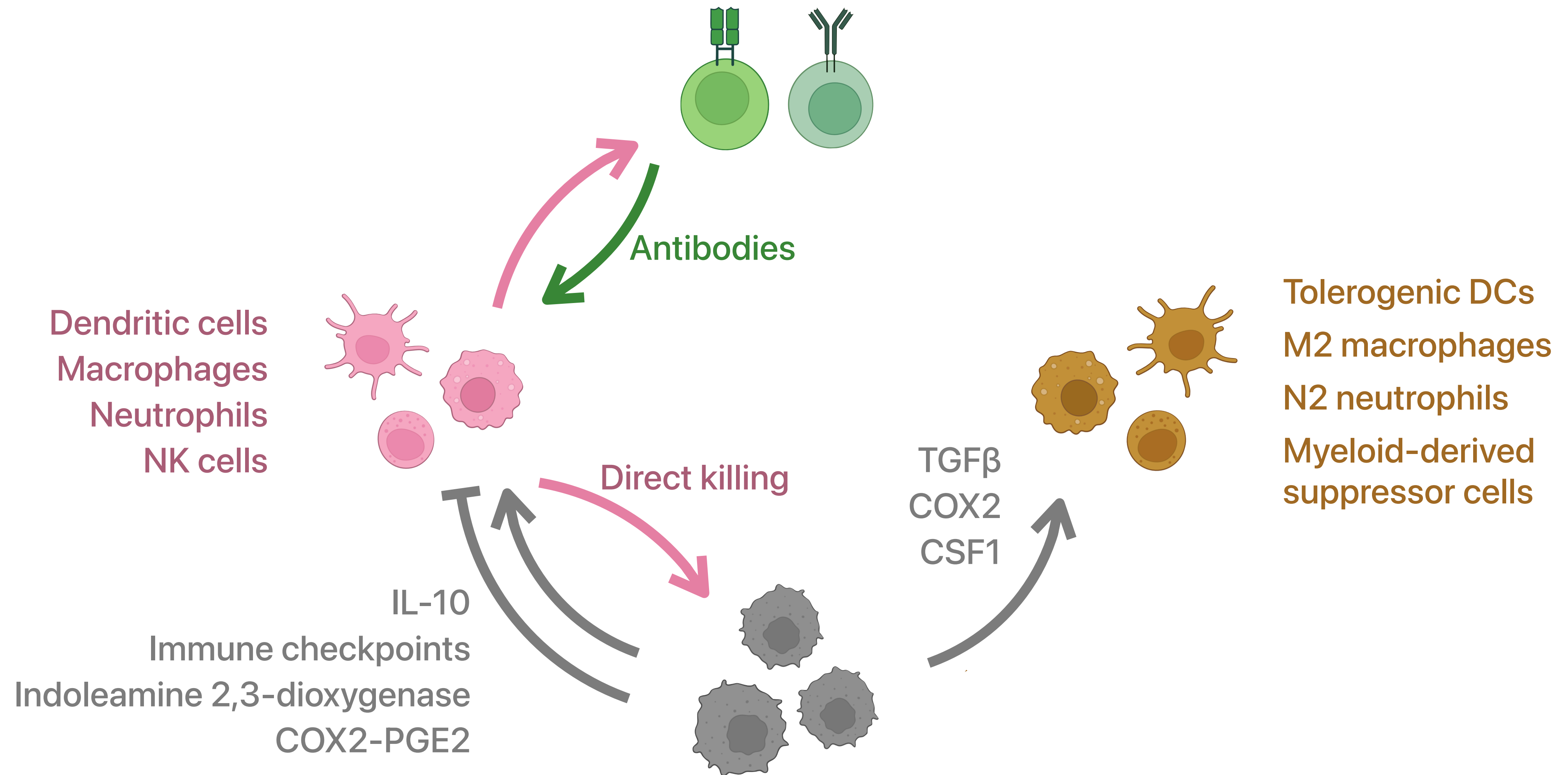
Innate immunity



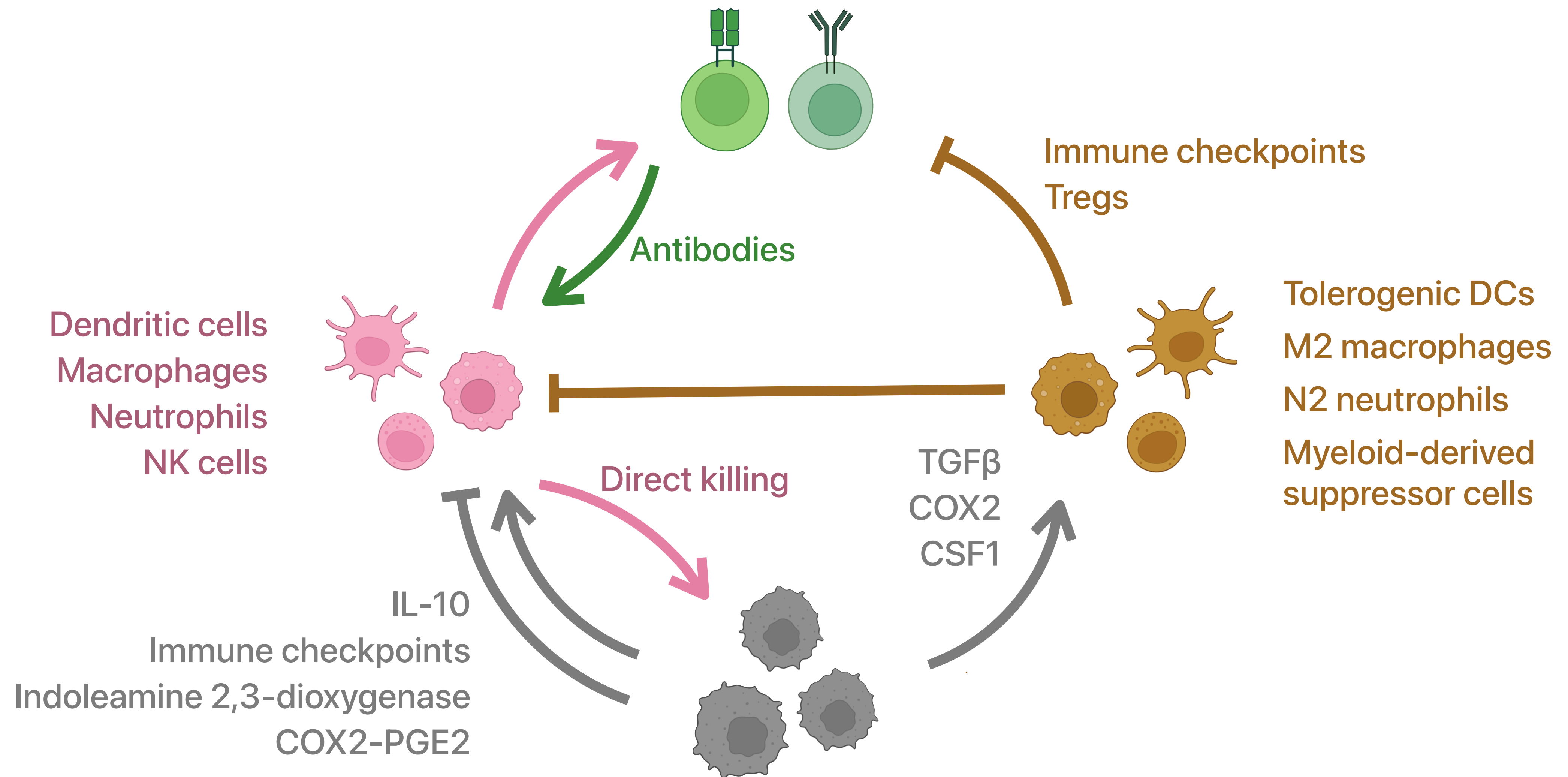
