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Life Sciences : Tree Biology

Pirttilä, Anna Maria, Frank, A. Carolin (Eds.)

Endophytes of Forest Trees

Biology and Applications

- A collection of recent updates on application of tree endophytes in forestry
- Chapter(s) on specific endophytes associated with forest diseases
- Includes individual instructions on how to isolate and study forest biocontrol agents
- Includes analysis of genes important in endophytic bacteria

Endophytes are commonly known as microorganisms, mainly bacteria and fungi, which live inside plant tissues without inducing symptoms. Considering the long-lived trees, endophytes have a fundamental role in preparing their hosts to face extreme weather conditions, drought, heat, cold, and pathogen and herbivore attacks. The current knowledge clearly demonstrates the importance of endophytes in shaping the plant diversity in a forest. Endophytes have an important capacity for biocontrol of forest diseases. Considering endophyte diversity and the range of various compounds and enzymes they can produce, endophytes can be used for various biotechnological applications.

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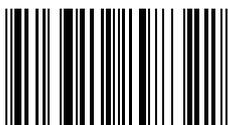
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