

ISOLATION AND IDENTIFICATION OF THE BASIDIOMYCETE FUNGI

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What are the techniques for isolation and identification of fungi? *C. neoformans* and *C. gattii* grow on almost all laboratory media, but fungal isolation media (such as Sabouraud's dextrose agar) and incubation temperatures of 25°C or 30°C in addition to incubation at 37°C are preferred when fungi are being considered in the differential diagnosis.

What technique is used for isolation and identification of medically important fungi? PCR amplifies fragments of fungal ITS region with a length of about 300-1,000 bp. Based on the length of PCR amplified fragments, one or two sequencing reactions are performed to obtain the ITS region sequence information. Isolation and identification of endophytic fungi.

What is the isolation and identification of fungi associated with bread? Sabouraud's Dextrose Agar (SDA) was used for culturing of the fungal organisms. The five fungal organisms found to be associated with the spoilage of bread were *Aspergillus flavus* (16.7%), *Rhizopus* spp (14.6%), *Aspergillus niger* (8.3%), *Mucor* spp (6.3%) and *Penicillium* spp (4.2%).

What is the identification of basidiomycetes? Identification is based on morphological, physiological, biochemical, and genetic characteristics of the basidioma, hyphae, and spores. Molecular biology techniques are also being used in the identification of new isolates.

Which technique is most suited for fungal identification? Polymerase chain reaction (PCR)-based techniques are now being used to identify specific species of fungi, including dermatophytes. They have revealed marked genetic diversity among

some fungi, particularly Trichophyton mentagrophytes.

How are fungal isolates identified? The fungal isolates are identified based on their microscopic characteristics like structure of hyphae, conidia and conidiophores along with their macroscopic features (colour, shape and colony morphology) using lactophenol cotton blue staining method (Thirawatthana et al., 2013).

Which method is most preferable in isolation of fungi? Fungi are typically isolated by plating a sample (e.g., soil, organic matter, liquids) on a Petri dish containing a rich medium such as malt extract agar and potato dextrose agar (PDA) supporting the growth of a variety of fungi.

Which method is used for fungal identification? Fungal identification is based frequently on spore morphology such as color, septation, and different methods of spore production. In addition, the nature and morphology of sexual spores and the different spore types involved in the sexual and asexual life cycles are also used for fungal identification.

What are the 4 approaches to laboratory diagnosis of fungi? Molecular techniques for fungal identification both from culture and directly from patient specimens, including nucleic acid probes, mass spectrometry-based methods, nucleic acid amplification testing, and traditional and broad-range sequencing, are discussed and their performance evaluated.

How do you observe fungi on bread? Students should examine cultures in containers, which have been taped and closed. Colony morphology is a method that scientists use to describe the characteristics of an individual colony of fungi growing on agar in a Petri dish. It can be used to help to identify them.

Which of the 4 types of fungi is bread mold? Zygomycota: The Conjugated Fungi They include the familiar bread mold, Rhizopus stolonifer, which rapidly propagates on the surfaces of breads, fruits, and vegetables.

What fungi is observed from samples of moldy bread? The most common bread moulds include Penicillium sp., Aspergillus sp. (and Rhizopus stolonifer) which were ones which were assumed to be identified in this experiment.

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Which technique is used to identify fungal pathogens? Fungal Infections A variety of methods, including DNA sequencing, microarrays, and polymerase chain reaction (PCR)—electrospray ionization mass spectrometry, have been used to develop broad-range molecular detection assays.

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What are the methods used in isolation and identification of bacteria? Various methods used for isolation of bacteria culture methods which includes culture on solid or liquid media and automated system. Non culture methods include the molecular techniques eg PCR, SDA, NASBA.

The Russian Revolution: 1917-1932 by Sheila Fitzpatrick

Q: What is the main focus of Sheila Fitzpatrick's work on the Russian Revolution?

A: Fitzpatrick's research focuses on the social and cultural aspects of the Revolution, particularly the impact on everyday life and the experiences of ordinary people.

Q: What are some of the key themes explored in the book?

A: Fitzpatrick examines themes such as the disintegration of traditional authority, the rise of mass politics, the formation of a new Soviet society, and the repression and violence that accompanied the Revolution.

Q: How does Fitzpatrick challenge traditional narratives of the Revolution?

A: Fitzpatrick challenges the idea that the Revolution was simply a political struggle between Bolsheviks and Mensheviks. She argues that it was a complex and multi-layered event that involved a wide range of social groups and movements.

Q: What sources does Fitzpatrick use to support her arguments?

A: Fitzpatrick draws on a wide range of sources, including memoirs, diaries, newspapers, and official documents. She uses these sources to provide a vivid and detailed account of the Revolution from the perspective of ordinary Russians.

Q: What are some of the implications of Fitzpatrick's work for our understanding of the Russian Revolution?

A: Fitzpatrick's research has significantly expanded our understanding of the Revolution and its impact on Russian society. It has shown that the Revolution was a much more complex and multifaceted event than previously thought, and it has provided valuable insights into the experiences of those who lived through it.

The Serenity Principle: Finding Inner Peace in Recovery

What is the Serenity Principle?

The Serenity Principle is a widely known maxim in recovery programs. It reads: "Grant me the serenity to accept the things I cannot change, the courage to change the things I can, and the wisdom to know the difference."

How does the Serenity Principle apply to recovery?

In recovery, we encounter challenges and obstacles that can seem overwhelming. The Serenity Principle helps us distinguish between the things we can control and those we cannot.

What are some examples of things we cannot change?

We cannot control the past, nor can we change others' behavior. We cannot predict the future or prevent all setbacks. Accepting these limitations reduces stress and anxiety.

What are some examples of things we can change?

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We can change our own thoughts, feelings, and behaviors. We can take responsibility for our actions and make positive choices that support our recovery.

How does the Serenity Principle help us find inner peace?

By accepting the things we cannot change, we can release the burden of trying to control the uncontrollable. By focusing on changing what we can, we gain a sense of purpose and accomplishment. And by cultivating wisdom, we develop the ability to discern between the two, leading to greater peace and serenity in recovery.

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Who is the author of Introduction to sociology 3e?

What is the latest edition of sociology in our times? Kendall's SOCIOLOGY IN OUR TIMES: THE ESSENTIALS, 12th edition, introduces you to the study of sociology through captivating, real-life stories as well as timely topics such as the relationship between suicide, bullying and social media.

What is the name of the oldest sociology journal in America? Established in 1895 as the first US scholarly journal in its field, the American Journal of Sociology (AJS) presents pathbreaking work from all areas of sociology, with an emphasis on theory building and innovative methods.

How do you cite Introduction to Sociology 3e? Recommended Citation Conerly, Tonja R.; Holmes, Kathleen; and Tamang, Asha Lal, "Introduction to Sociology, 3rd Edition" (2022). eTextbooks for Students.

Is sociology a hard class? Some students find sociology easy because it's often grounded in everyday experiences, while others might find it challenging due to its theoretical nature and need for analytical thinking. Keep in mind that the difficulty level of the course can also vary depending on the teacher and how they structure the class.

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