

This weeks objective: Introduction of the context

Readings : Immunologie fondamentale des cellules B + First section of « The Pipeline Repertoire for Ig-Seq »

Objectives / Study Questions :

- Review some basic concepts in protein structure.
- What do you mean by primary, secondary, tertiary, and quaternary structure?
- Outline the domain structure of an IgG antibody.
- What is BCR?
- Describe the pre-B receptor and outline its functional roles during B cell development.
- What is receptor editing? At what stage of development is the clonal deletion of B cells presumed to occur?
- What is B cell repertoire?
- What is a clone in the B cell repertoire context?
- Why studying the B cell repertoire is important?
- Why studying the B cell repertoire diversity is important?
- Give a brief description of the following diversity indexes :
 - species richness index
 - Shannon Weiner index
 - inverse Simpson index
 - Berger Parker index (also referred to as the reciprocal abundance of the largest clone)
 - Gini index
 - Chao1 index

Write a reflection note answering these questions.

Good luck (ㄅㄨˋ ㄗㄨˋ)ㄌㄜˊ