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**INFLUENCE OF DEPOSITS QUANTITY AND AIR TEMPERATURE  
ON <sup>137</sup>Cs ACCUMULATION BY THE HIGHER MUSHROOMS**

Researches of the influence of weather conditions (amount of precipitation, air temperature) on <sup>137</sup>Cs content's magnitude in fruit bodies of mushrooms: *Boletus edulis* Bull.: Fr., *Suillus luteus* (L.: Fr.) S.F.Gray, *Xerocomus badius* (Fr.) Kuhn. ex Gilb., *Tricholoma flavovirens* (Pers.: Fr.) Lund., *Cantharellus cibarius* Fr. at the territory of Chernobyl alienation zone and «southern trace» are performed. Correlation factors, determination factors between specific activity <sup>137</sup>Cs at mushrooms and quantity of deposits (mm) and the maximum temperature of air (°C) are calculated. At calculations the decrease of the content of <sup>137</sup>Cs in mushrooms at the expense of disintegration of this isotope has been considered. As a result of researches the authentic dependence of specific activity <sup>137</sup>Cs in fruit bodies of the studied kinds of mushrooms from quantity of deposits and from air temperature has not been established.

*Keywords:* fruit bodies of mushrooms, the content of <sup>137</sup>Cs, weather conditions, an amount of precipitation, air temperature.