Innate immunity



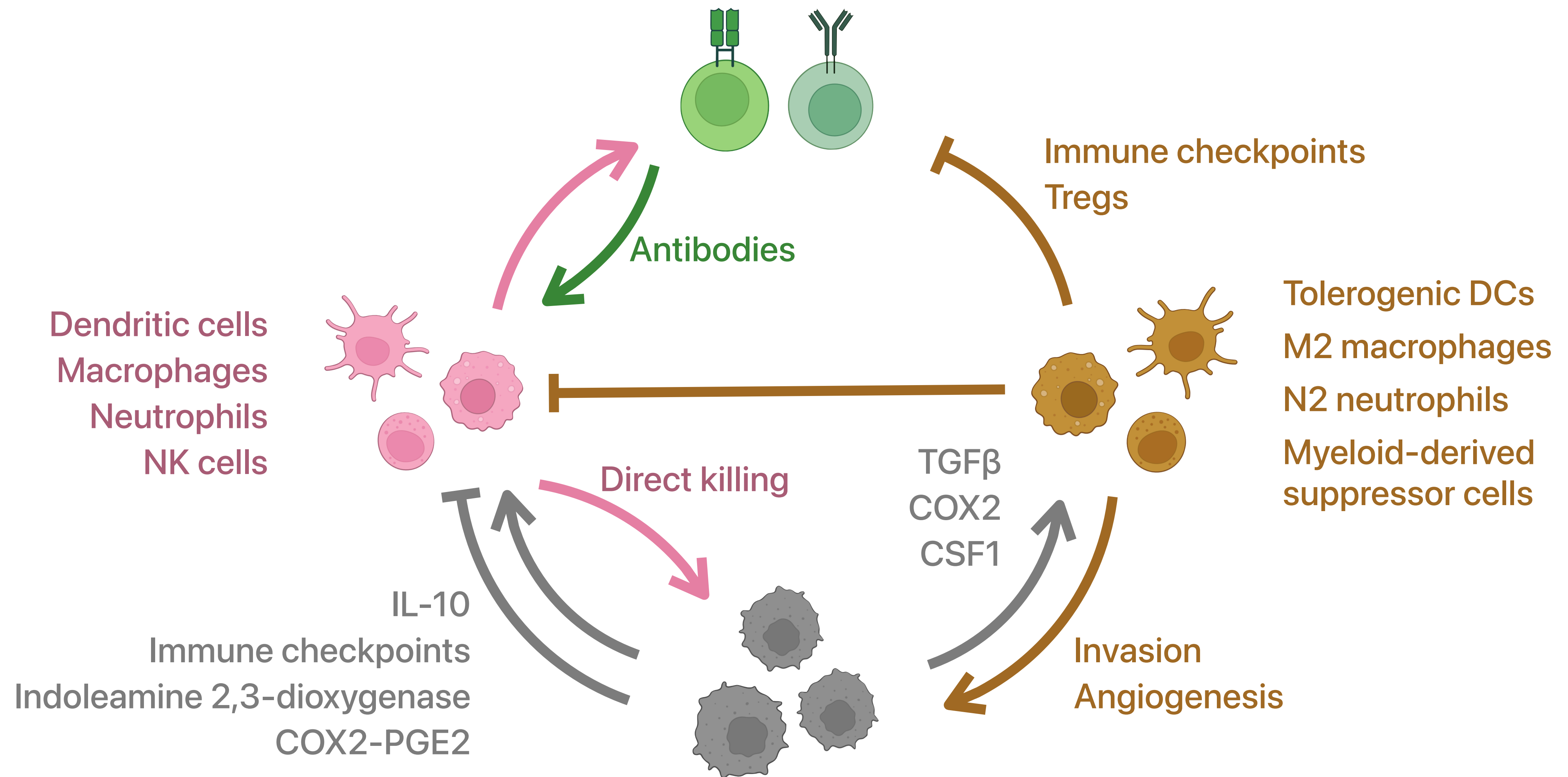
Innate immunity



