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## Identification of two adhesins of *Actinobacillus seminis*

Running title: Afimbrial adhesins from *Actinobacillus seminis*

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### Highlights

- *seminis* phosphoglycerate mutase and elongation factor-Tu function as adhesins.
- These proteins interact with sheep fibrinogen and fibronectin.
- Immune sera against them inhibit the *A. seminis* adherence to epithelial cells.

### Abstract.

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