## The People's Democratic Republic of Algeria Ministry of Higher Education and Scientific Research University Center of Mila Faculty of Natural and Life Sciences Department of Biological and Agronomic Sciences

## TD01 correction - Molecular & Cellular Immunology

## **Exercise 1: True or False Statements**

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Event 5: $\downarrow$ new T-cell output $\rightarrow$ ?
$\square$ Effect chain: $\downarrow$ new T-cell output $\rightarrow$ immune memory dominates but fewer naive T cells $\rightarrow$ slower
immune response to new pathogens $\rightarrow$ higher infection and cancer risk in elderly.
Event 6: $\downarrow$ antigen sampling in gut $\rightarrow$ ?
$\label{eq:continuous} \ \Box \ Effect \ chain: \downarrow \ antigen \ sampling \ in \ gut \ \rightarrow \ \downarrow \ activation \ of \ GALT \ \rightarrow \ \downarrow \ IgA \ production \ \rightarrow \ \uparrow \ susceptibility$
to intestinal infections.
Event 7: Defective positive/negative selection $\rightarrow$ ?
$\square$ Effect chain: Defective positive/negative selection $\rightarrow$ autoreactive T cells escape $\rightarrow$ autoimmune
diseases.

## Exercise 4: Who am I?

- 1. Spleen
- 2. *MALT*
- 3. Bone marrow
- 4. Lymph node