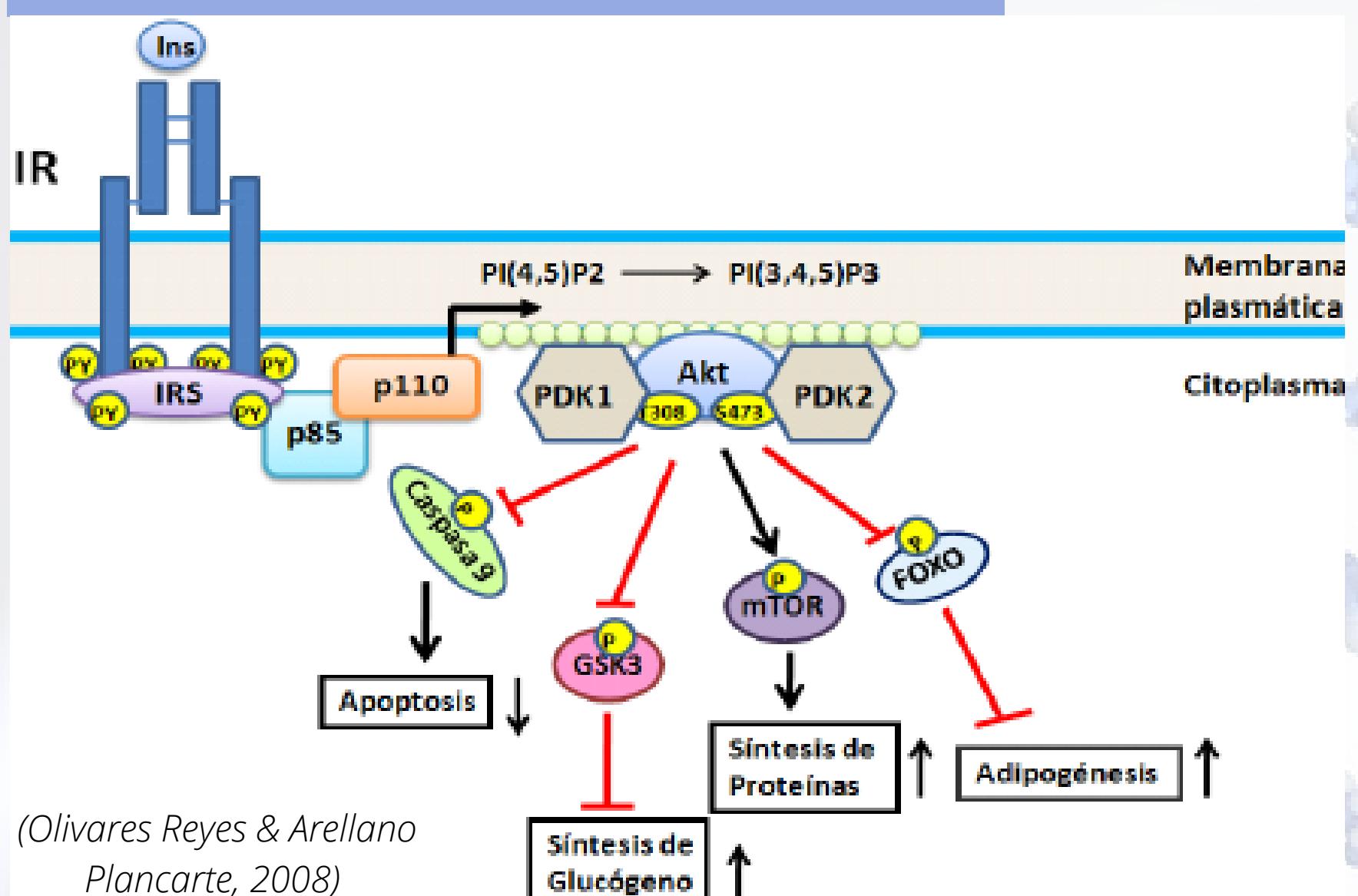


Gene Therapy in the Treatment of Type 1 Diabetes Mellitus

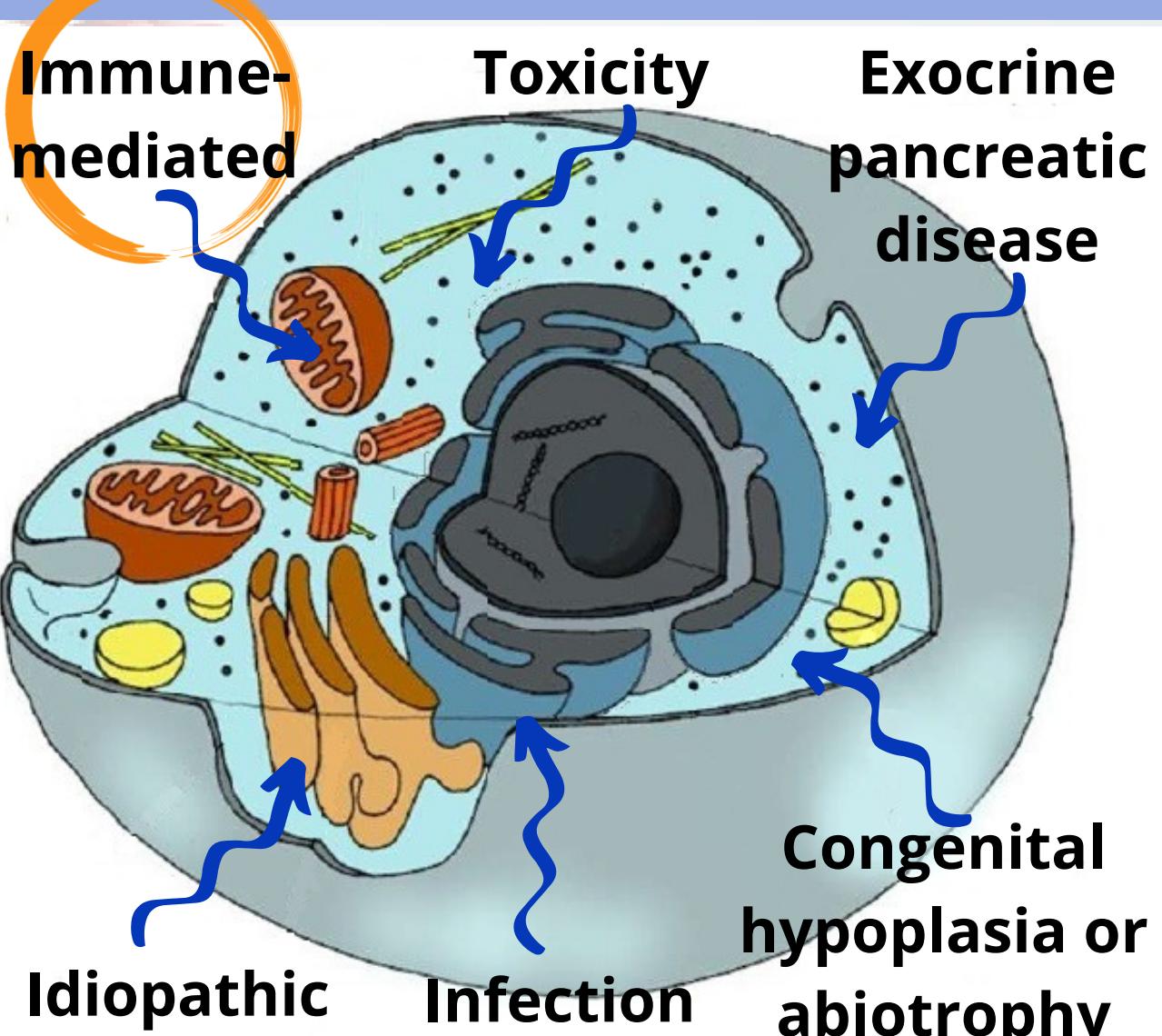
OBJECTIVES

- Understanding **Type 1 Diabetes Mellitus** and its treatment's limitations.
- Collect up-to-date information about the **use of gene therapy to treat T1DM**.

