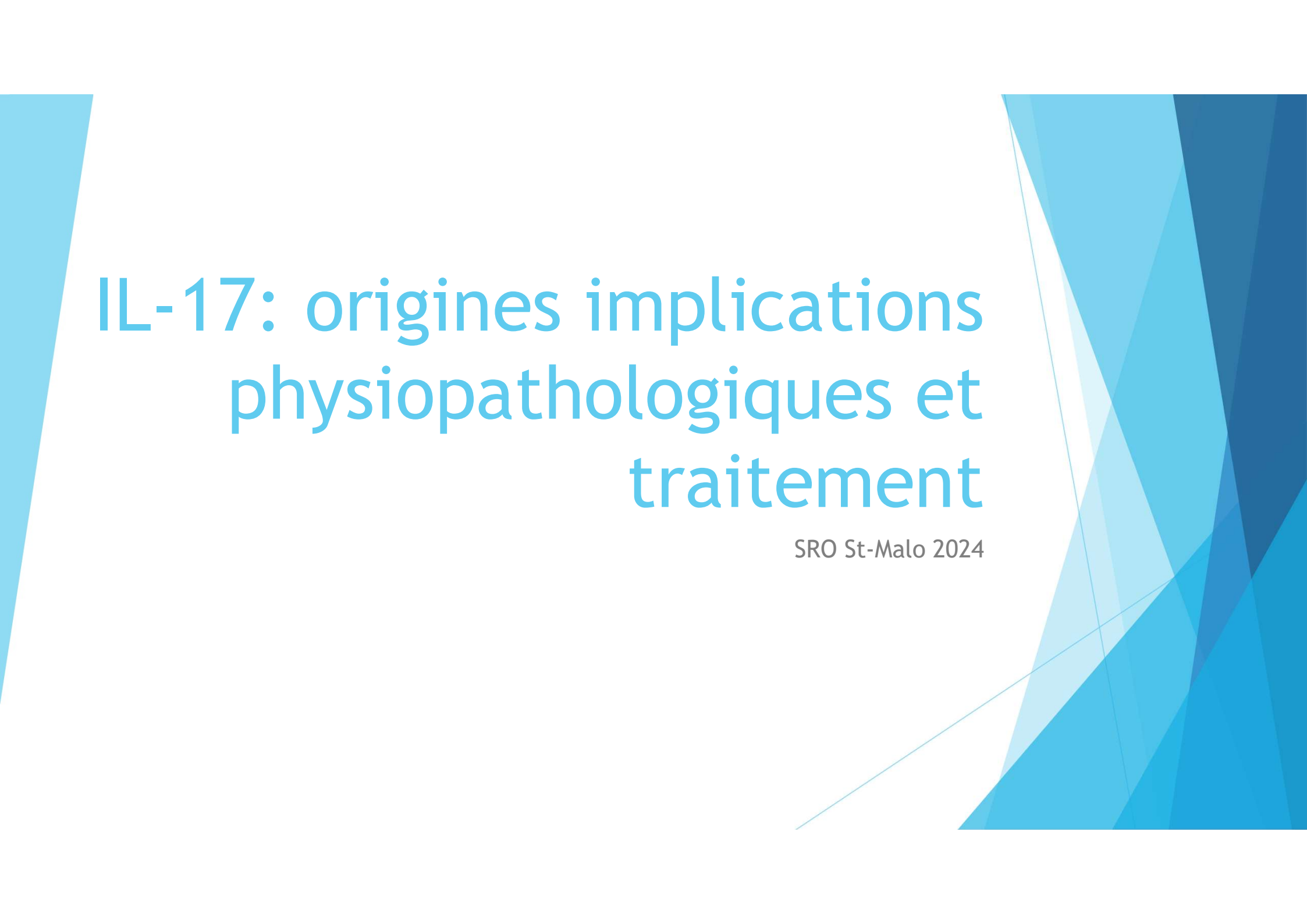


The background of the slide features abstract geometric shapes in various shades of blue. On the left, a light blue triangle points towards the center. On the right, a complex arrangement of overlapping triangles in different blue tones creates a dynamic, layered effect. The central area is a plain light blue, providing a clear space for the text.

