

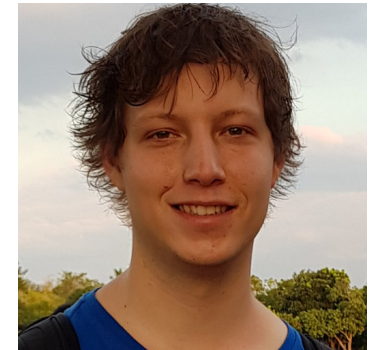
Dictating Human T cells using Agonistic Co-stimulatory Antibodies bound to Immune-filaments

Bas Pilzecker

Tumor Immunology

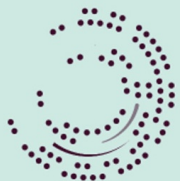
Radboud Institute for Molecular Life Sciences

Nijmegen



Marjolein Schluck, Loek Eggermont, Jorieke Weiden, Carlijn Popelier, Sigrid Kolders,
Anne Heinemans, Carla R. Mogeda, Martijn Verdoes, Carl F. Figdor, Roel Hammink

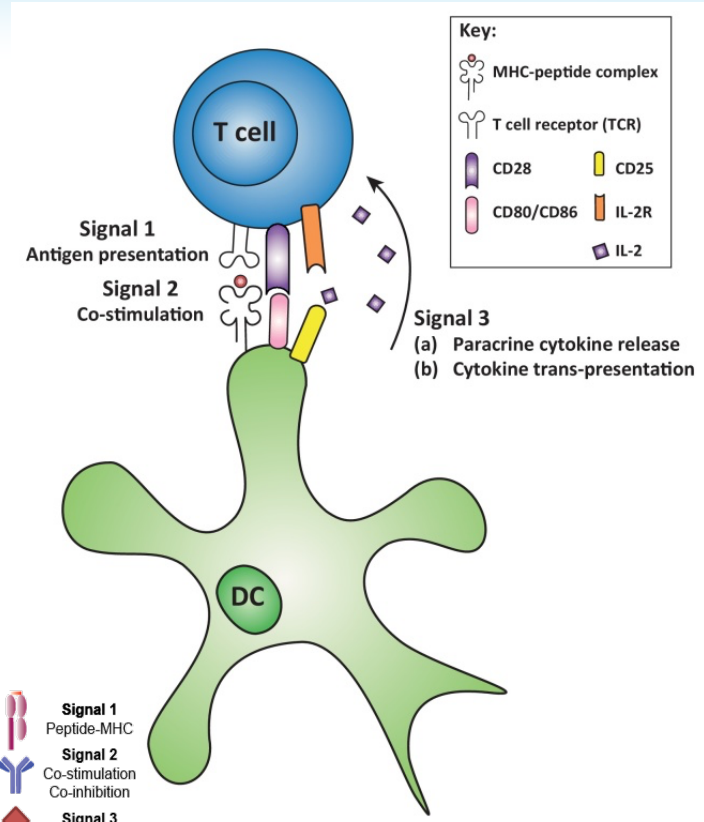
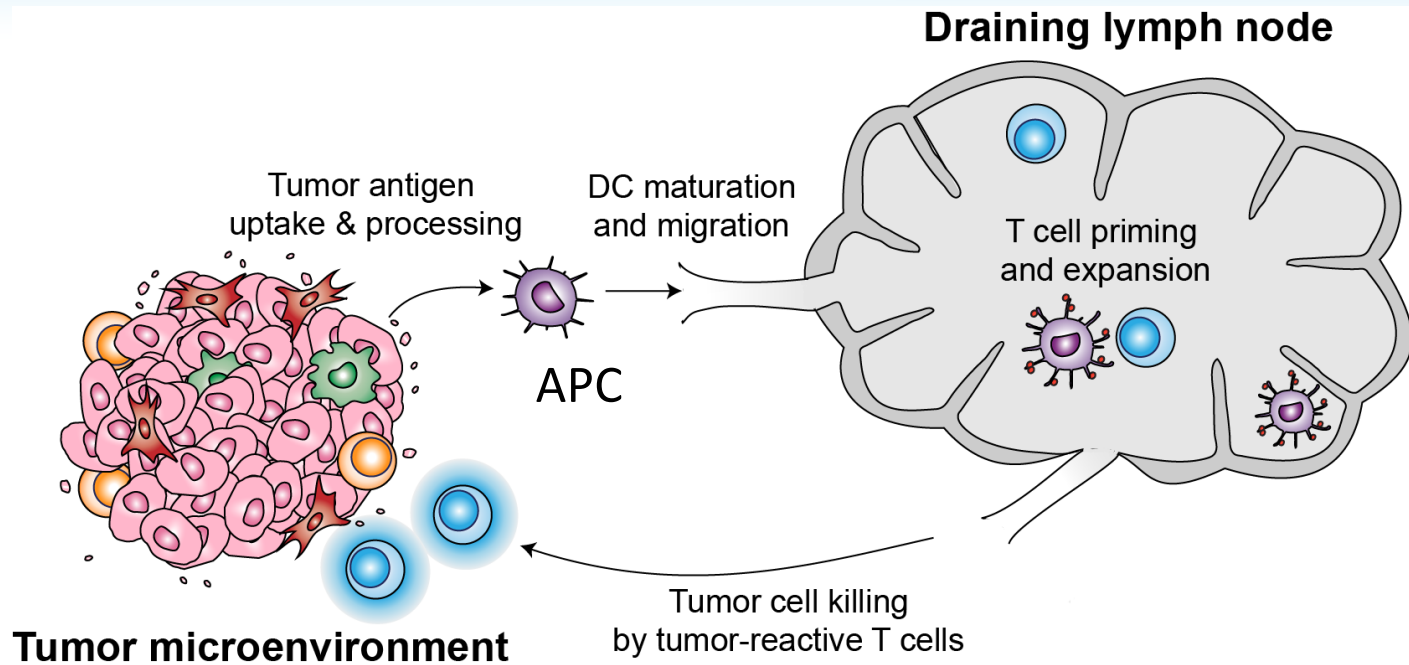
Oncode
Institute



