

## Study on the biological characteristics of oils essential and water-oil products from far eastern species of birches

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*The paper presents findings of studies of ether oils extracted from Asian white and black birch buds as well as water oil products from Asian white, Siberian yellow and black birches growing naturally in Far East.*

*Research goal is to study ether oils and water oil products output, physical-chemical characteristics, chemical make-up as well as its applications.*

*Focus on a need to study Far East birch species medicinal values and integrated utilization of forest resources.*

*Siberian yellow birch water oil product promoting impact in germination of coniferous species, Yezo spruce and Dahurian larch, seeds. Promoting impact was identified after 3 hours Yezo spruce and Dahurian larch seeds presoaking in 25% Siberian yellow birch water oil solution.*

*It was found that ether oil output from Asian white birch buds was 0.20-0.30%, black birch – 0.10-0.20%, Asian white birch woody greenery – 0.65%, black birch – 0.60%. 28 components were identified in Asian white birch bud ether oil and 30 components from black birch buds. The research is ongoing.*

**Keywords:** *Betula, essential oil, water-oil product, chemical composition*