INTRODUCTION

It is obvious to recall the following main points: In 1974, Leclerc, (Ref. 1) immunizes the sea star Asterina gibbosa (asterids) with HRP (4 injections of 0.1 µg/ml HRP in saline solution were performed in 1 month). Then, immunocytochemical reactions were realized by first:

a. Incubation in the antigenic solution of the axial organ (the primitive lymphoid organ of asterids) (Ref. 1)
b. Revelation of the obtained precipitate by diaminobenzidine
c. Observations of the Asterina gibbosa plasma-lymphocytes in T.E.M.

IT IS OBVIOUS TO RECALL THE FOLLOWING MAIN POINTS

In 1974, Leclerc[1] immunizes the sea star Asterina gibbosa (asterids) with horseradish peroxidase (HRP) (four injections of 0.1 µg/ml HRP in saline solution were performed in 1 month). Then, immunocytochemical reactions were realized by first:

a. Incubation in the antigenic solution of the axial organ (the primitive lymphoid organ of asterids)[1]

RESULTS

We have observed sea star lymphocytes in 1974[1] so invertebrate ones and plasma-lymphocytes which were labeled...
The anti-HRP [Figure 1] labeling occurs at the level of perinuclear space, rough reticulum ergastoplasm, and Golgi apparatus.

In 2011–2019, genomic studies assert the evidence of the anti-HRP: Invertebrate primitive antibody.[2,3] It seems fundamental to recall that data.

CONCLUSION

In 2011-2019 genomic studies assert the evidence of the anti-HRP:IPA (Invertebrate Primitive Antibody). We may conclude Adapative immunity exists in Invertebrates. (Ref. 2 and 3): It seems fundamental to recall that data.

REFERENCES
