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**Palynological characterization, germination potential and pollen tube growth of direct producer hybrids *Noah* and *Othello* (*Vitis* genus)**

(Abbreviated title: **Pollen characterization of *Noah* and *Othello* direct producer hybrids**)

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### Highlights

- Palynological characters of pollen in *Noah* and *Othello* cvs. are very similar
- Pollen germination capacity is higher at *Othello* cv. than *Noah* cv.
- The most efficient mediums for pollen germination of both cvs are 15% and 25% sucrose
- *Noah* cv. proved to have larger dimensions for floral elements than *Othello* cv.
- Pollen germination process of the two cvs. was marked by very similar abnormalities

**Abstract:** *Noah* and *Othello* cultivars are American direct producer hybrids with different genetic origins. *Noah* is native of *Vitis labrusca* x *Vitis riparia* and *Othello* of (*Vitis labrusca* × *Vitis riparia*) × *Black Hamburg* (*Vitis vinifera*). Their grape productions are different. Pollen quality is important for grape production. Present research studied the two direct producer hybrids in order to highlight the

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