

Dipartimento di Biotecnologie e Bioscienze – UNIMIB

Thursday, October 24, 2024, 4:30 p.m., U3-BIOS building, room U3-08

The role of plant functional traits in ameliorating urban pollution

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Abstract: Impermeable surfaces, unlike vegetation, do little to attenuate high temperatures, standing water, soil and air pollution. Variation in how plants respond to and affect these environmental factors can be directly linked to leaf and root functional traits: leaf area and shape, trichomes, carbon assimilation rate and stomatal conductance, root architecture and biochemical interactions with the soil. This talk will focus on the morphological and physiological mechanisms by which plants contribute toward improved air quality and water-use efficiency in an urban context, highlighting the work being conducted in the **Piazza della Scienza** as a part of **MUSA** (Multilayered Urban Sustainability Action).

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