

# **Ortmann-Ajkai, A., et al. (2017): Regeneration Patterns in a pedunculate oak strict forest reserve in Southern Hungary. Sumarski list 141(1-2):39-46.**

Reference: Ortmann-Ajkai, A., G. Csicsek, M. Lukács, F. Horváth (2017):  
Regeneration Patterns in a pedunculate oak strict forest reserve in  
Southern Hungary. Sumarski list 141(1-2):39-46.

Short reference: Ortmann-Ajkai et al. (2017)

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## **Abstract**

Insufficient natural regeneration of pedunculate oak (*Quercus robur* L.) in alluvial hardwood forests is a serious problem both for close-to-nature silviculture and nature conservation, as it may lead to in-depth changes of forest structure. Natural regeneration processes in pedunculated oak forests are especially difficult to study due to the lack of strict forest reserves, where natural processes would be able to manifest. No-intervention (passive) conservation of closed floodplain pedunculate oak forests is often regarded as a failure not only of economic, but also of conservational point of view. Our observations on spontaneous stand development of a floodplain pedunculate oak forest, including all woody species, were carried out in a strict forest reserve in Southern Hungary. Data on the current structure of a 120-years old stand, unmanaged for 17 years were sampled with the three-layer protocol of the Hungarian Forest Reserve Program, and analysed with PCA. Stand structure change was described by comparing current results with those of Braun-Blanquet relevés from 1995-96. We presented a detailed case study of an unmanaged floodplain oak forest, and demonstrated that instead of regeneration of the closed *Quercus robur*-dominated high forest, forest-like stands of *Crataegus monogyna* developed. No-intervention conservation allowed natural processes to manifest, but not preserved local conservational values, and apparently did not sustain present, economically very valuable oak stands. Our results on the consequences of 17 years of passive conservation provide information useful for conservational decision-making.

élőhely: gyertyános-tölgyesek, bükkösök

élőhely: láp- és ligeterdők

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Strict forest reserves: [Bükkhát Erdőrezervátum](#) Attached document: [Ortmann-Ajkai forest reserve](#)

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