bas.pilzecker@radboudumc.nl

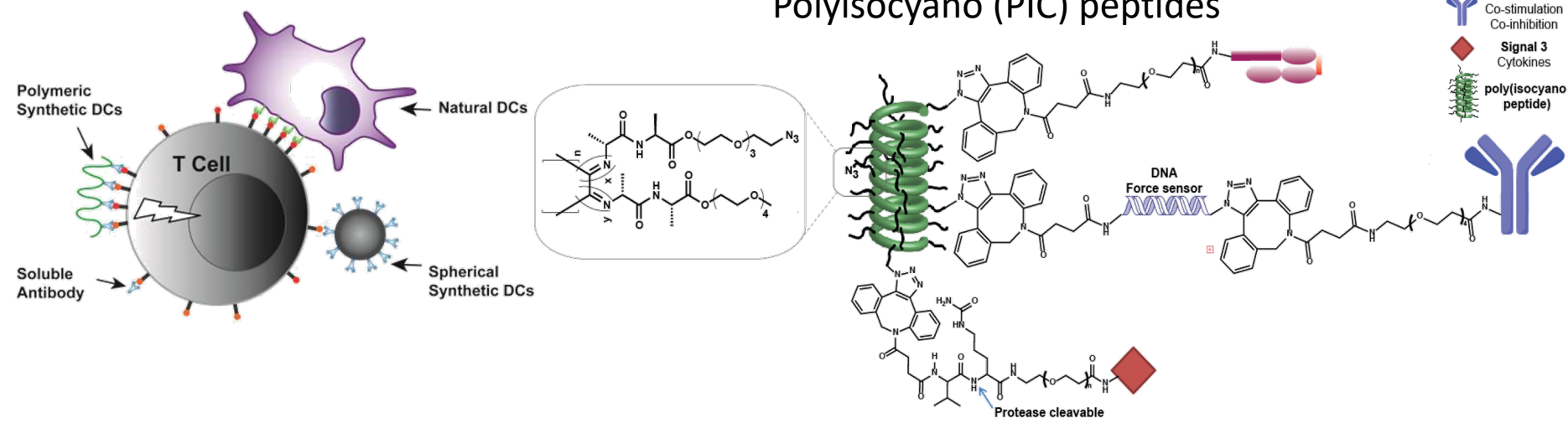
Institute for Molecular Life Sciences
Radboudumc

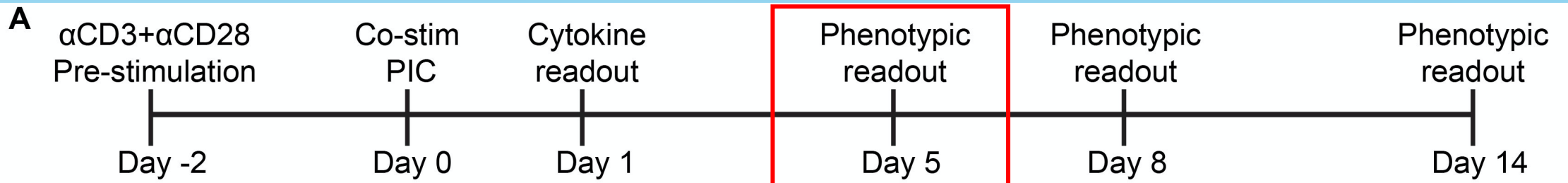
Modulating T cells for anti-cancer immunity