IL-17: origines implications physiopathologiques et traitement

SRO St-Malo 2024

Introduction

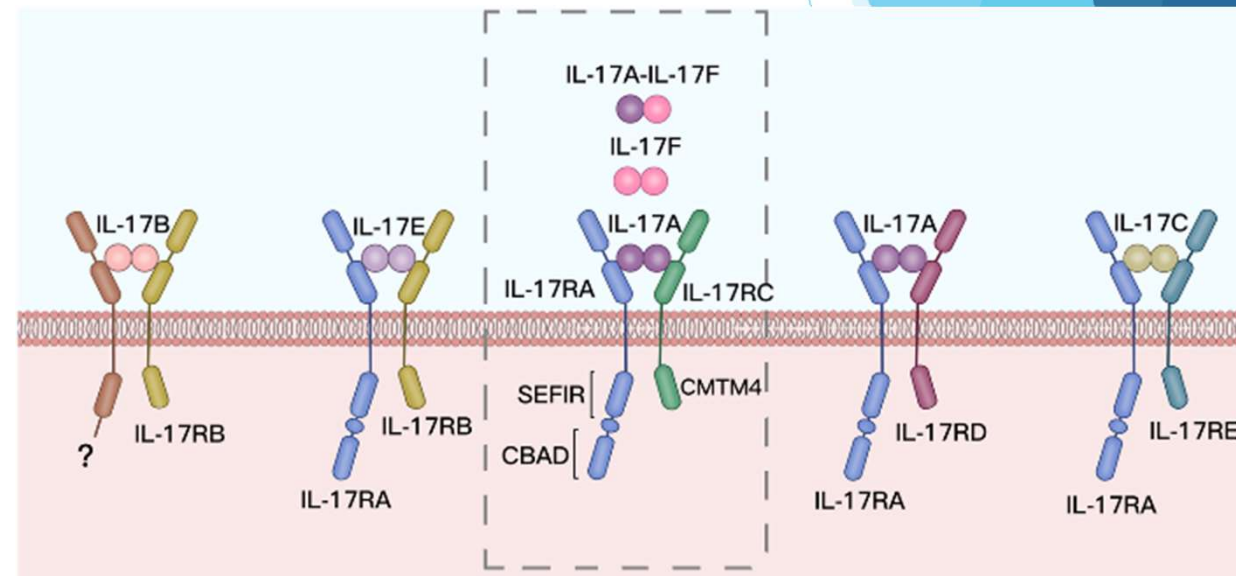
- ▶ 1993: découverte de IL17
- ▶ 2005: Identification LTh17
- ▶ 2006: Mise en évidence du rôle des IL 17 dans les maladies auto immunes
- ▶ 2016: AMM secukinumab et ixekizumab

