



Fractal analysis of the root architecture for tomato plants treated with cadmium

S. OANCEA - USAMV Iasi

The main objective of this study was to evaluate the impact of cadmium on root architecture of the tomato plant using fractal analysis. Our results showed that the treatment of the tomato plant with this heavy metal strongly reduce the fractal dimension of the roots. Due the fact that the fractal dimension is a direct measure of the relative degree of complexity of the figure, we can conclude that this chemical compound influences the root architecture and then reduces the root contribution to the water transport in plant and plant development.