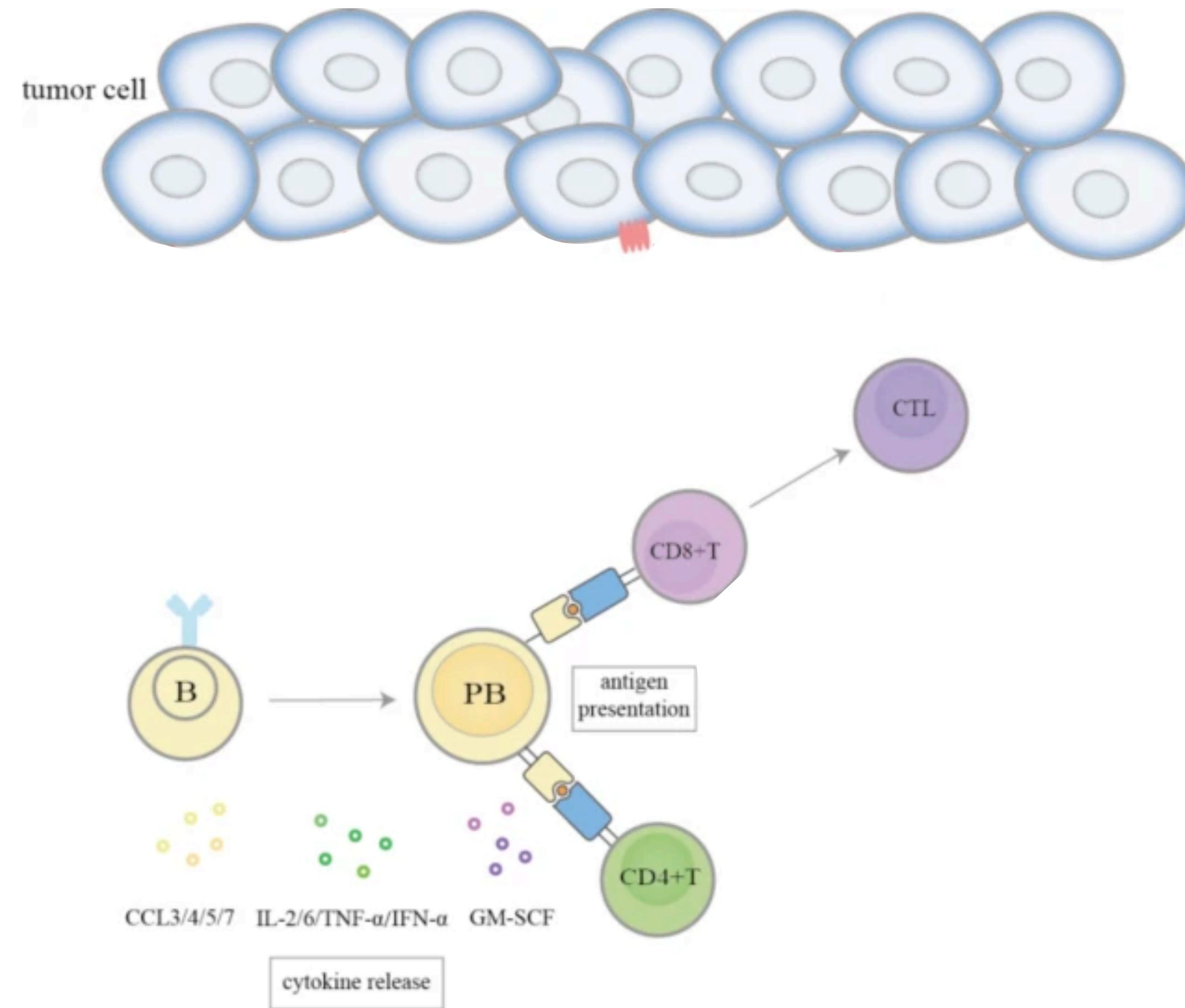
Innate immunity



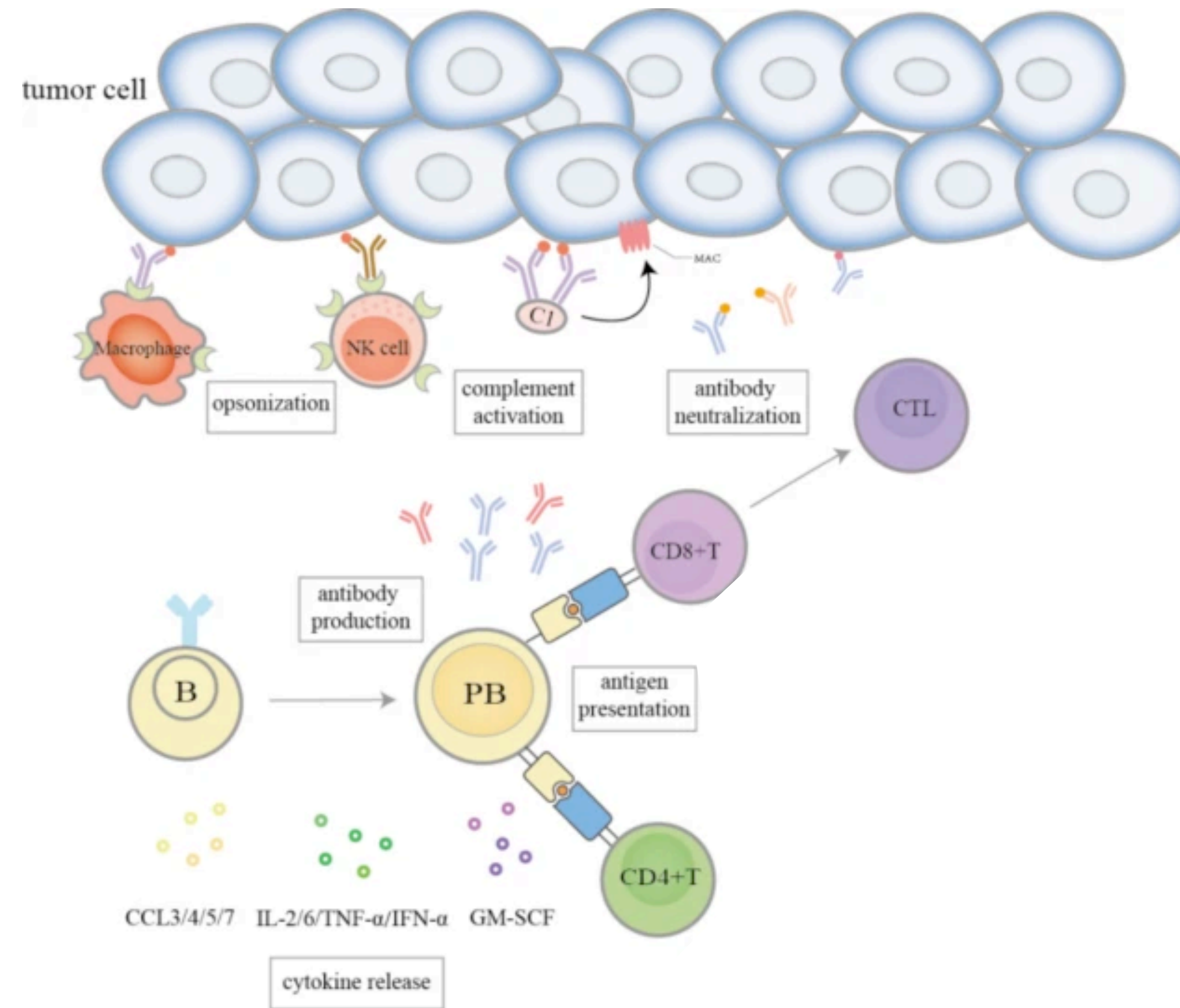
Innate immunity