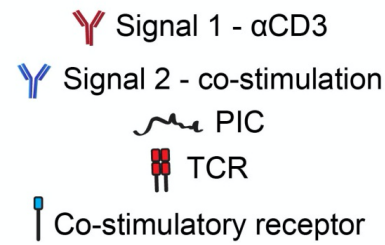
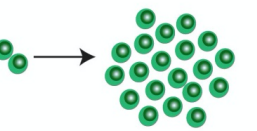
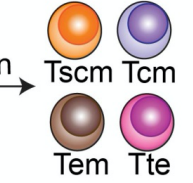
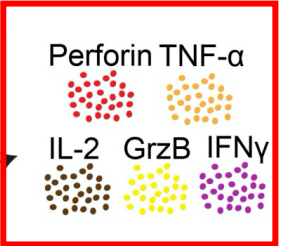
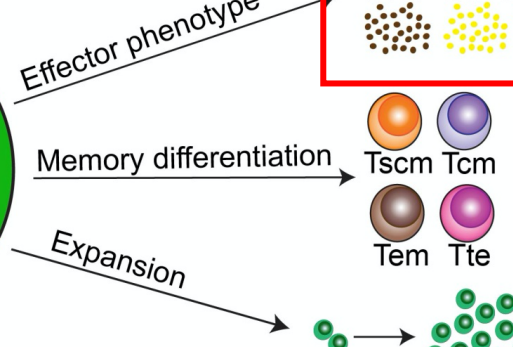
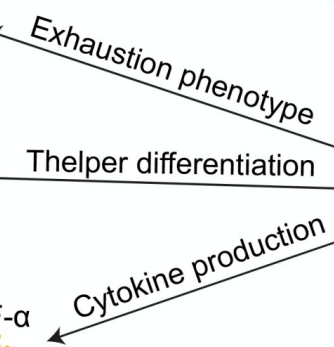
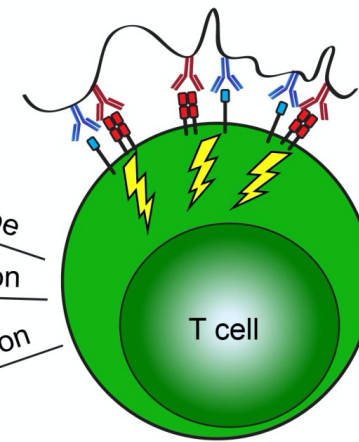
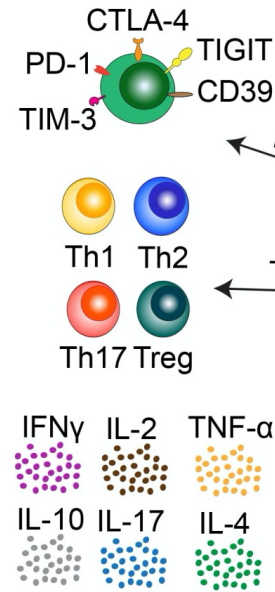
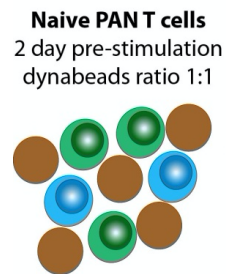
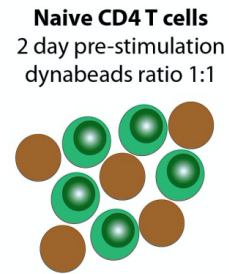
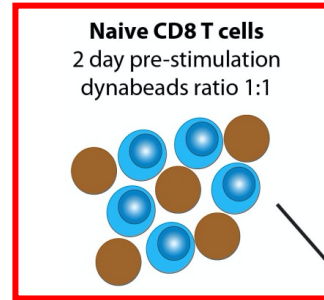
Eggermont et al., 2014