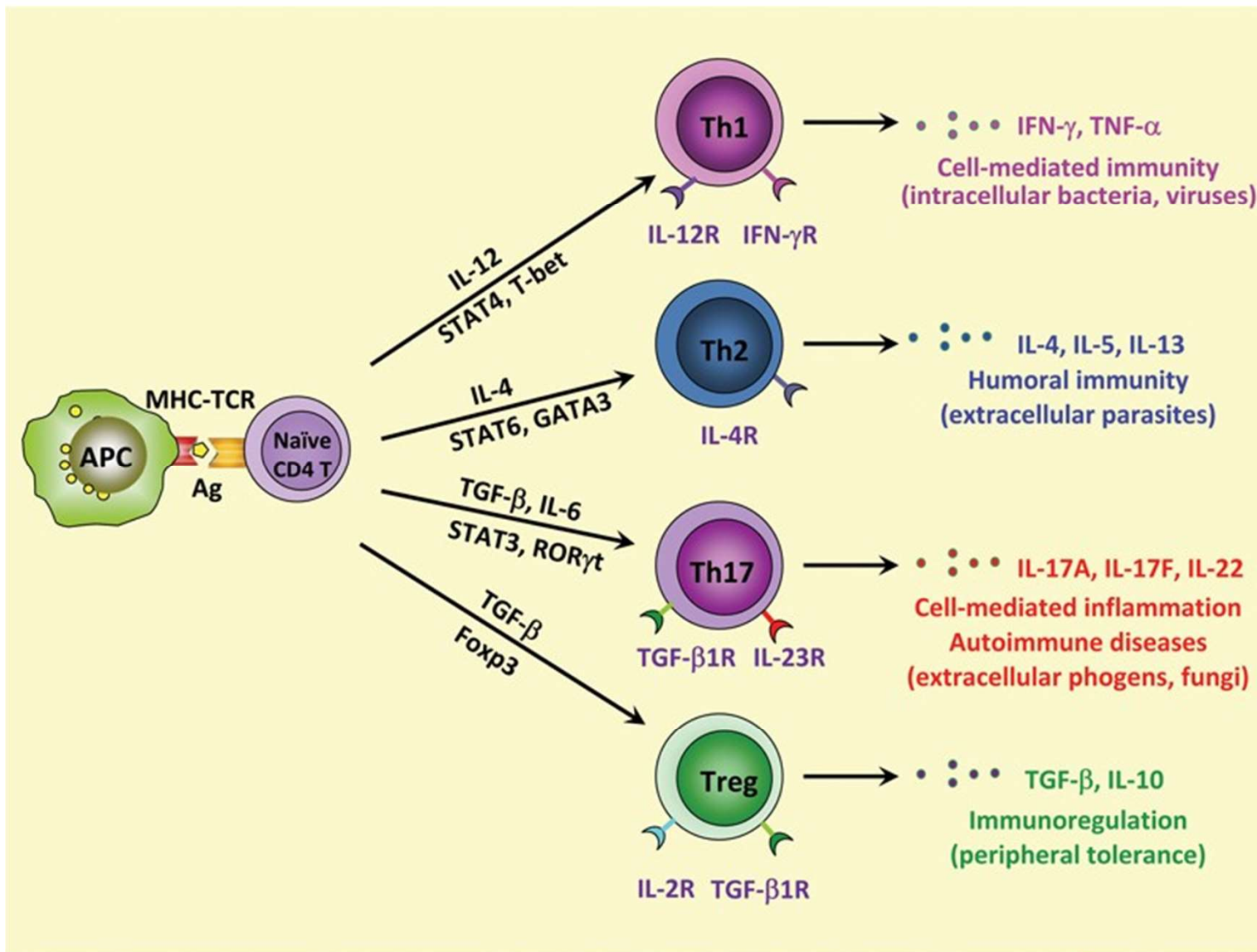
Plusieurs IL-17

- ▶ 6 cytokines: A, B, C, D, E (IL25) et F
- ▶ Les + répandus: A et F

Plusieurs récepteurs

- ▶ 5 sous unités différentes: A, B, C, D, E





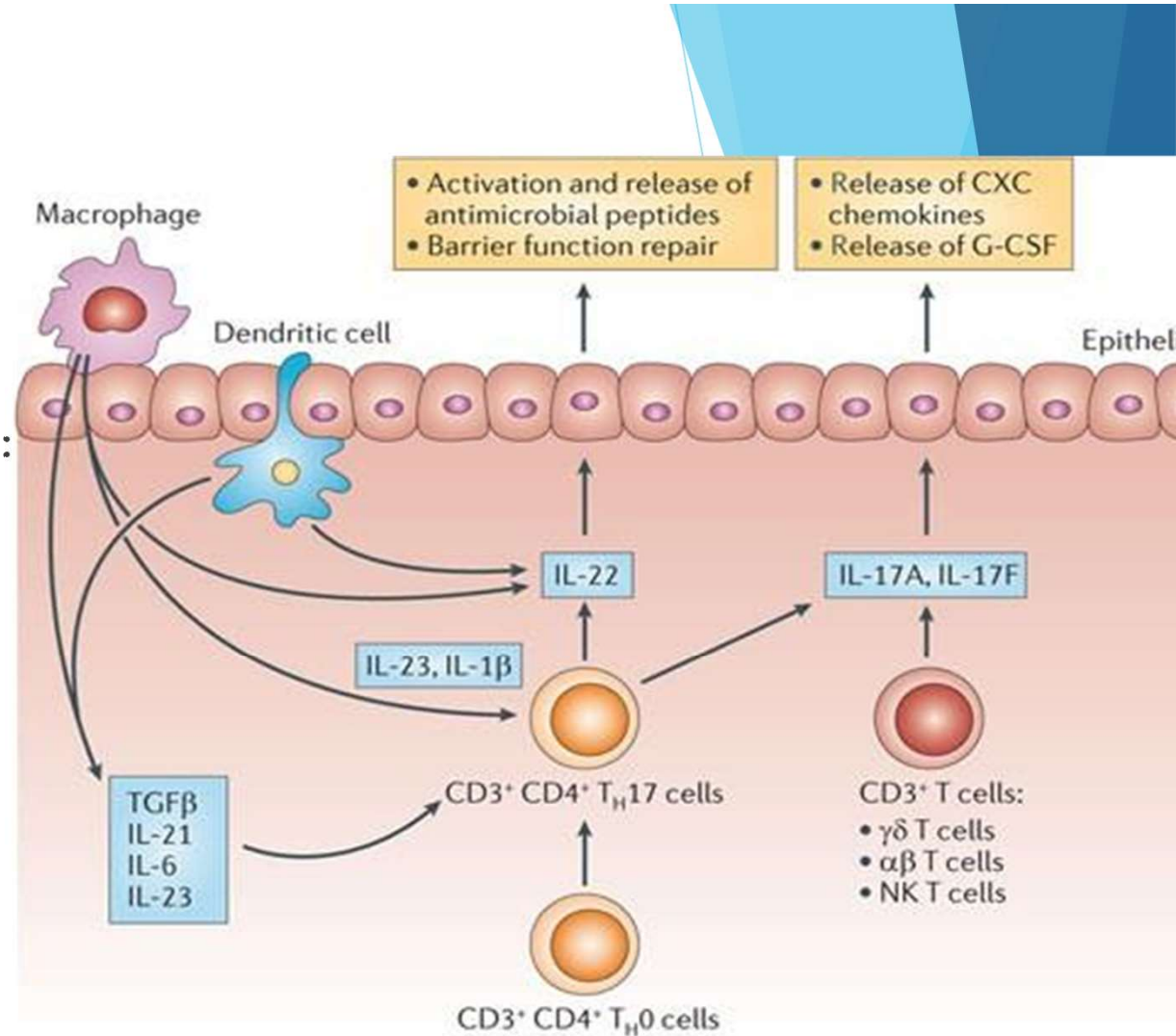
Rôles de l'IL17A et F

1) Réponse immunitaire contre les infections:

- Fongiques
- Bactérienne
- Parasitaire
- +/-Virales

1) Régulation de la barrière tissulaire

2) Rôle dans l'homéostasie osseuse



Implications pathologiques

Spondylarthropathie:

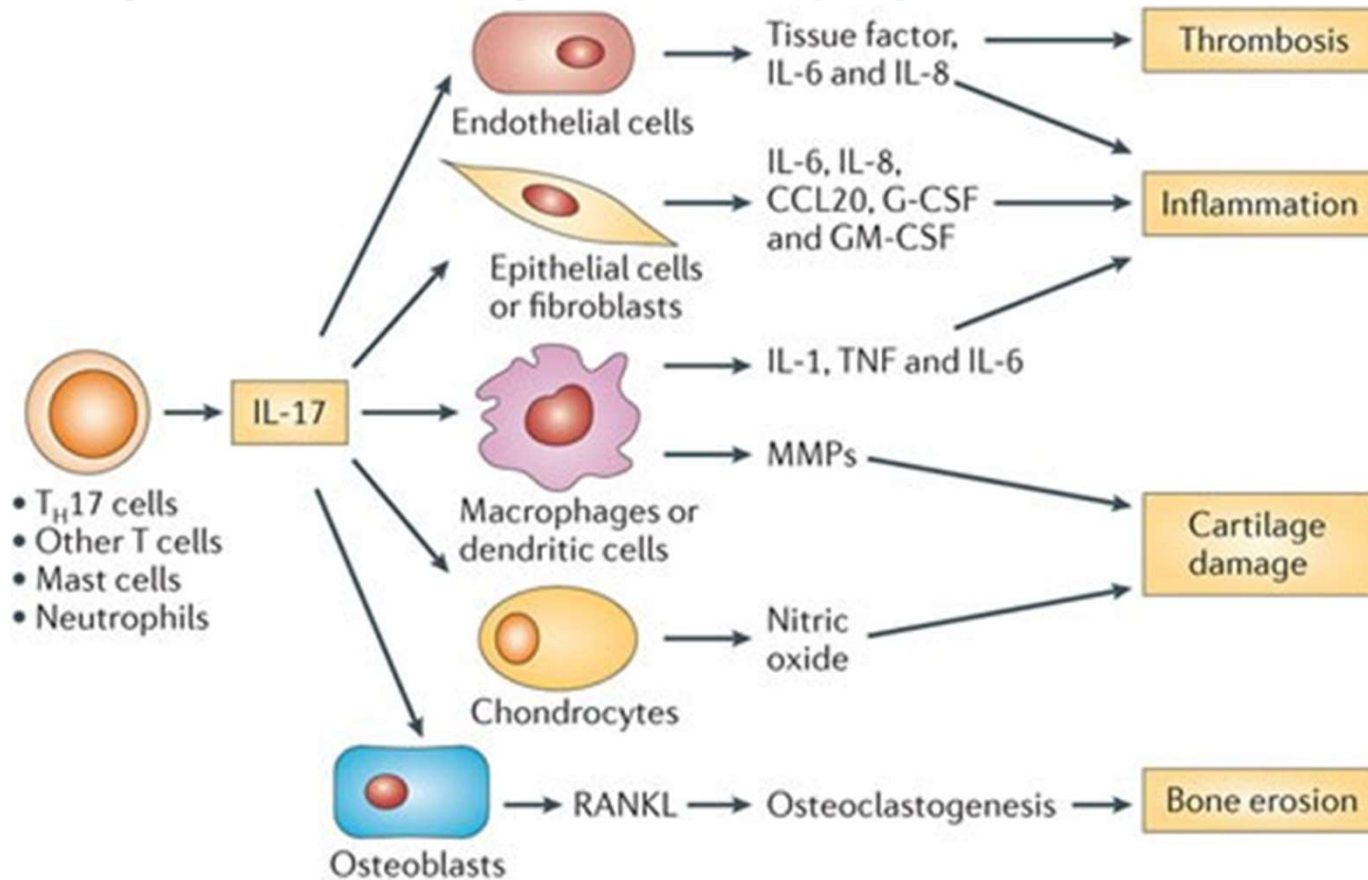
- Taux sérique et intra articulaire IL17 ET IL23 augmentés.
- Rôle du microbiote, HLAB27,
- IL23R dans les enthèses.