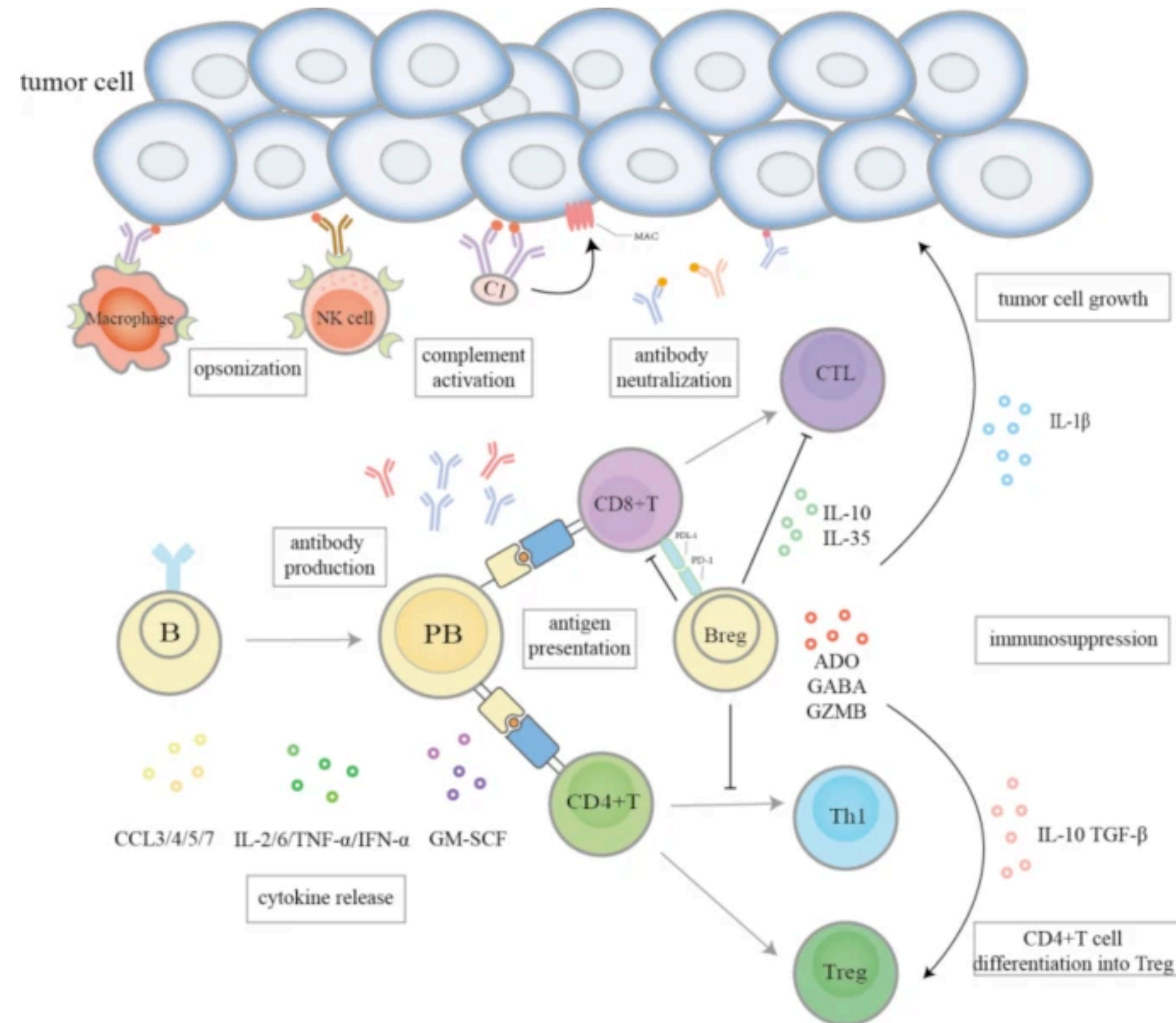
B cells

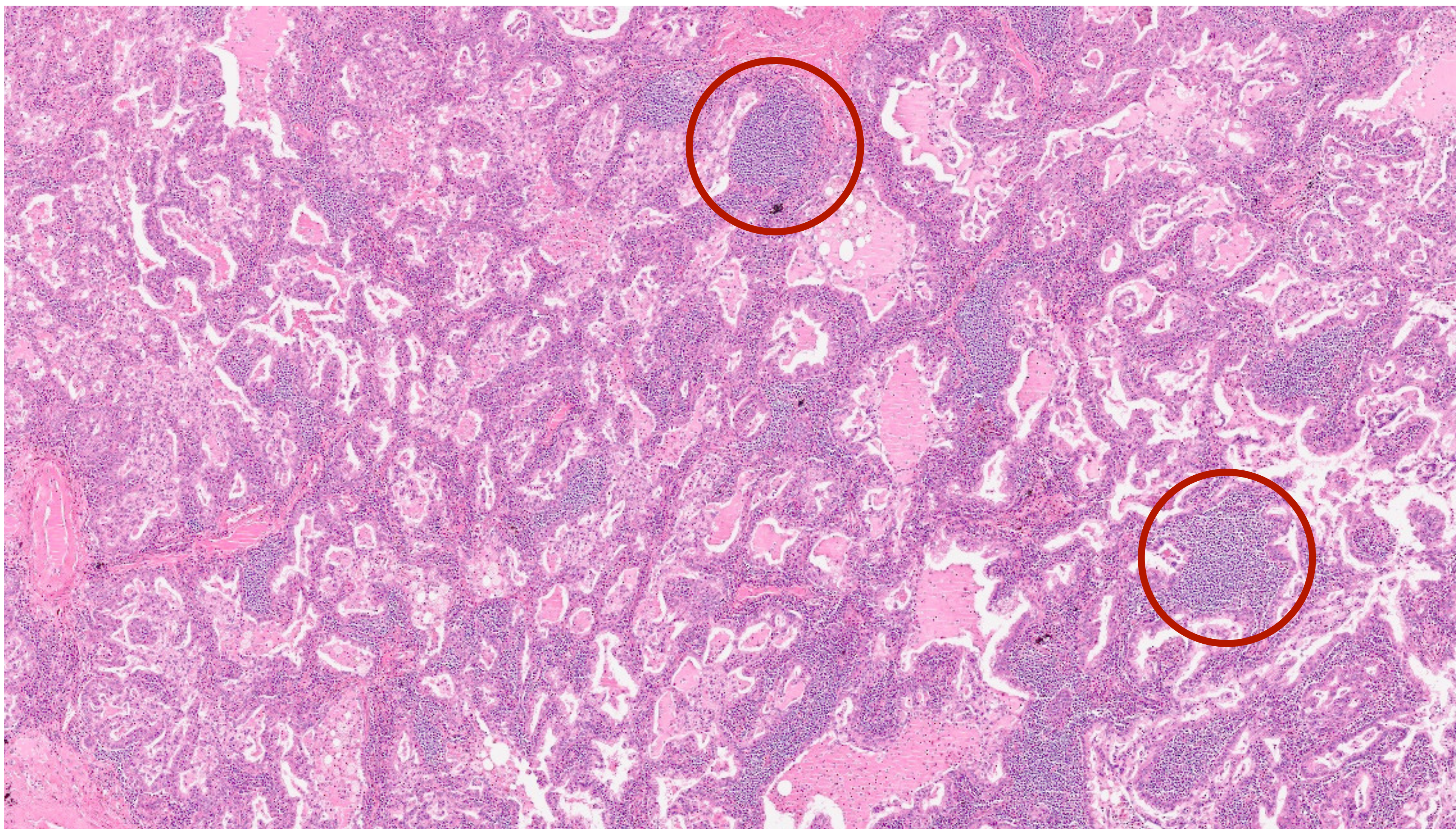