What is Type 1 Diabetes Mellitus?



What causes pancreatic beta cell dysfunction or destruction?



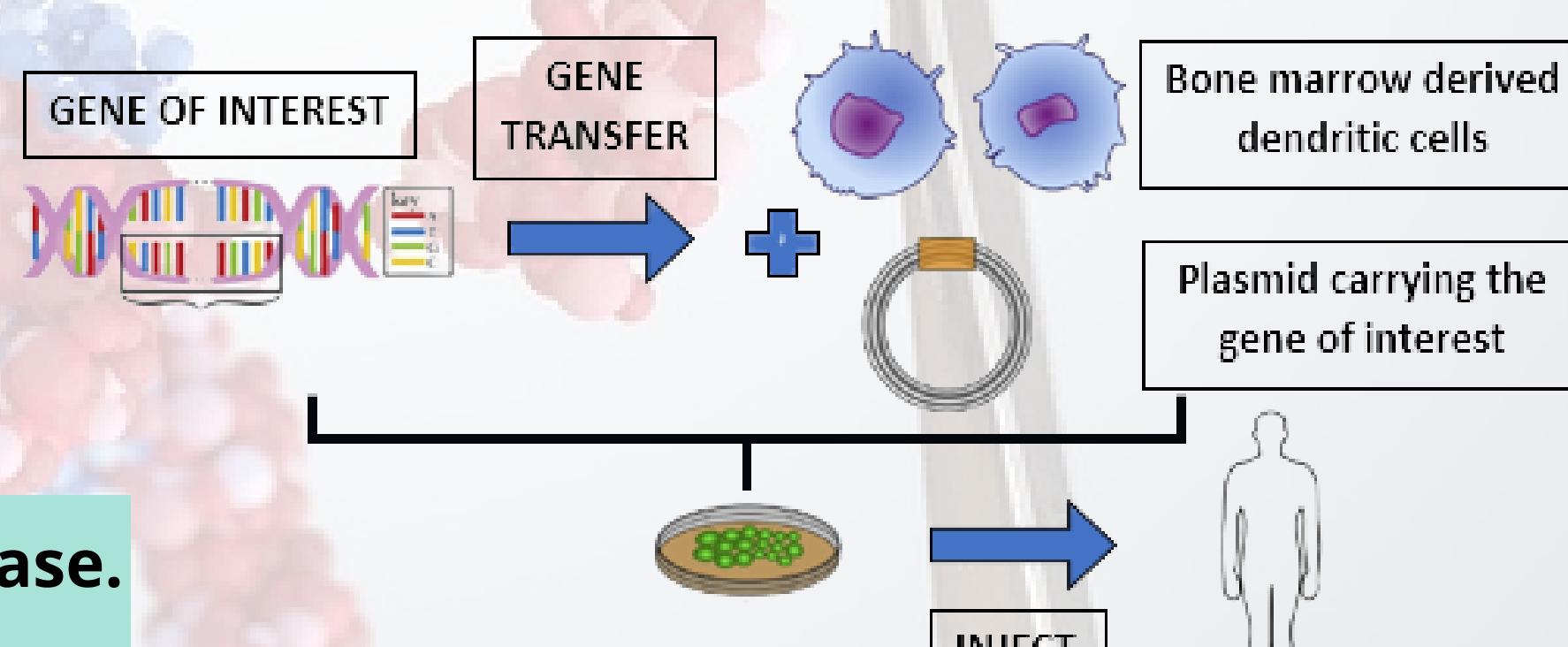
What is the current treatment?

INSULIN

PANCREATIC TRANSPLANT

CONCLUSIONS

- Canine DM is a **multifactorial disease**.
- Mainly focused on **immune system' genes**.
- Independence** from exogenous insulin + **prevention** of secondary complications.
- Additional** and long-term **studies**.



Obtaining new insulin-producing cells

Protection of beta cells against autoimmunity

GENE THERAPY TECHNIQUES TO TREAT T1DM