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# **Czech J. Genet. Plant Breed.**

S., Klíma M.,  
Vyvadilová M., Prá šl  
T.l.:

# Freezing tolerance and proline content of *in vitro* selected hydroxyproline resistant winter oilseed rape

Czech J. Genet. Plant Breed., 46 (2010):  
35-40

Twelve doubled haploid (DH) winter oilseed rape plants with altered levels of proline and/or freezing tolerance were obtained by *in vitro* selection for resistance to *trans*-4-hydroxy-L-proline (Hyp) in five segregating microspore populations. No significant response to selection either in proline content or in freezing tolerance, compared with the non-selected control populations, was observed. When data from all examined materials were combined, a weak correlation between proline content and freezing tolerance was observed.

## Keywords:

abiotic stress; *Brassica napus*;  
microspore culture; proline

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