

P001 Protease response domain in immuno-reproductive failure.
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INTRODUCTION: The endocrine system and the immune system communicate, regulate, and interact closely during the implantation and maintenance of pregnancy. Proteases are required for the activation of this regulatory molecule.

PRINCIPLE: It is the balance between the proteases and their inhibitors at any focal point that determines the site and extent of trophoblast invasion. while the inhibitors domain enters or blocks a protease active site to prevent substrate access.

LABORATORY ANALYSES:

1. *In vitro Functional studies*
2. *In vivo Functional studies*
3. *Protease inhibitors*
4. *Activation of enzymes*
5. *Regulation of transcription*

CONCLUSION

The enzymes that activate either the proteases or regulators of their activation pathways have an undisputed role in the early stages of embryo implantation, particularly with respect to invasion of the trophoblast.