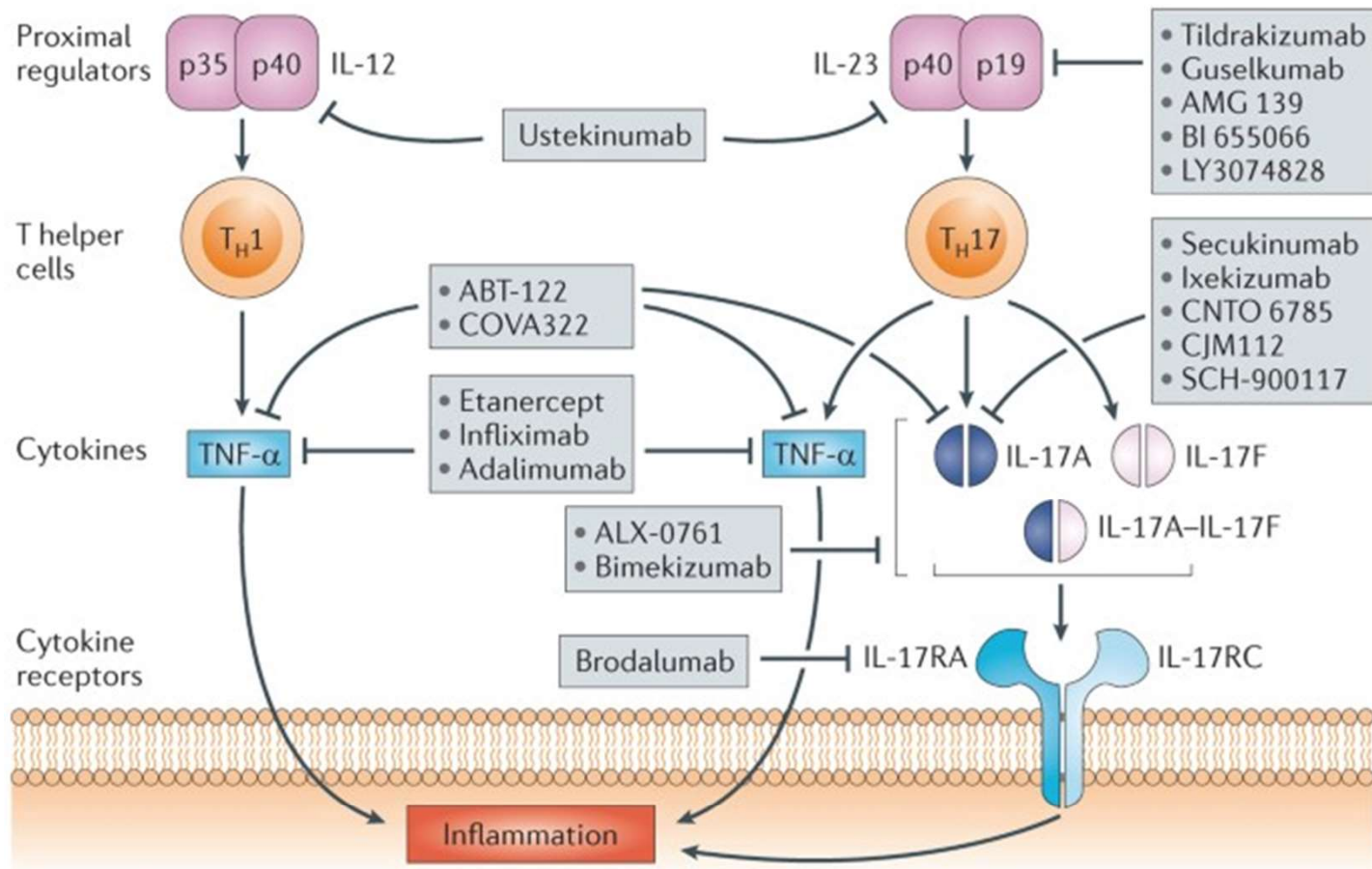
PR: IL17 intra articulaire augmenté

Carcinogénèse: rôle incertain



Implications pathologiques





Secukinumab / Ixekizumab

- ▶ Cible: IL17A
- ▶ Indications: Spondylarthrite axiale, rhumatisme psoriasique, Verneuil, arthrite juvénile idiopathique.
- ▶ Mode d'administration: injection sous cutanée
- ▶ Effets indésirables: infections, neutropénie
- ▶ Exacerbation de MICI
- ▶ Néoplasies: pas de surrisque identifié pour le moment mais <10 ans de recul.

