

# What's the role of tetraspanin-7?

## Who

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## When

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## What

1

Work out how common autoantibodies against tetraspanin-7 are in newly diagnosed people



2

Work out how common autoantibodies against tetraspanin-7 are in those at risk of type 1



3

Study the role of tetraspanin-7 in normal beta cells



4

Study genes and other features to understand why the immune system responds to tetraspanin-7



Autoantibodies are immune system proteins that mark out the beta cells for destruction.

There are 4 key autoantibodies that we use to detect type 1 diabetes.

Autoantibodies formed in response to tetraspanin-7 could be another.

## Why

- Understanding the role of tetraspanin-7 will help us understand how and why the immune system destroys the beta cells.
- This will help us to develop immunotherapy treatments to stop the immune system attacking the beta cells.

## The future

Immunotherapy to prevent and cure type 1 diabetes