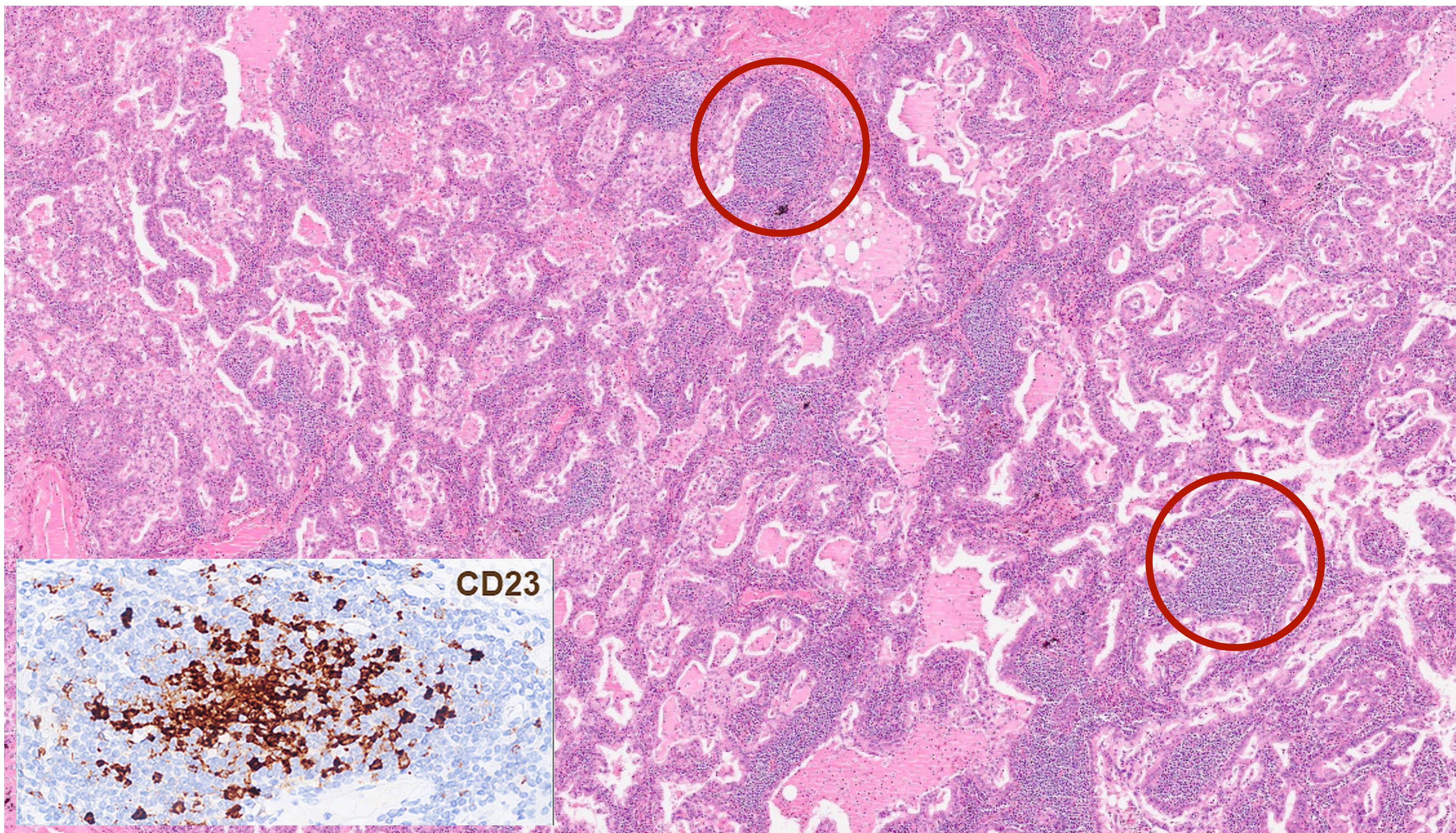
B cells



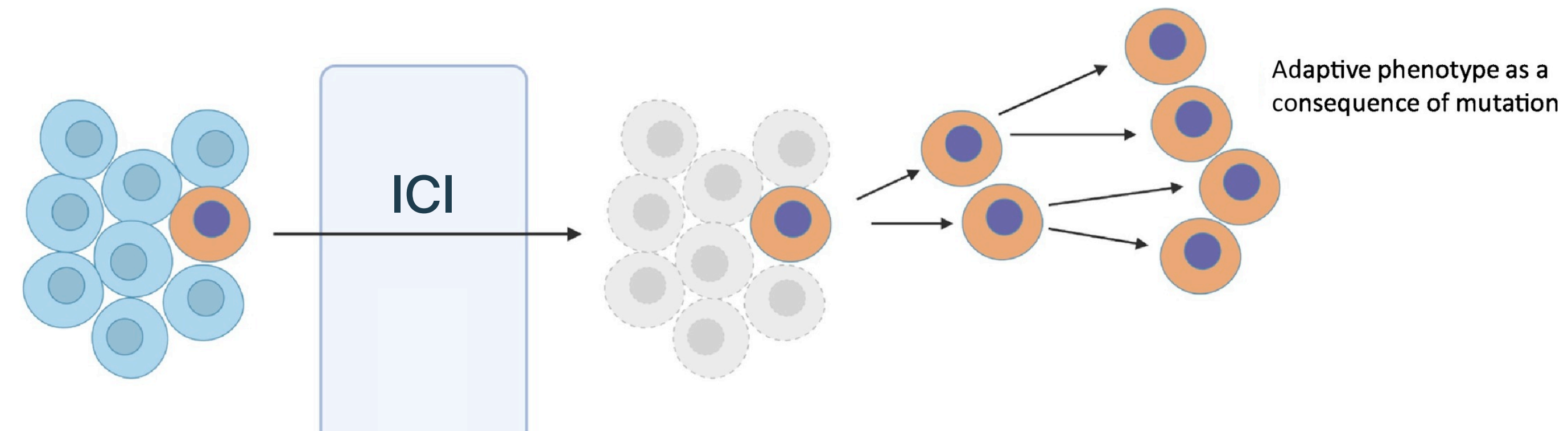
B cells



