The evolution of some physiological processes in tomato plants cultivated on different organic substrates

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This paper presents the results of some researches performed in order to point out the influence of different culture substrates on the evolution of the major physiological parameters: plant growth, respiration rate, photosynthesis rate, content in assimilatory pigments. As culture substrates there was used forest compost, fir sawdust, black peat, red peat and as a control, the soil. The experiment was constituted from 8 variants as a result of the combination in different ratio of the organic materials and the determinations were made during the vegetation period of the tomatoes. The obtained results reveal the importance of the culture substrates, which is determinant for the growth and development of plants.