

**FERTILIZATION EFFECTS ON THE FATTY ACID COMPOSITION OF *BETULA PENDULA* AND *B. PENDULA*  
VAR. *CARELICA* (BETULACEAE) LEAVES**

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SUMMARY

The effect of nitrogen and compound (NPK) fertilizers on the fatty acid composition from *Betula pendula* Roth and *B. pendula* var. *carelica* (Mercklin) Hämet-Ahti glycolipids of leaves are studied. Increased ratio of linolenic and linoleic acids from glycolipids of leaves, as well as an increase in assimilating surface due to the growth of mesoblasts in sylleptic shoots of *B. pendula* when dressed by nitrogen fertilizer, and of *B. pendula* var. *carelica* – by compound fertilizer has been observed.

Key words: *Betula pendula*, *B. pendula* var. *carelica*, linolenic acid, linoleic acid, glycolipids, auxiblasts, brachyblasts, mesoblasts, sylleptic shoots, nitrogen fertilizers, compound fertilizers.