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Ingale S., Shrivastva S. K., 2011 Chemical and bio-chemical studies of new varieties of safflower (*Carthamus tinctorius* L.) PBNS-12 and PBNS-40 seeds. AAB Bioflux **3**(2):127-138.

Roibu C.-C., Savin A., Negrea B. M., Barbir C. F., 2011 Dendroecological research in beech (*Fagus sylvatica* L.) stands affected by abnormal decline phenomena from Dragomirna plateau, Suceava county, Romania. AAB Bioflux **3**(2):139-150.