

**Dipartimento di Biotecnologie e Bioscienze – UNIMIB**

giovedì 19 gennaio, 2023, ore 16:30, edificio BIOS, aula U3-07 / Webex

# New insights about sustainable phytoremediation of brownfield sites

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**Abstract:** Phytoremediation to clean up polluted brownfields is an innovative, environmental-friendly technology which has been investigated for several years. Unfortunately, the long-time frame required to reduce pollution below safety thresholds often discourages the use of this approach at large field scale. However, phytoremediation can provide additional services that could compensate for the above-mentioned shortcoming (e.g. carbon sequestration, urban temperature and air pollution mitigation, enhance biodiversity and social benefits). While information is abundant for urban forests, most of these services must be still quantified for phytoremediation sites which differ from urban forests in both their physical structure and relationship with the city (e.g., usability).

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