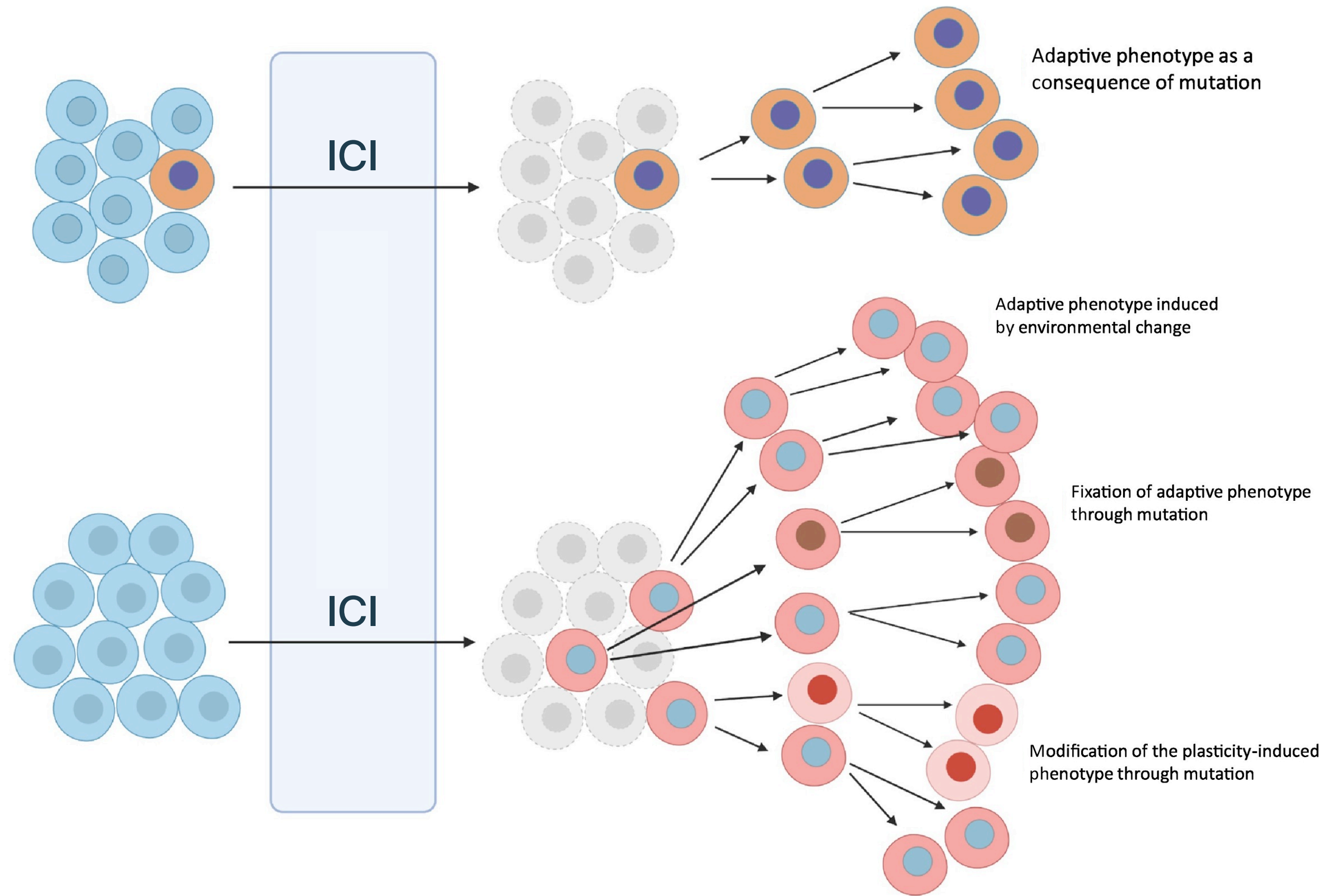


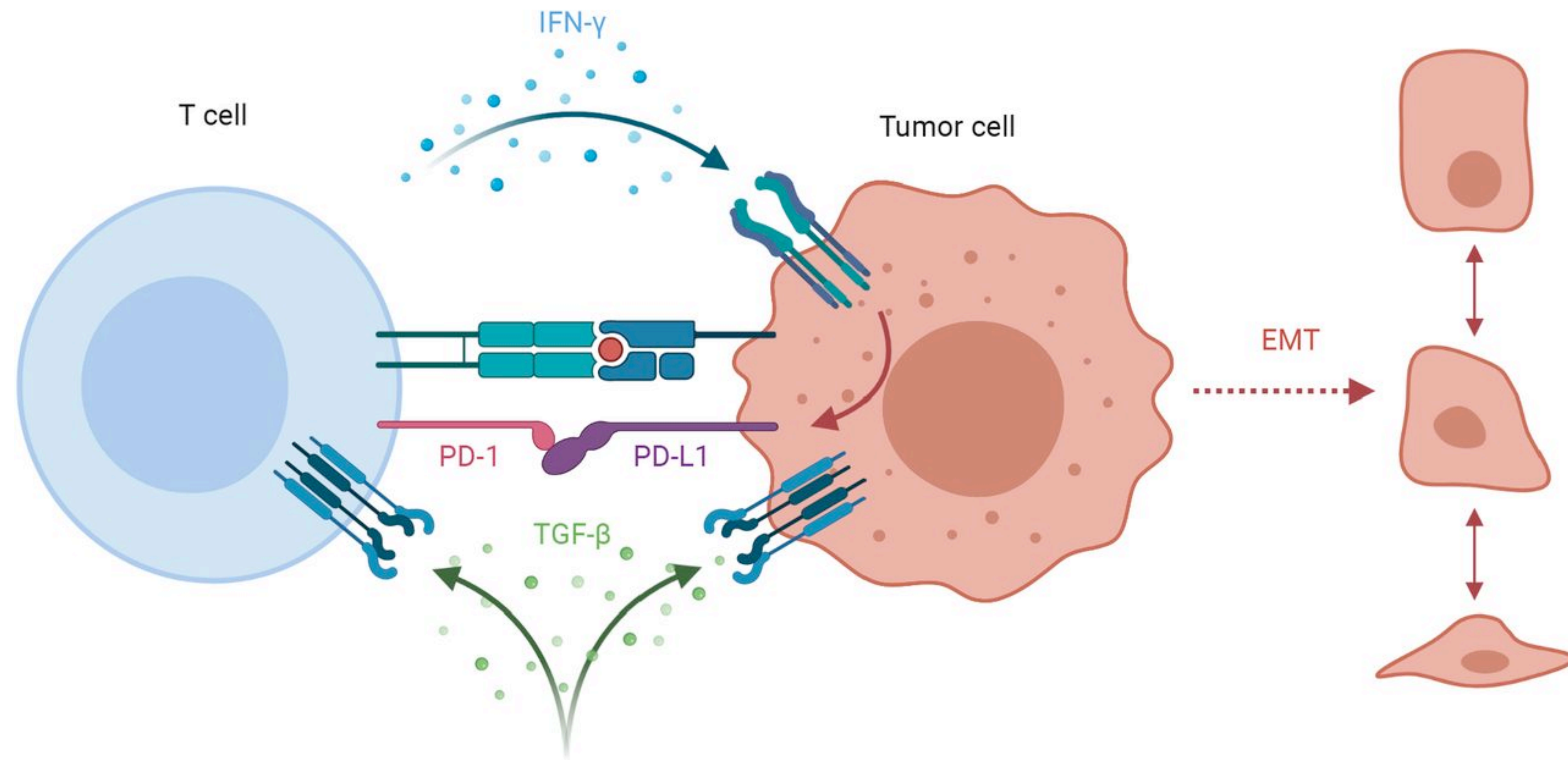