Bimekizumab

Cible: anti IL17 A et F

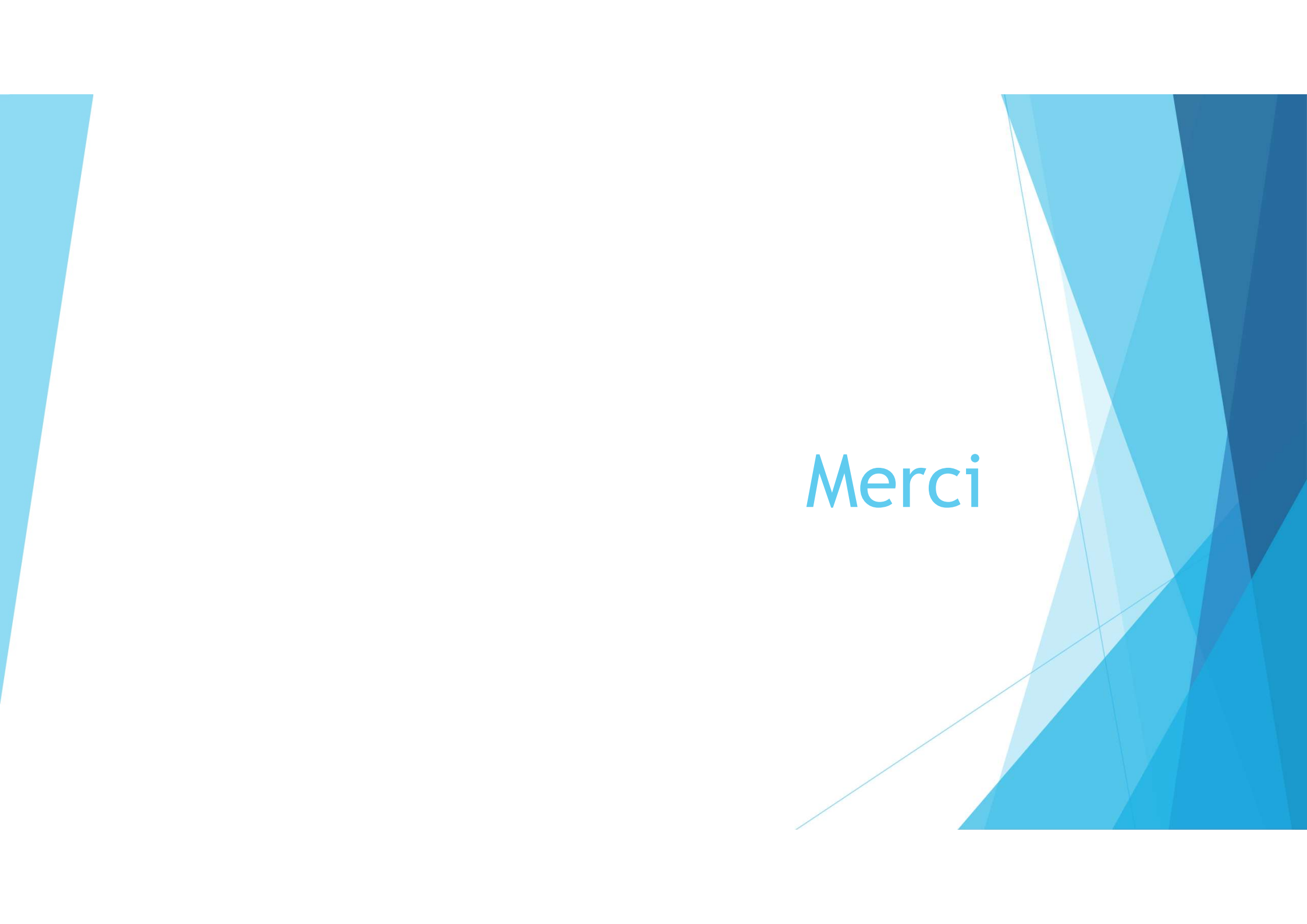
Indications: psoriasis en plaque, rhumatisme psoriasique, SpA

Brodalumab

-IgG anti IL17RA

-Indication: psoriasis en plaque



The background features abstract geometric shapes in various shades of blue. On the left, a solid light blue triangle points upwards. On the right, a complex arrangement of overlapping triangles in light blue, medium blue, and dark blue creates a dynamic, layered effect. The word "Merci" is centered in the white space between these blue elements.

Merci

Sources:

- Miossec, P., Kolls, J. Targeting IL-17 and T_H17 cells in chronic inflammation. *Nat Rev Drug Discov* **11**, 763–776 (2012).
<https://doi.org/10.1038/nrd3794>

-Huangfu L, Li R, Huang Y, Wang S. The IL-17 family in diseases: from bench to bedside. *Signal Transduct Target Ther*. 2023 Oct 11;8(1):402. doi: 10.1038/s41392-023-01620-3. PMID: 37816755; PMCID: PMC10564932.

-Interleukin 17 and chronic inflammation: From its discovery to clinical targeting - Pierre Miossec

-Involvement of Th17 pathway in spondyloarthritis Daniel Wedling