Immune-filament based on Polyisocyano (PIC) peptides

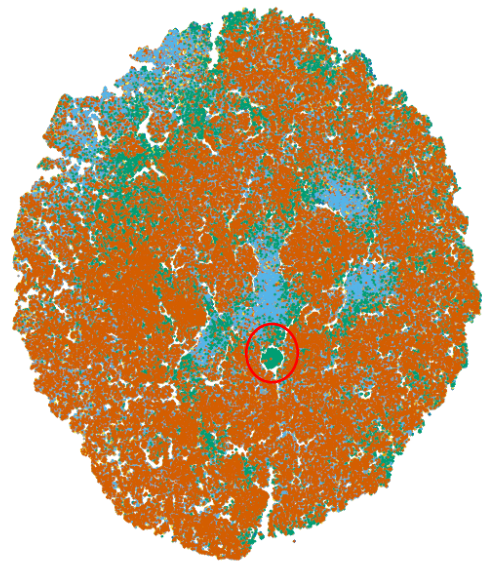




Co-stimulation	aAPC name
X	P
αCD28	P-αCD28
αCD27	P-αCD27
αCD2	P-αCD2
αOX-40	P-αOX-40
α4-1BB	P-α4-1BB
αSLAM	P-αSLAM

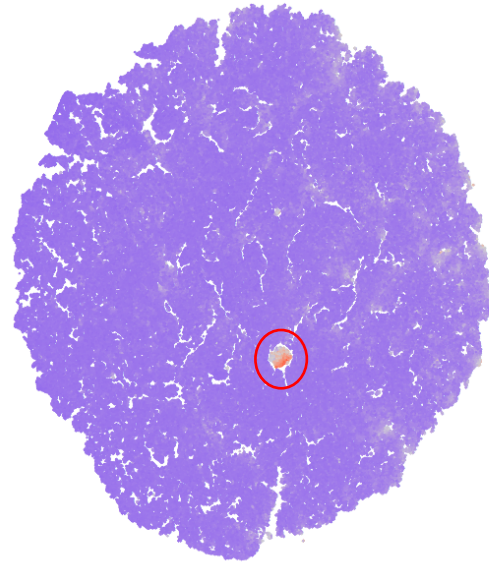


P-CD2 Immune-filament induces a **Perforin^{high}** subset

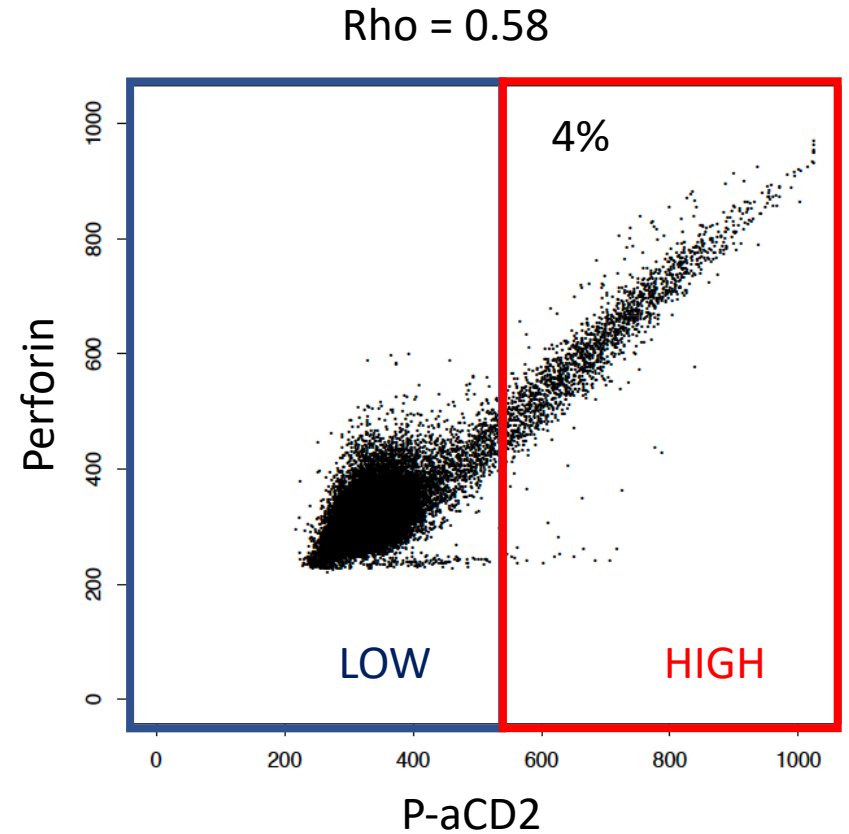
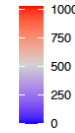


scale

- P-aOX40
- P-a4-1BB
- P-aSLAM
- P-aCD2
- P-aCD27
- P-aCD28
- P



Perforin



Conclusion:

Overall, **P-aCD2** and **P-aCD28** are the best Immune-filaments
P-aCD2 induces a unique **Perforin** high subset
The amount of P-aCD2 seems to dictate the **Perforin** concentration

Future:

Characterization of Perforin high subset
Cytotoxicity assay
CD2 and **Perforin** in Tumor infiltrating T cells