

EVALUATION OF PHYTOSANITARY CONDITION OF THE CRIMEAN FEDERAL V.I. VERNADSKY UNIVERSITY BOTANICAL GARDEN'S ROSARY

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The collection of the Crimean Federal University Botanical Garden's Rosary (CFU) includes almost 200 varieties of domestic and foreign selections consisted of 12 garden groups: Hybrid tea, Floribunda, Grandiflora, Miniature, Climbing rose, Large-Flowered Climber, Semi-climbing rose, Kordes roses, Polyanthus, various Shrubs and Spray. During the survey carried out in 2013-2014 on the territory of the Rosary there was found out that *Rosa* × *hybrida* hort. is mostly affected by the following fungal diseases in the open ground: blackspot (*Diplocarpon rosae* Wolf (anamorph *Marssonina rosae* (Lib.) Died., Ascomycota), rust fungi (*Phragmidium mucronatum* (Pers.) Schlecht., Basidiomycota) and powdery mildew fungus (*Podosphaera pannosa* (Wallr.) de Bary, Ascomycota). In the open ground 138 varieties of 10 garden groups *Rosa* × *hybrida* hort. were examined. The evaluation of the prevalence and intensity of the infection in groups of garden roses is given. The information on different disease resistant varieties is provided. Hybrid tea roses (Red Queen varieties), Climbing roses (Alberic Barbier varieties) and Shrubs (Gruss an Rengsdorf varieties) are detected to be tolerant to blackspot. Among the rust-resistant varieties are the following: Garnet Bracelet (Miniature), Bella Rosa, Lavender, Robusta, Seagull, Decor, Orange sun, Ambiance etc. Powdery mildew-resistant varieties are the following: Pierre de Ronsard, Guculochka, Eu-Punk, Krasnyj Majak, Lutside, Kronenbourg, Mascotte, etc. This allows us to recommend the above mentioned varieties for urban and backyard planting of greenery in the Foothill Crimea. In the frame of the exhibition, the flowerbeds with the greatest localization of parasitic fungi were indicated. They require special attention from the staff of the Botanical Garden, as they represent the probable sources of infection emergence and spread both within the rosary and the adjacent exposures. The preventive measures taken on the territory of the CFU Botanical Garden's Rosary are described.

Keywords: phytotrophic micromycetes, species composition, prevalence and intensity of the diseases, rosary, phytosanitary condition, preventive measures.

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