Plasticity vs immunoediting

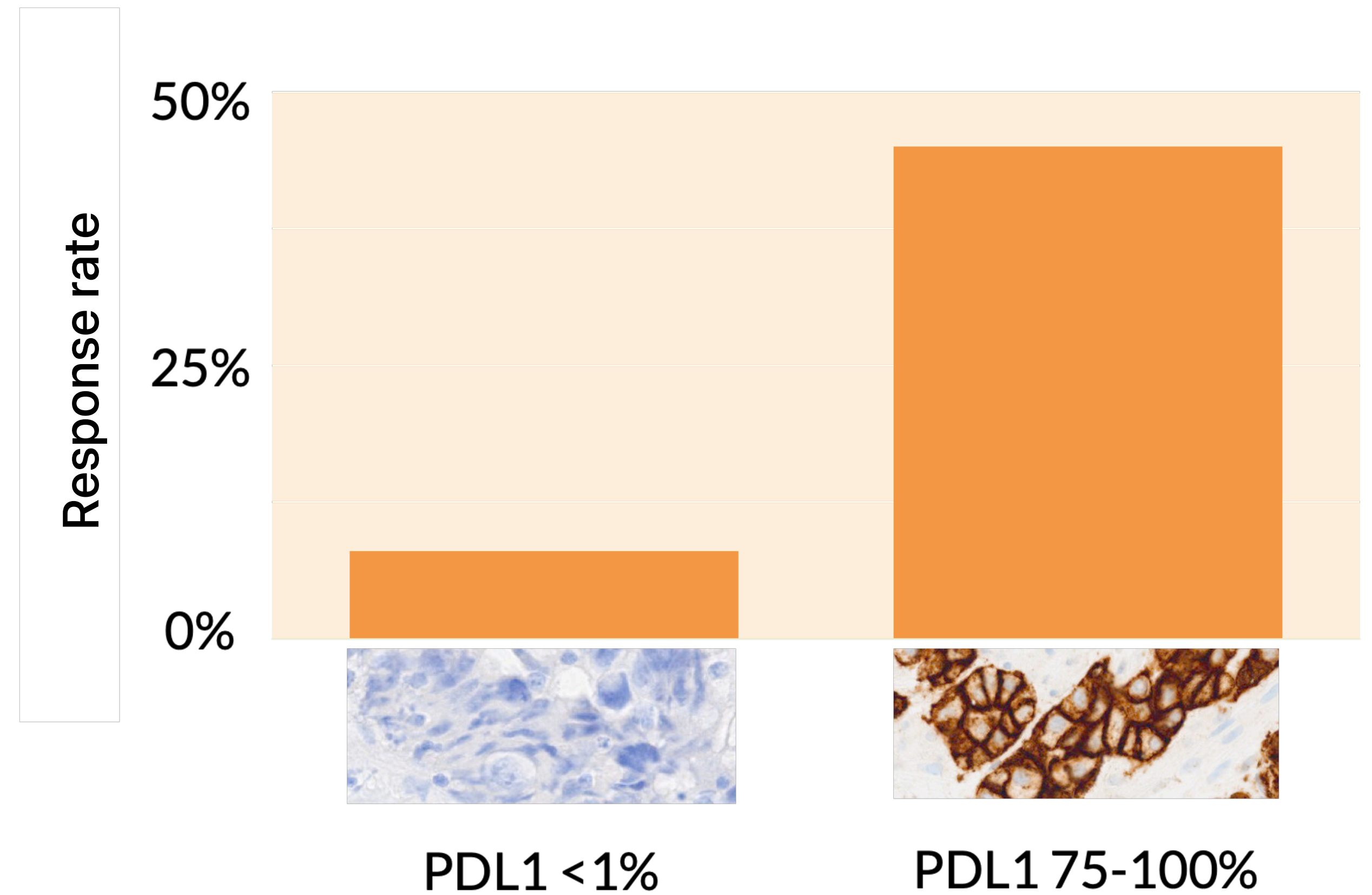
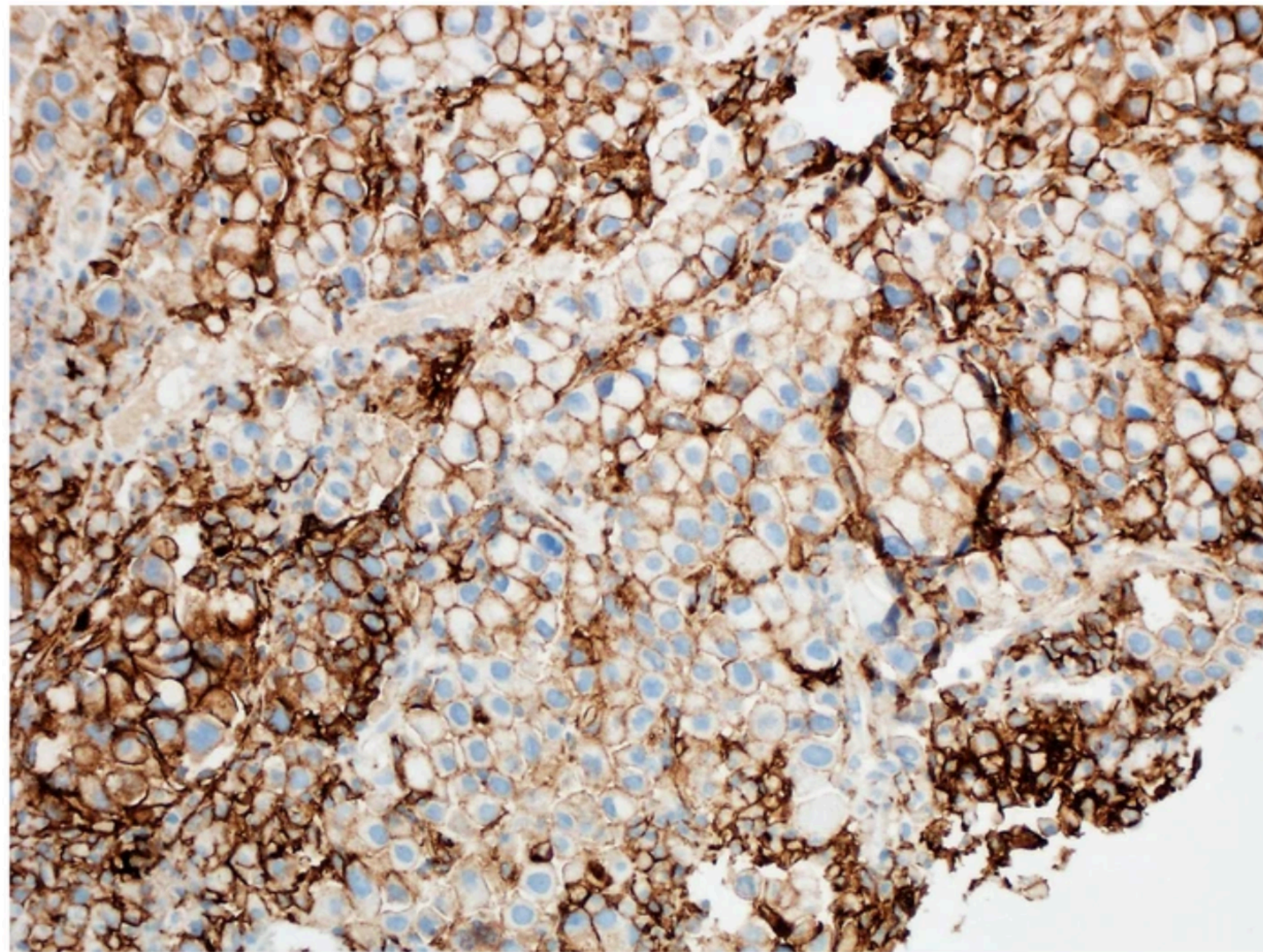


