From the cultures of spore-derived mycobionts of the lichen Lecanora leprosa a novel naphtho[1,8-cd]pyran-3-one derivative, lecanopyrone, was isolated. Its structure was determined by spectroscopic methods. The assembly pattern of acetate units in its biosynthesis was verified using sodium [1-\(^{13}\)C]-acetate and sodium [1,2-\(^{13}\)C\(_2\)]-acetate.

Key words: Lecanora leprosa, Lichen Mycobiont, Naphtho[1,8-cd]pyran-3-one