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Recent fir hybridization research in the light of Czech-American cooperation

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The project is based on control pollination of different fir species in the sense of interspecific hybridization. The aim of this procedure is a new bred material for specific needs of forestry and Christmas tree production. Concrete breeding aims are represented in this sense by resistance to limiting environmental conditions (e.g. drought) and by resistance to diseases and pests. The experiment follows a traditional hybridization program of the department focused on the genus *Abies* and recently it has been extended by the Czech-U.S. cooperation (North Carolina State University Raleigh). For hybridization mainly Mediterranean fir species are used together with Asian species (e.g. *Abies koreana*) and of course American species (above all *Abies fraseri*). Hybridizations will be followed by *Phytophthora cinnamomi* screenings that have high priority. Hybrid progenies will undergo early testing and their vegetative propagation for cloning purposes is being considered.

Keywords:

Abies; hybridization; breeding; *Phytophthora cinnamomi*; *Abies fraseri*

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