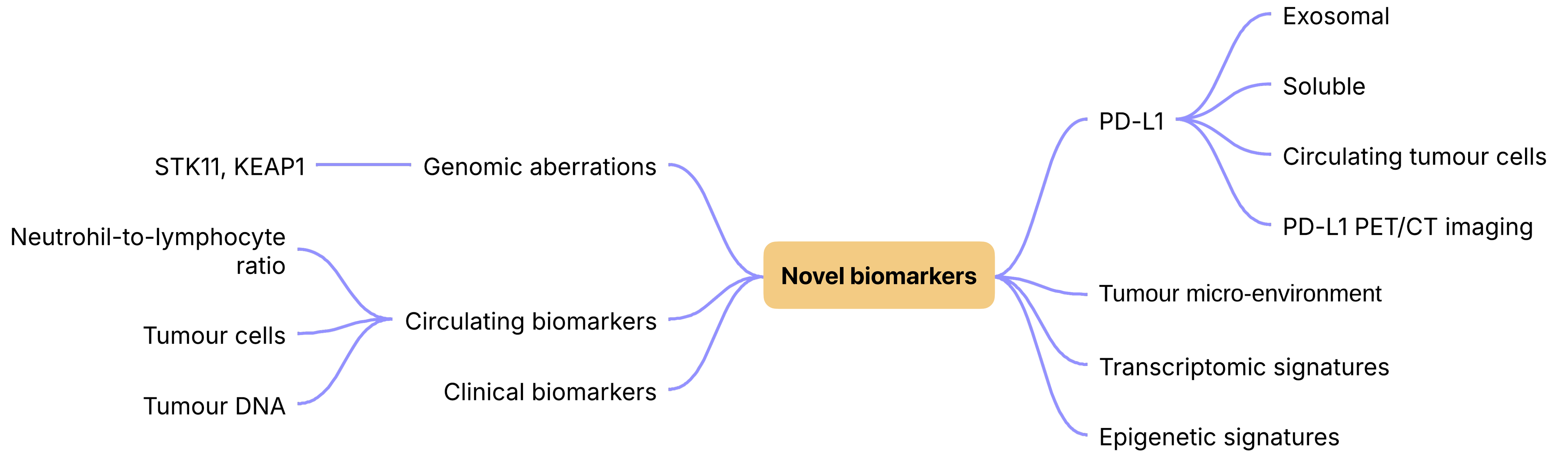
Plasticity vs immunoediting



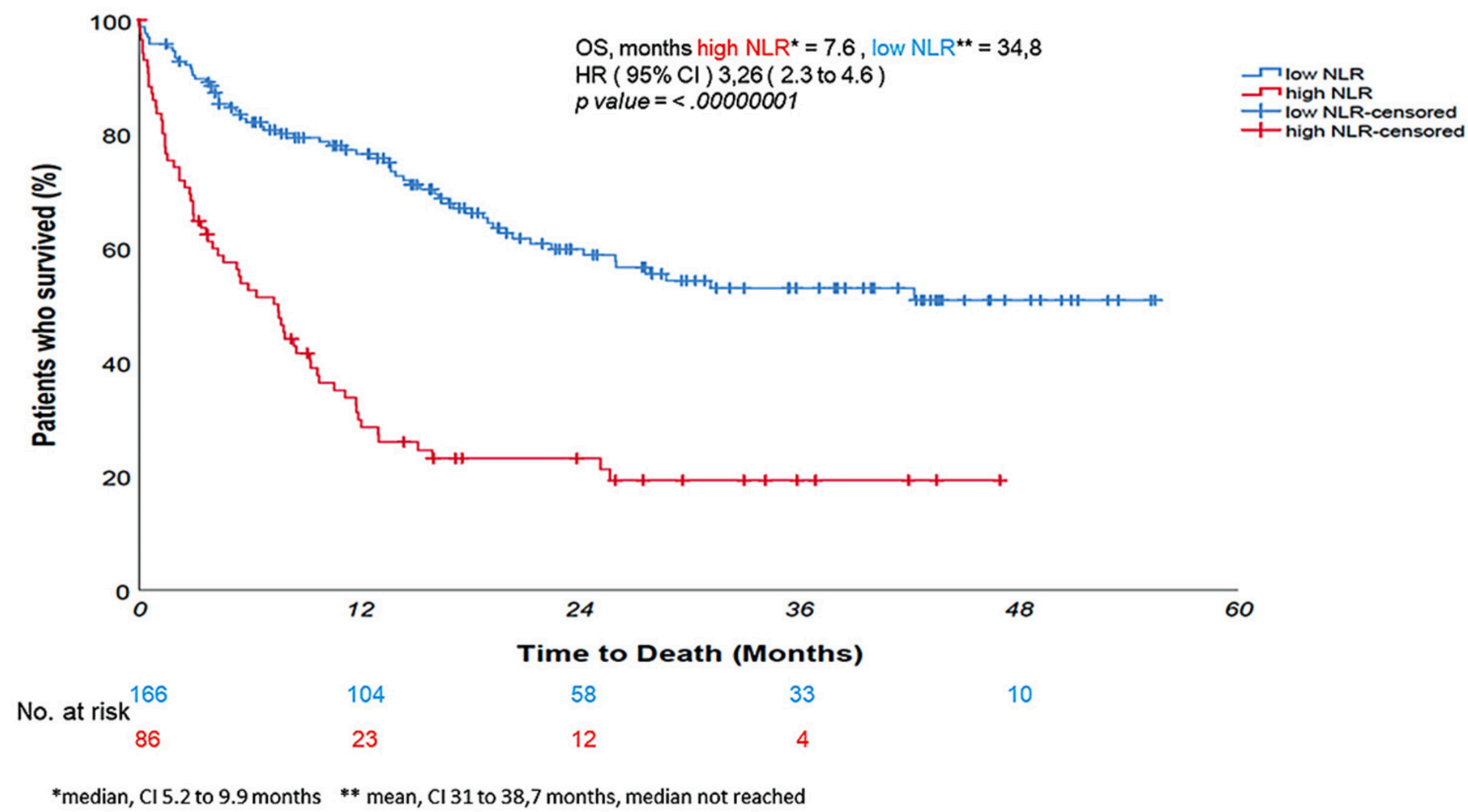


Struggle 2 : prediction of response





Neutrophil-to-lymphocyte ratio



Epigenetic signature

