

Practical 1: Isolation and Identification of Fungi Species

Introduction

Fungi are multicellular organisms descending from Class Opisthokonta. There are thousands of different fungi species sharing our environment, exposing human to them in many ways including the air we breathe, the food we consume and even the water we drink. There is a significant number of fungi that could cause infections in immunodeficient individuals and in individuals with genetic variants that promote susceptibility to specific fungal organisms. Fortunately, methods for isolation of specific groups of fungi are well defined and developed allowing researchers in generating knowledge, conceptual understanding and insight regarding the kingdom fungi itself. The first group of fungi that will be focused on is the Endophytic fungi, also called plant hidden fungi, defined as fungi which part or all of their life cycle living naturally in the plant tissues without causing disease symptoms. Endophytic fungi can be isolated from the leaves, stems, flowers, fruits, and seeds. *Serendipita indica*, is one example of root endophytic fungi that has numerous applications in agriculture. Another group of fungi that will also be introduced in this practical is aquatic fungi. Aquatic fungi are microscopic organisms with mostly mycelial growth and hyphae developing on or within their typically submerged organic substrates of plant or animal origin. They are usually found in stagnant ponds, ditches, or slow flowing water and are capable of vegetative growth on submerged leaves and woody substrates under semi-anaerobic conditions. *Paraphysoderma sedebokerense* is one of the fungi species from phylum Blastocladiomycota that lives in freshwater habitat. It is a facultative pathogenic chytrid that causes irreversible damage to some green microalgae.

Objectives:

1. To isolate unknown fungi species from different sources (example: leaves, stems, fruits, ditches, slow flowing water, etc.)
2. To grow unknown fungi species on suitable growth medium.
3. To identify fungi species by using Olympus CX12 light microscope.

Bioprocess Technology Lab Manual

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